



NEW AIRE



2025 New Aire Owner's Guide Table of Contents

Introduction - Page 5

- Coach WiFi Security Alert
- New Coach Delivery Process
- Newmar Warranty
- Contacting Newmar
- About Newgle

Safety - Page 15

- Safety Resources and Compliance Requirements
- Weather Safety
- Fire Safety
- Carbon Monoxide Safety
- Propane Safety
- Emergency Exits

Appliances - Page 29

- Before Scheduling Service Work for Your Appliance
- Cooktops and Ranges
- Dishwashers
- Fireplaces
- Microwaves and Convection Ovens
- Refrigerators, Freezers, and Ice Makers
- Vacuums
- Washers and Dryers

Chassis - Page 51

- Freightliner
- Spartan
- Collision Warning Systems
- Fuel Systems
- Leveling Systems
- Steering Systems
- Wheels and Tires

Electrical - Page 81

- 12 Volt Electrical System Overview
- 120 Volt Electrical System Overview
- Electrical Typical Amp Draw List
- Batteries
- Shore Power Cord and Cord Reels
- Fuse Panels
- Generators
- Inverters and Converters
- Lighting
- Receptacles and Accessory Chargers
- Solar Power
- Transfer Switches and Surge Protectors

Electronics - Page 123

- Dash Infotainment Systems
- Camera and Video Monitoring Systems
- Holding Tank Monitoring Systems
- Navigation Systems
- Keyless Entry Systems
- Coach Management and Multiplex Systems
- WiFi Systems

Entertainment Systems - Page 161

- Antennas, Cable, and Satellite Systems
- Audio Systems
- Remotes
- Televisions
- Television Lifts

Exterior - Page 175

- Air Horns
- Awnings
- Compartments
- Doors, Handles, and Chimes
- Entrance Steps
- Hitches and Towing Components
- Mirrors
- Optional Accessories
- Paint, Roof, and Siding
- Windows and Windshields
- Wiper Systems

HVAC - Page 191

- Air Conditioning and Heat, Dash
- Air Conditioning and Heat, Roof
- Fans and Ventilation
- Hydronic Heating
- Radiant Heating
- Thermostats

Interior - Page 203

- Beds and Mattresses
- Cabinetry and Woodwork
- Ceiling and Walls
- Countertops and Backsplashes
- Fabrics and Materials
- Flooring
- Interior Doors and Hardware
- Interior Furnishings and Furniture
- Interior Steps and Step Covers
- Safes
 - Shades and Window Coverings

Plumbing - Page 217

- Water Compartment Overview
- Fresh Water System
- Fresh Water Reclamation Systems

Care and Maintenance - Page 253

- Water Pumps and Controllers
- Faucets and Fixtures
- Filters
- Power Washers, Sprayers, and Exterior Showers

Leveling and Full Wall Slideout Sequence Of Operation

1

- Waste Water System
- Toilets

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle

Slideouts - Page 241

Electric Slideouts

Hydraulic Slideouts

This page is intentionally blank.

IMPORTANT

The content within this Owner's Guide is customized based on available standards and options determined by Newmar for the 2025 model year. This Guide may not include information for "specials," such as equipment and/or features selected outside of the available standard and options list.

MIMPORTANT

This Owner's Guide is a compilation of quick start guides for various components in your coach and should not take the place of the complete Operation Manual(s) provided by the component manufacturer(s). Refer to the complete manuals provided by the component manufacturer(s), which may be located in your owner's information package and/or Newgle.

This Owner's Guide is published and printed from Newmar's online knowledgebase. For the most up-to-date version of this content, and for more product-specific information, how-to articles, and troubleshooting information, please refer to Newgle. All of the information in Newgle is believed to be accurate at the time of publication. However, it may be necessary to make revisions, and Newmar reserves the right to make any such changes without notice or obligation.



This page is intentionally blank.

INTRODUCTION: ABOUT NEWMAR AND YOUR NEW COACH

This chapter provides you with an introduction to Newmar, our warranty process, and our seamless service promise.

New Coach Delivery Process and Limited Warranty

This article provides a detailed list of the customer and dealer responsibilities during the delivery process, as well as information about Newmar's limited warranty.

Introduction to Newmar

Welcome to the exciting world of recreational vehicles and the growing Newmar family! Congratulations on your purchase of a Newmar product! Your coach proudly carries the Newmar torch, as a new generation of RV'ing begins. We share your excitement at this moment, and with you look forward to the years and miles of adventure the RV lifestyle offers you in your coach.

Whether camping at your favorite remote fishing hole or tailgating at the big game with your friends, Newmar is with you every step of the way.

The Newmar Legacy

Your new coach was built with care using today's technology and old-world craftsmanship. At Newmar, we strive to build vehicles that are safe, dependable, and comfortable. Born on Christian principles and from the desire to build the best, the legacy associated with the name Newmar is one of family pride and quality. It is the culmination of decades of RV design and building experience.

We take humble pride in our history of innovation. We introduced the industry to the first slideout rooms, and continued our tradition of innovation with the first flush floor slideout in a motorized coach and the smooth, seamless fiberglass body. Your coach is at the forefront of current technology, built by the skilled hands and quality-conscious eyes of craftsmen.

At Newmar, we recognize that a craftsman's final product is only as good as the materials they use, so we are selective about what we put into our coaches. We start with a foundation forged in the strength of steel and aluminum. We fill it with beautiful, durable hardwoods, and select name-brand appliances and components, then build it on a chassis proven to stand the test of time. Then we finish our coaches with an artist's gentle touch.

The Newmar Warranty

We stand behind our work with an exceptional warranty and dependable service, so you can travel with the kind of confidence that comes from knowing you're protected. What helps Newmar stand out from other coach manufacturers is our commitment to following our customers throughout the repair process to ensure any issues get taken care of the right way, right away.

Please read the Newmar Limited Warranty and all other component warranties that apply to the equipment installed on your coach. A copy of the "Newmar Limited Warranty" is available in Newgle.

Chassis and Component Manufacturer Warranties

The limited warranties issued by the chassis and component manufacturers require periodic service and maintenance. The owner's failure to provide this service and/or maintenance may result in the loss of warranty coverage.

Be sure to file the appropriate warranty registration with the proper manufacturer to activate the warranties on the components within your Newmar coach.

If you, for any reason, have a problem obtaining satisfactory and timely warranty service that may substantially impair the use, value, or safety of your Newmar coach, please call Newmar Customer Service toll free at **1-800-731-8300** (select the appropriate menu option).

The Delivery Process

Throughout the manufacturing process, your vehicle has been inspected by Newmar qualified technicians. However, our final inspection at the factory is not to be the last one. The pre-delivery inspection and systems check your dealer performs are the final inspections done to the unit prior to you receiving your new coach. Your dealer may assist you in understanding the limited warranties and with completing all warranty forms for the various appliances and accessories installed in your unit.

Customer Responsibilities

To assist you in avoiding problems with your vehicle, we recommend you do the following:

- 1. Read the warranty. Go over it thoroughly with your dealer.
- Inspect the vehicle. Do not accept delivery until you have gone through the coach with the dealer. Newmar has provided a checklist as part of the Owner's Registration to be used during retail delivery. Check each item on the list, and make sure the dealer does the same. Do not sign this checklist until you have checked off each item.



The sales literature versus actual specifics to the vehicle's measurements, weights, or quantities may vary.

3. Ask questions about anything that you do not understand concerning your recreational vehicle.

IMPORTANT

Reset all default keyless entry codes and WiFi system network passwords to prevent unauthorized access to the coach and its components. For more information, refer to Newgle and/or your coach owner's guide for keyless entry and WiFi security documentation.

For customers with SilverLeaf touchscreen(s) with version 1.81 or higher, LR 125 version 2.01 or higher, web version 5.0, and operating system version 4.0: An additional layer of SilverLeaf LR125/Control app security called "white listing" is available for the customer to use if they wish; however, it is not required. For more information about using white listing, refer to the PDF file in Newgle called "White Listing Devices via LR125 and System Control App."

Dealer Responsibilities

- 1. A pre-delivery inspection and systems check: thoroughly inspecting the vehicle and the operation of the factory-installed components.
- A customer walk-through to familiarize the customer with the vehicle, its systems and components, and its operation.
- Delivery of the Owner's Information Package. This package contains the warranty cards and registrations for the vehicle and factory-installed components that carry a separate warranty. The detailed operating and maintenance instructions on these components are also included in this package.
- 4. Assisting the customer in completing the component registration forms, at the customer's request. To avoid loss of warranty coverage, the dealer should review the limited warranty provisions with the customer, stressing the importance of filing warranty cards and registrations to the component manufacturers within the prescribed time limit.
- 5. Providing the customer with information regarding warranty and non-warranty work on the vehicle, as well as its separately warranted components, whether the customer is in or out of the area.



NEWMAR CORPORATION

PURCHASE DATE

SERIAL#

NEWMAR CORPORATION• 355 N DELAWARE ST• PO BOX 30 • NAPPANEE IN 46550-0030

2025 RECREATIONAL VEHICLE TWELVE MONTH LIMITED WARRANTY AND LIMITED 5-YEAR STRUCTURAL WARRANTY

BRANDS: BAY STAR SPORT • BAY STAR • CANYON STAR • SUPER STAR • SUPREME AIRE

NORTHERN STAR • VENTANA • DUTCH STAR • NEW AIRE • MOUNTAIN AIRE • LONDON AIRE • ESSEX • KING AIRE

Newmar Corporation warrants this recreational vehicle for twelve (12) months from the original retail owner's date of purchase under normal use and service while in operation in the United States and Canada excluding the exceptions set out below.

If any part of your new Newmar Corporation product fails because of a manufacturing defect within twelve (12) months from the original retail owner's date of purchase, it will be repaired without charge for either parts or labor by Newmar Corporation, providing the required maintenance as outlined in the Newmar Owner's Guide and claim procedures below are followed.

Upon discovery of a defect, you must notify the dealership where you purchased your Newmar recreational vehicle, or the local authorized Newmar Service Center and set up an appointment to have the defect corrected without charge for either parts or labor. It is the owner's obligation and an essential term of this warranty that they make the vehicle available for warranty service whenever it needs warranty service at the selling dealer or at an authorized Newmar service center. If you do not know the location of your closest Newmar Service Center, you must contact the Newmar Corporation warranty department by telephone at 800-731-8300, or by mail at PO BOX 30, NAPPANEE IN 46550-0030. Newmar will then direct you to the nearest service center. You must then call the service center and set up an appointment, or ask the warranty department to assist you in scheduling an appointment at the service center. Service performed by non-authorized service centers must have prior written approval from Newmar for warranty reimbursement. If you do not get an immediate response from any component manufacturer, call Newmar Customer Service and Newmar will assist you in obtaining warranty service from the component part supplier for the term of the Newmar warranty.

The repair or replacement of defective parts under this warranty shall be made by an authorized Newmar Corporation Dealership or Authorized Newmar Service Center. THE LIMITED 5-YEAR STRUCTURAL WARRANTY. If any part of your Newmar recreational vehicle superstructure (which is the

steel/aluminum structure of the sidewall, roof, or frame) fails to perform properly within five years from the date of purchase because of faulty workmanship or material supplied by Newmar, it will be repaired without charge for either parts or labor by Newmar providing the claim procedures stated above are followed. This structural warranty is available only to the original purchaser and is non-transferable.

THE TWELVE MONTH LIMITED AND LIMITED 5-YEAR STRUCTURAL WARRANITES DO NOT COVER OR INCLUDE:

- a. Any deterioration of appearance items due to wear and/or exposure to natural elements, including, but not limited to, drapery, upholstery, carpeting, exterior paint and finish, rust and corrosion;
- b. Any Newmar Corporation product that is not used solely for personal and recreational uses, including but not limited to, commercial or business use purposes (any use for business for profit, or nonprofit,) held for rental or hire, or used as a residence, dwelling, or abode;
- c. Unauthorized Modifications. Installation of any 'aftermarket' devices or modifying any existing system originally installed by Newmar Corporation will be considered an unauthorized modification. Any condition or repair related to the performance or function of the Newmar unit as a result of an unauthorized modification will not be considered a warrantable defect in materials, workmanship, or components, and necessitated repairs as a result thereof will not be covered under the Newmar Limited Warranties;
- d. Any damage or defect caused by, but not limited to, collision, fire, theft, vandalism, riot, explosion, acts of God, war, objects striking the vehicle, neglect, misuse, abuse, overloading, accident, unauthorized repairs, alterations, improper dealer handling, improper or un-applied maintenance, or failure to follow operating instructions or the Newmar Owner's Guide-
- e. Normal Maintenance Cost and Requirements. Normal maintenance cost and requirements detailed in the Newmar Owner's Guide are the responsibility of the purchaser. For an itemized list of required maintenance procedures and schedules, please refer to your Newmar Owner's Guide;
- f. Cosmetic alignment of the slide out(s) and other cosmetic adjustments are considered routine maintenance and are not covered;
- g. Equipment and components supplied and separately warranted by other manufacturers, including but not limited to, tires, batteries, engines, chassis, including all items supplied by the chassis manufacturer, and other installed equipment or accessories. These suppliers provide their own warranties or extensions. These warranties are separate from the Newmar Limited Warranties. Please review each separate warranty for descriptions and details of their respective warranty. The terms, conditions and warranty periods of these warranties may vary from the Newmar Limited Warranites.;
- h. Any undertaking, representation, or warranty made by dealers or other parties selling or representing the products covered by this warranty other than those specifically stated herein.

Newmar Corporation reserves the right to make changes in design and changes or improvements upon its products without imposing any obligation upon itself to install the same upon products theretofore manufactured.

This warranty is expressly in lieu of any other express warranties, written or verbal, made on the part of Newmar Corporation, which corporation does not undertake responsibility to any purchaser of its products for any undertaking, representation or warranty made by dealers beyond those herein expressed. Any implied warranties as to the Newmar Corporation Recreational Vehicle including any warranty of merchantability or fitness for a particular purpose or use are limited to a period of twelve (12) months immediately following the original retail owner's date of purchase as therefore stipulated. Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you.

This warranty is null and void unless the purchaser of and the dealer who sells the recreational vehicle fill out completely and mail the respective registration form supplied with this recreational vehicle within 10 days from date of original sale.

LEGAL REMEDIES: Purchaser and dealer further agree the courts (state or federal) located in the State of Indiana have exclusive jurisdiction to resolve any dispute based on this warranty, any implied warranty, or any alleged warranty breach, as well as any claim or cause filed in conjunction with a breach of warranty claim. Indiana Law shall apply to all agreements, disputes, negotiations, litigation, and settlements, without giving effect to any conflict of law rule that would result in the application of the laws of a different jurisdiction. Owner must provide written notice as described below and permit Newmar the opportunity to repair before owner may seek any action to seek legal or equitable remedies for breach of this limited warranty and any implied warranties. Any action for alleged warranty breach or revocation of acceptance or any action to enforce any portion of this warranty must be commenced no later than ninety (90) days of the expiration of the warranty period. Any warranty claim asserted or brought in violation of this Limited Warranty, or any claim brought against Newmar, directly or indirectly, under which the owner or any other person or entity seeks to broaden the terms of the Limited Warranty or under which the Purchaser or any other person fails to successfully prevail on any issue or matter of any type or nature, shall entitle Newmar to recover its costs, damages, and reasonable attorney's fees in connection with the same.

NEWMAR CORPORATION WILL NOT BE RESPONSIBLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES INCLUDING (BUT NOT LIMITED TO) LOSS OF USE OF VEHICLE, LOSS OF TIME, INCONVENIENCE, EXPENSES FOR TRAVEL, LODGING, TELEPHONE, TRANSPORTATION CHARGES, LOSS OR DAMAGES TO PERSONAL PROPERTY, OR LOSS OF INCOME.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In addition to the above provisions, the purchaser has certain legal remedies provided by the MAGNUSON-MOSS WARRANTY ACT, Public Law 93-637, 88 Stat. 2183-2193; U.S. Code, Secs. 2301-2312.

This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

3/2023

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newole

Л

Owner's Guide, Information Package, and Appliance Data Sheet

This article provides information about the Newmar owner's guide and information package, as well as the appliance data sheet posted in the coach.

NOTE FROM NEWMAR

The Newmar Owner's Guide, Information Package, and Appliance Data Sheet must NOT be removed from the vehicle in the event that the coach is sold. These items should remain with the coach for the next owner.

Owner's Information Package (Black Bag) and Newmar Owner's Guide

Included in your Owner's Information package are valuable documents about your vehicle and its components and systems. Carefully read both the instructions in your Owner's Guide, as well as the booklets supplied by the chassis and component manufacturers for important operation, safety, and maintenance information. This Owner's Guide should be kept in your vehicle for quick reference.

The Newmar Owner's Guide does not cover every possible detail of the equipment (standard and/or optional) installed on or in your coach. Consulting the booklets and instruction manuals in this package will help you safely operate, maintain, and troubleshoot these items. For more details about each of the components and systems installed in the coach, refer to Newgle.



IMPORTANT

Read all of the information and understand the safety and operating instructions included in the Owner's Information Package. To assure full warranty coverage, it is essential that all maintenance instructions are followed.

Take time to get acquainted with your coach and how it operates. Should you have any questions, consult your dealer or the Newmar customer support team.

Appliance Data Sheet

An information sheet is provided containing important information about your coach for your convenience.

- Your coach's Newmar Serial Number. This number is needed whenever making an appointment for service or ordering parts through your Newmar Dealer or Service Center.
- Your coach's Vehicle Identification Number (VIN). The VIN is the legal identification of the completed vehicle and is used by the state for vehicle registration.
- Your coach's Year, Model, Type, and Floorplan.
- Manufacturer, Model, and Serial Number of factory-installed equipment. Use these model numbers to quickly locate relevant information in Newgle about the parts, including links, files, and articles.

MPORTANT

The manufacturer, model, and serial number of the appliances and accessories installed at the factory in your coach are listed on this label for convenience. It is important that the label remains in the coach for identification purposes. Do not remove or relocate this label.



Contacting Newmar

Newmar has a large pool of online tools and content to help our RV owners. Before you reach out to our Customer Service team, check Newgle, NewPar, or Newmar's website for additional resources that may answer your questions and/or solve your concerns.

Newgle





Visit Newgle (<u>newgle.newmarcorp.com</u>), which is Newmar's dynamic, multi-faceted knowledge center created specifically for Newmar coach owners and certified technicians. Because content about your coach is constantly evolving and changing, the only way we can provide you with access to the most up-to-date and relevant information is by linking you directly to it! Much of the information comes from various departments at Newmar, as well as the manufacturer or supplier of the items specific to your coach model and year.

We urge you to check out the site for any additional information that may not be included in your owner's guide or information package. Newmar reserves the right to make any such changes without notice or obligation. For questions or feedback about the Newgle knowledgebase, email the Newgle team at *newgle@newmarcorp.com*.

NewPar (Parts)

For parts inquiries or purchases, refer to NewPar (ComNet), Newmar's parts catalog (<u>newpar.newmarcorp.com</u>) or contact the parts department directly at 800-731-8300 (select the appropriate menu option).

Factory Service and New-Serv Mobile Service

If you wish to schedule maintenance work, schedule service work, or order parts, you should notify Newmar or your local authorized Newmar Service Center to set up an appointment.

In select areas, Newmar's mobile service team can come to you if you do not have the time, resources, or ability to take the coach to a service center or dealership for repairs. Some repairs and services include (but are not limited to) awnings, electrical, freshwater system, furnaces, plumbing, slideouts, and basic care and maintenance.

For assistance locating the closest authorized Service Center, or to inquire about or schedule a New-Serv appointment, please contact Customer Service at 800-731-8300 (select the appropriate menu option) or send an email to newserv@newmarcorp.com.

Customer Service

If you still have questions and/or would like to speak to a Customer Service Representative, please call 800-731-8300, email *customerservice@newmarcorp.com*, or contact your brand specialist per the chart below.

Bay Star / Bay Start Sport	866-379-0612	baystarservice@newmarcorp.com
Canyon Star	866-540-9594	canyonstarservice@newmarcorp.com
Northern Star	866-724-3734	northernstarservice@newmarcorp.com
Ventana	866-540-9595	ventanaservice@newmarcorp.com
Dutch Star	866-379-0613	dutchstarservice@newmarcorp.com
New Aire	866-540-9599	newaireservice@newmarcorp.com
Mountain Aire	866-540-9596	mountainaireservice@newmarcorp.com
London Aire	866-379-0632	londonaireservice@newmarcorp.com
Essex	866-540-9591	essexservice@newmarcorp.com
King Aire	866-379-0551	kingaireservice@newmarcorp.com
Super Star / Supreme Aire	866-290-3855	supercservice@newmarcorp.com

Sales and Factory Tour

To find out details about the factory tours, or to contact the Newmar Sales department, call 800-852-1731. Newmar Corporation | 355 N Delaware Street | PO Box 30 | Nappanee, IN 46550-0030

Notices in Newgle and Newmar's Owner's Guide

Reference is made to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

DANGER

DANGER indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. Failure to observe a DANGER may also result in damage to the equipment or unit.

A WARNING

WARNING indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury. Failure to observe a WARNING may also result in damage to the equipment or unit.

A CAUTION

CAUTION indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. Failure to observe a CAUTION may also result in damage to the equipment or unit.

IMPORTANT

IMPORTANT notices are not related to personal injury, but provide additional information to make a step easier or clearer.

A NOTICE

NOTICE indicates information that is not necessary or required, but may prove to be helpful.

NOTE FROM NEWMAR

NOTE FROM NEWMAR indicates helpful information to improve customer experience or satisfaction outside of what is provided by a component manufacturer or supplier.

Newgle Introduction and Navigational Overview

This article provides a brief overview of Newgle: what it is, how to access it, how to navigate it, and what information is available. It also explains the different types of search filters that can be utilized in Newgle to produce the most effective search results.

What is Newgle, and why do I need it?

Do you have trouble finding reliable and trustworthy resources about your coach? How much time do you spend trying to figure out how to operate your appliances or what cleaning products are safe to use on your floors? What about troubleshooting information when something in your coach just is not working quite right? Do you prefer to find the answer yourself rather than asking for advice online or your neighbor parked next to you at the RV resort, or even contacting your dealer or customer service? You have come to the right place!

Welcome to the wonderful world of Newgle! Our free online knowledgebase provides you with coach information directly from Newmar, as well as our manufacturers and suppliers. Content is added and updated regularly and is only available to current coach owners and authorized service technicians. As part of Newmar's seamless service promise, your questions can be answered quicker than ever before with just a few clicks on Newgle's search-focused platform right from your laptop, tablet, or smartphone.

Newgle consists of nearly a dozen categories, hundreds of knowledge articles, and thousands of parts with associated coach models and years, files, and links.

Leave the research to us. Our goal is to provide you with the most updated information at all times. Though not coach-specific, Newgle supplies endless documentation about your coach model and year, all verified by Newmar's Service Content department.

MPORTANT

Newgle is an ever-changing knowledgebase. The Newgle Team strives to introduce new features and content regularly to improve the site. The included screenshots and navigational instructions may change without notice. Always refer to Newgle for the most up-to-date version of this content.

M NOTICE

Any technical information published in Newgle is only intended for use by qualified, Newmar-authorized service technicians. Newmar is not responsible for misuse of this information.

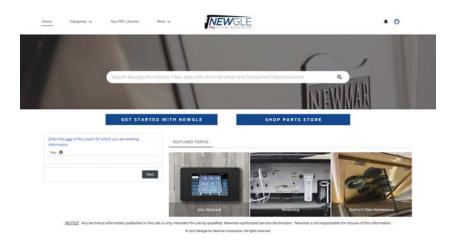
How do I navigate the website?

Home Page

The Home Page is a launching pad into the endless sea of knowledge.

You can easily return to the home page at any time by clicking the Newgle logo, the "Home" button at the top of the page, or by selecting the "Home" option from your username or nickname in the upper right-hand portion of the screen.

There are three key ways to navigate our website: the Category Drop-Downs, Coach Filter, and Search Bar.



Category Drop-Downs

Navigate through Newgle using the drop downs at the top of the page: Category, Sub-Category, and Product Manufacturer Name. From here, select the model number of the component installed in your coach. This type of navigation provides a basic overview of the site structure, but does not associate products with any coach models or years.

Coach Filter

To view products and parts related to your coach model and year, click through each option on the home page to narrow your results.

First, enter your coach model year, then your model. Then, select the category and sub-category of the information you are seeking. This will narrow your results down to the products and parts that are relevant to these specifications.

Then select the component installed in your coach to view the product page, which often includes associated features, files, links, and knowledge articles.

Search Bar

Search from the home page or from anywhere in the site using a key word or phrase, or by the product name, manufacturer, or model number. There is no need to search using coach information like the production number, VIN, model or year. Using the search bar produces the most results of the three different navigational options, which often contain one or more types of the following documentation:

- Products (Parts) by year and model Specific components, items, and parts installed by Newmar, which can be refined by the coach model and year.
- Files Attached documentation provided directly from Newmar's product manufacturers, suppliers, vendors, and distributors. The file results often include owner's guides, instruction manuals, installation guides, troubleshooting articles, care and maintenance guides, and much, much more. Files can be filtered on the left side of the screen by title and type of document.
- Links Helpful web addresses of product manufacturers that often contain additional resources such as online warranty registrations, safety information, reference material, contact information, etc.
- Knowledge articles Customer-friendly documentation written or revised by Newmar's Technical Publications department. These may contain basic operating instructions, additional safety information, product overviews, how-to and troubleshooting articles, as well as related videos produced by Newmar. In the past few years, Newmar's owner's guides for each model have been built from such articles, as they are meant to be an operational overview for a new coach owner. Note: The model-year coach filter on the Home screen bypasses these articles unless they are associated with a specific product or part. To view a more complete list of these articles, use the search bar.

After typing a search term or phrase, relevant results will populate on the screen; however, this is often not a comprehensive list. Instead, it only provides a "preview" of the results. For a more exhaustive list, click on the "View More" button in the top right corner of the section you wish to expand. Click on the Show More button at the bottom of the page if you wish to view even more results.

With so many results, it may be necessary to narrow them down. Refine your search results by choosing one of the categories on the left side of the screen: Products by Year Model, Files, Links, or Knowledge Articles, depending on what type of documentation you prefer to view. For example, review parts associated to your coach model and year by clicking on the "Products by Year Model" tab. Then refine your results using the filters shown on the left side of the screen, such as year, model, product description, etc.

Once you find the part that you are looking for, click on the blue link to review the product page for that part. On this page, you will find helpful resources such as a picture (if it is available in Newmar's online part's catalog), the product description and features, as well as relevant files, links, and knowledge articles, for all of the documentation provided by Newmar and the part's manufacturer or supplier.

What if I can't find what I'm looking for?

Now that you know how to navigate, feel free to explore! Forget Google, and surf Newgle to answer your coach-related questions!

Just like the RV industry, our site is always growing, changing, and improving. Our dedicated, full-time Newgle staff is working diligently to provide you with access to more model- and year-specific information directly from the manufacturers as quickly as we can. Help us prioritize our efforts!

If you have suggestions for a better user experience, or if you are unable to locate the information you need, feel free to contact us:

- Email the Newgle team: newgle@newmarcorp.com
- Email the Customer Service team: customerservice@newmarcorp.com
- Call to speak to a Customer Service Brand Specialist: 1-800-731-8300 (select the appropriate menu option).

Newgle Registration and Login Assistance

This article provides information about registration and login assistance for Newgle, Newmar's online knowledgebase.

How Do I Register for Newgle?

Visit Newgle at https://newgle.newmarcorp.com to register for an account.

Any technical information published in Newgle is only intended for use by qualified, Newmar-authorized service technicians. Newmar is not responsible for misuse of this information.

Customer Accounts

If you currently own a Newmar coach, click the link associated with an owner account, "Coach Owner Account Request." You will be asked to provide your coach information and some basic contact information, allowing the Newgle Team to verify ownership and set up an account just for you!

Once your account has been created, you will receive a verification email, which will include your new username and a link to create a password. The email address you provide when registering for an account will be used as your username, as well as for all Newgle-related communication, including account credentials, password resets, or any special updates from the Newgle team.

MPORTANT

This link is only valid one time. Please use the direct URL - <u>https://newgle.newmarcorp.com</u> - for future access to the site.



REGISTER FOR A NEW ACCOUNT Select the appropriate account type below! You will receive your account credentials via email as soon as your registration has been processed • Coach Owner Account Request • Deater / Service Center Account Request

Notice:

Your account may be deactivated after 12 months of inactivity. If you do not receive an email after initiating a password reset, or if you purchase a different coach, please re-register using the link above to reactivate your account.

INTRODUCTION

If you already have a Newgle account but have since purchased a different coach, please request a new account to ensure that we have the most up-todate information in our system. Your login credentials may or may not change pending the newly provided email address.

Logout

Click the user profile icon in the upper right corner; then select "Logout" from the down-down menu to end your Newgle session quickly with the click of a button.

Having Trouble Logging In?

After three failed login attempts, your account will become locked for 15 minutes. Wait 15 minutes, and try to login again. If you forget or lose your password, or if it is no longer working, you can reset it from the login screen.

Click on the "Forgot Your Password?" link, and enter your username (the email address you used when registering for your account), then click or tap "Continue." You should receive an email with a link to reset your password. Remember, this link is only valid one time. Please use the direct URL - <u>https://newgle.newmarcorp.com</u> -for future access to the site.

0

If you do not receive an email, it may be necessary to re-register for an account. Rather than entering your username and password, click the "Coach Owner Account Request" and complete the registration form. Once it is submitted, your account will be re-activated and a password reset link will be sent to the email address used when registering.

MPORTANT

Your Newgle account may be deactivated after twelve months of inactivity. Log in to the site often to avoid account deactivation. You may not be notified prior to deactivation.

NEWGLE

Change Your Password

B charac
1 letter
1 numbris

Welcome to Newgle Intex x

avmar Corporation

to Newgle! To get started, go to http:

PLEASE NOTE. This link is only valid 1 (one) time. For all future visits, please use the direct url or availe newmarcore.com without any additional characters after the ".com".

me demo@newmarcorp.com

N

IMPORTANT

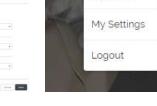
You will be asked to change your password every 180 days to ensure the highest level of security available. A new password cannot match any of the previously-used three passwords. When prompted, follow the onscreen instructions to create a new password that meets all of the requirements.

If you have any questions regarding your account, please email the Newgle Team at newgle@newmarcorp.com.

How to Locate a Coach Page in Newgle

This article provides instructions on how to locate a "Coach Page" in Newgle. These pages often include files (diagrams/schematics, owner's guides, brochures, etc.), links, and knowledge articles in Newgle, which may be relative to a coach's year and model and may even be specific to a particular floorplan or option.

Newgle is an ever-changing knowledgebase. The Newgle Team strives to introduce new features and content regularly to improve the site. The included screenshots and navigational instructions may change without notice. Always refer to Newgle for the most up-to-date version of this content.



democustomer

Home

My Profile



Forgot Your Password

	ter your username.
lsername	
Cancel	Continue

INTRODUCTION

Navigating to a Coach Page

From the Newgle home page, click on the search bar.

Type in the coach production year, model abbreviation, and floorplan (separated by spaces). Coach pages may start displaying as "search recommendations," allowing you to select the relevant floorplan from the drop-down list.

- Example: 2023 NADP 3547
- If you are unsure of your model abbreviation, refer to the "How Do I Find My Coach model Abbreviation for Filtering" article in Newgle.

What Will I Find on a Coach Page?

Once on the coach page for the model, year, and floorplan of your choosing, you will have access to coach features and a copy of the owner support sticker, as well as any relevant files, links, and articles. The amount of content will vary by coach year and model.

IMPORTANT

The layout and location of components on this screen may vary due to device and/or screen size (desktop/laptop computer, tablet, or smartphone).

Relevant Files

Depending on the device used to access Newgle, the Files section may appear on the side or bottom of the screen or in a "Related" tab. The type of documentation located in the Files section will vary, but may include:

- Newmar's Original Coach Brochure, Owner's Guide, and Sales Data
- Newmar Diagrams and Schematics (A/V, Electrical, Plumbing, etc.)
- · Chassis Manufacturer Manuals, Brochures, Specs, and/or Diagrams

Relevant Links

Depending on the device used to access Newgle, the Links section may appear on the side or bottom of the screen or in a "Related" tab. Depending on the year and model of the coach, you may have access to web links such as:

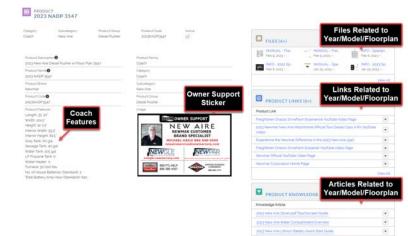
- Chassis Manufacturer Content (Brochures, Specs, Manuals, Contact Info, Videos, etc.)
- Newmar Sales Documentation (Brochures, Videos, Product Specs, etc.)
- Coach CPU Walkthroughs (Year/Model Specific when available)

Product Knowledge Associations

Depending on the device used to access Newgle, the Articles section may appear on the side or bottom of the screen or in a "Related" tab. Some Newgle knowledge articles are written to correspond with a particular coach model and year, so they may appear on the related coach pages.

🛦 IMPORTANT

Newer coaches may have more documentation available than previous model years due to the availability of data. Some coach years/models may have limited documentation available.



SAFETY

This chapter provides information about Newmar's compliance requirements, placards and labels, and driving safety. It also includes details about emergency exits and installed safety components (smoke, propane, and carbon monoxide detectors).

MPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

Safety Resources and Compliance Requirements

This article provides information about Newmar's safety and compliance requirements.

Resource(s)

- <u>Recreation Vehicle Safety and Education Foundation (RVSEF)</u>
- Transport Canada (TC)
- <u>National Highway Traffic Safety Administration (NHTSA)</u>

MIMPORTANT

If you believe that your vehicle has a significant defect which could cause a crash or could cause injury or death, inform the National Highway Traffic Safety Administration (NHTSA) or Transport Canada (TC), and Newmar Corporation immediately.

Compliance Requirements

Newmar motorhomes meet or exceed compliance for the following agencies:

Canada

- <u>Canada Motor Vehicle Safety Standards (CMVSS)</u>
- **QAI Laboratories** is Newmar's listing agent

Contacting Transport Canada

Mailing Address / Adresse postale	Phone / Téléphone	Online / Internet
Transport Canada - ASFAD 330 Sparks Street Ottawa, ON K1A 0N5	819-994-3328 (Ottawa - Gatineau area or internationally) 800-333-0510 (Toll free)	http://www.tc.gc.ca/recalls
Transports Canada -ASFAD 330, rue Sparks Ottawa (Ontario) K1A 0N5	819-994-3328 (dans la région de Ottawa-Gatineau et à l'extérieur du pays) Sans frais: 1-800-333-0510 (au Canada)	http://www.tc.gc.ca/rappels

United States

- Federal Motor Vehicle Safety Standards (FMVSS)
- Nebraska and Washington State Seals
- <u>National Fire Protection Association</u> (NFPA) 1192 through <u>Recreation Vehicle Industry Association</u> (RVIA)
- <u>National Fire Protection Association</u> (NFPA) 70 National Electrical Code
- Ford Qualified Vehicle Modifiers (QVM) (Ford Chassis Only)
- <u>Carb Compliant</u> Phase 2

Contacting National Highway Traffic Safety Administration (NHTSA)

Mailing Address	Phone	Online
	800-424-9153 (Hearing-Impaired) 888-327-4236 (Toll free)	https://www.nhtsa.gov/recalls

Placards and Labels

A variety of placards and labels are located throughout your coach. These are installed to aid in the operation of a component, provide coach-specific information, or to warn of potential dangers while operating a specific appliance, accessory, or system.

IMPORTANT

Reading, understanding, and heeding all such labels and placards is critical to the safe, efficient use of your coach. These labels should not be removed for any reason.

Before Driving Away

This article provides a brief list of procedures that will aid in your driving safety and extend the life of your coach.

A WARNING

Prior to driving your vehicle, be sure you have read your entire owner's guide and that you understand your vehicle's equipment completely. Read and understand all of the instructions and precautions in this owner's guide and the chassis manufacturer owner's manual before operating your new coach.

Listed below are some safety precautions that must be adhered to while your coach is in motion. These precautions, as well as others that involve possible damage to equipment, are also listed in the appropriate areas in this manual.

There are various adjustments that need to be made prior to starting and moving the vehicle. Among them are the driver's seat, the tilt steering, and the exterior side view mirrors, as well as checking the rear view monitoring system. In addition, the following procedures will aid in your driving safety and extend your equipment's life.

- Windows, mirrors, and light lenses are to be clean and unobstructed.
- Tires should be checked for proper cold inflation pressure.
- Wheel lug nuts should be checked for proper tightness.
- Fluid levels, including engine oil, transmission fluid, coolant, power steering fluid, brake fluid, and windshield washer solvent, should be checked and filled, if necessary.
- Disconnect the unit. Store the sewer and water supply hoses, as well as shoreline power cords.
- Secure all cargo in the storage compartments in the event of a sudden stop.
- Verify that the step has retracted prior to engine ignition and/or travel.
- Know the overall height of your coach to avoid overhead damage from low clearance bridges, overpasses, awnings, etc.

Dangerous Driving Conditions and Severe Weather Safety

This article provides safety tips to follow in the event of poor weather conditions.

Always Stay Informed

Avoid weather-related surprises by checking the forecast each day.

- If severe weather is a possibility, check a local weather website or phone application frequently for updates in your area. The National Weather Service (<u>https://www.weather.gov/</u>) is a great resource to check local forecasts. It may also be a wise decision to invest in a weather radio to receive up-to-date forecasts directly from the NWS.
- Know where you are at all times. Knowing which county you are in will help you know what is coming and when.
- For any extended stays, find out where the storm warning systems and alarms are located. It may also be helpful to know the days and times when these are typically tested to avoid any unnecessary concern.

Prepare Ahead of Time

If poor weather is in the forecast, preparing ahead of time can save you a lot of hassle.

- Check the function of your windshield wipers, brake lights, and headlights. Make sure you have plenty of fuel and that your tire pressure is correct to avoid hydroplaning.
- In the event of snow, freezing rain, or ice, make sure your coach is properly winterized. If you do not have to travel, wait until the roads are clear before proceeding to your next stop.

WARNING

The cruise control is not to be operated on icy roads, extremely wet roads, winding roads, heavy traffic, or in any other traffic situation where a constant speed cannot be maintained.

WARNING

While driving on slippery surfaces, use care when accelerating or decelerating. Skidding and loss of vehicle control may be the result of abrupt changes in speed.

- If parked, try to avoid surrounding trees or power lines. Secure all loose belongings that could blow away. Bring them inside the RV or store them securely in a basement compartment before a storm hits to prevent physical damage to you or the RV.
- Retract all awnings to prevent wind and water damage.
- Find out where local storm shelters are and have an evacuation plan in place.
- Pack an emergency bag of necessities (i.e. medical supplies, important documents, cell phone chargers, water, non-perishable food, etc.).

Take Cover

Your coach can protect you from most severe weather, but it is not always the safest option. If there is a threat (even a small one) of severe weather, plan indoor activities in a safe, sheltered place. Be prepared; have a plan in place; and use good judgment.

- If straight line winds or the threat of tornado(s) are in the forecast, leave the RV, and find a local storm shelter.
- If you are driving and severe weather or a tornado pops up, park the RV in a safe location (not under a bridge or overpass), lay down away from windows, and cover your head.
- In the event of heavy rain or floodwaters, do not attempt to drive through water that is crossing a road. TURN AROUND; DON'T DROWN.

A WARNING

Driving through water deep enough to wet the brakes may affect the stopping distance or cause the vehicle to pull to one side. If you have driven through deep water, check the brake operation in a safe area to be sure they have not been affected.

WARNING

Never operate a vehicle if a difference in braking efficiency is noticeable. Extreme terrain and adverse weather may affect the handling and/or performance of your vehicle.

Seat Belt Safety

This article provides information about the seat belts installed in the coach, including operation and care and maintenance instructions.

One of the most important safety features in your vehicle is the restraint system. Research has shown that seat belts save lives. And they can reduce the seriousness of injuries in a collision. Some of the worst injuries happen when people are thrown from the vehicle. Everyone in a motor vehicle needs to be buckled up at all times.

WARNING

It is extremely dangerous to ride in a cargo area, inside or outside of a vehicle. In a collision, people riding in these areas are more likely to be seriously injured or killed. Do not allow people to ride in any area of your vehicle that is not equipped with seats and seat belts. Be sure everyone in your vehicle is in a seat and is using a seat belt properly.

How to Operate Your Seat Belts and Restraint System

WARNING

If you wear your safety belt improperly, both the effectiveness and comfort will decrease.

Lap/Shoulder Combination Restraints

- 1. Enter the vehicle and close the door. Sit back, and adjust the seat.
- 2. The latch plate of the belt is above the back of your seat. Grasp the latch plate, and pull out the belt. Slide the latch plate up the webbing as far as necessary to make the belt go around your lap.
- 3. When the belt is long enough to fit, insert the latch plate into the buckle until you hear a "click."
- 4. Position the lap belt across your thigh, below your abdomen. If you need the lap portion tighter, pull up a bit on the shoulder part. A snug belt reduces the risk of sliding under the belt in a collision. Position the shoulder belt on your chest so that it is comfortable and not resting on your neck. The retractor will withdraw any slack in the belt.
- 5. To release the belt, push the release button on the buckle.

Some shoulder belts can be adjusted upward or downward to help position the belt away from your neck. Push on the anchorage cover to release it, and then move it up or down to the position that serves you best.

Lap Belt Restraints without a Shoulder Harness

WARNING

Always wear your seat belt when the vehicle is in operation.

- 1. Slide the latch up the webbing as far as necessary to make the belt go around your lap.
- 2. Insert the latch plate into the buckle until you hear a "click."
- 3. Adjust and position the belt low and snug across your hips by removing the slack from the belt.
- 4. To release the belt, push the release button on the buckle.

MIMPORTANT

Each belt is intended to restrain only one person at a time. Do not put two people under one belt.

A CAUTION

Never attempt to restrain a child in your lap using the lap belt around both you and the child. The child could be severely injured or killed in the event of a collision.

MPORTANT

Seat belts are matched sets. Do not mix or use this belt or parts of this belt with other types of seat belts.

MIMPORTANT

Everyone in your vehicle needs to be buckled up at all times. Every state in the United States and all Canadian provinces require that small children ride in proper restraint systems. This is the law, and you can be prosecuted for ignoring it.

There are different sizes and types of restraints for children from newborn to near-adult size children. Use the restraint that is correct for your child:

- The restraint must be appropriate for your child's weight and height. Check the label on the restraint for this, too.
- Carefully follow the instructions that come with the restraint. If you install the restraint improperly, it may not work when you need it.
- Buckle the child into the restraint exactly as the manufacturer's instructions have directed.

How to Maintain Your Seat Belts and Restraint System

Periodically examine your restraint equipment to be sure it functions correctly and to be sure there are no worn or broken components that either needs repair or replacement. Damaged parts must be replaced immediately. Do not disassemble or modify the system.

WARNING

A frayed or torn belt could rip apart in a collision and leave you with no protection. Inspect the belt system periodically, checking for cuts, frays, or loose parts. Damaged parts must be replaced immediately. Do not disassemble or modify the system. Seat belt assemblies must be replaced after an accident if they have been damaged (bent retractor, torn webbing, etc.)

Restraint equipment must be replaced after an accident if they have been damaged. If there is any question regarding belt or retractor condition, replace the belt. It is a good idea to have your restraint system inspected during each periodic scheduled maintenance session. If the belts need cleaning, use a mild soap solution or lukewarm water. Do not remove the belts from the vehicle to wash them.

WARNING

Do not bleach, dye or clean the belts with chemical solvents or abrasive cleaners. This may severely weaken the fabric. In a crash, they might not be able to provide adequate protection.

Fire Safety

This article provides information about the smoke detectors and fire extinguishers installed in the coach.

The possibility of fire exists in all areas of life, and the recreational lifestyle is no exception. Recreational vehicles are complex machines made up of many materials, some of which are flammable.

Like most hazards, the possibility of fire can be minimized, if not totally eliminated by recognizing the danger and practicing common sense safety and maintenance habits. For safety reasons, your unit is furnished with both a fire extinguisher and a smoke alarm.

DANGER

If a fire occurs in the vehicle, evacuate the vehicle as quickly and as safely as possible. Consider the cause and the severity of the fire and the risk involved before trying to extinguish it. If the fire is major or fuel fed, move away from and stand clear of the vehicle and wait for emergency assistance to arrive.

Portable fuel-burning equipment, including wood and charcoal grills and stoves, shall not be used inside the coach, as they can cause fire or asphyxiation. Failure to comply could result in serious injury or death.

Smoke Detectors

The smoke detector installed in your coach is operated on a 9 volt battery. The smoke detector is mounted on the ceiling in the living area of the unit.

Read the operating instructions for details on the testing and care for this important safety device.

WARNING

Test the smoke detector after the unit has been in storage, before each trip, and at least once a week during use. Failure to do so can result in death or serious injury.

Check your smoke detector for the manufacturer's expiration date. The battery needs to be tested periodically and replaced once a year and/or when the low battery signal sounds.

When cleaning the case on any of the detectors, use a damp cloth or paper towel. Do not spray cleaners or wax directly into the case as it may cause false alarms.

A WARNING

Test smoke alarm operation after vehicle has been in storage, before each trip, and at least once per week during use. Failure to do so can result in death or serious injury.



Vérifier l'avertisseur de fumée si le véhicule a été entreposé, avant chaque déplacement et au moins une fois par semaine en service. L'absence de vérification peut entraîner des blessures graves ou la mort.

MIMPORTANT

The detector should never be disabled because of nuisance or false alarm from cooking smoke or a dusty furnace. Ventilate the unit with fresh air and the alarm will shut off. Never disconnect or remove the battery from the smoke alarm.

Fire Extinguishers

The fire extinguisher is rated for Class B (grease, gasoline, diesel fuel, flammable liquids) and Class C (electrical) fires. These are the most common types of fires in vehicles. Fire extinguishers are mechanical, pressurized devices. Care must be exercised when they are handled.

The extinguisher should be inspected at least once a month. More frequent inspections may be required if the extinguisher is exposed to the weather or to possible tampering. Do not test the extinguisher by partially discharging, as it will cause a loss of pressure. Your fire extinguisher must be maintained as the operator's manual instructs for proper and safe operation.

Read the operator's manual and the instructions on the fire extinguisher. Be sure to know how and when to use the extinguisher and where it is located.

DANGER

Failure to comply could result in an increased risk of fire, explosion, asphyxiation, serious injury, or death.

BRK Smoke Detector Quick Start (Model: FG250RV)

This article provides basic operation instructions for a BRK smoke detector (Model: FG250RV).

If the Smoke Alarm Sounds

During an alarm, you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause; and the Red LED will flash rapidly.

WARNING

If the unit alarms and you are not testing the unit, it is warning you of a potentially dangerous situation that requires your immediate attention. NEVER ignore any alarm. Ignoring the alarm may result in injury or death.

WARNING

Never remove the batteries from a battery operated Smoke Alarm to stop an unwanted alarm (caused by cooking smoke, etc.). Removing batteries disables the alarm so it cannot sense smoke, and removes your protection. Instead open a window or fan the smoke away from the unit. The alarm will reset automatically.

If the unit alarms get everyone out of the house immediately.

Weekly Testing

It is important to test this unit every week to make sure it is working properly. Using the test button is the recommended way to test this Smoke Alarm. Press and hold the test button on the cover of the unit until the alarm sounds (the unit may continue to alarm for a few seconds after you release the button). If it does not alarm, make sure the unit is receiving power and test it again. If it still does not alarm, replace it immediately. During testing you will hear a loud, repeating horn pattern: 3 beeps, pause, 3 beeps, pause; and the Red LED will flash rapidly.

WARNING

Never use an open flame of any kind to test this unit. You might accidentally damage or set fire to the unit or to your home. The built-in test switch accurately tests the unit's operation as required by Underwriters Laboratories, Inc. (UL).

A WARNING

If the alarm ever fails to test properly, replace it immediately.

A CAUTION

Do not stand close to the alarm when the horn is sounding. Exposure at close range may be harmful to your hearing. When testing, step away when horn starts sounding.

Regular Maintenance

This unit has been designed to be as maintenance free as possible, but there are a few simple things you must do to keep it working properly.

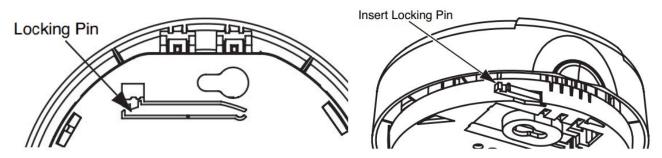
- Test it at least once a week.
- Clean the Smoke Alarm at least once a month; gently vacuum the outside of the Smoke Alarm using your household vacuum's soft brush attachment. Test the Smoke Alarm. Never use water, cleaners or solvents since they may damage the unit.
- If the Smoke Alarm becomes contaminated by excessive dirt, dust and/or grime, and cannot be cleaned to avoid unwanted alarms, replace the unit immediately.
- Relocate the unit if it sounds frequent unwanted alarms. See "Locations to Avoid for Smoke Alarms" for details.
- When the battery becomes weak, the Smoke Alarm unit will "chirp" about once a minute (the low battery warning). This low battery warning should last 7 days, but you should replace the battery immediately to continue your protection. Note: If locking pin is engaged see "Locking Feature" section for unlocking instructions.

Replacing the Battery

Your Smoke Alarm requires one standard 9V battery. The following batteries are acceptable as replacements: Duracell #MN1604, Eveready (Energizer) #522. You may also use a Lithium battery like the Ultralife U9VL-J, U9VL-J-P for longer service life between battery changes. These batteries are available at many local retail stores.

To lock/unlock the cover to the base:

- 1. Using needle-nose pliers or a utility knife, detach locking pin from back of alarm base.
- 2. Insert locking pin into the slot located on the front of the alarm as shown in the diagram.
- 3. Remove pin to unlock and replace battery.



Source(s): BRK Battery Powered Smoke Alarm User's Manual Product(s): BRK Electronics Smoke Detector (<u>Model: FG250RV, Newmar Part Number: 119606</u>)

Kidde 10 lbs. Fire Extinguisher UL Quick Start (Model: K2D82-110AC)

This article provides basic operation instructions for a Kidde fire extinguisher.

How to Use Fire Extinguishers

Stand 5 feet away from the fire and follow the four-step PASS procedure recommended by the National Fire Protection Association:

- P Pull the pin and hold the extinguisher with the nozzle pointing away from you.
- A Aim low at the base of the fire.
- S Squeeze the lever slowly and evenly to discharge the extinguishing agent. When the agent first hits the fire, the fire may briefly flare up. This should be expected.
- S Sweep the nozzle from side to side, moving carefully toward the fire. Keep the extinguisher aimed at the base of the fire.



When to Use Fire Extinguishers

It's important to remember that fire extinguishers are only one element of a complete fire survival plan. Only use your extinguisher after making sure:

- All residents of the home have been evacuated to safety
- The fire department has been notified
- There is a clear exit behind the person using the extinguisher

Use your extinguisher only to keep a small self-contained fire from growing, only when the room is not filled with smoke, or to create a safe pathway out of the home. Be sure to read the instructions and become familiar with your fire extinguisher's parts and operation before a fire breaks out.

Source(s): Kidde Fire Extinguisher Owner's Manual

Carbon Monoxide Safety

This articles provides information about the safe use of carbon monoxide-producing coach components.

Carbon Monoxide Poisoning

Carbon monoxide is a colorless, tasteless, odorless gas. It is a by-product of the burning of fossil fuels (gasoline, propane gas, diesel fuel, etc.). The chassis and generator engines, furnaces, water heater, propane gas refrigerator, and range produce carbon monoxide constantly while they are operating.

DANGER

Carbon monoxide is deadly. Read and understand the following precautions, as well as any warning labels in your coach, to protect yourself and others from the effects of carbon monoxide poisoning.

A DANGER

Vehicles and equipment powered by internal combustion engines and placed in recreational vehicles can cause carbon monoxide poisoning or asphyxiation, which could result in death or serious injury. The flammable liquids used to power these items can cause a fire or explosion, which can result in death or serious injury.

To reduce risk:

- 1. Do not ride in the vehicle storage area when vehicles are present.
- 2. Do not sleep in the vehicle storage area when vehicles are present.
- 3. Close doors and windows in walls of separation (if installed) when any vehicle is present.
- 4. Run fuel out of engines of stored vehicles after shutting off fuel at the tank.
- 5. Do not store, transport, or dispense fuel inside this vehicle.
- 6. Open the windows, openings, or air ventilation systems provided for venting the transportation area when vehicles are present.
- 7. Do not operate propane appliances, pilot lights, or electrical equipment when motorized vehicles are present.

If you, or anyone else, experience any of the following carbon monoxide poisoning symptoms, exit the coach immediately. Seek medical attention if the symptoms persist. Shut down the coach, and do not operate it until it has been thoroughly inspected and repaired. Symptoms include dizziness, nausea, vomiting, muscular twitching, throbbing in the temples, inability to think coherently, weakness and/or sleepiness, and/or Intense headaches.

A WARNING

Do not block the tailpipes or exhaust ports. Do not situate the vehicle in a place where the exhaust gases have any possibility of accumulating either outside, underneath, or inside your vehicle or any nearby vehicles. Outside air movements can carry exhaust gases inside the vehicle through windows or other openings remote from the exhaust outlet. Operate engines, carbon monoxide-producing systems, or components only when safe dispersion of exhaust gases can be assured. Monitor outside conditions to be sure that exhaust continues to be dispersed safely.

Carbon Monoxide (CO) Detectors

The detector is equipped with a "sensor activation strip," which must be removed for the detector to operate properly. This should have been done during the dealer's Pre-Delivery Inspection. Please check the detector to verify that the activation strip has been removed. The CO detectors are self-contained and do not require any maintenance other than normal cleaning and dusting.

Install battery or batteries into the battery holder, and observe the polarity. After approximately 30 seconds, the battery-operated detector will begin monitoring for carbon monoxide, making the device operational. The test/reset button is used to test the detector's electronics and reset the detector after an alarm. Test the detector weekly.

WARNING

Under no circumstance should you operate any engine while sleeping. When you are sleeping, you are not able to monitor outside conditions to ensure that engine exhaust does not enter the coach. Check the exhaust system frequently for damage. If damage is found, do not operate the system. Never modify the exhaust system(s) in any way.

BRK First Alert Carbon Monoxide Alarm Quick Start (Model: CO250RVA)

This article provides basic operation instructions for a BRK (First Alert) carbon monoxide alarm (Model: CO250RVA).

How Your CO Alarm Works

A CO Alarm measures the CO levels in the air. It will alarm if CO levels rise quickly (if the heat exchanger on your furnace breaks, for example), of if CO is consistently present (a slow CO leak on a fuel-burning appliance).

This Carbon Monoxide alarm features a permanently installed sensor and an 85 dB alarm horn. It also has a silence feature to temporarily quiet the alarm horn.



Understanding Your CO Alarm

Welcome Chirp	Horn chirps and light blinks once when batteries are first connected.	
Alarm Receiving Battery Power	Light flashes every minute. Horn is silent.	
Low Battery Warning	The light continues to flash (RED) and the horn also "chirps" once every minute. This warning should last for up to 30 days, but you should replace the batteries as soon as possible.	
During Testing	Light flashes RED with the horn pattern (4 beeps, pause, 4 beeps), simulating a CO Alarm condition.	
CO Alarm	Sensor has detected enough CO to trigger an alarm. Light flashes rapidly and horn sounds loudly (repeating 4 beeps, pause). During an alarm, move everyone to a source of fresh air. DO NOT move the CO Alarm!	
CO Alarm Requires Service (Malfunction Signal)	The light flashes (RED) and the horn sounds 3 "chirps" every minute. CO Alarm needs to be replaced.	
CO Alarm Has Reached End of Life	The light flashes (RED) and the horn sounds 3 "chirps" every minute. CO Alarm needs to be replaced.	

If the CO Alarm Sounds

A WARNING

Actuation of your CO Alarm indicates the presence of carbon monoxide (CO) which can kill you. In other words, when your CO Alarm sounds, you must not ignore it!

If the Alarm Signal Sounds

- 1. If you hear the alarm horn and the Red light is flashing, move everyone to a source of fresh air. DO NOT disconnect the battery from the CO Alarm! Do a head count to check that all persons are accounted for. Do not re-enter the premises, or move away from the open door or window until the emergency services responder has arrived, the premises have been aired out, and your CO Alarm remains in its normal condition.
- 2. Call your emergency services, fire department or 911.
- After following steps 1-2, if your CO Alarm reactivates within a 24-hour period, repeat steps 1-2 and call a qualified appliance technician to investigate for sources of CO from fuel-burning equipment and appliances, and inspect for proper operation of this equipment. If problems are identified during this inspection have the equipment serviced immediately.

Using the Silence Feature

WARNING

The Silence Feature is for your convenience only and will not correct a CO problem. Always check your home for a potential problem after any alarm. Failure to do so can result in injury or death.

NEVER remove the batteries from your CO Alarm to silence the horn. Use the silence feature. Removing the batteries removes your protection!

The Silence Feature is intended to temporarily silence your CO Alarm's alarm horn while you correct the problem—it will not correct a CO problem. While the alarm is silenced it will continue to monitor the air for CO.

When CO reaches alarm levels the alarm will sound— repeating horn pattern: 4 beeps, a pause, 4 beeps, etc. Press and hold the Test/Silence button until the horn is silent. The initial Silence cycle will last approximately 4 minutes.

NOTE: After initial 4-minute Silence cycle, the CO Alarm re-evaluates present CO levels and responds accordingly. If CO levels remain potentially dangerous —or start rising higher—the horn will start sounding again.

When the detector is silenced:

- IF the CO alarm is silent for only 4 minutes, then starts sounding loudly 4 beeps, pause, 4 beeps, pause... THEN the CO levels are still potentially dangerous.
- IF the CO alarm remains silent after you pressed the Test/Silence button... THEN the CO levels are dropping.

Silencing the Low Battery Warning

This silence feature can temporarily quiet the low battery warning "chirp" for up to 8 hours. You can silence the low battery warning "chirp" by pressing the Test/Silence button. The horn will chirp, acknowledging that the low battery silence feature has been activated.

After 8 hours, the low battery "chirp" will resume. Replace the battery as soon as possible; this unit will not operate without battery power!

To deactivate this feature: Press the Test/Silence button again. The unit will go into Test Mode and the low battery warning will resume (LED flashes and unit sounds "chirp" once a minute.)

If you cannot silence the low battery warning, replace the battery immediately.

Silencing the End of Life Signal

This silence feature can temporarily quiet the End of Life warning "chirp" for up to 2 days. You can silence the End of Life warning "chirp" by pressing the Test/Silence button. The horn will chirp, acknowledging that the End of Life silence feature has been activated.

- After approximately 2 days, the End of Life "chirp" will resume.
- After approximately 2-3 weeks the End of Life warning cannot be silenced.

Testing and Maintenance

Weekly Testing

WARNING

Test the CO Alarm once a week. If the CO Alarm ever fails to test correctly, have it replaced immediately! If the CO Alarm is not working properly, it cannot alert you to a problem.

WARNING

Do NOT stand close to the Alarm when the horn is sounding. Exposure at close range may be harmful to your hearing. When testing, step away when horn starts sounding.

Push and hold the Test/Silence button on the cover until the LED flashes. The alarm horn will sound 4 beeps, a pause, then 4 beeps. Th ALARM (RED) light will flash.

The alarm sequence should last 5-6 seconds. If it does not alarm, make sure fresh batteries are correctly installed, and test it again. If the unit still does not alarm, replace it immediately.

If the alarm does not test properly:

- 1. Make sure the battery is installed correctly.
- 2. Be sure the Alarm is clean and dust-free.
- 3. Install a fresh 9V battery and test the Alarm again.

WARNING

DO NOT try fixing the Alarm yourself - this will void your warranty! Install a new CO Alarm immediately.

A WARNING

The Test/Silence button is the only proper way to test the CO Alarm. NEVER use vehicle exhaust! Exhaust may cause permanent damage and voids your warranty.

Regular Maintenance

To keep the CO Alarm in good working order:

- Test it every week using the Test/Silence button.
- Vacuum the CO Alarm cover once a month, using the soft brush attachment. Never use water, cleaners, or solvents, since these may damage the unit. Test the CO Alarm again after vacuuming.
- Replace the batteries when the CO Alarm "chirps" about every minute (the low battery warning). The low battery warning should last for 30 days, but you should replace the battery immediately to continue your protection.

Choosing a replacement battery:

This CO Alarm requires one 9V alkaline battery. The following batteries are acceptable as replacements: Alkaline Batteries — Duracell MN1604 or Energizer 522; Lithium Batteries — Ultralife U9VL-J. These replacement batteries are commonly available at local retail stores.

WARNING

Always use the exact batteries specified by this User's Manual. DO NOT use rechargeable batteries. For products requiring multiple batteries, replace all batteries of a set at the same time. Do Not Mix Old and New Batteries. Clean the battery contacts and also those of the device prior to battery installation. Install batteries correctly with regard to polarity (+ and -).

A WARNING

Please dispose of or recycle used batteries properly, following any local regulations. Consult your local waste management authority or recycling organization to find an electronics recycling facility in your area. DO NOT DISPOSE OF BATTERIES IN FIRE. BATTERIES MAY EXPLODE OR LEAK.

Source(s): BRK Battery Powered Carbon Monoxide Alarm (CO250RVA-48B) User's Manual Product(s): BRK Electronics Carbon Monoxide Alarm (Model: CO250RVA, Newmar Part Number: 125654)

EMERGENCY EXITS

Hehr/LCI Emergency Exit and Vent Window Operation

This article provides instructions for opening and closing Hehr/LCI emergency exit and vent windows.

Hehr/LCI Egress Emergency Exit Window

Select Hehr windows have an opening window pane in the egress window for ventilation. This style of window can also be opened in the event of an emergency.

To open the vent: Unclip and lower the arm. Swing the arm 90 degrees, and push out on the arm until the red handle latches.

To close the vent: Unclip the red handle from the latch by lifting slightly

while pushing outward. Once the latch releases, pull the arm in until the window is closed. Rotate the arm 90 degrees until it latches into the closed position.

In the event of an emergency, open the window: Remove the screen by pulling out on the red handle. Push and release the lever from the locking hook. Rotate the lever 90 degrees, and push it through the slot in the window frame. Escape through the opening.

Hehr/LCI Double-Latched Emergency Exit Window

To open the emergency exit double-latched window: Flip both latches up to the open position. Push out on the window.

To close the emergency exit double-latched window: Pull the window shut while holding the window track with one hand. With the other hand, rotate the latch up until it connects with the track on the window. Press the front side down until it latches. Repeat the steps for the second latch.

Fresco Manual Window Vent and Screen Operation

This article provides instructions for opening and closing Fresco window vents and screens.

To open the window: Pull on the red (emergency exit only) or black (non-emergency exit) handle to release the window. Slide the window open.

To exit: Once the window is open, pull the screen apart from the window vent.

To close the window: Slide the window to the closed position. Push firmly on the red or black latch to put the window in the closed and flush position.

Emergency Egress Exit Door and Ladder Operation

This article provides the Newmar-recommended step-by-step instructions for operating the emergency exit door and ladder.

The emergency egress exit door and ladder is a feature only installed on select coach models and floor plans.







To use the emergency egress exit door:

- 1. Unlock the deadbolt by turning it in the direction specified on the label.
- 2. Make sure the door latch is unlocked.
- 3. Unlatch and completely open the door to avoid coach damage during ladder extension.
- 4. Grab and pull the tab to remove the ladder cover, and set it aside.
- 5. Grab and pull the tab on the Velcro strap to release the ladder.
- 6. Flip the ladder out, allowing it to extend to the ground.

To close the emergency exit door:

- 1. Lift the ladder from the bottom, stacking the rungs and pushing the ladder up into the door cavity.
- 2. Secure it in place with the Velcro strap.
- 3. Reinstall the ladder cover.
- 4. Close and latch the door.
- 5. Lock the door latch by sliding it into the locked position.
- 6. Lock the deadbolt by turning it in the direction specified on the label.





This page is intentionally blank.

APPLIANCES

This chapter provides information regarding each appliance available for your coach model and year, including cooktops and ranges, dishwashers, fireplaces, microwaves and convection ovens, refrigerators and freezers, central vacuum systems, and washers and dryers.

MIMPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

Before Scheduling Service Work for Your Appliance

This article provides helpful tips to follow prior to scheduling service work for your coach appliances.

MPORTANT

Most appliance manufacturers (i.e. Whirlpool, GE, Maytag, Samsung, Fisher Paykel) require that service work performed on their appliances be completed by one of their own authorized service technicians. However, most appliance service technicians will not remove any appliance from its secured location if it is installed inside an RV. Instead, most require the appliance to be removed from its secured location prior to completing any service work.



Complete the following steps prior to scheduling any appliance servicing, repairs, or replacement, as this requires the coordination of multiple parties to complete the repair.

It is recommended that you contact the appliance manufacturer right away so they can note the account/issue. They may also assist with locating an authorized service technician near your location.

To service an appliance in your coach, select one of the following options:

Option 1

- 1. Take the coach to your dealer, who can coordinate an appointment with a local manufacturer-specific appliance service technician to come on-site to make the repair.
- 2. In the meantime, one of the dealer technicians will remove the appliance from its mounted position so that the manufacturer-specific technician can service it.
- 3. Once repairs are complete on the appliance, the dealer technician will reinstall the appliance in its mounted position.

Option 2

- 1. Set an appointment with a local manufacturer-specific service technician.
- 2. Contact a local mobile technician to come to your location to remove the appliance prior to the appointment with a manufacturer-specific appliance technician.
- 3. Once the mobile technician has removed the appliance, the manufacturer-specific technician can then service the appliance.
- 4. After repairs are made, contact the mobile technician to come back to the coach and reinstall the appliance.

Option 3

- 1. Set an appointment with a local manufacturer-specific appliance service technician.
- 2. Remove your own appliance from its mounted position. Some instructions may be obtained on Newgle or by contacting Newmar Customer Service at 1-800-731-8300 (select the appropriate menu option).
- 3. Once the manufacturer-specific technician has serviced the appliance, reinstall it by reversing the procedure for removing it from its mounted position.

COOKTOPS AND RANGES

Single or Double Solid Surface Cooktop Cover Overview

This article provides an overview of the solid surface cover for the range or cooktop. This cover may be made up of one or two solid surface pieces.

Your range may be equipped with a solid surface cover that matches your countertop material. This cover helps to protect the burners when they are not in use. Before cooking on the range top, the cover must be removed and stored during cooking. Some coaches with an induction cooktop may have a solid surface cover with a built-in cutting board.

MPORTANT

Never close the cover while the burners are in use. Never use the range while the RV is moving and remember to reinstall the solid surface cover when the range top is cool and not in use.

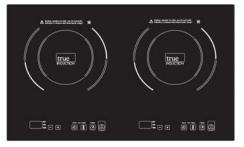


True Induction 2-Burner Induction Cooktop Quick Start (Model: TI-2B / S2F3)

This article provides basic operation instructions for a True Induction 2-Burner Induction Cooktop (Model: TI-2B / S2F3).

Overview

The counter inset model of the Double Burner Induction Cooktop is not only energy efficient and safe. It also features a sleek glass-ceramic top that fits directly into your counter, maximizing the amount of space that you have to work with. Space is important, especially in an RV. You don't have to worry about losing counter space or storage because the cooktop is nothing more than a flat surface.



Induction cooktops require pots and pans that are made of ferrous (meaning magnetic) materials. The following are not compatible: heat-resistant glass, ceramic, copper, aluminum pan/pots, round-bottomed cookware, or cookware with a base less than 4.5 inches.

How to Use

Unlike standard stove tops that generate and displace heat in a way that wastes energy and runs the risk of causing injury or being a fire hazard, the counter inset induction cooktop generates heat through a magnetic circuit that connects with ferromagnetic cookware, allowing the heat to be generated by the pot or pan being used. The True Induction cooktop is also easy to use.

1. Plug the power plug into a standard outlet.

- 2. The Power button will light up and the unit will sound to indicate on.
- 3. The device will remain in standby mode, awaiting user direction.
- 4. Place ferromagnetic cookware (with water, oil or food already inside) on the center of the glass-ceramic top center.
- 5. Now press the Power button on the control panel, this will turn the cooktop on. The power display will blink and sound another indicator.
- 6. Press the Heat function key once. The pre-set power level "5" is the default selection as the device turns on.
- 7. Using the +/ keys you can change the settings at any time, ranging from 1-10. This is considered to be the HEAT function.

CAUTION

Do not place induction cookware on the cooktop burner until operation of cooktop is desired.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

Power Invariance Technology

The maximum power of an individual burner level is at setting 10. But, when operating both burners their combined total is level 10 (newer cooktops may have a combined total of a level 14), meaning that when operating the two burners at the same time they'll self adjust levels accordingly:

- When you increase the power of one side, the power output of the other side will reduce automatically.
 - Older cooktops: If one side is at 6, the other burner automatically reduces power to level 4 creating a total of max 10 setting.
 - Newer cooktops: If one side is at 6, the other burner automatically reduces power to level 8 creating a total of max 14 setting.
- If one side of the double burner is using the HEAT function and the other side uses the TEMP settings, the maximum HEAT setting is "5." Newer cooktops may have a maximum heat setting of "9."

Using the Temperature Setting

Using the +/ - keys you can change the temperature settings at any time. Settings range from 150-450 degrees Fahrenheit. (Exact temperatures: 150, 180, 210, 240, 270, 300, 330, 360, 390, 420 and 450 F).

Using the Timer Function

- After selecting the HEAT or TEMP mode, press the TIMER button once. The display will show the number "0." Using the +/ - keys you can select the operating time in 5-minute intervals (up to max 150 min.) and reducing 1 minute.
- The display will count down the duration in minutes. Once the time is up, the unit sounds and automatically goes into standby mode. To continue cooking, press the Power button and Heat button to restart.
- During the timer operation, you can change the timer duration at any time with the arrow keys. The device's built-in memory maintains the HEAT or TEMP setting previously entered.
- You can also change the HEAT or TEMP settings without affecting the current timer setting.

Built-In Safety Shut Off

- The True Induction cooktop is designed to automatically shut off after 150 minutes of use. This built-in auto shut off is a safety feature.
- This function occurs for both the HEAT and TEMP settings. The panel displays EE code and sounds indicating this auto-off setting.
- In the event your food requires further cooking, the unit can easily be turned back on and re-set to the desired setting

Turning Off Unit

- When you are finished cooking, simply press the Power button to turn off the machine.
- Upon completion of cooking, the fan may remain on until the unit is cool.

The power light indicators turn on and the unit will immediately begin heating if proper ferromagnetic cookware is used. There are two main heat settings, a quick touch level selection featuring settings 1-10 and an exact temperature setting ranging from 150 to 450 degrees Fahrenheit. The default heat setting is level 5 and the settings can be adjusted by pressing the "+/-" key to achieve the desired heat. The default temperature setting is 270 degrees Fahrenheit and the temperature can be adjusted in 30-degree increments.

Source(s): True Induction Double Burner TI-2B Counter Inset Induction Cooktop Manual Product(s): True Induction 1800w 2-Burner Induction Black Landscape Electric Cooktop (<u>Model: TI-2B (S2F3), Newmar Part Number: 145601</u>) or True Induction 1800w 2-Burner Induction Black Landscape Electric Cooktop (<u>Model: TI-2B, Newmar Part Number: 124108</u>)

DISHWASHERS

Fisher Paykel Single DishDrawer Dishwasher Quick Start (Model: DD24SAX9)

This article provides basic operation instructions for a Fisher Paykel Single DishDrawer Dishwasher (Model: DD24SAX9).

Operating Instructions - Starting a Wash

- 1. Discard scraps. Scrape large food particles off (e.g. bones, fruit stones) and remove any foreign objects (e.g. toothpicks, strings, paper).
- 2. Load dishes carefully. To help with wash performance, arrange dishes so they are evenly spaced and not nesting. (Accommodates plates up to a max height of 280mm (11") for standard tubs or 310mm (12 1/4") for tall tubs.)
- 3. Check spray arm(s) are mounted correctly and can rotate fully around. Check the spray arm is mounted correctly by physically rotating it around with your hand. Before a wash, ensure there are no items blocking the spray arm(s) from rotating.
- 4. Add detergent. Fill the detergent dispenser with powdered detergent and close the dispenser door. If using a tablet or gel pouch, place it in the cutlery basket or at the edge of the base rack.

MIMPORTANT

Do not place liquid detergent or tablets in the detergent dispenser.

- 5. Check rinse aid. If the indicator on its plug glows bright red, refill the rinse aid dispenser with liquid rinse aid. Make sure you then refit the rinse aid plug back into its original position, by rotating the plug back into an upright position.
- 6. Select wash. Power the dishwasher on then select wash program.
- 7. Start wash or set Delay start. Ensure drawer is closed.
 - 1. To start wash: Press the Start/Pause button.
 - 2. To set delay start: Press and hold the Start/Pause button to enter delay start, then press and hold the Start/Pause button again to increase the delay start time.

Adding Detergent

Powdered Dishwasher Detergent

- 1. Press the latch down to open the dispenser.
- Check that the dispenser is empty and dry, then add detergent (do not place solid or liquid tablets in the dispenser). No detergent is needed for the Rinse program.
- Close the dispenser until it clicks shut. The detergent will automatically be released into the drawer during the wash program.

NOTICE

When washing heavily soiled dishes and in very hard water, you may also fill the secondary dispenser with detergent to aid dishwasher performance.

Pouch Packs of Gel or Powder or Solid Dishwasher Tablets

Place on tablet tray in the cutlery basket. If the cutlery basket is not being used for a particular load, wedge pack between the racking on the side.

IMPORTANT

Don't place the pack or tablet on the floor of the drawer, as it may interfere with the spray arm rotation and affect wash performance.

Notes on using tablets:

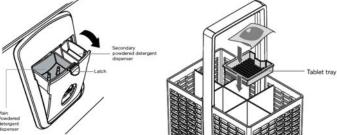
- If you are using tablets, follow manufacturer instructions on the packet. Some tablets may not be suitable for all wash programs.
- Using tablets could improve wash performance in hard water areas.
- Make sure that tablets never get in direct contact with dishes or cutlery.
- If you are using dishwasher tablets with a built-in rinse aid component, we recommend turning off the rinse aid.

MPORTANT

Dishwasher detergents are strongly alkaline. They can be extremely dangerous if swallowed. Avoid contact with the skin and eyes and keep children and infirm persons away from the dishwasher when it is open. Check that the powdered detergent dispenser is empty after completion of the wash program.

Unsuitable Detergents

These types of detergent are not suitable and may damage your dishwasher and lead to a service call that is not covered by warranty.



IMPORTANT

Do NOT use these in your dishwasher: liquid detergents, laundry detergents, hand washing liquids, soaps, disinfectants.

How Much Detergent to Use

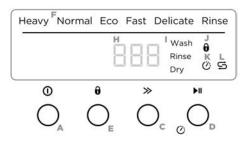
For powdered detergent... follow the quantities relevant to your location and water hardness level. Use the markings to help you measure the correct quantities. For other types of detergent, follow the manufacturer's recommendations.

Controls and Indicators

(A) Off/On: Press the Power button to turn the dishdrawer on or off. Opening the drawer will automatically turn the dishwasher on.

(C) Wash Program Selector: Press the Fast Forward button to scroll through wash program options.

(D) Start / Delay Start: Press the Play/Pause button to start the wash. To pause: Press the Play/Pause button again. The wash stage indicator will flash.



Wait for the 3 short and one long tone before opening the drawer. Forcing it open mid-cycle may cause damage or injury. If the drawer is not restarted within 7 minutes, it will tone intermittently until it is restarted.

- To Delay Start: Press and hold until the Play/Pause button until the "1h" appears on the display, then release. You are now in Delay start mode. Press the Play/Pause button until the display shows the number of hours you want to delay the start of a wash by (1 to 12 hours). Note: If you scroll past 12 hours, the dishwasher will exit Delay start mode. To re-enter delay start, go back to the previous step. The wash will start once the delay time is over, provided the drawer is closed. If the drawer is opened after delay start has been set (for example if you need to load more dishes), delay start will be paused after the drawer is closed.
- To Restart Delay Start: Close the drawer. The clock icon will flash. Press the Play/Pause button to resume.
- Cancel Wash/Cancel Delay Start: Press the Power button to cancel a wash that has already started or to cancel the Delay start setting. If there is any water in the drawer, it will automatically drain before the dishwasher turns off.

(E) Keylock: Keylock disables all the buttons – helpful when cleaning the dishwasher. To activate: press and hold the Lock button until you hear one tone. The keylock indicator will come on. To cancel: press and hold the Lock button until you hear another tone and the keylock indicator stops flashing and goes out.

(E) Childlock: Childlock disables all the buttons and locks the drawer closed, preventing unauthorized use by children. To activate: press and hold the Lock button until you hear a second tone. The keylock indicator will come on. To cancel: press and hold the Lock button until you hear another tone and the keylock indicator stops flashing and goes out.

(F) Wash Program Indicators: These show which program is selected.

(H) Display: Time remaining (minutes). Fault code numbers.

(I) Wash Stage Indicators: (See 'During and after the wash cycle').

(J) Keylock/Childlock Indicator: If lit: keylock or childlock is activated.

(K) Delayed Start Indicator: If lit: delayed start is set.

(L) Salt Indicator: If lit: salt reservoir is empty. (Water softener models only)

Wash Programs

Press the Fast Forward button to scroll through the wash program options.

Wash Program	Description
Heavy	Heavily soiled pots, pans and dishes.
Normal (Default)	Dishes that are quite heavily soiled or food soils that have been left to dry overnight.
Normal Eco	Normally soiled dishes for optimum water and energy usage.
Fast	Lightly soiled dishes.
Delicate	Lightly soiled and heat sensitive crockery.
Rinse	Prevents odors and soils from drying on dishes.

During and After the Wash

As the wash progresses, the display will count down the minutes remaining and show what stage the program is at. When the program has finished, the display will show 0 and the dishwasher will sound a tone. After 30 seconds the display will go out. You may notice the following noises at the end of the wash. These are all part of normal operation:

The drying fan may continue to run after a wash program has finished for a set time or until the drawer is opened. The fan assists with drying and uses negligible amounts of energy. For best drying results, we recommend unloading the dishes once they have cooled.

Before Travel

NOTE FROM NEWMAR

Before traveling, lock the dishwasher drawer in the closed position. It is critical that the dishwasher drawer be locked into place any time the unit is in transit. If it is not, it can extend suddenly without warning, potentially damaging the dishwasher, its contents, the cabinetry, and may become dangerous to anyone standing near it.

FIREPLACES

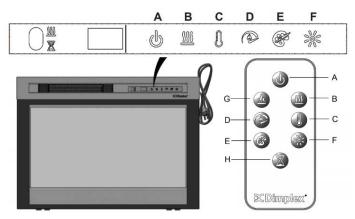
Dimplex 26" Multi-Fire Electric Fireplace Quick Start (Model: XHD26G)

This article provides basic operation instructions for a Dimplex Multi-Fire 26" Electric Fireplace (Model: XHD26G).

Touch Panel and Remote Controls

The manual controls for the Dimplex Electric Fireplace are located on the front panel. When not activated, the icons are not visible. Touch the control panel to the right side of the white line to activate the icons. The selected setting displays on the left side of the panel.

A multi-function IR (infrared) remote control also is provided. The remote control has a range of approximately 30 ft (9 m). To operate correctly, the remote control must be pointed toward the front of the electric fireplace.



(A) Power

Press to turn unit Off or On. Press to turn everything Off. Press again to turn unit On with previous settings.

(B) Heat

Press to turn heat On (indicated by 1 short beep). Display will show current heater temperature setting and after 2 sec displays room temperature. Use the Temp icon to change the heater temperature setting. Press to turn heat Off (indicated by 1 short beep). Note: After the heater is switched off, the fan will continue 60 seconds before turning off.

(C) Temp

Press multiple times to raise the heater temperature in 1° F (1° C) increments. Display will show current temperature. Temperature range is $62^{\circ}-78^{\circ}$ F ($17^{\circ}-26^{\circ}$ C). This feature is active whenever the heat is enabled.

Disable Heat: Press the Heat and Temp buttons on the unit at the same time and hold for 2 second to disable the heater. Press and hold again for 2 seconds to enable the heater. When the heater is disabled, "--" will display when Temp button is pressed. The remainder of the unit's controls will operate in the same fashion.

°C / °F: The display can show the temperature reading in either °C or °F. To change the display, press and hold the Temp and Flame Speeds buttons on the unit.

(D) Flame Speed

Press multiple times to toggle through flame speeds (minimum, medium, maximum). Display will show current speed number (F1, F2, F3 respectively).

(E) Color Themes

Press multiple times to change the media and flame base colors. This feature is active only when the flame effect is On. Display will show theme (t0, t1, t2, etc.)

(F) Brightness

Press to change the flame and logs brightness. Display will show b3, b1, b2 respectively. High, Low, Medium

(G) Flame

Press to turn the flame effect On. Press again to turn the flame effect Off.

(H) Timer

Press multiple times to change the sleep timer by 0.5 hr from 0.5 hr to 8 hr before turning off. Press again, the remaining time on the timer displays.

Maintenance

Inspect the electric firebox regularly, depending upon conditions, and at a minimum yearly intervals. Remove dust and clean with damp cloth as required.

A CAUTION

Except for installation and cleaning described in this manual, an authorized service representative should perform any other servicing.

Source(s): Dimplex Owner's Manual, Models XHD28L, XHD28G, XHD26L, XHD26G, XHD23L, XHD23G Product(s): Dimplex Multi-Fire 26" Plug-In Electric Fireplace (Model: XHD26G, Newmar Part Number: 154007)

MICROWAVES AND CONVECTION OVENS

Samsung Over-the-Range Convection Microwave Quick Start (Model: MC17T8000CS)

This article provides basic operation instructions for a Samsung Over-the-Range Convection Microwave (Model: MC17T8000CS).

(08) Speed Bake/Roast

Control Panel

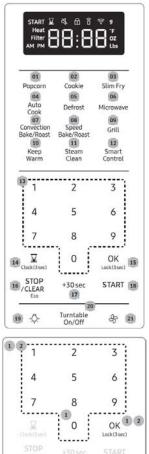
(01) Popcorn

- (02) Cookie
- (03) Slim Fry
- (04) Auto Cook
- (05) Defrost
- (06) Microwave
- (09) Grill (10) Keep Warm (11) Steam Clean (12) Smart Control (13) Number Pad (07) Convection Bake/Roast (14) Timer/Clock Setting
- (15) OK/Child Lock (16) Stop/Clear ECO (17) +30 Sec (18) Start (19) Light (Hi/Low/Off) (20) Turntable On/Off (21) Vent (3 Speed & On/Off)

Clock Settings

Your microwave oven is equipped with a built-in clock. Set the clock when first installing your microwave oven or after a power failure. The time is displayed whenever the microwave oven is not being used.

- 1. Touch the Clock/3 Sec button for 3 seconds.
- 2. Use the number pad to enter the time.
- 3. Touch the OK button.
- 4. Touch the Clock/3 Sec button to change AM to PM. (Only for 12 hr mode.). To change the clock display settings (12hr or 24hr mode), refer to the complete user manual. 5.Touch the OK button.



Child Lock

The Child Lock function allows you to lock all buttons so that the microwave oven cannot be operated by children accidentally. The oven can be locked at any time.

Activating/Deactivating

If you want to activate or deactivate the child lock function, touch the OK button for 3 seconds. The display will show a Lock icon when the oven is locked.

NOTE FROM NEWMAR

In some applications, Newmar may add a latch to prevent the microwave from opening during travel. If used, the latch opens and closes automatically with the microwave door.

ECO Mode

Eco Mode reduces standby power usage. When you touch the STOP/CLEAR Eco button once, the display will go out and the microwave shifts to a mode, which minimizes power usage. To cancel the ECO Mode, touch any other button.

Smart Control

To use the microwave oven's Smart Control, you must download the SmartThings app to a mobile device.

Functions operated by the SmartThings app may not work smoothly if communication conditions are poor or the microwave oven is installed in a place with a weak Wi-Fi signal. For more information about Smart Control, refer to the complete user manual.

Using Your Microwave

Microwave

Microwave mode can operate with One-stage cooking mode and Multi-stage cooking mode (maximum of 2 stages). You can also change power level (10-100) if needed.

- 1. Touch the Microwave button. (You can skip this step and start at the next step.)
- 2. Use the number pad to set a cooking time. You can enter a time from one second to 99 minutes and 99 seconds. (For example, to set a cooking time of 20 minutes, enter 2, 0, 0, 0.) If you do not need to set the power level, just touch the START button. The microwave will automatically operate at the High power level. If you want to change the power level, go to Step 3.
- 3. If you want to set the power level to a level other than High, touch the OK button.
- 4. Touch the number pad that corresponds to the power level.
- 5. Touch the START button to operate One-stage cooking mode. If you want to use Multi-stage cooking, go to step 6.
- 6. To use Multi-stage cooking mode, touch OK, enter cooking time for 2nd stage and then touch START if you do not need to set 2nd stage power level.
- 7. If you want to set the power level of 2nd stage, follow steps 3 and 4. Touch the START button to start cooking.
- 8. If you want to add 30 seconds of cooking time, touch +30sec button. You can adjust the cooking time while the microwave oven is operating.

Convection Bake/Roast

The Convection Bake/Roast mode uses dry heat to cook and brown food. A high speed fan circulates hot air inside the oven to heat food quickly and evenly. When you cook using convection, you would generally use the low rack.

- 1. Touch the Convection Bake/Roast button once for BAKE.
- Touch the Convection Bake/Roast button twice for ROAST.
- 2. To set the temperature, touch the number pad.
- Touch the OK button. If you want to preheat the oven, touch the START button without setting cook time.
 If there is no action within 60 minutes after preheating the oven, the oven will turn off automatically.
- 4. Use the number pad to set a cooking time.
- 5. Touch the START button to begin convection cooking. If you want to add 30 seconds of cooking time, touch+30sec button. You can adjust the cooking time while the microwave oven is operating.
 - 1. If the oven reaches the temperature setting, 'Beep' sound will occur in both preheat and cooking mode.
 - 2. To maintain a constant temperature, keep the oven door closed while the food is cooking. Open as infrequently as possible.
 - 3. While operating the oven, if you want to change the temperature setting, touch the OK button, touch the number pad and then touch the OK button.

Speed Bake/Roast

The combination cooking feature allows you to cycle automatically between microwave and Bake/Roast cooking. The food will be moist as well as crisp and brown. This type of cooking is ideal for large food that requires long cooking times when prepared in a conventional oven (such as large roasts, whole chickens, etc.). When combination cooking, use the low rack to allow air to circulate completely around the dish.

To use combination cooking:

- 1. Touch the Speed Bake/Roast button once for SPEED BAKE.
- Touch the Speed Bake/Roast button twice for SPEED ROAST.
- 2. Use the number pad to set a cooking time. If you do not need to set the power level, just touch the START button. The Microwave will operate at a pre-programmed power level. If you want to adjust the power level, go to Step 3.
- 3. Touch the OK button.
- 4. To set the power level, touch the number pad refer to the table below.(default : 2)
- 5. Touch the START button. If you want to add 30 seconds of cooking time, touch +30sec button. You can adjust the cooking time while the microwave oven is operating.
 - 1. This mode combines microwave energy with hot air. This combination reduces the cooking time while giving the food a brown and crispy surface.
 - 2. The vent fan operates at low speed while the oven operates in Speed Bake/Roast mode.

Cleaning and Maintaining Your Microwave Oven

Keeping your microwave oven clean improves its performance, wards off unnecessary repairs, and lengthens its life.

Cleaning the exterior

It's best to clean spills on the outside of your microwave oven as they occur. Use a soft cloth and warm, soapy water. Rinse and dry.

A CAUTION

Do not get water into the vents. Never use abrasive products or chemical solvents such as ammonia or alcohol as they can damage the appearance of your microwave.

WARNING

Unplug the microwave before cleaning.

Cleaning under your microwave oven

Regularly clean grease and dust from the bottom of your microwave using a solution of warm water and soap.

Cleaning the control panel

Wipe with a damp cloth and dry thoroughly. Do not use cleaning sprays, large amounts of soap and water, abrasives, or sharp objects on the panel as it is easily damaged.

Cleaning the door and door seals

Always ensure that the door seals are clean and that the door closes properly. Take particular care when cleaning the door seals to ensure that no particles accumulate and prevent the door from closing correctly. Wash the glass door with very mild soap and water. Be sure to use a soft cloth to avoid scratching.

If steam accumulates inside or outside the oven door, wipe with a soft cloth. Steam can accumulate when you operate the oven when humidity is high and in no way indicates microwave leakage.

Cleaning the interior

A CAUTION

To avoid injury, ensure that the microwave oven has cooled down before cleaning it.

A CAUTION

Remove the glass tray from the oven when cleaning the oven or tray. To prevent the tray from breaking, handle it with care and do not put it in water immediately after cooking. Wash the tray carefully in warm sudsy water or in the dishwasher.

Cleaning the turntable and roller rings

Clean the roller rings periodically and wash the turntable as required. The turntable can be washed safely in your dishwasher.

Replacing the cooktop/night light

When replacing the cooktop/night light, make sure that you are wearing gloves to avoid injury from the heat of the bulb.

Unplug the oven or turn off the power at the main power supply. Remove the screw from the light cover and lower the cover. Disconnect the wire connectors. Remove the screw securing the LED lamp board. Replace the LED lamp board.

Replacing the oven light

When replacing the oven light, make sure that you are wearing gloves to avoid injury from the heat of the bulb.

Unplug the oven or turn off the power at the main power supply. Open the door. Remove the vent cover mounting screws (2 middle screws). Slide the vent grille to the left, then pull it straight out. Remove the charcoal filter, if present. Remove the screw securing the lamp cover. Remove the bulb by pulling it out gently. Replace the bulb with a 20 watt halogen bulb. Replace the bulb holder. Replace the vent grille and re-insert the 2 screws. Plug the oven in or turn on the power at the main power supply. Reset the clock.

Cleaning the grease filter

Your microwave oven has two metal reusable grease filters. The grease filters should be removed and cleaned at least once every four months or as required. Your microwave oven has a filter reminder function.

WARNING

To avoid risk of personal injury or property damage, do not operate the oven hood without the filters in place.

To remove the filter, slide it to the left (or right) using the tab. Soak the grease filter in hot water and a mild soap. Rinse well and shake to dry. Brushing the filter lightly can remove embedded dirt.

A WARNING

Do not use ammonia or put the grease filter in the microwave oven. The aluminum will darken.

To re-install the filter, slide it into the frame slot on the left (or right), and then push it upwards and to the right (or left) to lock it.

Filter Reminder

If the Filter Remind function is ON, the microwave will remind you to clean or replace the grease filter every four months. When it is time to clean or replace the grease filter, the microwave displays the "Filter" message to remind you to clean or replace the grease filter. To remove the message, touch the number 0 when the microwave is in standby mode. If you don't want to receive this message, set the Filter Remind function off in My settings.

Source(s): Samsung Microwave Oven MC17T8000C User Manual Product(s): Samsung Over-the-Range Convection Microwave (Model: MC17T8000CS, Newmar Part Number: 157050)

REFRIGERATORS, FREEZERS, AND ICE MAKERS

Exterior Portable Freezers

Dometic Exterior Portable Freezer Quick Start (Model: CFX3-45, CFX3-55IM, CFX3-75DZ, and CFX3-95DZ)

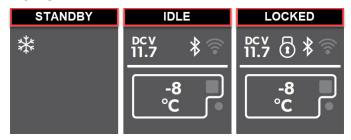
This article provides basic operation instructions for a Dometic Exterior Portable Freezer (Model: CFX3-45, CFX3-55IM, CFX3-75DZ, and CFX3-95DZ).

Operating and Display Elements

APPLIANCES

1	2	3 4	Item	Description	Explanation
•			1	چ	Switches the cooler on when the button is pressed briefly Switches the cooler off when the button is pressed for three seconds Returns to the previous menu
CFX3-35, CFX3-45, CFX3-100	CFX3-55IM	CFX3-75DZ, CFX3-95DZ	2	Display	Shows the information Ac: AC power supply is connected bcv: DC power supply is connected C: Bluetooth is activated C: WiFi is activated D: Display is locked C: Compressor is working I: Ice maker is working (CFX3 55IM only)
B Set temp Image: Set temp Image: Set temp Image:	Set temp Instary protection Bulkestooth Image: start st	8 Set temp C::::::::::::::::::::::::::::::::::::	3		Press \bigtriangleup to navigate upwards or to increase the selected value. Press \bigtriangledown to navigate downwards or to decrease the selected value. Press \bigtriangleup and \bigtriangledown simultaneously for 3 s to lock or unlock the display.
	d tce maker	Zone control	4	ОК	Press to select a menu or to save the selected value.

Display States



CFX3 App

Downloading the App

The cooler can be monitored and controlled via Bluetooth or WiFi using an app that you can install on a compatible device. Download the CFX3 app from App Store or Google Play. Note that the CFX3 app may not be available in your country.

Setting the Bluetooth signal and connecting to the app

The cooler can be monitored and controlled via Bluetooth. To do so, you have to pair the cooler with your Bluetooth device.

Pairing must be done within the CFX3 app, not in device settings. There is no password required for Bluetooth connection.

Setting the WiFi signal and connecting to the app

The cooler can be monitored and controlled via WiFi direct to cooler or via a WiFi network.

For WiFi direct to cooler, go to device settings and select your cooler.

- The WiFi name of your cooler begins with "CFX3".
- The preset password is "00000000".
- You can personalise the WiFi name and the password in the CFX3 app.

For connection via WiFi network, go to "network connection" in the app SETTINGS.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

Changing CFX name and password in the app

- You can personalise the name of your CFX in the app.
- The same name applies to both Bluetooth and WiFi.
- You can also personalise your password in the app -applicable only to WiFi.

Proceed to "CFX name and password" in the app SETTINGS.

Resetting the app password (WiFi only)

You can reset the app password to the factory setting "00000000".

Resetting to factory settings

The reset function changes all display menu and app fields to the original factory settings.

USB Port

The USB port allows you to charge small devices like mobile phones and mp3 players.

A IMPORTANT

Ensure that any small device connected to the USB port is compatible with 5 V/2 A operation.

Defrosting the Cooler

Humidity can form frost in the interior of the cooling device or on the evaporator. This reduces the cooling capacity. Defrost the device in good time to avoid this.

▲ CAUTION

Never use hard or pointed tools to remove ice or to loosen objects which have frozen in place.

To defrost the cooler, proceed as follows:

- 1. Take out the contents of the cooler.
- 2. If necessary, place them in another cooling device to keep them cool.
- 3. Switch off the device.
- 4. Leave the lid open.
- 5. Wipe off the defrosted water.

Source(s): Dometic Mobile Cooling CFX3 Operating Manual (CFX3 35, CFX3 45, CFX3 55IM, CFX3 75DZ, CFX3 95DZ, CFX3 100)

Residential-Style Refrigerator Overview

This article provides a general overview of how a residential-style refrigerator operates.

Residential-style refrigerators are the most popular option installed in Newmar coaches. The refrigerator operates on 120 volt AC power and uses freon and a compressor to keep your food cold and fresh. The power may be supplied by the electrical hookup at the campsite, generator power or (in most coaches) an inverter with a charged house battery bank.

For models with a built-in ice maker, a pressurized water supply is required. In order for the ice maker to operate, you must have water in the fresh tank and have the water pump turned on, or your coach must be connected to city water supply.

When placing items on the racks and in the bins, leave enough space for air to flow throughout the entire refrigerator cabinet.

All models are equipped with a means to latch and secure the doors for a tight seal and to prevent the doors from opening during transit. Become familiar with the latch operation and always lock prior to traveling.

Samsung Smart 3-Door French Door Refrigerator Quick Start (Model: RF22A4121SR)

This article provides basic operation instructions for a Samsung Smart 3-Door French Door Refrigerator (Model: RF22A4121SR).

Travel Lock Operation

NOTE FROM NEWMAR

The refrigerator is equipped with a travel lock to prevent the doors and drawer from opening during transit.

- To lock the refrigerator, push the lock from right to left.
- To unlock the refrigerator, push the lock from left to right.

Main Panel

The display of the main panel turns on only if the door is opened and turns off if the door is closed.

The control panel is designed to stay off when the refrigerator is not in use. It only becomes active and lights up when you open the door or tap the buttons.

If the door is left open for 5 minutes, the internal light will blink for 5 minutes and turn off to alert deaf and hard of hearing users that a door is open. Note: [This] function is normal.

- 1. **Fridge Indicator:** Displays the current or desired temperature of the fridge. The symbol indicates that the Power Cool function is on.
- 2. **Freezer Indicator:** Displays the current or desired temperature of the freezer. The symbol indicates that the Power Freeze function is on.
- 3. Network Connection Indicator: Indicates that the refrigerator is connected to a network. You can control and monitor your refrigerator on the SmartThings app.
- 4. **Dispenser Lock*:** Displays the status of the Dispenser Lock function. To prevent use of the dispenser lever, you can use Dispenser Lock.
- 5. Ice Maker: Displays the status of the ice maker. To enable ice making, you must turn on the ice maker.
- 6. Water Filter*: Indicates that the water filter needs to be replaced. When [you] see the icon, you can replace the water filter and reset the water filter replace alarm, or dismiss the alarm and change the filter later.
- Buttons: When the display is off, tap any button to wake up the display. Tap O to select the desired item on the main panel and to confirm any setting changes. Tap < or > to change the settings of the selected item on the main panel.
- 8. Peak Demand*: Displays the status of the Peak Demand function.

**Applicable Models Only

Setting the Desired Temperature or Function

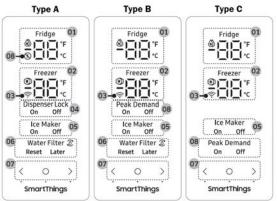
Select the fridge or freezer and set the desired temperature or function of your choice.

- 1. Tap any button (<, O, or >) to wake up the display. This step may not apply to some models.
- 2. Tap O until the fridge or freezer indicator blinks. The selected compartment's indicator blinks.
- 3. Tap < or > to select the desired temperature or function.
- 4. Wait for 5 seconds or tap O to confirm your selection. The selected compartment's indicator stops blinking.

Notes:

When you change the temperature on the panel, the panel displays the actual temperature inside the refrigerator until the temperature matches the temperature you set. Then, the panel displays the new set temperature. Note: It will take time for the refrigerator to reach the new temperature. This is normal. During this time, you do not need to set the temperature again.





To ensure optimal performance, we recommend setting the temperature to 0 °F (-18 °C) for the freezer, and 37 °F (3 °C) for the fridge.

The temperature in the refrigerator may rise if you open the door frequently or put a large amount of food into the refrigerator. If this happens, the temperature display blinks until the refrigerator returns to the specified temperature settings.

If a communication error occurs between the temperature display and the main controller, this blinking continues for an extended time. Contact a local Samsung service center for technical assistance.

Changing the Temperature Scale

You can switch the temperature scale between Fahrenheit and Celsius.

- 1. Tap any button (<, O, or >) to wake up the display. This step may not apply to some models.
- 2. Tap O until the °F and °C symbols on the fridge or freezer blink.
- 3. Tap < or > to select the desired temperature scale. Tap < to select Fahrenheit. Tap > to select Celsius.
- 4. Wait for 5 seconds or tap O to confirm your selection. The °F and °C symbols stop blinking.

Turning On or Off the Ice Maker

You can turn on or off the ice maker in the freezer.

- 1. Tap any button (<, O, or >) to wake up the display. This step may not apply to some models.
- 2. Tap O until the Ice Maker indicator blinks.
- 3. Tap < or > to turn on or off the ice maker. Tap < to turn it on. Tap > to turn it off.
- 4. Wait for 5 seconds or tap O to confirm your selection. The Ice Maker indicator stops blinking.

Turning On or Off the Dispenser Lock Function

You can turn on or off the Dispenser Lock Function.

- 1. Tap any button (<, O, or >) to wake up the display. This step may not apply to some models.
- 2. Tap O until the Dispenser Lock indicator blinks.
- 3. Tap < or > to turn on or off the Dispenser Lock. Tap < to turn it on. Tap > to turn it off.
- 4. Wait for 5 seconds or tap O to confirm your selection. The Dispenser Lock indicator stops blinking.

Resetting or Dismissing the Water Filter Replacement Alarm

The water filter replacement icon blinks to alert the user that it is time to replace the water filter. You can replace the water filter immediately and reset the water filter replacement alarm, or dismiss the alarm if you want to change the water filter later.

- 1. Tap any button (<, O, or >) to wake up the display. This step may not apply to some models.
- 2. Tap O until the Water Filter indicator blinks.
- 3. Tap < or > to select Reset or Later. If you have changed the water filter, tap to reset the water filter replacement alarm. If you want to change the water filter later and dismiss the alarm, tap >.
- 4. Wait for 5 seconds or tap O to confirm your selection. The Water Filter indicator stops blinking.

Activating or Deactivating the Cooling Off Mode

The Cooling Off mode (also called the Shop mode) is designed for retailers to display refrigerators on a retail floor. In the Cooling Off mode, the refrigerator's fan motor and lights operate normally, but the compressors do not run, so neither the refrigerator nor the freezer becomes cold.

To activate or deactivate the Cooling Off mode, tap and hold < and > simultaneously for 6 seconds. Then, when the display blinks, press O. When the Cooling Off mode is on, the refrigerator chime sounds, and the refrigerator shows "0" on the fridge indicator and "FF" on the freezer indicator.

SmartThings App

Installation

Visit the Google Play Store, Galaxy Store, or Apple App Store and search for "SmartThings". Download and install the SmartThings app provided by Samsung Electronics to your smart device.

Samsung account

You are required to register your Samsung account to use the app. If you don't have a Samsung account, follow the app's onscreen instructions to create a free Samsung account.

Getting started

Turn on the device you want to connect, open the SmartThings app on your phone, and then follow the instructions below.

If a pop-up appears saying that a new device has been found, tap ADD NOW. If a pop-up doesn't appear, tap the + button, and then select the device you want to connect from the list of available devices. If your device isn't in the list of available devices, tap Supported Devices, select the device type (Refrigerator), and then select the specific device model. Follow the instructions in the app to set up your device. Once setup is complete, your refrigerator will appear as a "card" on your Devices screen.

Refrigerator App

Integrated control

You can monitor and control your refrigerator at home and on the go. Tap the refrigerator icon on the SmartThings Dashboard or tap the Devices icon at the bottom of the Dashboard, and then tap the refrigerator "card" to open the Refrigerator page. Check the operation status or notifications related to your refrigerator, and then change options or settings if necessary.

Note: Some options or settings of the refrigerator may not be available for remote control.

Water Dispenser (if equipped)

Using the dispenser, you can dispense water.

To dispense chilled water, turn off the Dispenser Lock function. Put a water glass under the dispenser, and then push the dispenser lever. The dispenser will stop dispensing if you keep pushing the dispenser lever for about 1 minute. To dispense more water, release and push the lever again. Make sure the glass is in line with the dispenser to prevent the dispensed water from spilling out.

If you do not use the water dispenser for 2-3 days, the dispensed water may have an abnormal smell or taste. This is not a system failure. Discard the first 1-2 glasses of water.

Water Clouding

Water supplied to the refrigerator flows through a core alkaline filter. During this filtering process, the water pressure of the water increases and the water becomes saturated with oxygen and nitrogen. This causes the water to look misty or cloudy temporarily when dispensed. This is normal and the water will look clear after a few seconds.

Source(s): Samsung Refrigerator Free Standing Appliance User Manual (FDR_RF4500A_DA68_02657D) Product(s): Samsung Smart 3-Door French Door Refrigerator (Model: RF22A4121SR, Newmar Part Number: 161453)

VACUUMS

RoadVac by InterVac Central Vacuum Quick Start (Model: CS-RM)

This article provides basic operation instructions for a RoadVac by InterVac Central Vacuum system (Model: CS-RM).

Operating the Vacuum

To operate the vacuum, make sure 120 volt power is being supplied to the vacuum outlet. The vacuum must be plugged in, and the power switch must be in the OFF position when using the remote control on the pistol grip.

The vacuum will only turn ON when the Remote Control Pistol Grip button has been pressed or when the switch on the vacuum has been turned ON.

Pressing the Pistol Grip button for less than a second will turn the vacuum ON or OFF.



Do not hold down the button, as it will greatly reduce battery life. When the Pistol Grip Transmitter button is held down continuously, it will continue to transmit for 9 seconds, and then turn OFF.

If the performance (range) in which the Pistol Grip functions away from the receiver has reduced, replace the battery to correct the issues.

Note: Replacing the battery may require the Pistol Grip Remote to be reprogrammed. For more information about the Pistol Grip, refer to the file in Newgle named "Intervac Pistol Grip Remote Control Description, Installation and Programming".

Replacing the Vacuum Double-Collar Bag

Replacement bag: Part #Y11 high filtration 5-layer fiber bag

- 1. Remove the front panel on the vacuum cleaner by sliding the latch/lock and removing the front panel with dust bag attached.
- 2. Remove full bag and discard.
- 3. Notice: The #Y11 double-sided bag has two openings. The collar which attaches to the back of the vacuum chamber is clearly marked "Push this collar over pipe in the back of the vacuum chamber first."
- 4. Hold the dust bag by the edges of the cardboard in your hand. Push onto the pipe in the back of the chamber holding at about a 45 degree angle, and then push down the lower part of the collar against the back wall until flush.
- 5. Push the front cardboard collar of the dust bag all the way over the pipe on the front panel.
- 6. Slide the front panel into the small slots on the side of the vacuum's frame. Ensure dust bag is completely inside compartment, then push it into the frame until the lock/latch clicks into place.

Changing the Motor Filter

Replacement: Part #Y22

- 1. Remove the front panel with dust bag.
- 2. Inside the vacuum chamber, you will see the filter with the arrow pointing towards the back wall. Replace the filter with a new or cleaned filter, with the arrow pointing towards the back wall.
- 3. If the filter is dirty, you can wash it by hand in a mild soap solution. Do NOT clean in washing machine. Let filter dry completely before reusing.

Source(s): InterVac CS Series Installation and Operating Manual Product(s): InterVac Central Vac System (<u>Model: CS-RM, Newmar Part Number: 142013</u>)

WASHERS AND DRYERS

Washer and Dryer Overview

This article provides an overview of the washer and dryer operation, information about coaches that are prepped for an after-market installation, as well as an explanation of the washer's p-trap.

Overview

Depending on your model, year, and available options, your coach may be equipped with a stackable washer and dryer, or an all-in-one laundry center located in a cabinet. They are built for life on the road, so they are compact to save space, weight, and resources, without sacrificing performance.

Some coach floorplans may also provide the option for washer and dryer hookups, in lieu of the appliances. If a washer and dryer unit is not installed in your coach, it may be prepped at the factory so that a unit can be added later. Coaches not ordered and/or installed by the factory will not be covered by Newmar's warranty.

Operation

The plumbing and other preparations for the installation of a compact washer and dryer are optional features on your coach. The washers and dryers function like those in a home. Most operate on 120 volt electricity; however, some dryers may require 240 volt electricity.

Newmar does not recommend using your washer and dryer during transit.

For information about your installed washer and dryer, refer to Newgle's product pages, which are specific to the appliance manufacturer and model.

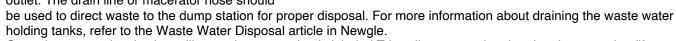


NI-12

Washer Waste Water Drainage

Before operating the washing machine:

- 1. Remove the outside drain cap in the exterior water compartment. The drain cover is used to prevent leakage of waste material when not in use.
- 2. Attach the sewer or macerator hose to the drain outlet. The drain line or macerator hose should



3. Open the gray tank valve by pulling on the appropriately labeled T-handle or operating the electric gate valve (if equipped). The tank will start to drain to the drain outlet or macerator hose (if equipped and connected) as soon as the T-handle is pulled or the electric gate valve is operated. Opening the gray tank valve will allow the washing machine water to drain instead of overfilling the waste water tank.

A NOTICE

Remove outside drain cap before operating washing machine.

🛦 IMPORTANT

If the outside drain cap is not removed and the gray tank valve is not in the "open" position, the gray tank may overflow.

P-Traps

Each of the sink drains, the shower drain, and the washing machine drain (if equipped) has a water trap to prevent holding tank odors from entering the coach. These traps must have water in them in order to trap the odors. While stored, the water may evaporate, allowing an odor to enter the coach. If this occurs, run water from the faucet into the drain, allowing water to fill the trap. Run water into the washing machine. Set the cycle to spin to drain the water to fill the p-trap.

Splendide Front-Loading Washer Quick Start (Model: WFL1300XD)

This article provides basic operation instructions for a Splendide Front-Loading Washer (Model: WFL1300XD).

Control Panel

- 1. SUPER WASH / MUTE button
- 2. POST CYCLE CARE / KEY LOCK button
- 3. ON/OFF button
- 4. PREWASH button and indicator light
- 5. START/PAUSE button
- 6. EXTRA BINSE button
- 7. DELAY START button
- 8. SPIN button
- 9. TEMPERATURE button
- 10. WASH CYCLE SELECTOR KNOB

Detergent Dispenser Drawer

Compartment 1: Pre-wash detergent (powder)

Compartment 2: Detergent for the wash cycle (powder or liquid)

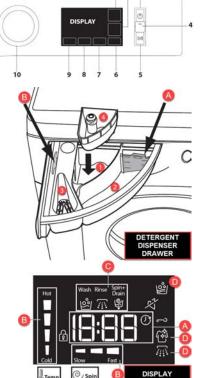
- If liquid detergent is used, it is recommended that the removable plastic partition A (supplied) be used for proper dosage.
- If powder detergent is used, place the partition into slot B.

Compartment 3: Additives (fabric softeners, etc.)

• The fabric softener should not overflow the grid.

Extra Compartment 4: Bleach









Remove outside drain cap before operating washing machine.

Note: Splendide recommends using 1 to 2 tbsp. of a bio-friendly fabric softener, or similar brand per wash load. These softeners tend to appear light in color and dissolve more quickly in less water, minimizing build-up within your machine.

Note: Use powder detergent for white cotton garments, for pre-washing, and for washing with hot temperatures.

Note: Follow the instructions given on the detergent packaging.

Display

The display is useful when programming the washing machine and provides plenty of information.

Section A: The duration of the available wash cycles and the remaining time of a running cycle appear in section A (Factors such as load size, modifiers, options selected, and water pressure may affect the time shown in the display. Tightly packed loads, unbalanced loads, or excessive suds may cause the washer to lengthen the cycle time as well); if the DELAYED START option has been set, the countdown to the start of the selected wash cycle will appear.

Section B: In section B, pressing the corresponding button allows you to view the maximum spin speed and temperature values attained by the machine during the set wash cycle, or the values selected most recently, if these are compatible with the set wash cycle.

Section C: The "wash cycle phases" corresponding to the selected wash cycle and the "wash cycle phase" of the running wash cycle appear in section C: Wash, Rinse, Spin + Drain.

Section D: References D indicate the wash options available.

Delay Start: The "Delay Start" symbol [clock icon], when lit, indicates that the set "delayed start" value has appeared on the display.

Mute: The "Mute" symbol [speaker icon] indicates the possibility to silence the key tones. While the mute is active, almost all sounds will be turned off. Only the sound signals and the alarms remain active, as well as the sound of the end of cycle. To activate/deactivate, press and hold the mute button.

Key Lock: To lock the control panel, press and hold the "Key lock" button for approximately 3 seconds. The symbol will light up on the display to indicate that the control panel has been locked (with the exception of the "ON/OFF" button). This prevents unintentional changes to programs, especially with children near the machine. To unlock the control panel, press and hold the "Key lock" button for approximately 3 seconds.

Locked Door Indicator: When lit, the symbol indicates that the door is locked. To prevent any damage, wait until the symbol turns off before opening the door. To open the door while a cycle is in progress, press the START/PAUSE button; if the LOCK symbol is off, the door can be opened.

First-Time Use: Once the appliance has been installed, and before it is used for the first time, run a "Clean Washer" cycle with liquid chlorine bleach and no laundry.

Daily Use

- 1. Press the ON/OFF button.
- 2. Open the door. Load the laundry while making sure not to exceed the maximum load quantity indicated in the wash cycle table.
- 3. Pull out the detergent dispenser drawer and pour the detergent into the relevant compartments, as described in the "DETERGENT DISPENSER DRAWER" section. - Close the door.
- 4. The machine automatically displays the default temperature and spin speed values for the selected cycle, or the most recently used settings for that specific cycle.
- 5. Select the desired wash cycle.
- 6. Select the desired options.
- 7. Press and hold the START/PAUSE button to start the wash.

IMPORTANT

For more information about wash settings, cleaning and maintenance, and winterization, refer to Splendide's Instruction Manual.

Source(s): WFL1300XD Splendide Washing Machine Instruction Manual Product(s): Splendide WFL1300XD 24-in Front-Loading Washer (<u>Model: WFL1300XD, Newmar Part Number: 156340</u>)

Splendide Tumble Dryer Quick Start (Model: DV6500X)

This article provides basic operation instructions for a Splendide Tumble Dryer (Model: DV6500X).

Control Panel

The START button begins drying a selected program.

The HEAT button selects drying temperature:

- IN: HIGH heat.
- OUT: LOW heat.

The Drying Guide allows you to consult a user friendly table of fabric types and load capacities. The Special Programs Guide gives a guide to the available programs.

The PROGRAMS knob sets the program: rotate it clockwise, never counter-clockwise, until the indicator is pointing to the program you want to select. The programs knob will advance to the '0' position after the program ends.

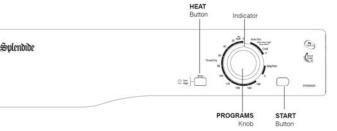
Choosing a Program

- 1. Plug dryer into a grounded 3 prong outlet.
- 2. Sort your laundry according to fabric type.
- 3. Open the door and make sure the filter is clean and in place.
- 4. Load the machine and make sure that the items are not in the way of the door seal. Close the door.
- 5. Choose the drying program by checking the Programs table as well as the indications for each type of fabric. Set the temperature with the HEAT button. Select a program or drying time by rotating the PROGRAMS knob clockwise.
- 6. Press the START button to begin. During the drying program, you can check on your laundry and take out items that are dry while others continue drying. When you close the door again, press START in order to resume drying.
- 7. About 10 minutes before the program is completed, it enters the final AIR FLUFF phase (fabrics are cooled), which should always be allowed to complete.
- 8. Open the door, take your laundry out, clean the filter and replace it.
- 9. Unplug the dryer.

Laundry

Sorting Your Laundry

- Check symbols on clothing labels to make sure that the articles can be tumble dried.
- Sort laundry by fabric type.
- Empty pockets and check buttons.
- Close zippers and hooks and tie loose belts and strings.
- Wring out each item in order to eliminate as much excess water as possible.
- Do not load dripping wet clothes into the dryer.



What not to tumble dry

- Articles that contain rubber or rubber-like materials or plastic film (pillows, cushions, or PVC rainwear), any other flammable objects, or objects that contain flammable substances (towels soiled with hair spray).
- Glass fibers (certain types of draperies).
- Items that have been dry cleaned.
- Items with the ITCL Code. These can be cleaned with special at-home dry cleaning products. Follow instructions completely.
- Large bulky items (quilts, sleeping bags, pillows, cushions, large bedspreads, etc.). These expand when drying and would prevent airflow through the dryer.

No washer can completely remove oil. Do not dry anything that has ever had any type of oil on it (including cooking oils). Do not dry items containing foam, rubber, or plastic in this dryer. Doing so can result in death or fire.

WARNING

Keep flammable materials and vapors, such as gasoline, away from dryer. Do not dry anything that has ever had anything flammable on it (even after washing). Failure to follow these instructions can result in death, explosion, or fire.

Maximum Load Size

Do not load more than maximum capacity. These numbers refer to dry weight:

- Natural fibres: 6 kg max (13 lb)
- Synthetic fibres: 3 kg max (6.6 lb)

Do not overload the dryer as this could result in reduced drying performance.

Cleaning & Maintenance

When you should switch off the electricity

Unplug the dryer when not using it, when cleaning it and during maintenance activities.

Clean the filter after each cycle

The filter is an important part of your dryer: it accumulates lint and fluff that is formed while drying. Small items could also become trapped in the filter. When finished drying, therefore, clean the filter by rinsing it under running water or with your vacuum cleaner. Should the filter become clogged up, the airflow inside the dryer will be seriously compromised: drying times lengthen and you will consume more energy. It may also damage your dryer.

The filter is found in front of the dryer trim.

Removing the filter:

- 1. Pull the plastic grip of the filter upwards (see diagram).
- 2. Clean the filter in all its parts, opening it and removing the lint both outside and inside.
- 3. Properly insert the filter back in place. Ensure the filter is fully located flush into the tumble dryer trim.

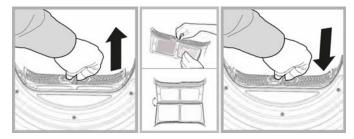
Do not use the dryer without replacing the filter.

Check the drum after each cycle

Turn the drum manually in order to remove small items (handkerchiefs) that could have been left behind.

Cleaning the drum

Do not use abrasives, steel wool or stainless steel cleaning agents to clean the drum. A color film may start to appear on the stainless steel drum, this may be caused by a combination of water and, or cleaning agents such as fabric conditioner from the wash. This colored film will not affect the dryer performance.



Cleaning the dryer

- External parts in metal or plastic and rubber parts can be cleaned with a damp cloth.
- Periodically check the vent tube and any permanent venting fixture to make sure that there has been no accumulation of fluff or lint, and remove it.
- Remove lint that collects around the filter and the outlet vents.

Do not use solvents or abrasives. Your dryer uses special bearing components which do not need lubrication. Have your dryer checked regularly by authorized technicians to ensure electrical and mechanical safety.

Source(s): Splendide Tumble Dryer DV6500X Care, Use, and Installation Booklet Product(s): <u>Splendide DV6500X 120v Dryer (Model: DV6500X, Newmar Part Number: 162308)</u> This page is intentionally blank.

CHASSIS

This chapter provides information from your chassis manufacturer, detailed operating instructions for the fuel, leveling, and steering systems installed in your coach, as well as guidelines for proper use and maintenance of your wheels and tires.

IMPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

M IMPORTANT

Refer to your chassis owner's manual for information relating to vehicle identification and safety, dash instruments, controls, and switches, steering and braking systems, driver assistance features, maintenance recommendations, etc.

FREIGHTLINER

Freightliner Chassis Contact Information

This article provides contact information for Freightliner Chassis.

24/7 Direct: Customer Assistance or Concerns

- Phone: 1-800-FTL-HELP (800.385.4357)
 - For Super C coaches, press option 2; for all other Freightliner chassis, press option 1
- Web: <u>http://www.fcccrv.com/owners/</u>
- Email: fcccservice@daimler.com

Chassis Manuals

Refer to Freightliner's Driver and Maintenance Manuals in Newgle for all chassis-related information, including, but not limited to:

- Vehicle Identification
- Dash Instruments, Controls, and Switches
- Steering and Brake Systems

- Driver-Assistance Features
- Emergency Procedures
- Inspection and Maintenance

Freightliner Steering Wheel, Lighting, and Wiper Controls Operation (2020 and Newer)

This article provides an overview for the steering wheel, rotary-style headlight switch, and wiper controls on Freightliner coaches equipped with an OptiView dash.

Steering Wheel Overview



Horn Control

The button for the horn is located in the center of the steering wheel. To sound the horn, press the center of the steering wheel pad.

Menu Switch Pods

Navigating through the system menus is done with the buttons on the side of the steering wheel. Press the "up" or "down" arrows to highlight a menu, then press the OK button to enter the highlighted menu. Press the "back" button to go back to the last menu that was displayed. Press the "home" button to return to the menus in their original order.

Favorites Button

The Favorites button can be preset to any menu by going to the desired menu, pressing, and holding the Favorites button for five seconds.

NOTE FROM NEWMAR

Starting with the 2023 model year, the Favorites button will be preset from the factory to quickly access Steering Effort (also known as Comfort Drive). If the Steering Effort does not come up, the Favorites button may have been inadvertently reset. The Favorites button can be reset at any time by pressing and holding it down for five seconds while on the desired setting.

Bluetooth Connectivity/Phone Accessibility

Freightliner coaches equipped with Bluetooth connectivity and the OptiView Instrument Panel may have the ability to view incoming phone calls within the driver message display area. The driver may have the ability to answer and/or end a call, or change the call volume, from the steering wheel control pods.

NOTE FROM NEWMAR

The cell phone in use must be connected to Freightliner via Bluetooth for these features to operate.

Cruise Control

WARNING

Do not use the cruise control system when driving conditions do not permit maintaining a constant speed, such as in heavy traffic or on roads that are winding, icy, snow-covered, slippery, or roads with a loose driving surface. Failure to follow this precaution could cause a collision or loss of vehicle control, possibly resulting in personal injury or property damage.

Maximum cruise control speed varies according to vehicle specications, but cannot exceed 75 mph (121 km/h).

Cruise control allows the driver to automatically control the speed of the vehicle above 32 mph (51 km/h). The buttons that operate the cruise control system are located on the right-hand switch pod of the steering wheel.

Cruise On/Off Button: Press to turn cruise control on or off. When cruise control is on, the ICU message center displays relevant cruise control icons and the set speed. The speed memory will be retained until the cruise control is disabled with the on/off button, or the ignition is turned off.

Cruise Accelerate/RES Button: Press and hold to increase the set cruise speed. Press to resume the set speed.

CNCL Button: Press to pause the cruise control, while retaining the speed setting in memory. The cruise control can also be disengaged, while retaining the speed memory, by depressing the brake pedal.

Cruise Decelerate/SET Button: Press to set the cruise speed while the vehicle is traveling at the desired speed. Press and hold to decrease the set cruise speed.

To cruise at a particular speed: Press the on/off button to turn cruise control on. Depress the accelerator pedal until the speedometer reaches the desired speed. Press the cruise decelerate/SET button to set the desired speed.

Cruise control is cancelled if the brake pedal is depressed, or vehicle speed drops below the minimum cruise control speed.

A NOTICE

The speed memory is lost whenever the ignition switch is turned to OFF, or cruise control is turned off.

To disengage the cruise control, do one of the following: Press the CNCL button in the center of the right-hand control pod or depress the brake pedal. To resume a preselected cruise speed: Ensure cruise control is on. Press the cruise accelerate/RES button. Cruise will return to the last set speed.

If vehicle speed drops below the minimum cruise control speed, cruise control will disengage. To resume to the preselected cruise speed, increase vehicle speed to above minimum cruise control speed and press the cruise accelerate/RES button.

To increase cruise speed, press the cruise accelerate/RES button until the vehicle accelerates to the desired speed. To decrease cruise speed, press the cruise decelerate/SET button until the vehicle decelerates to the desired speed.

Hazard Warning Lights

To activate the hazard warning lights, push the hazard warning light switch on the right side of the steering column. When the hazard warning lights are activated, all of the turn signal lights and both of the turn signal indicator lights on the instrument panel will ash. To cancel the warning lights, push the switch in on the right side of the steering column.

Lighting Controls

Automatic Ambient Headlight Sensor

IMPORTANT

This optional feature only activates or deactivates the panel lights, headlights and tail lights; there is no high-beam headlight sensing function.

The ambient sensor activates the panel lights, headlights and taillights when the brightness of the ambient light drops below a preset value for three seconds. Once activated, these lights remain on and require either a headlight switch cycle (Off/On/Off), or turning the ignition to the OFF position to deactivate them.

Headlights

The headlight switch is a rotary switch located to the left of the steering column. The headlights automatically turn on if the windshield wipers are on. The headlights can be deactivated by switching the windshield wipers off, cycle the headlight switch (Off/On/Off), or turning the ignition to the OFF position.

(1) Fog lights: Activate by pulling the switch out when the marker lights or headlights are on.

- (2) Automatic Headlights (Optional)
- (3) Off
- (4) Marker Lights
- (5) Headlights

Fog Lights

Some vehicles may be equipped with a rocker switch to activate the fog lights. If so equipped, the rocker switch is installed by the body builder and the location will vary.

To activate the fog lights, do one of the following based on the vehicle controls: Pull the rotary switch out when the marker lights or headlights are on. Push the rocker switch (not shown).

Marker Lights

To turn the marker lights on, turn the headlight switch clockwise past the off position. The marker interrupt switch, located in the right-hand switch pod of the steering wheel, temporarily ashes the marker lights.





High-Beam Headlights

The ignition switch must be on for the high beams to work.

With the low-beam headlights on, push the turn-signal lever away from you to turn on the high-beam headlights. To turn off the highbeam headlights, pull the lever to the middle position. With the lowbeam headlights on, pull the lever towards you to ash the high-beam headlights momentarily. When the high-beam headlights are on, a blue tell-tale illuminates on the instrument cluster.



Turn Signals

The turn signal lever is mounted on the left-hand side of the steering column. Moving the turn signal lever down activates the left turn signal lights; moving it up activates the right turn signal lights. The lever is a self-canceling combination turn signal, windshield wiper/washer switch, and high-beam headlight control unit. When a turn signal is activated, a green indicator arrow ashes at the far left or far right of the instrument panel. The lever automatically returns to the neutral position (self-cancels the switch) when the steering wheel returns to the straight-ahead position after a turn. To cancel the signal manually, move the lever to the neutral position.

Windshield Wiper Controls

Do not attempt to manually move the windshield wiper arms. Wiper motor damage will occur if the arms are forcibly moved.

The windshield wipers and washer controls are on the multi-function turn signal lever on the left-hand side of the steering column. The wipers are operated by a rotary switch on the turn signal lever. There are ve settings, marked on the dial by symbols for off, two intermittent settings, and two continuous speeds.

Turn the wipers on by rotating the rotary switch up. Rotate the switch further to increase the speed of the wipers through the two intermittent settings, then to low and high speeds. Rotate the switch down to slow the wipers down. Rotate the switch as far down as it will go to turn the wipers off.

The windshield washer button is located at the end of the turn signal lever. Momentarily press the wind-shield washer button to initiate a single wipe without activating the washer pump. The wipers will swipe one full cycle and return to the inactive position. To operate the windshield washers, press and hold the button in. After a short delay, the washer will pump windshield washer uid onto the windshield for as long as the washer button is pressed. The windshield wipers will turn on at low speed while the washer button is pressed. After the button is released, the wipers will continue to operate for one to several wipe cycles, depending on how long the wash button was pressed initially.

Source(s): Freightliner Recreational Vehicle Chassis Operation Manual (MAR 2021)

Freightliner Keyless Ignition Quick Start Guide

This article provides a quick start guide for a Freightliner coach equipped with a push button start ignition system (2018 and newer). This vehicle ignition/starting system utilizes an electronic key fob in lieu of a mechanical key. The push button switch is used to activate accessory and ignition power and control the starting of the engine.

Key Fob

Operational Function	Button
Front Entry Door Lock	Top Button
Front Entry Door Unlock	2nd Button
Cargo Doors Lock	3rd Button (#1)
Cargo Doors Unlock	Bottom Button (#2)



Namsung Key Fob Battery Replacement

When the ignition is active and the smart key fob battery is between 1 to 2.15V, the instrument cluster will display "Check Battery." This alerts the driver that the smart key fob battery needs to be replaced.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle

A NOTICE

When replacing the battery, be aware that static electricity can damage the inner circuit

of the smart key fob. Operational interference of the smart key fob can occur from the use of incorrect batteries. When replacing the battery, use only battery type CR2032. Once the battery is replaced, check the smart key fob for proper operation.

- 1. Press the small round silver tab on the FOB to pull out the mechanical key.
- 2. Insert the tip of the mechanical key into the front section of the slot and gently twist to separate the FOB case.



- 3. Access the battery compartment and remove the old battery. Replace with the new CR2032 battery and install in the proper orientation.
- 4. Reassemble and gently snap both sides of the FOB together. Insert the mechanical key fully into the slot until it snaps in place.



Source(s): Namsung Push to Start Battery Replacement

Alternate Starting Process

When the primary starting sequence is not operating as expected, the alternate method is required when any of the following conditions are true:

- Smart Key Fob battery is dead
- Smart Key Fob is not working correctly
- Primary Brake air tank is empty

Use the lock button end of the Smart Key Fob to contact the engine **START/STOP** button directly. A single press of the engine **START/STOP** button with the Smart Key Fob will change as follows:

• OFF ACC ON OFF

Press and hold the engine **START/STOP** button





for more than one second with the Smart Key Fob to start the engine. The engine can start without depressing the brake pedal, but for your safety, always depress the brake pedal before starting the engine.

CHASSIS

Push Button Switch

Operational Functions	To start a coach with keyless ignition, the key fob must be located within six feet of the dash START button. A NOTICE The chassis disconnect must be in the 'ON' position in order to start a Freightliner coach with keyless ignition.	
To Use ACC Mode Without Starting the Coach	Without pressing the brake pedal (with the key fob within range): Press the START button one time to put the coach into "Accessory" mode. Press the START button two times to turn on the ignition and dash lights.	
To Start the Engine	To start the engine, depress the brake pedal and press the START/STOP ENGINE button with the transmission shifter in neutral (N). If the wait to start lamp is active, a second button press is required to start the engine. MIPORTANT If the engine is cold, the "wait to start" light will display on the dash. The engine will not start until the light disappears.	
To Turn Engine Off	To shut the engine off while the coach is in neutral, press and release the START button. With the coach in drive, press and hold the START button for three seconds.	

Source(s): Freightliner Recreational Vehicle Chassis Operator's Manual 2018 (Driver Controls)

Freightliner OptiView 15" Digital Instrument Panel Quick Start Guide

This article provides an overview of the Freightliner OptiView Instrument Panel.

The OptiView instrument panel provides the driver with engine and vehicle information. It is comprised of standard and optional gauges, an audible alarm, a driver message center, information options (menu structured format), and warning and indicator lamps (also known as telltales). Warning and indicator lamps illuminate in red (danger), amber (caution), green (status advisory), or blue (high-beam headlights active).

MOTICE

The OptiView instrument panel can be customized by Freightliner and Newmar based on the model and year of coach, as well as the available standard and optional equipment. The location of gauges and icons on the instrument panel may vary from what is shown, but the operation of the instrument panel is the same.

Use the quick reference guide below to familiarize yourself with your dash warning lamps, indicators, and gauges.

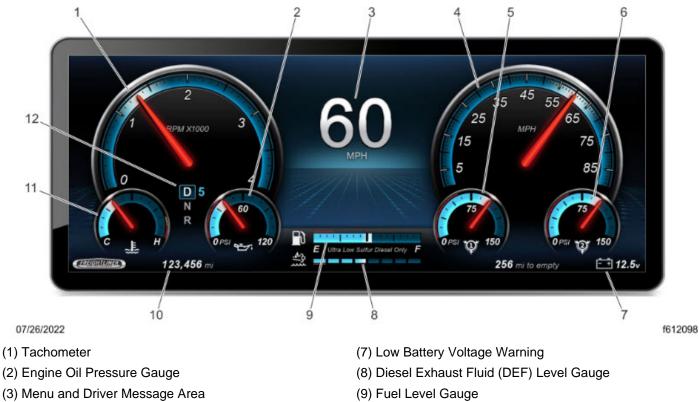
Warning Lamps (EPA 10 and Newer Engines)



- 0//2//2022
- (1) Economy Mode Indicator
- (2) Service Soon
- (3) Steerable Tag Axle Warning
- (4) Malfunction Indicator Lamp (MIL)
- (5) Check Engine Warning
- (6) Left-Turn Indicator
- (7) Step Engine Warning
- (8) Right-Turn Indicator
- (9) Parking Brake On Warning
- (10) Air Brake Warning
- (11) Adaptive Cruise Control Indicator
- (12) Fasten Seat Belt Warning
- (13) Wait to Start Indicator
- (14) Pedestrian Collision Warning
- (15) Low Windshield Washer Fluid Indicator
- (16) Marker Light Indicator
- (17) Automatic Traction Control Indicator
- (18) Headlight/High-Beam/Automatic High-Beam Indicator
- (19) Fog Lamp Indicator
- (20) Electronic Stability Control (ESC) Indicator
- (21) Tire Pressure Monitoring System Indicator
- (22) Forward Collision System Indicator

- (23) Lane Departure Warning
- (24) Low Battery Voltage Warning
- (25) Low Secondary Air Pressure Warning
- (26) Engine RPM
- (27) Cruise Control Indicator
- (28) Low Primary Air Pressure Warning
- (29) Speed Limit Indicator
- (30) Forward Collision Warning
- (31) Low Diesel Exhaust Fluid (DEF) Warning
- (32) Low Fuel Indicator
- (33) Water in Fuel Indicator
- (34) Low Oil Pressure Warning
- (35) Diesel Particulate Filter (DPF) Lamp
- (36) High Exhaust System Temperature (HEST) Lamp
- (37) High Coolant Temperature Warning
- (38) Shift Inhibit Indicator
- (39) Service Transmission Indicator
- (40) Transmission Overheat Warning
- (41) Transmission Warning
- (42) ABS Warning
- (43) Engine Brake Indicator
- (44) Bluetooth Smartphone Indicator

Typical Instrument Panel (EPA 10 and Newer Engines)



- (4) Speedometer
- (5) Primary Air Pressure Gauge
- (6) Secondary Air Pressure Gauge

- (10) Odometer
- (11) Coolant Temperature Gauge
- (12) Gear Shift Position Indicator

SPARTAN

Spartan Chassis Contact Information

This article provides contact information for Spartan Chassis.

Emergency Roadside Assistance

• Phone: 888.890.1741

Recreational Vehicle Owner Support

- Phone: 800.543.4277
- Web: <u>https://www.spartanrvchassis.com/owners/service-support/</u>
- Email: rvcustomerservice@spartanrvchassis.com

Chassis Manuals

Refer to Spartan's Connected Care app for all chassis-related information, including, but not limited to:

- Vehicle Identification
- Dash Instruments, Controls, and Switches
- Steering and Brake Systems
- Driver-Assistance Features
- Emergency Procedures
- Inspection and Maintenance

Material provided by Spartan RV Chassis.

Spartan e-ASK PKE Keyless Ignition Quick Start Guide

This article provides a quick start guide for a Spartan coach equipped with a push-button start ignition system (2019 model year and newer). This vehicle ignition/starting system utilizes an electronic key FOB instead of a mechanical key. The push-button switch is used to activate accessory and ignition power and to control the starting of the engine.

Key FOB (e-FOB Operation and Features)

The FOBs have typical lock/unlock buttons that can be used up to 50 meters depending on architecture and location. For security reasons, RF signals are encrypted using randomly generated numbers. This is what allows the system to start by pressing a button. The system uses the LF/RF messaging to ensure an authorized FOB is within range inside the vehicle. A combination of LF challenges and RF responses delivers low power consumption for long battery life.

Lock All: Locks all doors Unlock Entry: Unlocks entry doors Lock Cargo: Locks the cargo doors (order of section A, B, C, D) Unlock Cargo: Unlocks the cargo doors (order of section A, B, C, D)



FOB Indicator Light and Battery

Pressing a button on the FOB should cause the LED to flash multiple times. The LED will also flash anytime it is located by an antenna. This happens when you start your vehicle and the FOB search near the driver's seat is initiated. It flashes red when a button is pressed on the key FOB and/or when pressing the coach's brake pedal with the key FOB in range. If the indicator light does not flash, check the key FOB's battery and replace it if necessary. The FOB is powered by a standard 2032 3V battery. The fob should not lose its programming after a battery change.

NOTE FROM NEWMAR

To replace the key fob battery: Remove the screw on the back of the remote using a Phillips head screwdriver. Pull or pry apart the housing. Separate the elastomer. Push the battery out of the battery holder, and replace it with a fresh battery. Reassemble the fob.

Push Button Switch

Operational Functions	START STOP	 Turn on, start, and turn off the vehicle. Green/amber lamp for driver feedback.
Green Lamp	START STOP	 Indicates valid key authentication. Flashes three times when the key is not found. If the coach will not start and the indicator blinks green, hold the key FOB up to the ignition button to see if the coach starts. It may be necessary to place the key FOB on the dash while cycling the rear chassis battery disconnect for five minutes. Then turn on the coach to allow the key FOB to be re-authenticated. If the key FOB does not open the doors, this may be an indication of a low battery in the key FOB.
Amber Lamp	START STOP	 Indicates vehicle power is ON in ACC and IGN modes. The lamp is off to avoid driver annoyance while the vehicle is running. Flashes five times to indicate an issue with the ignition system. A call for service may be required.

System Operation

To Use IGN or ACC Modes Without Starting the Coach

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

Press the button once to put the vehicle into ACC mode. Press the button again to put the vehicle into IGN mode. Press the button again to turn ACC and IGN mode OFF.

To Start the Engine

To start a coach with keyless ignition, the key FOB must be located within three or four feet of the dash **START** button. Activate the ACC mode, and allow the dash instrument cluster to illuminate and the "Wait to Start" indicator on the dash to turn off, then proceed with the following steps:

- 1. Depress and hold service brake. Authentication occurs GREEN lamp ON.
- 2. Hold the button for longer than 1.5 seconds. Engine cranks and starts.
- 3. Release button and service brake.

Manual Start Switch

NOTE FROM NEWMAR

Some 2024 and newer coaches equipped with a keyless ignition system may also have a key-operated manual start switch located on the underside of the dash below the push-to-start switch. The switch is provided by Spartan as an alternative to start the coach if there is an issue with the passive keyless start system, allowing the coach to still be driven until the system can be serviced.

To Turn the Engine Off

- 1. Depress and hold service brake.
- 2. Place transmission in Neutral.
- 3. Press and release button.
- 4. Engine stops.

Standard Operating Procedure

Push to Start: Pressing the engine start button will begin the process of detecting a FOB in range (J11P2 active). Our system will [check] the area of the driver. If the FOB is in range, it will respond with a single blink. If the FOB is authorized, our system will tell the motor that it may start.

Running: Once running, the FOB is not required to keep the vehicle running. Note: You can drive away without your FOB in the vehicle. Without the FOB, you will not be able to start the vehicle again using the push button start switch.

Shutdown: With your vehicle in park, a short press of the start/stop button will turn off the vehicle.

Locking (typical): Press and hold the Button 1 button on the keypad or press the lock function on the FOB.

Unlocking Entrance (typical): Type the five-digit code followed by the 1 button or press the unlock function on the FOB.

Note: Programming new codes into your keypad can be found in section Keypad Operation and Features (36444-03) -Section 3 under Teaching Keypad New Authority / Access Codes. This information is located within the "500-1300 Trimark Passive Keyless Entry System Instructions on Spartan Chassis AUG 2019 REV 4" file in Newgle.

Auto-Lock/Unlock: The parking brake is monitored to utilize this auto-locking feature:

- Whenever the vehicle parking brake activates, a timer is started. Seven seconds later a lock-all sequence is done.
- Whenever the vehicle parking brake activates, the entrance door is unlocked.

Auto Locking

Parking Brake		Description
Engaged	Active	The parking brake is active and the vehicle cannot move. The vehicle is considered "not in use."
Disengaged		The vehicle will move if no other brakes are applied. The vehicle is considered "in use." This is usually caused by putting the vehicle into gear.

Alarm Functionality

Note: This section only applies to coaches equipped with a security package.



Arming the Alarm	Performing a "lock all" with the touchpad or the key FOB will attempt to set the alarm. The word "attempt" is used above because several conditions can block the alarm from being armed:	 Parking brake not set (in gear) Pressing the button to start the vehicle Any security inputs are in the active state Any door ajar inputs are in the active state
Feedback	If you activate the alarm from the keypad, the system will send a single pulse to the headlights.	If you activate the alarm from the FOB, the system will send a single pulse to the headlights. If you fail to activate, the lights will flash 3 times.
Disarming the Alarm	The alarm system will immediately be disarmed if one of the following things occurs:	 You start the engine Any unlock signal The vehicle is put into gear
Canceling the Alarm	Any of these conditions will cancel an active alarm:	 The vehicle is put into gear The engine is started An unlock command of any door/compartment The alarm timer expires
Tripping the Alarm	After arming the alarm, if the security input (J1P13) or any of the door ajar inputs are tripped, the alarm will activate.	When active, the siren will go off and the headlights will flash for one minute.

NOTE FROM NEWMAR

- Locking the coach using the key FOB automatically sets the alarm, as long as all doors are closed.
- Newmar does not program the alarm for an "audible chirp." Instead, the headlights will flash once (single pulse) to indicate when the locks/alarms have been set. The headlights will flash three times (triple pulse) if the security system fails to set.
- If the coach is equipped with a motion sensor, it is armed with the alarm unless the motion sensor or security sensors are turned off via the switch in the dash area.
- If the user locks the coach via the key FOB while inside the coach and proceeds to open the entry door or walk near the motion detector while it is active, the alarm will go off.
- If the user wants to lock the coach without the alarm, the coach can be manually locked via the entry door's lock assembly, the door lock switch in the dash or passenger side console area, and/or the SilverLeaf system (if equipped).
- If the siren/alarm is active, the alarm can be stopped while using the remote to unlock and/or activate the ignition, or by releasing the parking brake.



Source(s): 500-1300 Trimark Passive Keyless Entry System Instructions on Spartan Chassis AUG 2019 REV 4 Product(s): This source is associated with more than one product. Refer to Newgle for more information about the product(s) offered for your coach's model year.

Spartan Valid Instrument Cluster 15" Display (Glass Dash) Quick Start Guide

This article provides a quick reference guide for the indicators and gauges on the Spartan Valid Instrument Cluster 15" Display (Glass Dash). This information is only relevant to select high-line coaches built on a Spartan chassis.

Overview

The Valid Instrument Cluster is a display device that communicates with multiple pieces of equipment on the coach. A selectable display in the center provides a menu system which is navigated by using the up, down, back, and OK keys on the steering wheel.

Selectable display items include: Display brightness, Alarm messages, Settings, Odometer and fuel economy, Trip 1 and Trip 2, Selectable information gauges, Tire pressure and temperature for coach and trailer, Adaptive cruise control.

With the coach stopped and the park brake applied, the Setting menu also provides the following items: Choice of towable trailer/vehicle for the Tire Pressure Monitoring System (TPMS), Sound volume for alerts, Measurement units for speed/distance, temperature and pressure, Diagnostics for system, onboard diagnostics (OBD), and controller area network (CAN-Bus).

The display will automatically dim for nighttime driving when the marker lights and headlights are turned on.

NOTE FROM NEWMAR

The Valid glass dash instrument panel can be customized by Spartan and Newmar based on the model and year of the coach, as well as the available standard and optional equipment. The location of gauges and icons on the instrument panel may vary from what is shown, but the operation of the instrument panel is the same.

Safety

A WARNING

Driving while distracted can result in the loss of vehicle control. Do not make adjustments in the selectable display on the Valid Instrument Cluster under conditions that will affect personal safety or the safety of others.

A CAUTION

The Valid Instrument Cluster should be serviced only by qualified personnel.

Navigate the Display

Steering Wheel Buttons

The buttons on the right side of the steering wheel are connected directly to the Valid Instrument Cluster.

- Home go to the main screen.
- Enter (OK) make a selection.
- Back go back one screen.
- Up scroll up in a list of selections.
- Down scroll down in a list of selections.

Display

The selectable display, located in the center of the screen, is controlled by the menu tabs to the left. Move up and down the tabs by using the up and down buttons on the steering wheel control. Each tab has a different display in the center.

Note: Some items are available only when the park brake is set or the vehicle speed is 0 MPH (0 KM/H).

Use the up and down arrow keys on the right-hand steering wheel paddle to navigate through the Selectable Display. The items listed below can be displayed in the selectable area: Air leveling, Brightness, Messages, Settings, Trip, Info, TPMS (Tire Pressure Monitoring System), ACC (Adaptive Cruise Control).

Clean the Valid Instrument Cluster Screen



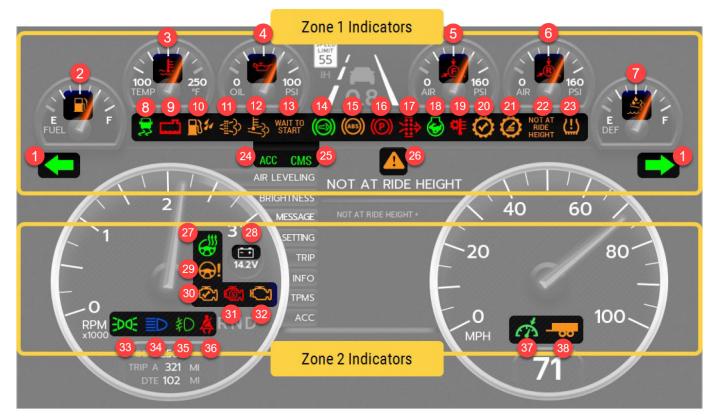
The glass on the Valid Instrument Cluster screen is treated with an optical coating to prevent glare and reflection. It should be cleaned only with a suitable product, such as the optical wipes included with the screen, or optical cleaner and a microfiber cloth.

WARNING

The screen surface can be damaged if not treated with care.

Indicators

The indicators displayed on the Valid Instrument Cluster are described [below]. Descriptions are grouped by zone.



ID Name

- 1 Turn Signal
- 2 Low Fuel
- 3 High Coolant Temperature
- 4 Low Oil Pressure
- 5 Front Service Tank Pressure
- 6 Rear Service Tank Pressure
- 7 Low DEF
- 8 Automatic Traction Control
- 9 Low Coolant
- **10** Water in Fuel
- **11** Diesel Particulate Filter
- 12 High Exhaust Temperature
- 13 Wait to Start

ID Name

- 14 Auxiliary Brake
- 15 Anti-Lock brake System
- 16 Park Brake On
- 17 Restricted Air Filter
- 18 High Idle
- 19 High Transmission Temperature
- 20 Check Transmission
- 21 Transmission Range Inhibit
- 22 Coach Suspension Not at Ride Height
- 23 TPMS Fault
- **24** Adaptive Cruise Control (if equipped)
- 25 Collision Mitigation System (if equipped)
- 26 Information, Caution, or Critical Alarm Message

ID Name

- 27 Heated Steering Wheel (if
- equipped)
- 28 Low / High Battery
- 29 Column Fault
- 30 Check Engine
- 31 Stop Engine
- 32 Malfunction Indicator Lamp (MIL)
- 33 Marker Lights
- 34 Headlights High Beam
- 35 Fog Lamps
- 36 Seatbelt Not On
- 37 Cruise Control
- 38 Trailer Mode (if equipped)

Gauges



ID Name

- 1 Fuel Level
- 2 Engine Coolant Temperature
- 3 Engine Oil Pressure
- 4 Pneumatic pressure in the secondary (front) service brake circuit
- 5 Pneumatic pressure in the primary (rear) service brake circuit
- 6 DEF Level
- 7 Tachometer
- 8 Transmission Gear

- ID Name
- 9 Odometer
- 10 Speedometer
- 11 Heading, Outside Temperature
- 12 Clock
- 13 Mobileye (if equipped)
- 14 Message Center
- 15 Selectable Display
- 16 OnGuard ACTIVE Collision Mitigation System (if equipped)

For More Information

Refer to Valid's documentation in Newgle for additional details about the following topics: dash navigation, indicators, gauges, selectable display, additional displays (Mobileye, Message Center, OnGuard, Incoming Calls), air leveling, setting menu, TPMS sensor setup, information, caution, and critical messages.

Source(s): Valid Manufacturer Ltd Spartan RV Chassis / Newmar MY2023, 15" Display Valid Instrument Cluster Operation Manual (VDC00945, Rev A July 2022)

Spartan Chassis Steering Wheel (3-Switch Pod), Lighting, and Wiper Controls Operation

This article provides an overview of the steering wheel, headlight controls, and wiper controls on a Spartan Chassis equipped with a 3-switch pod steering wheel and Valid Glass Dash Display. Select models may be equipped with a heated steering wheel activated by a switch located on the dash.

Steering Wheel

The steering wheel offers touch pad switch panels that allow the driver to operate a number of different functions without ever having to take their hands off of the steering wheel. It offers fingertip control of wipers, washers, Xite Infotainment center controls, and dash navigation menu controls.

CHASSIS



(1) Horn: The button for the horn is located in the center of the steering wheel. To sound the horn, press the center of the steering wheel pad.

(2) Phone Control: Steering wheel mounted control for answering, declining, and ending phone calls if a phone is paired with the vehicle's infotainment center via Bluetooth®. Select the green and red phone button for these functions.

(3) Wiper High / Low: Press to activate wipers. When initially turned on, the wipers will be at low speed. Pressing the button, a second time shifts the wipers to high speed. Every time the button is pressed, the wipers alternate between low and high speed.

(4) Wiper Off: The Off Button will turn the wipers off.

(5) Wiper Wash: Press to pump and squirt fluid onto the windshield. If pressed when the wipers are off, the wipers will complete approximately 3 cycles and then turn off again.

(6) Wiper Variable Display: If the button is pressed one time, and not pressed again within 30 seconds, the wipers will 'pulse' – completing only one cycle and repeat every 30 seconds. If the button is pressed a second time within 30 seconds, an ongoing delay wipe function will occur. The delayed time interval between wipe cycles will equal the time interval between when the button was pressed the first and second time. Initiation of any other wiper function will override the variable setting.

(7) Power Telescope Column Adjustment (If equipped): Press down or pull up on the upper toggle to adjust column height up or down.

(8) Power Tilt Column Adjustment (If equipped): Press down or pull up on the lower toggle to adjust tilt of column up or down.

(9) Headlamp Flash: When the headlamps are 'OFF' and this button is pressed, the headlamps will turn on for as long as the button is held. The opposite occurs if the headlamps are 'ON.'

Note: The headlamps can be flashed for signaling purposes by pressing the headlamp flash switch. This switch is located with the steering wheel controls or as a separate switch on the dash, depending on vehicle configuration. This switch will only operate when the ignition system is in the accessory or ignition/run mode.

(10) Marker Lamp Flash: When the marker lamps are 'ON' and this button is pressed, the marker lamps will turn 'OFF' for as long as the button is held. The opposite occurs if the marker lamps are 'OFF.'

Note: The marker lamps can be flashed for signaling purposes by pressing the marker flash switch. This switch will only operate when the ignition system is in the accessory or ignition/run mode.

(11) Media - Source: Change the Source mode (media output) for the Xite Infotainment System.

(12) Media - Play/Pause: Play or Pause the media output for the Xite Infotainment System.

(13) Media - Mute: Mute the media output for the Xite Infotainment System.

(14) Media - Volume Up: Turn up the volume for the media output for the Xite Infotainment System.

(15) Media - Volume Down: Turn down the volume for the media output for the Xite Infotainment System.

(16) Media - Preset Back / Last Song: Go back to the previous preset function or last song for the media output for the Xite Infotainment System.

(17) Media - Preset Forward / Next Song: Go forward to the next preset function or song for the media output for the Xite Infotainment System.

(18) Home: Navigate through the dash menus using the control buttons on the right pod of the steering wheel. Press the HOME button to return to the menus in their original order.

(19) OK: Navigate through the dash menus using the control buttons on the right pod of the steering wheel. Press the OK button to enter the highlighted menu.

(20) Arrow UP: Navigate through the dash menus using the control buttons on the right pod of the steering wheel. Press the UP arrow to highlight a menu.

(21) Arrow DOWN: Navigate through the dash menus using the control buttons on the right pod of the steering wheel. Press the DOWN arrow to highlight a menu.

(22) BACK: Navigate through the dash menus using the control buttons on the right pod of the steering wheel. Press the BACK button to go back to the last menu that was displayed.

(23) Steering Effort Adjustment / Comfort Drive: Press down or pull up on the upper toggle to steering control efforts up or down.

(24) Pedal Adjust: Press down or pull up to move adjustable pedals forward or backward.

Left Steering Stalk

WARNING

Do not use the cruise control system when driving conditions do not permit maintaining a constant speed. such as in heavy traffic or on roads that are winding, icy, snow-covered, slippery, or roads with a loose driving surface. Failure to follow this precaution could cause a collision or loss of vehicle control, possibly resulting in personal injury or property damage.

Cruise Off/On: To enable the Cruise Control function, move the selector switch to the ON position. To disable the Cruise Control function, move the selector switch to the OFF position.

Set Cruise: To use the Cruise Control, move the selector switch to the ON position. To set the speed, press the button on the end of the left steering stalk. Then accelerate to the speed you want, and press the button on the end of the stalk to set the speed.

Cruise Resume/Accelerate: If Cruise Control has been previously disengaged due to brake application, Cruise speeds can be resumed by moving the selector switch to the R/A position.

- To increase Cruise Control speed while cruise is already engaged, move the selector switch to the R/A position and the cruise will accelerate to a higher set position.
- To decrease Cruise Control speed while cruise is already engaged, press and hold the Set button the end of the stalk to decrease the set cruise speed.

High Beam Headlights: With the headlight switch on, pull the stalk toward you to turn the high-beam headlights on and off.

Headlight Controls¹

(A) Automatic Headlamps (if equipped): On models equipped with automatic headlamps, low ambient light levels will activate the headlamp system. A sensor located in the dash detects the amount of ambient light. The headlamps will turn on in this manner only when the ignition system is in the accessory or ignition/run mode. While the headlamps are activated by the Auto Headlamp system, the high beams or the fog lamps may be used.

The Auto Override switch can be used to inhibit this function. When the Auto Override switch is in the ON position, the headlamps will not come on automatically due to low ambient light levels. If the headlamps were active due to low ambient light levels, turning this switch on will deactivate the headlamps. The Auto Override switch will not inhibit operation of the daytime running lamps, and it will not prevent the headlamps activating with wipers.

Turning the headlamp switch to the Marker or ON position will also override the automatic operation of the headlamps.

(B) Headlamp Switch: The headlamps can be turned on by the headlamp switch. In the first position, the switch will activate the marker, tail, identification, center, and clearance (ICC) lamps. The second position will activate the headlamps. While the headlamps are active, the turn signal lever can be pulled towards the driver to toggle between high and low beam operation. While vehicle ignition is on, an indicator in the instrument panel will be active whenever the high beam lamps are on.





(C) Fog Lamps: The fog lamps can be turned on by the fog lamp switch or by pulling the center of the rotary style headlight switch. Fog lamps will only operate when the marker lamps or the headlamps are on. The fog lamps will not operate while the high beam lamps are active.

(D) Bright / Dim: To control the brightness of the dash, use the bright/dim switch located near the headlamp switch. This may be a separate switch on some coaches and may be part of the headlight switch on others.

(F): Automatic High Beam Control (Bright) Headlights: When in Resume position, the high beams will operate based on the sensor. When in the Cancel position, the high beams are manually operated using the turn signal stalk.

Daytime Running Lamps (DRL)

When the park brake is released, the low beam lamps or LED lights will activate as daytime running lamps. This is dependent on the option installed. The high beam lamps will not operate while the DRLs are active.

Headlamps with Wipers

The headlamps and marker lamps will come on whenever the wiper system is active and the park brake is released. The wiper system will activate the headlamps in low, high, or intermittent mode. The wiper wash function will not activate the headlamps. While the headlamp system is activated by the wipers, the high beams or the fog lamps may be used.

¹Source(s): Spartan Motorhome Chassis Operation and Maintenance Manual Rev 29.0

Spartan Chassis Recommended Tow Procedures

This article provides the recommended tow procedures provided to Newmar by Spartan in August 2017.

Coach Information

- Gross Vehicle Weight Rating (GVWR)
- Gross Axle Weight Rating Front (GAWRF)
- Overall height of vehicle at ride height (includes A/C, satellite, etc.)
- Overall length of vehicle
- Front overhang measurement (center front wheel to front of coach)
- Ground to coach body measurement at front tire
- Type of front suspension (straight axle or IFS)
- Steer axle tire size
- Is coach capable of holding air?

Towing Information

Flat bed or Low boy

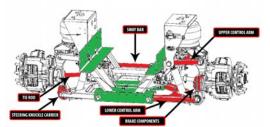
- Typically only used in heavy damage or complete air failures
- Verify approach angle to load vehicle will not damage body throughout loading process
- Remove rear stone guard before loading vehicle
- · Measure total height of coach once loaded onto trailer

Tow Truck

- Wheel lift is preferred but frame/cradle lift is acceptable ALWAYS tow vehicle from the front
- Remove rear stone guard before loading vehicle
- Verify air suspension will hold air (never tow vehicle with air springs deflated)
- · Verify front tow mounting will not damage other vehicle components
- Drive shaft must be completely removed before towing
- The driveshaft must be marked for spline phasing and front/rear orientation before removal. Provide auxiliary air source from tow truck to vehicle being towed
- Verify parking brakes will stay released, if not, the spring brakes will need to be caged
- Ignition switch in vehicle must be in OFF position while towing
- · Re-install drive shaft using marks made during removal, install new straps and torque bolts
- 1/4 -28 = 13-18 ft.lbs., 5/16 -24= 30-35 ft.lbs., 3/8 24=45-60 ft.lbs., 1/2 -20=115-135 ft.lbs.







The chassis frame and suspension cradle (shown in green) are the proper lift points for towing.

WARNING

Do not attach tow apparatus (Hooks, Chains, Straps, etc.) to suspension upper and lower control arms, sway arms, sway brackets, brake components, tie rods, steering arms, or steering knuckle carrier assemblies.



DISCLAIMER: In no event shall Spartan Motors be responsible or liable for any claim, loss or damage of any kind whatsoever, whether or not forseeable, suffered as a result of towing a vehicle. Nothing contained herein shall operate as an assumption of any risk on the part of Spartan Motors relating to towing of a vehicle.

COLLISION WARNING SYSTEMS

Mobileye Collision Warning System Quick Start (Model: 8 Series)

This article provides basic operation instructions for the optional Mobileye Collision Warning System (Model: 8 Series).

Some of these settings may be locked.

NOTE FROM NEWMAR

Depending on the coach model and year, this information may be displayed on Mobileye's round remote monitor or integrated into the Xite Infotainment and/or chassis digital dashboard.

For more information, contact Mobileye at (877) 867-4900.

FEATURE	IMAGE	EXPLANATION	ADJUSTMENT
Forward Collision Warning Urban Forward Collision Warning		 Red vehicle icon warns of an imminent rear-end collision up to 2.5 seconds before. Active at any speed. Same red vehicle icon warns of a possible low speed collision, under 19 MPH. This alert is differentiated from the FCW by the sound of the alert. UFCW alerts with a double-beep vs. FCW which alerts with a series of beeps. This feature acts as a virtual bumper as well. 	This alert cannot be adjusted, disabled or muted. If system is turned off, no warnings will be issued.
Lane Departure Warning	1	 Alerts when vehicle departs from driving lane without turn signals. Yellow lane icon appears when not active, white lane icon appears when active. Displays both lanes at all times. Dashed lane marking for departure side. Active above 25 MPH Newmar Note: On select models, a haptic feedback feature will vibrate the seat to alert the driver. 	To Adjust Mobileye System, please refer to settings menus. 0 =OFF; 1 =ON
Headway Monitoring and Warning	1 0.6	 Displays the amount of time, in seconds, to the vehicle in front when that time becomes 2.5 seconds or less. Green vehicle icon signifies safe headway; icon becomes red when headway time is 0.6 seconds or less. Note: If numbers appear dim that is an indication of low visibility conditions (bad weather, direct sunlight, dirt on windshield, etc.). System continues to work but there may be diminished detection ability. 	To Adjust Mobileye System, please refer to settings menus. Available levels: 0.1-2.5 seconds.

Pedestrian Collision Warning Pedestrian Detection Warning	*	 Red pedestrian icon warns of an imminent collision with a pedestrian or bicyclist. Active under 31 MPH. Green pedestrian icon appears in area defined as the "Danger Zone". Time to collision is not critical, no audio alert. 	This alert cannot be adjusted or disabled.
Intelligent High-Beam Control (Optional)		 Automatically turns the high-beams on/off depending upon the level of light and relative distance from other traffic. Green icon signifies the control is enabled. Blue icon signifies the feature is active. Active above 28 MPH. 	To adjust Mobileye System, please refer to settings menus. 0 = OFF; 1 = ON
Speed Limit Sign (Optional)	Steep Loop 55	 Speed Limit Sign flashes when vehicle exceeds speed limit. Detected speed limit sign is shown as a large icon for one second, then minimizes and is shown as last posted speed sign. Vehicle's current speed can be displayed in upper right hand corner (optional feature). Last known Speed Limit Sign can be displayed in upper left hand corner (optional feature). 	To adjust Mobileye System, please refer to settings menus. There are 6 available levels.

Source(s): XiteSolutions Mobileye Quick Reference Guide (V. 20190122.01) and RiverPark

Meritor Wabco OnGuardACTIVE Collision Mitigation System Quick Start

This article provides brief operation instructions for a Meritor Wabco OnGuardACTIVE Collision Mitigation System.

Overview

WABCO's OnGuard ACTIVE is a radar-based active safety system that offers Adaptive Cruise Control, Forward Collision Warning, and Collision Mitigation. OnGuard ACTIVE detects objects ahead and measures the vehicle's position and speed in relation to other vehicles on the road to warn the driver of a possible collision by providing audible, visual, and haptic warnings. The system will apply the brakes to reduce the risks and severity of rear-end collisions.

OnGuard ACTIVE is not intended to replace driver control of the vehicle at any time. You, as the driver, remain in control of your vehicle and determine the actions that are necessary for safe operation.

Adaptive Cruise Control



Adaptive Cruise Control (ACC) automatically adjusts the speed of your vehicle while in cruise control and attempts to maintain a set following an interval of 3.6 seconds when there is a vehicle ahead. ACC works with conventional cruise control to maintain the set cruise speed when the lane ahead is clear and will automatically adjust the vehicle's speed to maintain the set following interval when a vehicle ahead is detected.

Collision Mitigation System

OnGuard ACTIVE's Collision Mitigation System (CMS) assists the driver in recognizing and responding to dangerous driving scenarios that could lead to a rear-end collision. The system responds by sending warnings, automatically reducing engine torque, and applying foundation brakes. OnGuard ACTIVE's CMS provides both visual and audible alerts through an in-cab dash display. If a potential collision is developing and the driver does not take action to decelerate the vehicle, OnGuard ACTIVE's active braking feature issues a haptic warning (short brake pulse) and automatically de-throttles the engine. If a potential collision still exists, and the driver still has not taken the appropriate action, OnGuard ACTIVE's CMS will apply the foundation brakes. When OnGuard ACTIVE applies your vehicle's brakes, your brake lights will come on.

The active braking application is intended to assist the driver to avoid or reduce the severity of a rear-end collision. The driver must take the appropriate corrective action in response to the collision warning. OnGuard ACTIVE warnings will not be issued below a vehicle speed of 15 mph.

Safe Vehicle Operation

Multiple factors can affect set following intervals and create additional driving considerations. When operating a vehicle with the OnGuard ACTIVE Collision Mitigation System, it is important to remember:

- OnGuard ACTIVE should only be considered as an aid and is not intended to replace driver control over the vehicle at any time.
- Like cruise control in general, ACC should not be used when weather, road surface, or conditions require longer following intervals and your full control over the speed of the vehicle. Such conditions may include snow, sleet, rain, fog, icing, etc.
- When operating your vehicle, always use safe driving techniques. The driver is always the most important element in safe vehicle operation.
- OnGuard ACTIVE is only intended to assist reaction and response time. OnGuard ACTIVE is not a substitute for proper driver braking and should be considered only as a driver assistance system.

Unintended Events

The OnGuard ACTIVE collision mitigation system is engineered to prevent and/or mitigate as many accidents as possible. Radar technology is not perfect; in every system, it is possible that an unintended braking event may occur.

In the rare event that you experience a false alert or unintended braking event, you may experience the following sequence of events:

- Less than 0.4 seconds of braking.
- The truck and trailer brake lights will illuminate.
- Your OnGuard ACTIVE display screen will change to a collision warning (red).
- Your OnGuard ACTIVE display screen will change to a collision warning (red) and issue a short audible warning.
- If you do not have ACC engaged, you can apply the throttle and continue on your way.
- If ACC is engaged, depending on your vehicle configuration, you may have to simply reapply the cruise control button or turn ACC off and back on again. It is possible that you may lose the ability to throttle the vehicle for a short time (a couple of seconds).

A WARNING

OnGuard is designed to create high vehicle deceleration (without driver intervention) in certain situations. To reduce the risk of injuries caused during OnGuard-activated vehicle deceleration, all vehicle occupants should be correctly seated and properly belted or restrained during vehicle operation. All loose items should be secured so that they will not fly forward and cause injury during a deceleration event. The use of OnGuard in vehicles not equipped with seat belts may expose non-belted passengers to injuries due to system-initiated sudden vehicle deceleration, despite vehicle compliance with applicable safety standards.

System Limitations

The OnGuard ACTIVE CMS brakes for moving and stationary objects located directly in front of your vehicle and does not operate when your speed is less than 15 mph or over 77 mph. Accordingly, OnGuard ACTIVE:

- Will not react and alert you to objects crossing in front of you or oncoming traffic.
- Should not be relied on to track lead vehicles when traveling through a severe curve or winding road.
- Should not be relied upon to track smaller objects (e.g. motorcycles, mopeds, bicycles, pedestrians, etc.)
- Should not be relied on to alert drivers to vehicles in an adjacent lane.

Drivers should take into account the road conditions, and any other factors they are encountering, as they choose how to react to any alerts they receive from the OnGuard ACTIVE system.

Blockage Detection

The sensor can detect whether it is blocked based on the number of objects present. This can be caused by snow, ice, heavy rain, or even a bull bar in front of the vehicle. If a blockage is detected, the radar will output a corresponding fault code. This fault code remains active until the radar successfully detects a clear field of view again. Switching the ignition off and on does not delete this fault code.

Blocking detection only works while the vehicle is in motion, i.e. during a standstill a blockage is not identified and a corresponding activation fault is not reset. There are two different types of blockage:

- complete blockage, i. e. the radar sensor does not detect any object at all
- a reduced detection range, i.e. the radar loses almost all objects in short distances (this can be caused by heavy rain or snowfall, for example)

Detection of a complete blockage takes 2 minutes while driving at speeds above 20 km/h. A blockage caused by a range reduction due to bad weather conditions (snow, rain) can take longer depending on the conditions.

Driving in areas without traffic ahead and almost without objects at the roadside (e.g. desert-like regions) can also lead to a blocking error because the radar does not detect any objects.

Source(s): OnGuard Active Collision Mitigation System Driver Tips; OnGuard Active System Description Version 1 (08.2017)

FUEL SYSTEMS

Chassis Diesel Engine Fuel Overview

This article provides information regarding the chassis diesel engine fuel, fuel filler cap, and the refueling process.

IMPORTANT

Consult your chassis manufacturer information about your recommended fuel and fuel blends, additives, and maintenance requirements.

CALIFORNIA Proposition 65: Breathing diesel engine exhaust exposes you to chemicals known to the State of California to cause cancer and birth defects or other reproductive harm.

- Always start and operate the engine in a well-ventilated area.
- If in an enclosed area, vent the exhaust to the outside.
- Do not modify or tamper with the exhaust system.
- Do not idle the engine except as necessary.

For more information, go to <u>www.P65warnings.ca.gov/diesel</u>.

Refueling/Filling the Tank

The fuel gauge indicates the amount of fuel remaining in the fuel tank. Avoid running out of fuel. When fueling your vehicle:

- 1. Put your vehicle in park (P) or neutral (N) with the park brake set (depending on coach type).
- 2. Switch the engine off.
- 3. Remove the fuel cap by rotating it in a counterclockwise motion until it spins off.
- 4. Pull to remove the cap.
- 5. Select the proper grade of fuel as specified by the engine manufacturer and fill.

Reminder: For coaches requiring diesel exhaust fluid (DEF), check the DEF level each time the coach is refueled.

A DANGER

All pilot lights, appliances, and their igniters (see operating instructions) shall be turned off before refueling of motor fuel tanks and/or propane containers. Can cause ignition of flammable vapors, which can lead to a fire or explosion and result in death or serious injury.

WARNING

Never fill fuel tanks to more than 95 percent of their liquid capacity. This could make them more likely to rupture from impact possibly causing fire and resulting in serious personal injury and death by burning. Do not mix gasoline or alcohol with diesel fuel. This mixture could cause an explosion, possibly resulting in serious personal injury or death. Do not fill the fuel tanks in the presence of sparks, open ames, or intense heat. These could ignite the fuel, possibly causing severe burns.

Diesel Exhaust Fluid (DEF) Overview for Class A Diesel Coaches

This article provides an overview about the DEF tank installed on a Class A diesel coach. Diesel exhaust fluid (DEF) is designed for use in diesel engine emissions systems and helps protect the environment from harmful contaminants.





The DEF tank will require filling a minimum of approximately every second diesel refuel depending on the DEF tank capacity. 10, 13, and 15-gallon tank capacities are available.

To find out the tank capacity of a coach, please contact the chassis manufacturer, as Newmar does not have this information available.

DEF consumption is approximately 2% of fuel consumption, dependent on vehicle operation.

For every 50 gallons of diesel fuel consumed, approximately 1 gallon of DEF will be consumed.

Some vehicles are equipped with a remote DEF fill-port. If so equipped, the remote port is directly opposite the DEF tank on the other side of the vehicle, and has a blue cap over the fill-port. DEF parts, such as the fill cap or tank, are supplied by the chassis manufacturer and are not available via the Newmar Parts Department.

MPORTANT

DEF consumption varies depending on ambient conditions and vehicle application.

Auxiliary Compressed Air Fitting on Diesel Pusher Coaches

This article provides an operational overview of the coach's air system connection on a diesel pusher coach.

Rear Air Fitting Overview

An auxiliary compressed air fitting is supplied at the rear of the coach in the engine compartment on select diesel pusher coaches. This connection can be used to either inflate the air system from an outside source (such as a shop air compressor) or to use the coach's air system and a hose to inflate floats, bike tires, or car tires.

If necessary, the compressor can be used to inflate a coach tire in an emergency when other sources of compressed air are unavailable; however, it will take some time due to low air pressure.

When using air from the connection, the engine should be running to operate the compressor. The air pressure is regulated by the air governor for the chassis air system. The approximate pressure can be monitored by the gauges on the dash. The air connections are supplied and plumbed by the chassis manufacturer.

You may not have enough air pressure to properly inflate tires, but you should be able to get enough to drive to the nearest tire service center.

Front Air Fitting Overview

Many coaches also have a connection at the front of the coach under the hood near the generator on the driver side. This connection (on some coaches) will only allow air pressure to be used as a customer connection for external use and will not allow compressed air to enter the system. Coaches plumbed in this manner will have an additional Schrader valve port to allow pressurization during production.





LEVELING SYSTEMS

Leveling System Overview

This article provides an overview of the leveling systems installed in a Newmar coach.

WARNING

Do not lift the wheels off of the ground while leveling the coach. The vehicle may drop and/or move forward or backward without warning, which may cause serious injury or death.

Never attempt to move the unit with the leveling jacks deployed. Always visually inspect the jacks prior to moving to ensure they are fully retracted, are in the stored position, and the system is turned OFF.

WARNING

Be sure the ground on which you are parked will support the weight of your unit. Often material that seems "safe" to level on will not support the weight at the leveling jack points. Use caution when leveling on hot asphalt, sand, and grass, as the weight of the unit may cause the jacks to sink into the ground. Pads may need to be placed under the jacks to spread the weight over a larger area. Always look under your unit prior to leveling to make sure the jacks are clear of debris and other foreign materials that may interfere with leveling.

Never operate any leveling system with a person or pet under the unit. Serious injury or death may result!

Care and Maintenance

IMPORTANT

The leveling system should be cycled at least once a month to keep the system in operating condition.

Leveling and Full Wall Slideout Sequence of Operation

This article provides step-by-step instructions for leveling the coach and operating the slideouts.

IMPORTANT

In the past, Newmar has recommended leveling the coach prior to deploying the slideouts. As of 2015, Newmar makes the following recommendation for the extension and retraction of slideouts. The following sequence of operation relates to ALL coach years and models.

Motorhomes, like all vehicles, flex in travel. Flexing may be different due to terrain and the coach's fulcrums (resting on tires or jacks). As the coach flexes, this movement is more noticeable in the outside reveal on a wider slideout.

Extending the Slideouts and Leveling the Coach

- 1. Park the coach on a reasonably level campsite.
- 2. Leave the coach at ride-height with air in the air bags (if equipped with air suspension) or on normal suspension (coaches without air suspension).
- 3. Plug the coach into shore power (if available) or start the generator to increase the voltage for better slideout operation.
- 4. Look at the "reveal" or "gap" of the two vertical wall trims around the slideouts to make sure there is plenty of clearance so the trim will not rub when extending the slideout. If the gap looks good, then the slideout can be operated. Most often, the gap will look best when sitting on the tires with the air suspension inflated (at rideheight), and not on the jacks.

IMPORTANT

In the unlikely occasion that the slideout trim has inadequate clearances, try leveling or repositioning the coach and rechecking the clearances before extending the slideout.



INSTRUCTIONS

- 5. Close all compartment doors, and verify that the path of the slideout is unobstructed and free from any surrounding objects, both inside and outside of the coach.
- 6. Once the appropriate conditions are met, follow the operating instructions posted in your coach to extend the slideouts (image for example only).
- 7. Dump the air suspension (if equipped). This step is included in the auto-leveling process for most coaches.
- 8. Deploy the leveling jacks. (Refer to the leveling system manufacturer's documentation for complete operation instructions.)



To extend the jacks, the ignition may need to be in the engine run or on position and the park brake may need to be applied. If these conditions are not met, you may hear a deny tone from the leveling system keypad and the jacks may not deploy.

Retracting the Jacks and Slideouts

- 1. Retract the leveling jacks.
- 2. Start the coach.
- 3. Allow the coach air suspension to fill and return to ride height (units without air suspension will return to normal suspension).
- 4. Turn the engine off.
- 5. Close all compartment doors, and verify that the path of the slideout is unobstructed and free from any surrounding objects, both inside and outside of the coach, including any water or debris that may have collected on the slideout roof or the topper awning. Note: If pooling has occurred after rain, one way to remove water on the slideout roof or topper is to tilt the coach using the leveling system to aid in water runoff.)

🛦 IMPORTANT

Debris left on the roof or topper may prevent the slideout from sealing properly when retracted, as well as prevent the mechanical lock arms from closing properly when the slideout is extended.

6. For a full wall slideout, visually inspect the front vertical trim for adequate clearance before complete retraction (when the slideout trim spacing can be observed). The spacing should look even from top to bottom (see image for reference).

IMPORTANT

In the unlikely occasion that the slideout trim has inadequate clearances, try leveling, or if necessary, repositioning the coach, and rechecking the clearances before fully retracting the slideout.

- 7. Retract the slideouts. Inspect all slideouts for complete retraction.
- 8. If the coach is equipped with manual lock arms, make sure to lock them.
- 9. Unplug the coach from shore power when you are ready to depart.

HWH Computerized Leveling System Quick Start (Model: 725 Series)

This article provides step-by-step instructions for operating an HWH computerized leveling system (Model: 725 Series).

MIMPORTANT

It is important to allow the HWH leveling system to run the complete cycle and turn itself off when operating in store mode. The system will completely retract the jacks and turn itself off. If the system is turned off prior to the automatic shut off, there is a chance the jacks have not fully retracted. Also, visually inspect the jacks prior to departure to ensure they have fully retracted and the underside of your coach is ready for travel.

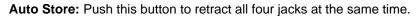
HWH* COMPUTERIZED LEVELING

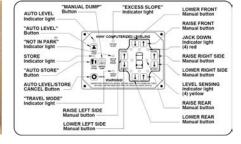
Control Functions

Control Buttons

Cancel: Push this button to stop any leveling system operation.

Auto Level: Push this button any time to start the automatic leveling function.





Manual Dump: This is a manual button for dumping air from the vehicle suspension.

Extend (UP Arrows): These buttons will extend their respective jack pairs to lift the vehicle.

Retract (DOWN Arrows): These buttons will retract their respective jack pairs to lower the vehicle.

Indicator Lights

Auto Level Indicator Light: This light will flash during the automatic leveling function.

Store Indicator Light: This light will flash during the automatic store function.

Excess Slope Light: This indicator will light when the leveling system cannot level the vehicle.

Leveling Lights: The four yellow indicating lights are level sensing indicators. When a yellow light is on, it indicates that its side, end, or corner of the vehicle is low. No more than two lights should be on at the same time. When all four yellow LEVEL lights are out, the vehicle is level.

Warning Lights: The four red lights surrounding the yellow level indicators are jacks down WARNING lights. They are functional only when the ignition is in the "ON" or "ACC" position, the system is on, and the jacks are extended approximately 1 inch.

Not in Park/Brake Light: This indicator will light when the hand/auto brake is not set and the "AUTO LEVEL" button is being pushed.

Travel Mode Light: This indicator light will be on when the ignition is on, when the jacks are retracted, and there are no red WARNING lights on.

Master Jacks Down Warning Light: This is a light mounted in the dash separate from the touch panel. It will be on when any one or more jacks are extended and the ignition is "ON".

Buzzer: This is a jacks down warning. It will sound if the master "JACKS DOWN" warning light is on.

NOTE FROM NEWMAR

The jacks will operate with the key in the ACC or ON position; however, the alarm buzzer will sound if the jacks are down while the key is left in the ON position.

Version MP24.3151, 17FEB21

Fault: HWH has introduced an RV-C diagnostic indicator LED to its newer 725 series touch panels. If a fault in the system is detected, the amber LED will either come on solid or flashing once per second. A solid light indicates a fault that will not disable all HWH functions and will be cleared automatically once the fault goes away. A flashing light indicates a fault that will disable all HWH functions including rooms and steps. Power will need to be cycled by removing the 5A fuse supplying power to the HWH system and reapplied (*or if equipped with the HWH reset switch, press and hold it for five seconds to reset the HWH system*). If the HWH RV-C communications bus is integrated with the coach's RV-C bus, or if a separate diagnostic tool is connected, a more detailed explanation of the fault will be available.

Version MI95.570, 27SEP23

General Instructions

Maintain adequate clearance in all directions for vehicle, room extensions, awnings, doors, steps, etc. Vehicle may move in any direction due to jacks extending or retracting, settling of the jacks or the vehicle, equipment malfunction, etc. If parking on soft ground or asphalt paving, a wood block or pad should be placed under each jack.

Press the "Cancel" button or turn the ignition switch "Off" at any time to stop the operation of the system. Any time a hydraulic leveling process is interrupted, it is recommended to retract the jacks according to the jack retraction section and then restart the leveling process.

If the hand/auto brake is not set when the "Auto Level" button is pressed, the "Not in Park/Brake" light will come on. When the "Auto Level" button is released the "Not in Park/Brake" light will go out. The Automatic Leveling function will not start.

Version MP34.0232, 07AUG13

Preparation for Travel

IMPORTANT

Before traveling, the red jack warning lights must be off, the "Travel Mode" light must be on, and the vehicle should be at the proper height for travel. If lights are not correct for travel, retract jack as described in the Jack Retraction section.

If the jacks are retracted but a red "Warning" light is lit, the system needs to be serviced. Any room extension or generator slide should be fully retracted before traveling.

WARNING

Do not move the vehicle while the leveling jacks are still in contact with the ground or in the extend position. This vehicle is equipped with straight-acting jacks. Moving the vehicle with the leveling jacks extended can cause severe damage to the jacks and/or the vehicle AND create a driving hazard. Do not rely solely upon warning lights. It is the operator's responsibility to check that all jacks are fully retracted into the store/travel position and the vehicle is at the proper ride height for traveling. Contact [Newmar] service before moving a vehicle that is not at proper travel height.

If the jacks cannot be retracted according to the Jack Retraction section, retract the jacks according to the Manual Jack Retraction section. The system should then be checked.

If the vehicle is parked or stored with the jacks extended for an extended period of time and the jacks fail to retract completely, extend the jacks back down to the ground then retract the jacks again.

Version MP34.0232, 07AUG13

Automatic Hydraulic Leveling (HWH Touch Panel Controls)

Place transmission in the recommended position for parking the vehicle and set parking brake. Turn the coach engine

One or two yellow level indicator lights on the leveling system touch panel can be on anytime the vehicle ignition is in the 'On' or 'Accessory' position and the park brake is set.

At this time, the operator may want to check the jacks and place a pad under each jack if the ground will not support the vehicle.

WARNING

Prior to pushing the 'Auto Level' button, the operator must be sure that all persons and objects are clear of the vehicle. Air will be exhausted from the vehicle suspension and the vehicle will lower immediately after the 'Auto Level' button is pushed.

Press the "Auto Level" button one time. After selecting a reasonably level site and making [sure the] site will support unit weight on jacks, the Auto Level light will start to flash. The system will begin to dump air from the vehicle suspension. After approximately 25 seconds, the leveling process will begin.

MPORTANT

During the Automatic Leveling procedures, pushing the 'Auto Level', 'Auto Store,' or the 'Cancel' button on the HWH touch panel will stop the automatic leveling function.

When a jack extends approximately 1 inch, its individual red warning light on the touch panel will come on. The touch panel "Travel Mode" light will go out. If the ignition is in the ON position, the warning buzzer will sound.

Auto Level Sequence

During the automatic leveling sequence, after the system has extended the appropriate jacks to level the vehicle and has turned the yellow level indicator lights off, the system will then stabilize the vehicle.

The slight lift experienced during the stabilizing procedure normally is not sufficient to cause a level issue for the motor home.

Excess Slope Situation

In the event the jacks are unable to level the coach, the "Excess Slope" light will come on. Excess slope is when one or two jacks extend fully without turning the yellow level light out. The system will not stabilize the vehicle if the Excess Slope light comes on. One or more jacks may not be extended. The system will shut off, leaving the Excess Slope light on. The Excess Slope light will remain on for two minutes if the ignition is in the "On" or "Acc" position.

Retract the jacks and move the vehicle to a more level position or level the vehicle as close as possible according to the Manual Hydraulic Operation section. The Auto Store button will function if the Excess Slope light is on. The manual Up and Down arrow buttons will function with the Excess Slope light on. The Auto Level button will not function if the Excess Slope light is on.

Automatic Jack Retraction

Start the engine and press the "Auto Store" button. The store indicator light will flash. The vehicle should start to return to proper ride height. The front jacks will retract for 5 seconds before the rear jacks will begin to retract. As each jack retracts, its red "Warning" light will go out. The system will automatically shut down 1 minute after the four individual red "Warning" lights are out.

WARNING

Do not move the vehicle while the leveling jacks are still in contact with the ground or in the extend position. This vehicle is equipped with straight-acting jacks. Moving the vehicle with the leveling jacks extended can cause severe damage to the jacks and/or the vehicle and create a driving hazard. Do not rely solely upon warning lights. It is the operator's responsibility to check that all jacks are fully retracted into the store/travel position and the vehicle is at the proper ride height.

The vehicle can be moved as soon as the red warning lights are out, the jacks are in the Store/Travel position and the green "Travel" light is on, if the vehicle is at the proper ride height for traveling.

MPORTANT

If a red warning light and buzzer come on while traveling, the jacks should be checked as soon as a safe parking location is found.

Version MP34.2751 060CT20

Manual Hydraulic Operation

Place transmission in the recommended position for parking the vehicle, and set the parking brake. Turn the ignition to the "Accessory" position. Place pads under the jack feet if the ground will not support the vehicle on the jacks. Push the "Dump" button. Wait until all air is exhausted from the vehicle suspension.

The vehicle may be leveled using the manual Extend (up arrow) buttons on the right half of the panel. If a yellow Level Sensing light is on, that side, end, or corner of the vehicle is low. It is best to level the vehicle side to side first, if needed, before front to rear.

Jacks will extend (or retract) in pairs to raise (or lower) a side or end of the vehicle. Any jack not used for leveling can be extended to the ground. This provides additional stability against wind and activity in the vehicle. Jacks used to stabilize the vehicle after leveling is complete should lift the vehicle slightly after touching the ground.

MPORTANT

Do not continue to push an Extend button for more than ten (10) seconds after that pair of jacks are fully extended.

When leveling is completed, turn the ignition switch to the "Off" position.

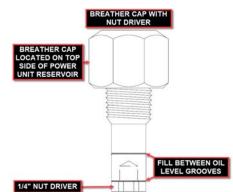
Version MP34.333 07AUG13

Maintenance

Oil Level

All maintenance should be done as part of the normal servicing of the coach. The oil level should be checked when the vehicle is first purchased and then once every two years. More often if there is an oil leak in the system.

Any HWH hydraulic equipment, including jacks, slideouts, and steps should be fully retracted before checking fluid level. The oil reservoir is part of the pump/ manifold assembly. The oil level is checked and filled through the breather cap. Clear any dirt away from the breather/filler cap before removing.



The oil level should be within one inch of the top of the reservoir. Most breather caps have a dipstick. Fluid level should be between the bottom of the dipstick and the center mark.

Overfilling the tank can cause leakage of oil through the breather cap.

NOTE FROM NEWMAR

The hydraulic leveling system was filled with Dexron/Mercon transmission fluid during production. Periodically check the fluid levels in the leveling system when using the breather cap/dipstick. The reservoir level should remain between the oil level grooves when the jacks are retracted. Add fluid as needed. Change the fluid if it becomes contaminated.

IMPORTANT

Prior to removing the breather cap, either to check the oil level or to use a 1/4" nut driver, clean any debris from the top of the reservoir. Before returning the breather cap to the reservoir, remove any paint chips or other debris from the dipstick, including debris inside the 1/4" nut driver.

Version MP44.000A 13NOV17

Source(s): HWH Computer-Controlled 725 Series Leveling System Operator's Manual (ML55155, Rev. 09NOV15)

STEERING SYSTEMS

Comfort Drive[™] Steering (Steering Effort) Overview

This article provides information about Comfort Drive[™], an intelligent steering system that adapts to your inputs while actively working to eliminate friction, creating a self-straightening steering wheel that lets you navigate twists and turns with more confidence and less effort. Features like Newmar's Comfort Drive[™] Steering allow easy maneuverability with just a light grip on the wheel, taking the chore out of driving long distances.

The comfort drive steering function varies based on chassis manufacturer, as well as coach model and year.

Operation

To use the Comfort Drive feature, simply steer the coach like you would any other vehicle, and adjust the settings to suit your preference for steering effort. A lower setting makes the coach easier to steer, whereas a higher setting requires more effort.

Spartan Steering Wheel via 3-Switch Pod Controls

Starting with the 2023 model year, select Spartan coaches (Ventana, Dutch Star, New Aire, Mountain Aire, London Aire, Essex, and King Aire) are equipped with a 3-switch pod steering wheel.

The Comfort Drive setting can be changed using an alternative adjustment toggle switch located behind the right-hand steering wheel pod.

This switch allows the driver to adjust the steering effort without scrolling through the Valid Glass Dash Display menus.

Freightliner Steering Wheel Controls via OmniView Instrument Panel

On select Freightliner coaches, the Comfort Drive setting can be changed using the controls on the left side of the steering wheel. The settings can be viewed and adjusted on the Freightliner OmniView Instrument Panel. From the menu on the instrument panel:

- 1. Navigate to "Vehicle Configuration" on the screen using the up and down arrows.
- 2. Press the "OK" button on the steering wheel to select.
- 3. Navigate to "Steering Effort" on the screen using the up and down arrows.
- 4. Press the "OK" button on the steering wheel to select.
- 5. Use the up (MORE) and down (LESS) arrows to navigate to the desired steering effort setting.
- 6. Press "OK" to select the desired setting. This setting will be memorized in the system and will only need to be changed if the system is reverted to the default setting or if a second driver prefers a higher or lower setting.

Starting with the 2023 model year, select Freightliner coaches (Kountry Star, Ventana, Dutch Star, New Aire) have the steering effort factory-set on the Favorites menu on the Valid Glass Dash menu. The setting can be adjusted using the up and down arrows without scrolling through the Glass Dash menus.





NOTE FROM NEWMAR

Starting with the 2023 model year, the Favorites button will be preset from the factory to quickly access Steering Effort (also known as Comfort Drive). If the Steering Effort does not come up, the Favorites button may have been inadvertently reset. The Favorites button can be reset at any time by pressing and holding it down for five seconds while on the desired setting.

WHEELS AND TIRES

Wheels and Tires Size and D.O.T. Code

This article provides basic information about the wheels and tires, including the tire size, inflation, and D.O.T. codes. Newmar's quality extends to every inch of your coach, right down to the tires and wheels. The durability and longevity of your tires will provide you with the confidence and peace of mind you need to relax and enjoy the ride.

The primary areas of concern are the tire size, inflation, and operational information. The sidewall of the tire contains detailed information about the construction, inflation, and carrying capacity of the tire. Become familiar with this information, and operate the vehicle within the capacity parameters outlined.

A WARNING

Proper tire maintenance is critical to the safety, operation, and durability of your coach. Failure to follow and monitor tire pressure guidelines may result in premature tire failure.

Tire Size

The sidewall of the tire contains information that is important to know to ensure proper use of the tire, as well as to maintain long life. Take the time to become familiar with the size, load rating, and pressure information listed on the sidewalls of the tires.

This tire size is 315 / 80 R 22.5. From this size, we can determine the physical dimensions of the tire, as well as its basic construction. The tire size breaks down like this:

- The first number, "315", is the section width of the tire in millimeters. The section width is the measurement of the tire from the outside sidewall to the inside sidewall.
- The second number is the height of the sidewall, expressed as a percentage of the section width. In this case, the number is "80", so the sidewall height accounts for 80 percent of the tire's section width.
- The "R" in the tire size indicates that this tire is "radial" in construction. The belts are wrapped around the tire in a radial design, from bead to bead.
- The final number is "22.5", which is the rim size the tire was designed to fit. This tire fits a 22.5" diameter wheel.

D.O.T. Code

The last four digits on tires manufactured after the year 2000 signify the week and year of manufacture.

The tire in the example picture was made during the 29th week of 2017.

Tire Care and Maintenance Basics

This article provides information about the care and maintenance of your coach tires, including examples of labels and tire pressure charts. To ensure your tires are operating safely, regularly inspecting your tires and checking your tire pressure is absolutely mandatory.

For specific recommendations related to tire pressure, rotation, or replacement, please contact the tire and/or chassis manufacturer.





Tire Pressure Overview

Tire pressures should be checked and adjusted before and after each trip. Always check and adjust the pressures while the tires are cold. Never add or release pressure from the tires when they are hot (after having driven a mile or more).

For safe operation and maximum weight carrying capacity, it is imperative that the tires be inflated to and maintained at the listed tire pressures on the Federal ID Tag. This tag is affixed to the interior wall just behind the driver's seat in your coach.



Thereafter, check wheel lugs before each trip, after excessive braking and following winter storage. AD-24

WARNING

Failure to follow proper inflation guidelines may result in tire failure, which can cause loss of vehicle control or accidents resulting in property damage, bodily injury, or death.

A IMPORTANT

The tire pressure settings can change depending on whether they are used in single or dual tire situations.

IMPORTANT

Make sure the tire pressures are the same across an axle, while never exceeding the maximum air pressure limit stamped on the wheels or tires, or leaving a tire below the minimum pressure listed on your tire inflation chart.

If you are operating your coach while staying significantly under the maximum weight carrying capacity, you may experience an unnecessarily firm ride. To correct this condition, it is recommended for you to weigh the coach when it is fully loaded as you would travel, with full fuel, water, and LP tanks, all travelers, and your belongings, as well as any towed equipment. Weigh each axle end separately, and use the heaviest end weight to determine the axle's cold inflation tire pressure.

For units operating significantly under maximum weight carrying capacity experiencing an unnecessarily firm ride. We recommend for you to weigh the coach loaded as you will be traveling with fuel, water, Lp, belongings, persons and weight of towed equipment, weighing each axle end separately and using the heaviest end weight to determine the axle's cold inflation tire pressure use the inflation chart provided by the tire manufacture for you specific brand, series,& size and load range of tire use the dual and single weight charts according to the tire configuration you are inflating.

Make sure tire pressures are the same across an axle, while NEVER exceeding the maximum air pressure limit stamped on the wheels or tires nor under inflating a tire below the lowest pressure on the tires inflation chart. For more detailed information refer to the tire inflation pressure article in Newgle.

295/60R22.5 J														
PSI		85	90	95	100	105	110	115	120	125	130		Maximum load & pressure on sidewall	
ł	kPa		620	660	690	720	760	790	830	860	900			
LBS	Single	5260	5505	5750	5990	6230	6465	6700	6930	7160	7390	S	7390 LBS at 130 PSI	
LD3	Dual	9650	10100	10550	10990	11430	11860	12290	12720	13140	13560	D	6780 LBS at 130 PSI	
KG	Single	2385	2495	2610	2715	2825	2930	3040	3145	3230	3350	S	3350 KG at 900 kPa	
NG	Dual	4375	4580	4785	4985	5185	5380	5575	5770	5960	6150	D	3075 KG at 900 kPa	

Example of a Tire Inflation Chart

Use the inflation chart provided by your specific tire manufacturer according to brand, series, size, and load range. Also, pay attention to the chart when referring to dual or single tire configurations, as they will change based on which tire you are inflating.

IMPORTANT

Do not use the example to find your recommended tire pressures. Refer to your tire manufacturer's owner's manual and specific tire inflation guidelines.

Exact tire inflation charts will not be provided by Newmar. Each tire manufacturer provides this information, as it changes by brand, make, tire series, tire size, as well as if it is used in a single or dual setup. For more information about your tires and the inflation specifications, please refer to the Item Home Page of your tire manufacturer.

ELECTRICAL

This chapter includes overviews of the 12 volt and 120 volt electrical systems, as well as information about electrical equipment that may be installed in your coach, including, but not limited to fuse panels, lighting, EMS, generators, inverters, converters, solar panels, transfer switches, etc.

WARNING

Due to the risk of electrical shock, service should be performed by a qualified electrician or authorized service technician. The electrical system may have multiple 120/240 volt power sources. All power sources must be turned off, and any auto generator start features must be disabled before servicing.

IMPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

A CAUTION

Newmar coaches are set up, configured, and tested to operate properly with the electrical system that was installed at the time of production, including, but not limited to the battery, solar, inverter, and any multiplex system(s). Modifications to any part of the electrical system may cause adverse effects to the coach function and should not be done. If the coach's electrical system is modified, including, but not limited to batteries, solar, or inverter systems, Newmar will not warranty or aid in the diagnosis of electrical, battery, multiplex, and/or charging system issues.

12 Volt Electrical System Overview

This article provides general information about the components and functions of the 12 Volt Electrical System (DC) in Newmar coaches.

Power Sources

The 12 Volt Electrical System allows certain components to maintain a low voltage from the battery bank. The battery bank is controlled by the coach charging system, which consists of a charge bridge solenoid, a bi-directional isolator relay delay (BIRD), or a battery isolation manager (BIM). When the coach engine is running, the alternator charges the chassis batteries and may assist in charging the house batteries through the BIM, BIRD, or Charge Bridge.

THIS CONNECTION IS FOR LOW-VOLTAGE BATTERY OR DIRECT CURRENT ONLY. DO NOT CONNECT TO 120 OR 240 VOLTS AC.

When the coach is connected to shore power or when the coach generator is in use (when shore power is unavailable), the converter or inverter/converter combination recharges the house batteries, and with the assistance of a BIM, BIRD, or Charge Bridge, it can also charge the chassis batteries.

In addition to the alternator and converter, the coach may also be equipped with solar panels to provide an additional option for charging your house batteries.

Alternator

The alternator is a belt-driven component attached to the coach engine and is supplied by the chassis manufacturer. The alternator supplies power for chassis components such as batteries, lights, wipers, dash HVAC, and power seats, as well as all of the driver controls located in the cockpit. The alternator charges the chassis batteries, but with the addition of a BIM, BIRD, or Charge Bridge, it may also assist in charging the coach's house batteries.

Generator

When shore power is unavailable, the generator takes mechanical energy and converts it into alternating current to supply 120 volts to the coach and charge the coach's house via the converter or inverter/converter and the chassis batteries via BIRD, BIM, or charge bridge.

The generator is typically located in the front of the unit between the frame rails on diesel coaches. On gas units, the generator may be located anywhere between the mid and rear section of the coach. Generators can be powered by gas, liquid propane, or diesel fuel.

Converter and Inverter/Converter Combination

All Newmar coaches are equipped with a converter or inverter/converter combination. A converter transforms alternating current or shore line power 120 Volts to low-voltage direct current to provide power to the coach's 12 Volt house and chassis batteries. On the other hand, an inverter transforms direct current to alternating current to provide power to specified appliances and entertainment systems.

Solar Panel

Some Newmar units are equipped with a 10 Watt solar panel wired to the chassis batteries. Prior models may have a five or 10 Watt solar panel and may be wired to the chassis-side KIB panel.

Batteries

Please refer to the Battery Basics article for more information.

Power Distribution

Battery Disconnect

Newmar uses an Intellitec disconnect relay connected to the battery bank to disconnect certain loads when placing the coach in storage. Keep in mind that not all loads are disconnected. This is very important to remember when a coach is put into storage and is not plugged into shore power. Before placing the battery disconnect in the "off" position, make sure the inverter (if equipped) is turned off.

Some coach models have a manual rotary key switch to disconnect power, which is located in the overhead above the entry door. Most other coaches have a single lighted switch located in the front overhead or on the passenger console near the entrance door that turns off the house voltage.

MPORTANT

When the battery disconnect is 'off', meaning you have disconnected components from the batteries, there are still some loads on the batteries connected to the hot side of the Battery Disconnect Relay. Some of these loads may be Radio Memory, Entry Steps, and LP Detector. These will draw from the batteries, even when the disconnect is 'off'. Pull the fuse for each of the 'HOT' circuits to stop the batteries from being drained.

To learn more, visit the Battery Disconnect home page in Newgle.

Bi-Directional Isolator Relay Delay (BIRD)

Current gas coaches and some older diesel coaches, use an Intellitec Bi-Directional Isolator Relay Delay (BIRD) with a separate solenoid. The BIRD monitors both the chassis and house battery and is the only place in the coach where they both merge.

The BIRD only functions when the engine or generator is running or when the coach is connected to shore power.

To learn more, visit the Bi-Directional Isolator Relay Delay home page in Newgle.

Battery Isolation Manager (BIM)

All current Northern Star, Kountry Star, Super Star, Dutch Star, and Ventana diesel coaches use a Precision Circuits all-in-one Battery Isolation Manager (BIM).

The BIM monitors both the chassis and house battery and is the only place in the coach where they both merge.

The BIM only functions when the engine or generator is running or when the coach is connected to shore power.

To learn more, visit the Battery Isolation Manager home page in Newgle.





Charge Bridge Solenoid

All current model New Aire, Supreme Aire, Mountain Aire, London Aire, Essex, and King Aire coaches use Silverleaf, a computerized coach management system.

One of its many functions is to control the battery charging through the Charge Bridge Solenoid. The TM102 module monitors the battery state and senses the house and chassis battery voltage.

When the parameters are met, the TM102 module activates the solenoid, causing it to bridge or connect the chassis and house battery banks.

For more information on your coach's TM102 module, refer to the SilverLeaf Functional Guide in Newgle.

Fuse Blocks and Mini-Breakers

When a 12 Volt wire is ran, most of the circuits are protected with fuses or mini-breakers. These can be located at various areas in the coach but are typically located near the main breaker panel.

The following photos are examples only. However, they may also be found in areas such as:

Interior

- Rear bedroom
- Rear bathroom
- Closet
- Front Overhead Cabinet

Exterior

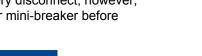
- Power cord compartment
- Left, front electrical compartment (located beneath the driver window)
- Front firewall or basement compartment (gas coaches)

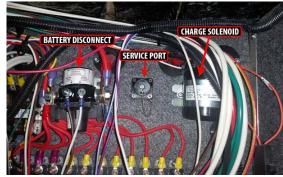
There are also some circuits that are protected with an inline fuse. Some fuse blocks have fixed relays integrated on a board. The fuses, mini breakers and relay board pictured are examples of the type of components that may be found in or near the the power cord compartment.

Basic 12 Volt Power Flow

Since a battery is only an electrical storage component, 120 Volt power must be present to charge the batteries from the converter or inverter/converter combination unit. It is necessary to have 12 Volt power supplied from the coach's house battery bank in order to operate the interior lights and other 12 Volt loads such as slideout control systems, water pumps, vent fans, monitoring systems, etc.

Most of this power flows through the battery disconnect to the fuse block or mini-breakers, which prevents overloading the circuit prior to progressing to the 12 Volt load. There are some 12 Volt circuits that do not go through the house battery disconnect; however, these loads still pass through a fuse or mini-breaker before progressing to the load.





IMPORTANT

When a 12 Volt load or component is not working, both 12 Volt power (+) and 12 Volt ground (-) are needed for the load to complete the 12 Volt circuit.





120 Volt Electrical System Overview

This article provides general information about the components and functions of the 120 Volt Electrical System (AC) in Newmar coaches.

Power Sources

There are three types of alternating current (AC) power sources available to the coach: shore power, generator power, and inverter power. Shore power is provided by the RV park or by home service outlets and should be used whenever possible. Generator power should mainly be used when shore power is not available, specifically while traveling, when 120 Volt power is necessary to run high amperage loads, or when dry camping requires 120 Volt for battery charging. Inverted power is mainly used for light 120 Volt loads when shore power is not available and generator power is not desired.

Inverter Power: This type of power starts at the battery bank. The battery bank supplies 12 Volt power through cables to the inverter, which uses the 12 Volt direct current to produce 120 Volt alternating current. The inverter performs this action by using a transformer to increase the voltage and modify the higher voltage into a useable alternating current power. Power then goes to the inverted sub panel, which is dispersed through the individual breakers to the outlets or appliances.

The inverter may provide battery charging while 120 Volts is supplied via the generator or shore power. The inverter performs this action by using the transformer to decrease the voltage and rectify the alternating current into useable direct current voltage. This is regulated by internal sensing circuitry based upon the battery bank's state of charge and several other factors, depending on the coach's particular inverter brand and type.

Generator Power: Generator power is produced within the generator and is output through the main wiring to the transfer switch. From the transfer switch, the power moves to the main breaker box where it is dispersed to individual circuits (outlets) and hard-wired components such as a water heater or boiler. From the inverted circuits, generator power will then travel through the inverter's internal transfer switch and back to the inverted subpanel to be dispersed through the individual breakers to the outlets or appliances.

Shore Power: Most RV parks provide 30 Amp, 120 Volt at the site; however, many parks also provide 50 Amp, 240 Volt service to accommodate the electrical needs of newer and larger coaches.

Shore power is supplied to the coach via a power cord. Two sizes of power cords are found in Newmar coaches: 50 Amp and 30 Amp. The 50 Amp cords are made up of four conductors #8 stranded wire and a molded plug. The 30 Amp cords are made up of three conductors #10 stranded wire and a molded plug.

Shore power enters through the 30 or 50 Amp power cord to the power cord reel (if equipped). From the power cord reel, it travels to the transfer switch and then to the main breaker box where it is dispersed to the individual circuits to supply power to hard-wired components such as air conditioners, water heaters, etc. and then to the inverter (if equipped).

The inverted circuits move from the inverter's internal transfer switch to the inverter subpanel (a smaller breaker box). From the subpanel, the power circulates to the individual breakers and to the electrical outlets and appliances.

Shore Power Adapters

MIMPORTANT

Newmar Corporation does not recommend use of adapter, cheater, or dog-bone style connectors that will modify the existing shore power cord to a different style of outlet. Use of this type of adapter will greatly reduce the amount of available current in the unit, as well as create the potential for electrical failure and/or fire.

If an adapter is used, there are three common sizes of power cord adapters available to adjust to a smaller amperage outlet:

- 1. 30 amp to 20 amp
- 2. 50 amp to 20 amp
- 3. 50 amp to 30 amp









© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

It is important to understand the risks involved and the possible effects of using adapters in conjunction with your coach. Some of these risks and possible effects include:

- Melted or damaged adapters causing poor connection (or no connection at all)
- Melted or damaged 30 or 50 Amp plugs causing fluctuations in voltage that may damage electronics
- Insufficient amperage causing the tripping of a breaker at the post or a limited use of appliances

Low voltage can also be caused by use of adapters, long extension cords, or extension cords with an insufficient wire size.

A IMPORTANT

Newmar Corporation cannot assume liability for failures occurring to the RV, its electrical system, or any of its components from the use of any electrical adapter.

Automatic Transfer Switch: Current coaches with a generator will also have a transfer switch installed in the cord compartment. An automatic transfer switch converts two inputs and connects them to a single common output.

The shore power cord is connected to one of the inputs, while the generator is connected to the transfer switch's second input.

Automatic transfer switches are logic-controlled to convert under a given set of conditions. The transfer switches used in RVs are typically generator priority switches which connect to shore power under normal use. As soon as the transfer switch detects the presence of 120 Volt power on the generator input lines, it will switch over to the generator's inputs and drop the connection to shore power.

Transfer switches are designed so that only one input can be connected at a time in order to prevent any backfeeding of electrical power. In addition, RV transfer switches generally have a built-in delay allowing the generator to warm up and speed up before actually switching the load. This prevents stalling or stumbling while the engine is still cold and not producing full power.

Main Service Panel Breaker Box: The main service panel or 120 Volt breaker box is typically located inside a bathroom, bedroom, or front overhead cabinet depending on the coach model and floor plan. The breaker box contains the main 50 Amp (or 30 Amp if equipped) breaker and the individual breakers protecting each circuit from overload conditions. Any unit equipped with two air conditioners or more must have 50 Amp service. The task of the breaker is to "trip" if the current exceeds the amperage rating on the breaker to prevent damage to the wiring of the circuit.

The breakers are resettable by simply flipping the breaker to the 'off' position, and then back to the 'on' position once the overload condition is removed. All 120 Volt circuit breakers are located in the main service panel unless the coach is equipped with an inverter/charger. These units are also equipped with a subpanel.

MPORTANT

Breakers positioned next to each other are on different poles in a 50 Amp panel. If only part of the electrical circuits are working, you may have a poor connection at shore power. In this instance, power is most likely only being provided to one pole or leg.

Subpanel: The subpanel is a smaller 120 Volt breaker box containing the breakers for the circuits which the inverter is wired to power.

It is typically located near the main breaker box unless the coach is equipped with an Energy Management System (EMS). In this case, the subpanel is often located within the EMS panel.

The subpanel is installed to limit the AC power use to specific circuits when the electricity is supplied by the inverter. Some inverters may be used to power a specific circuit. In this case, a subpanel is not used.

Automatic Generator Start (AGS): On coaches equipped with AGS, the generator will start and provide 120 Volt power if the incoming shore power voltage is not present and startup parameters are met. The AGS may be controlled via the KIB or SilverLeaf system.



IMPORTANT

This function must be enabled in order for the AGS to function properly.





This allows the AGS to start on demand from the A/C for either heat (heat pump only) or cool.

Follow Silverleaf or KIB L-Panel instructions for proper zones, heat, cool and AGS settings. For more information about AGS operation via the SilverLeaf system, refer the year/model-specific SilverLeaf Touchscreen Guide in Newgle.

Power Distribution

50 Amp Energy Management System (EMS): The 50 Amp Precision Circuits Energy Management System is currently offered as standard or optional equipment on all coaches not equipped with a SilverLeaf Coach Management System. Its function is to provide power management for certain 120 Volt loads and as a system of energy management to minimize the overloading and tripping of circuit breakers. The EMS contains a main distribution panel with a self-contained control module and a remote display panel, which is typically located in the dash overhead electrical control cabinet.

The EMS control module automatically senses the available power being supplied to the coach. The module determines whether it is connected to a 50 Amp (240 Volt) or the generator. On 120 Volt service, it is unable to determine if the source is providing 30, 20 or 15 Amp shore power. Depending on available power, it can control up to seven loads.

The EMS controls air conditioner loads using low-voltage switching and other 120 Volt, heavy-load appliances, such as block heaters, water heating elements, and air conditioners. The EMS will also control the 2012 Magnum inverter charge rate or switch to invert depending on the charging status. The charger will only reduce once it is in float status.

The current-sensing relay will display the amperage on each leg. The EMS will start shedding loads and look at the AC current when it sheds a load, determining when it has enough current available to turn on the load again.

When the EMS sheds a load, it only looks at one leg to see how much of a load was shed. For coaches equipped with the SilverLeaf system, refer to the SilverLeaf Functional Guide for more information on your EMS.

Converters: All Newmar coaches are equipped with a converter or an inverter/converter combination. Converters are used to transform alternating current power (120 Volt AC) to direct current power (12 Volt DC). Converters supply the coach with 12 Volt power to operate systems in the coach and provide battery charging.

Newmar currently uses three sizes of converters: 45, 60, and 80 Amp models. Previous units may have a 55 or 75 Amp converter or two 45 Amp converters with a total of 90 Amps available.

When replacing a converter, it is necessary to use the same size converter to ensure sufficient wiring and breakers for the converter's input and output ratings.

Possible causes of converter failure:

- · Overheating caused by cooling fan malfunction or inadequate ventilation causing damage to the converter
- Blown fuses

Inverters: An inverter changes 12 Volt DC power to 120 Volt AC power. Coaches with an inverter only typically use it for powering the entertainment equipment like the TV, DVD, and Blu-ray players. The inverters used for this purpose are usually 600 watt to 1000 watt (1000 Watt inverters may also power a small refrigerator) and do not have battery charging capability.

The inverters are usually located in a basement compartment of the coach. Some inverters have a remote panel for an on/off switch in the overhead driver area or

above the entry door. When power is supplied by either the generator or shore power, the inverter merely allows the power to "pass through" and will then stop pulling power from the batteries to try and supply 120 Volt power. There is a protective breaker on the inverter to prevent circuit overload.

Possible causes for inverter failure:

- Overheating caused by inadequate ventilation causing damage to the inverter
- Overloading the circuit causing "tripped" breakers







ELECTRICAL

Inverter/Converter Combinations: Many Newmar coaches are equipped with inverter/charger combination units, sometimes referred to as inverter/converter units. These units range from 1200 to 3000 watts and serve as a three-stage charger and an inverter. Coaches equipped with this option will also be equipped with a 120 Volt subpanel.

The subpanel is used to limit the circuits powered by the inverter(s). This is necessary to avoid draining the batteries by supplying inverted power to all circuits. The subpanel is located next to the main service panel. On units equipped with an EMS, the subpanel is located in the same breaker box but is separated in the interior of the main panel. The coach battery bank supplies the inverter 12 Volt power and has a high amp fuse link on the positive lead from the batteries and is located near the battery bank.

The inverter/charger can be controlled by a remote panel, from another system like SilverLeaf, or at the inverter itself. The remote panel is typically located in the front overhead compartment or above the entry door and is used to control the inverter and the battery charging functions. If a remote panel is connected to the inverter, then the remote panel takes priority.

Three-Stage Charging Process: The charging cycle uses three states: bulk, absorption, and float. During the initial bulk stage, the inverter charges at nearly its full current ability. This causes the battery voltage to rise over time. After the battery voltage reaches the bulk voltage setting, the charger starts the absorption stage.

During this phase, the charge rate is gradually reduced while the battery voltage is held near the bulk voltage setting. This ensures that the battery is fully charged. The float stage is initiated when the battery has been held at the bulk voltage setting for the absorption period. At this point the battery voltage is allowed to fall to the float voltage setting, where it is maintained until another charge cycle is initiated. This reduces gassing of the battery and keeps it fully charged. A new three-stage charging cycle is initiated after an AC source is reapplied to the AC input terminals.

120 Volt Outlets: Several 120 volt receptacles are located throughout the interior of the unit. These receptacles require three-pin plugs that provide proper grounding to protect you from electrical shock. The breaker for the outlets are usually located in the breaker box. If the breakers are on the inverted circuitry, they will be located in the subpanel near the main breaker box.

IMPORTANT

Do not use an adapter, cheater, or extension cord that breaks the continuity of the ground circuit to the ground pin. Never remove the ground pin from a plug to connect it to a two-pronged ungrounded outlet.

Ground Fault Circuit Interrupt (GFCI) Outlets: The Ground Fault Circuit Interrupt (GFCI) outlets protect the user from ground faults between a hot wire and ground. The 120 Volt electrical outlets in the kitchen and bath area are GFCI-protected receptacles. The electrical outlets located in the Slideouts are wired through the kitchen GFCI. The exterior electrical outlets are wired through the bathroom GFCI. On units equipped with the floor heat option, a separate GFCI is installed in the bathroom or near the main breaker box. Units with the holding tank heat pad option will have an additional GFCI located in the basement area; however, the exact location varies.

The GFCI outlets should be tested at least once a month. The 120 Volt electrical system must be energized to test the GFCI. The reset button needs to be pressed before starting the test. Then

push the test button, which will cause the reset button to pop out, confirming the protected circuits have been disconnected. Push the reset button again until a click is heard to reactivate the protected circuit. If the GFCI is working properly, the reset button will remain in the "IN" position. If an item plugged into a Slideout or outside receptacle is not working, check for a tripped GFCI in the kitchen or bathroom. Likewise, if the floor heat or holding tank heat pads are not working, check the GFCI for that circuit.

WARNING

The GFCI will not reduce the shock hazard if the short is between a neutral and hot wire or two hot load wires.







Electrical Typical Amp Draw List

This article provides a basic overview of the typical amp draw of electrical components and appliances in a coach.

Amp Draw

Do you know how many Amps you are using at any single moment? It is surprising how quickly the current draw (Amps) of your appliances can add up for your coach's 30 or 50 Amp system. Knowing and understanding the electrical terminology, as well as the average amperage (current draw) of all the electrical appliances in your coach, can help you manage electrical use and prevent the inconvenience of tripping a breaker.

Below is a list of the typical appliances used and the approximate amps required to operate them.

- V= volt; volt is the measurement of electrical pressure
- A= amp; amp is the measurement of electrical current (volume) used by an electrical device.
- W=watt; watt is the measurement of how much electrical work is being done.

Appliance	Required Amps
Air Conditioner (depending on brand, BTU rating and options)	14.0 to 16.0 Amps
Inverter (depending on wattage rating, brand, and model)	9.0 to 18.0 Amps
Converter with continuous 12 volt power supply (depending on amp rating and brand)	11 to 17 Amps
Refrigerator (residential compressor-type)	8.5 to 12.0 Amps
RV Refrigerator (Absorption)	2.7 to 6.4 Amps
Microwave Oven	11.3 to 14.2 Amps
Washer and Dryer (2-piece)	16.0 Amps
Television (depending on size, brand, and type)	1.0 to 3.0 amps
Central Vacuum Cleaner	11.3 Amps
Electric Hot Water Heater (depending on brand and type)	11.7 to 12.5 Amps
Food Processor	6.0 Amps
Ice Maker	4.0 Amps
Electric Freezer (Compressor)	6.4 Amps
Hair Dryer (1500w)	12.5 Amps
Electric Coffee Pot	9.0 Amps
Iron	10.0 Amps
Radio	0.8 Amps
Toaster	8.0 Amps
Electric Frying Pan	10.0 Amps
Coffee Maker	10.0 Amps

Conversions

Look at your electrical appliances, find the label containing amperage or wattage ratings, and calculate exact usage with the formulas:

- Watts/Volts = Amps
- Amps x Volts = Watts
- Watts/Amps = Volts

Most products requiring electricity provide how many amps or watts they typically utilize. If your electric water heater is always in use (~12.5 amps), and you start your air conditioner (~15.0 Amps) and put on a pot of coffee (~9.0 amps) and make some toast (~8.0 amps) while watching TV (~ 2.0 amps), you have far exceeded the 30 amp service, resulting in a tripped breaker. Many people don't take into consideration how much power may be used by the inverters charging circuits mostly because they are working automatically in the background. 50 amp service has two 50 amp power legs, providing a total service of 100 amps.

BATTERIES

Battery Basics

Introduction

As with anything technical, greater knowledge of the basics may help you increase performance, reliability, and longevity, as well as prevent future problems with your batteries. This article will provide information regarding your coach batteries; however, this is only one aspect of your coach's electrical system. To learn more about your batteries' role within the system, please refer to the 12 Volt Electrical article.

Commercial lead acid batteries have been used for over 150 years. The same chemical principal used to store energy now was also used many generations ago. Present day chassis battery power requirements are tremendous, considering today's vehicles and all of the electrical devices that must be supplied. All of these electronics require a reliable power source, and poor battery condition may lead to expensive electronic component failure. A battery is like a piggy bank - it stores energy, but cannot produce it. If you continue to withdraw without making any deposits, you will soon have nothing left.

Life Span of a Battery

Not long ago, motor homes only used a single 12 Volt house battery. Today, however, it is standard to have at least two batteries, and up to 16 total in some Newmar coaches, powering inverters up to 3000 watts. As energy requirements increase, the average battery life decreases. The life span of a deep cycle battery will vary considerably with how it is used, how it is maintained and charged, temperature, and other factors. The life span is dependent upon usage but often ranges between six months to 48 months. Only 30 percent of all batteries actually reach the 48 month mark.

It is best practice to change the complete battery bank when a new battery becomes necessary, as the battery bank is only as good as the weakest cell. One simple way to extend battery life is to hook it up to a solar charger during the off months.

Common Battery Terms

Ampere (Amp) - A unit that defines the flow rate of electricity (current) in a circuit.

Amp Hour (AH) - Measurement of electrical storage capacity on a deep cycle battery. The standard amp rating is taken for 20 hours. Example: A 100 AH rated battery is determined like this: Draw from the battery for 20 hours provides a total of 100 amp hours, translating to about five amps an hour (5 amps x 20 hours = 100 AH). However, it is important to know that the total time of discharge and load applied is not a linear relationship. As your load increases, your realized capacity decreases. This means if you discharged that same 100 AH battery by a 100 amp load, it will not give you one hour of runtime. On the contrary, the perceived capacity of the battery will be about 64 AH.

Cold Cranking Amps (CCA) - Measures the number of amps a battery can deliver at 0° F for 30 seconds without dropping below 7.2 Volts (1.2 Volts per cell). A high CCA battery rating is especially important in engine-starting battery applications and in cold weather. This measurement is not particularly important in deep cycle batteries, though it is the most commonly known battery measurement.

Cranking Amps (CA) - Measures available current at 32° F and is also called marine cranking amps (MCA).

Cranking Amps (CA) - Measures available current at 32° F and is also called marine cranking amps (MCA).

Depth of Discharge (DOD) - Measures the percent of rated capacity to which a cell or battery is discharged. It is the reciprocal of a battery's state of charge. Example: A battery that has a depth of discharge of 45 percent has a state of charge of 55 percent.

Reserve Capacity (RC) - Measures the number of minutes a fully charged battery can continuously deliver 25 amps at 80 ° F before the voltage drops below 10.5 Volts. This measurement represents the amount of time the battery can operate if a charging system failure occurs.

Electrolyte Specific Gravity (battery test) - Unit of measure that compares the weight of the electrolyte solution to the weight of water. This test is performed with a hydrometer or a refractometer that is made for testing batteries. This type of test is used to determine the battery's state of charge; however, it cannot be used on sealed batteries.

Battery Types

Liquid Lead Acid / Flooded

The Lead Acid battery consists of a plastic container with cells molded into it. Each cell contains plates, lead, and lead oxide (various other elements are used to change density, hardness, porosity, etc.) with 35 percent sulfuric acid and a 65 percent water solution. This solution is called an electrolyte, which causes a chemical reaction that releases electrons.

When testing a battery with a hydrometer, the amount of sulfuric acid in the electrolyte is measured. If the reading is low, the chemistry that makes electrons is lacking. The sulfur is now resting on the battery plates and will remain there until the battery is recharged and the sulfur returns to the electrolyte.

A CAUTION

Use only distilled water to fill flooded / liquid lead acid batteries.

Absorbed Glass Mat (AGM) / Dry Cell

The Absorbed Glass Mat battery is just like a flooded battery, except the electricity is maintained in the glass mats, as opposed to freely flooding the plates. Very thin fibers are woven into a mat to increase the surface area to hold sufficient electrolyte on the cells for their lifetime. The construction allows the electrolyte to remain suspended in close proximity with the plate's active material, enhancing both the discharge and recharge efficiency.

When Deep Cycle AGM batteries are not discharged more than 60 percent, the cycle life could be approximately a few hundred cycles. If you do not use or operate your equipment daily, AGM batteries will hold their charge better than most other types. In most cases AGM batteries will provide a greater life span and cycle life than a Wet Cell battery.

AGM batteries are also often referred to as Sealed Regulated Valve, Dry Cell, Non-Spillable, and Valve-Regulated Lead Acid batteries.

Follow battery manufacturer instructions. Do not add any liquid to AGM batteries.

Gel Cell Batteries

The Gel Cell is similar to the AGM battery because the electrolyte is suspended; however, the AGM battery is still considered to be a wet cell. The electrolyte in a Gel Cell has a silica additive that causes it to set (gel) or stiffen. The recharge voltage on this type of cell is lower than the other types of lead acid batteries, due to the likelihood of an adverse reaction to over-voltage charging. Gel Cell batteries are best used in very deep cycle applications and may last longer in hot weather applications.

A CAUTION

Follow battery manufacturer instructions. Do not add any liquid to gel cell batteries.

For more information about Battery Inspection, Safety, Care, and Maintenance, refer to Newgle.

Lithium Batteries

Lithium batteries are made differently and have several different characteristics from AGM, gel cell, or lead-acid batteries. They charge at different rates, discharge differently, and are affected by temperature differently. For more information on lithium batteries installed in Newmar coaches, refer to the corresponding year and model "Lithium Battery Quick Start Guide" in Newgle. If the coach was not originally equipped with a lithium battery system, Newmar does not recommend, condone, or offer suggestions for battery replacement using lithium batteries.

Newmar coaches are set up, configured, and tested to operate properly with the electrical system that was installed at the time of production, including, but not limited to the battery, solar, inverter, and any multiplex system(s). Modifications to any part of the electrical system may cause adverse effects to the coach function and should not be done. If the coach's electrical system is modified, including, but not limited to batteries, solar, or inverter systems, Newmar will not warranty or aid in the diagnosis of electrical, battery, multiplex, and/or charging system issues.

Battery Bank Wiring

Parallel Battery Wiring

Parallel battery wiring refers to two or more batteries with all positive (+) terminals hooked together and all negative (-) terminals hooked together. This results in a battery voltage similar to that of the individual batteries, typically 12 Volt, to boost battery capacity. Two identical batteries wired parallel will provide twice the electrical storage capacity of one battery, without increasing voltage.

Series Battery Wiring

Series wiring refers to two or more batteries hooked together, with opposite terminals connected. The positive (+) terminal of the first battery should be connected to the negative (-) terminal of the second battery. The resulting voltage is the sum of the individual batteries. For example, if two six Volt batteries are hooked together, the resulting voltage will be 12 Volts.

Series/Parallel Wiring

Series/ Parallel battery wiring is used on Newmar units when four or more 6 Volt batteries are used for the house battery bank. Since 12 Volts is the desired working voltage from the battery bank, the batteries are connected to provide 12 Volts with more capacity. Two 6 volt batteries wired together in a series create a 12 Volt battery bank. Two or more of the 12 Volt battery banks can be connected together in a parallel format to provide more capacity.

In situations where multiple batteries are connected in a series, parallel or series/parallel, replacement batteries should be the same size, type, and manufacturer (if possible). Age and usage level should be the same as the companion batteries.

Battery Cycle vs. Battery Life

A battery cycle is one complete discharge and recharge cycle (100 percent to 20 percent, and then back to 100 percent). Battery life is directly related to how deep the battery is cycled each time. The most common cycles are 10, 20, and 50 percent. Be cautious of ratings that list the number of cycles, unless it also states how low the battery is being discharged.

For example, telephone type (float service) batteries have been advertised as having a 20-year life. However, the rating only stands true at five percent depth of discharge (DOD), and the life span is much less when used in an application where the batteries are cycled deeper on a regular basis. Those same batteries are rated at less than five years if cycled to 50 percent.

If a battery is discharged to 50 percent every day, it will last about twice as long as if it is cycled to 80 percent DOD. If cycled only 10 percent DOD, it will last about five times as long as one cycled to 50 percent. The most practical number to use is 50 percent DOD on a regular basis for the best use of effective storage and cost.

In addition, there is an upper limit. A battery that is continually cycled down five percent or less will usually not last as long as one cycled down 10 percent. At very shallow cycles, lead dioxide tends to build up in clumps on the positive plates rather than in an even layer.

State of Charge	Specific Gravity	12 Volt	6 Volt
100%	1.265	12.7	6.3
75%	1.225	12.4	6.2
50%	1.190	12.2	6.1
25%	1.155	12.0	6.0
Discharged	1.120	11.9	6.0

Battery State/Voltage Chart (AGM, Lead Acid)

MPORTANT

This battery state voltage chart is used as an example. Your specific battery manufacturer's chart may vary.

Note: Both voltage and specific gravity tests should be performed with no load on the batteries and without any supplied charging. Turn off all draws and charging. Allow the batteries to stabilize, and then proceed with the test.

House and Chassis Battery Bank Overview

This article provides a brief overview of the two different battery banks in a Newmar coach: House and Chassis.

Chassis Battery Bank

The chassis battery bank supplies power to everything a customer requires to drive the unit. Currently, Newmar's chassis batteries are all Liquid Lead Acid. Spartan and Ford chassis have serviceable batteries and Freightliner chassis batteries are sealed.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

The type and brand of chassis battery may vary depending on coach year, make, and model. Chassis batteries may need to be disconnected and removed from the coach to maintain proper electrolyte levels or perform routine battery maintenance. House batteries may be either serviceable Liquid Lead Acid/Flooded or AGM/Sealed Cell.

The chassis batteries on your motorhome are installed and warranted by the chassis manufacturer. The coach (or house) batteries on your motorhome are installed by Newmar Corporation, but warranted by the battery manufacturer. These batteries are used to operate the 12 volt items that are not a direct part of the chassis.

Depending on the coach, the batteries may be located in the front of the coach under the front cap or on a pull out tray in an outside compartment.

A CAUTION

Do not use the motorhome with the coach batteries disconnected.

The chassis batteries are recharged by the vehicle's electrical system whenever the engine is running, with added BIRD, BIM, or Charge bridge solenoids the vehicle's charging system will also charge house batteries if parameters are met. A decline in the coach battery voltage may be noticed while the chassis batteries are being charged.

The converter will automatically charge the coach batteries when the unit is connected to a 120 volt outside power source. The chassis batteries are isolated from the coach batteries, however with certain parameters met the BIRD, BIM, or Charge bridge will activate and allow charge to the chassis battery also. This prevents the chassis batteries from being drained by the interior 12 volt equipment, allowing ample voltage for engine ignition.

House Battery Bank

The house battery bank is necessary to operate everything a customer may require to live in the coach.

These batteries can be either 6 Volt deep cycle (all diesel coaches except coaches equipped with a lithium battery bank) or 12 Volt deep cycle, depending on the model and brand of the coach. Newmar house batteries may be serviceable or sealed.

For more information about the lithium battery system, refer to Newgle.



2025 New Aire Lithium Battery Quick Start Guide

This article provides general information, dead battery, and cold start instructions relevant to lithium batteries installed in a 2025 New Aire coach.

Lithium General Information

- 1. 640 AMP HOURS / 8192 WATT HOURS (TOTAL SYSTEM, 1 PACK Standard with Lithium option).
- 2. Battery will not function UNDER -4° F (-20° C) (Internal Battery Temp).
- 3. Battery will not take a charge UNDER 32° F (0° C) (Internal Battery Temp), but will be usable.
- 4. Battery will not function OVER 131° F (55° C) (Internal Battery Temp).
- 5. Battery will not take a charge OVER 113° F (45° C) (Internal Battery Temp), but will be usable.
- 6. Battery readout on the HOME page is read in State of Charge (SoC) percentage. The voltage can be seen in the DC POWER page and the BATTERIES page of the SilverLeaf touch panel.
- 7. You can see the status of the Lithium batteries on the HOME screen on the SilverLeaf Touchscreen. A more detailed screen for the Lithium batteries can be accessed from the "BATTERIES" tab at the bottom of the HOME screen.
- 8. The Lithium can be ran down to a RESERVE CAPACITY shutdown SoC, two times.
- 9. At the FIRST RESERVE CAPACITY shut down, the battery will turn off but can be restarted by pressing and holding the blue button on the side of the Battery Management System (BMS) or in the front overhead cabinet.

MPORTANT

You must make sure to have a charging source for the Lithium batteries after turning them on from the FIRST RESERVE CAPACITY shutdown!! If it runs until shutoff without charging it a second time, it will require a Xantrex Technician to come and reset the battery packs at the coach.

- 10. A charging source is defined as the generator running or the coach plugged in and the Xantrex Freedom SW 3012 inverter/charger on to charge the system.
- 11. It is recommended to plug into 50A shore power or have the generator running when available to get the full amount of charge to the Lithium batteries.

Storage Temperature and Relative Humidity (RH)

- 1. Recommended storage Temperature: 59° to 95° F (15° to 35° C).
- 2. Recommended Storage RH: 45% RH to 75% RH.
- 3. If the batteries need to be stored for greater than 3 months, the battery SoC should be at least 50%.
- 4. Battery needs at least one charge and discharge cycle every 6 months.
- 5. A charge and discharge cycle is defined as a cycle from 100% SoC to 30% SoC to 100% SoC.

Battery Management

- 1. It is important to maintain the House (Lithium) and Chassis batteries for the motorhome.
- 2. It is the customer's primary responsibility to understand and maintain the battery systems in the motorhome.
- 3. Newmar has added a "COACH MODE" tab on the HOME screen with several scenarios for the customer to choose from depending how they want to set up their coach. These were designed to help the customer in case they were unfamiliar with the setup of specific conditions.



These are not mandatory to use. The customer can set up everything manually for specific functions and usage.

- 4. Inside this tab, there are five buttons to choose from. Each has a specific action that will turn ON or turn OFF a system or function to best set up the motorhome for the chosen scenario. To activate any of the buttons, touch the desired button, and then press "ACTIVATE". This will start the setup of the chosen button. When the setup is complete, all boxes will be checked off beside the corresponding action.
- 5. There will be a "RING" highlighted around the button that is currently active. If a specific system or function does not activate, it will not check the box or highlight the ring around the button, letting the user know the action did not take place.

Automatic Generator Start (AGS)

- 1. This system is equipped with an AGS.
- 2. This AGS system works differently than traditional systems Newmar uses.
- 3. This AGS is triggered on State of Charge (SoC) and not low voltage for the House Batteries
- 4. When the House batteries drop to 30%, the AGS will activate and start the generator to begin charging the House batteries.
- 5. There is no longer an AGS for the chassis batteries.
- 6. As the chassis batteries deplete, the system will monitor the Chassis batteries. When these batteries get to 12.8 VDC, it will trigger the charge bridge to engage and use the house batteries as a "Maintainer" of the chassis battery. It will stay locked in for 60 minutes, then disengage the charge bridge. It will repeat this scenario as often as the chassis battery drops below the 12.8 VDC. This will happen regardless if there is a charging source for the Lithium batteries or not, down to a set value SoC of the Lithium batteries. Low Chassis voltage will not trigger the generator to start.
- 7. If no charge source is on the Lithium batteries and the Lithium batteries drop to 30% or less SoC, the system WILL NOT engage the charge bridge for the maintaining of the Chassis batteries. This way the system will save the Lithium batteries when at a lower SoC.
- 8. The HVAC AGS operates the same as in earlier systems.

Turning on the Lithium Battery Packs after Being Drained to Reserve Capacity

A IMPORTANT

It is the customer's primary responsibility to understand and maintain the battery systems in the motorhome. If one of the applicable scenarios from the COACH MODE button is used, it will aid in the prevention of the batteries from becoming unusable due to cold temps or drained batteries.

- If the Lithium batteries are off due to draining to reserve capacity, press and hold the blue button on the side of the Battery Management System (BMS) located in the battery compartment or in the front overhead cabinet. This will turn on the BMS allowing voltage from the Lithium packs to power the house system.
- 2. At the FIRST reserve capacity shut down, the battery will turn off but can be restarted by pressing and holding the blue button on the side of the Battery Management System (BMS) or in the front overhead cabinet. When turned on, the word RESERVE will show above the battery SoC percentage until there has been a charge detected on the BMS for 2 minutes, then the RESERVE will disappear.

MIMPORTANT

Make sure to have a charging source for the lithium batteries after turning them on from the first reserve capacity shutdown. If it runs until shutoff without charging it a second time, it will require a Xantrex technician to come and reset the battery packs at the coach.

Cold Start (Lithium Off with Dead Chassis Batteries)

MPORTANT

It is the customer's primary responsibility to understand and maintain the battery systems in the motorhome. If one of the applicable scenarios from the COACH MODE button is used, it will aid in the prevention of the batteries from becoming unusable due to cold temps or drained batteries.

- 1. If internal temp of the batteries are not below -4° F (-20° C), turn ON both Lithium packs.
- With the Lithium packs ON, hold down the BATTERY BOOST switch, to the left of the steering wheel, on the HOUSE function of the battery boost 2-way switch. This should boost the chassis batteries to similar voltage of the Lithium packs.
- 3. Start the generator.

IMPORTANT

Make sure there is adequate ventilation and the coach is not in an enclosed building, if you intend to start the generator.

- 4. While still holding down the battery boost switch, start the chassis engine.
- 5. Wait for about 20 seconds so the alternator can start charging, then release the battery boost switch. This should start charging the chassis along with the Lithium packs.
- 6. Turn on the Oasis and get the Lithium battery temp above 32° F so the batteries can take a charge.

Cold Start (Lithium Batteries Internal Temp Below -4° F (-20° C))

MIMPORTANT

It is the customer's primary responsibility to understand and maintain the battery systems in the Motorhome. If one of the applicable scenarios from the COACH MODE button is used, it will aid in the prevention of the batteries from becoming unusable due to cold temps or drained batteries.

- 1. If the internal temp of the batteries reach below -4° F (-20° C), you will need to get the internal battery temp above the -4 F (-20 C) before the batteries can be utilized. See "Lithium General Information" above for temperature information.
- 2. If you have a good chassis battery, start the coach. After starting the coach, start the generator.
- 3. The Lithium battery system has an "AC SENSE" function that, when the Battery Management System (BMS) are off, and there is AC power available, it will sense that there is AC voltage and turn on the BMS. This may not turn on the batteries IF they are still below the usable temperature but it will turn them on when the temp gets above the -4° F (-20° C) threshold.
- 4. OPTION 1: Get a space heater (make sure the space heater is not positioned where it could damage any wiring or wire insulation) and warm up either or both of the batteries. When the temp gets just above -4° F (-20° C), if the coach is plugged in or generator is on, the BMS will turn on the power from the Lithium batteries automatically. From there, turn on the Oasis and warm up the battery internal temp above 32° F so the batteries will take a charge.
- 5. OPTION 2: With the coach started, start the generator. Hold down the BATTERY BOOST switch, located to the left of the steering wheel, on the CHASSIS function of the battery boost 2-way switch. Hold the switch for approximately two minutes. After two minutes, the SilverLeaf will engage the charge bridge on its own and the coach will stay powered. This will boost the HOUSE circuit to be able to run the Oasis on the burner from the chassis so the batteries can warm up.

2025 KIB L-Panel LCD Capacitive Touch Panel Guide: Monitor Panel

The Monitor Panel button on the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) displays the tank capacities for fresh, grey, black, and LP tanks (if equipped), as well as the battery and AC Power details. This vertical touch panel is only installed on coaches also equipped with a SilverLeaf touchscreen.

MPORTANT

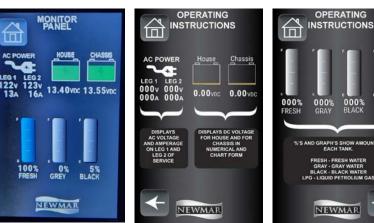
The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

ELECTRICAL

Touch the MONITOR PANEL button.

The AC Power section will display the AC voltage and amperage on Leg 1 and Leg 2 of service. The Battery section will display the DC voltage for house and chassis batteries in numerical and chart form.

The Tanks section will display the percentage-full status and graph for the fresh, gray, black, and LP (if equipped) tanks.



2025 SilverLeaf Touchscreen Guide: Batteries (Coaches with Lithium Ion Batteries)

The Batteries screen displays the Lithium Status.

To access the Lithium Status screen, press the Batteries button on the Home screen.

The Lithium Status screen can also be accessed by pressing the Settings icon in the top right corner of the Home screen and selecting the Lithium Battery Status button from the Configuration menu.

MPORTANT



SET THE CLOCK

LIGHTS AND SHADE CODES

AUTOGENSTART SETTINGS

LITHIUM BATTERY STATUS

INVERTER DIAGNOSTICS

CLIMATE OPTIONS

BACK

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Pack 1 and Pack 2: Refers to the two Lithium Ion (L-Ion) battery packs.

Up/Down Arrows: Toggles between the Pack 1 and Pack 2 screens.

Note: Pack 1 and Pack 2 will only display on King Aire coaches. All other coaches equipped with lithium batteries will only have the Lithium Status displayed for the combined battery pack.

State: Displays the amp hour rating of battery pack 1 or 2 and its charge level.

Current: Displays the (+) amps being charged or the (-) amps being

used, the battery pack voltage, and how many watts are being used or charged based on the (+) or (-) in front of the amperage reading.

Desired Charge: Displays the charger status.

Aux Contacts: Mirrors the state of the Main Contactor:

- When the Main Contactor is off, Aux Contacts Active will not print.
- Note: If the Aux and Main Contactor are out of sync, it indicates a fault in the contactor.

Max: Displays the highest-recorded battery temperature.

Now: Displays the current battery temperature.

Min: Displays the lowest-recorded battery temperature.

Bay: Displays the current bay temperature.

Rem: Displays the battery's remaining charge time at the current discharge rate.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle

ELECTRICAL

List of Status: The following conditions are highlighted if they are active:

- Charge Detected
- Main Contactor
- Charge Contactor (This is an optional feature for dual channel systems and is not currently used for RVs.)

High Voltage Disc: Highlights when the voltages are out of the set parameter range and displays the reason for shutdown.

High Voltage Limit: Highlights when the voltages are out of the set parameter range and displays the reason for shutdown.

Low Voltage Limit: Highlights when the voltages are out of the set parameter range and displays the reason for shutdown.

Press the Off button to turn off the Battery Management System (BMS). Once pressed, a confirmation screen will appear. If the BMS is turned off from the SilverLeaf screen, the user will not be able to turn it back on using the SilverLeaf system. It can only be turned back on at the BMS module located near the lithium battery bank or 24 and newer coaches also have a remote BMS switch inside the coach in the main control panel.

Press the "Yes, I meant to turn pack off" button to complete the step. Press the "Oops, go back" button to return to the Lithium Status screen.

Press the Back button to return to the previous screen.

Lithium Battery Remote Reset Switch Overview

This article provides a basic overview of the factory-installed battery remote reset switch installed in select coaches with lithium batteries.

Starting with the 2024 model year, coaches equipped with a lithium battery system have a lithium battery on/off switch in the front overhead control cabinet.

It may be labeled "BMS Battery Power On/OFF." Coaches equipped with dual BMS systems will be labeled "Battery Power - BMS #1 ON/OFF and BMS #2 ON/OFF."

The switch is illuminated blue when the battery system is active. This allows the user to activate or turn off the lithium system without pressing the switch on the BMS module(c) located in the battery co

system without pressing the switch on the BMS module(s) located in the battery compartment.

MPORTANT

If the lithium system shuts down due to low charge, it can be turned back on using the remote reset switch. However, it must be charged! Do not activate the system if the battery condition is low without charging!

Battery Boost (Emergency Engine Start) Switch Overview

This article provides the Newmar-recommended instructions for operating the battery boost switch. This switch is sometimes referenced in Newmar's sales materials as the "Emergency Engine Start Switch."

Dual Position Battery Boost Switch

2019 and newer diesel pusher coaches may have a dual position battery boost switch. This simply allows the chassis battery to be boosted from the house battery bank or the house battery bank boosted from the chassis battery, allowing the solenoid to operate from either source that has power to engage the boost solenoid. Once a click is heard, the solenoid has been energized and the battery voltage will be able to flow from the battery bank with the higher voltage to the battery bank with the lower voltage.



5, I MEANT TO TURN PACK OF





If you're in a situation where battery boost is necessary, press and hold down the switch while trying to start the coach. If the coach still does not start, try holding the switch in the opposite direction, and try again. If this is also unsuccessful in starting the coach, refer to the "Charging House and/or Chassis Batteries" article in Newgle for additional information prior to contacting Newmar for assistance.

Freightliner Diesel Pusher Chassis Battery Overview

This article provides an overview of the Freightliner chassis battery bank on a diesel pusher coach.

Freightliner chassis batteries are sealed, non-serviceable batteries. They are provided with the chassis and warrantied through the chassis manufacturer (Freightliner).

The type and brand of chassis battery may vary depending on coach year, make, and model. Chassis batteries may need to be disconnected and removed from the coach to perform routine battery maintenance.

The chassis batteries are recharged by the vehicle's electrical system whenever the engine is running. With an added BIRD, BIM, or charge bridge solenoid, the vehicle's charging system will also charge the house batteries if the parameters are met.

The inverter charger will automatically charge the coach batteries when the coach is connected to a 120 volt outside power source or if the generator is running.

The chassis batteries are isolated from the coach batteries; however, when certain parameters are met, the BIRD, BIM, or charge bridge will activate and allow charge to the chassis battery. This prevents the chassis batteries from being drained by the interior 12 volt equipment and allows ample voltage for engine ignition.

Freightliner Diesel Pusher Chassis Battery Disconnect Overview

This article provides basic operation instructions for a Freightliner diesel pusher chassis battery disconnect switch.

A single Freightliner chassis battery disconnect switch is located in the rear passenger side compartment on diesel pusher coaches.

To turn on the disconnect switch, rotate it to the ON position. To turn the disconnect off, rotate the switch to the off position. When turned off:

- it will disconnect most of the chassis battery loads to prevent unwanted drain from the batteries
- $\ensuremath{^\bullet}$ the ignition key and most dash components will not operate
- it will disable starting of the engine, which is necessary when placing the coach in storage or when working on the coach engine
- it can rapidly disconnect the power supply in the event of an emergency

Spartan Chassis Battery Overview

This article provides information about a Spartan chassis battery bank.

The chassis battery bank supplies power to everything a customer requires to drive the unit. Currently, Spartan chassis are equipped with serviceable batteries.

The type and brand of chassis battery may vary depending on coach year, make, and model. Chassis batteries may need to be disconnected and removed from the coach to maintain proper electrolyte levels or perform routine battery maintenance.

The chassis batteries on your motorhome are installed and warranted by the chassis manufacturer.

The chassis batteries are recharged by the vehicle's electrical system whenever the engine is running. With an added charge bridge solenoid or BIM, the vehicle's charging system will also charge house batteries if parameters are met.

The inverter/charger will automatically charge the coach batteries when the unit is connected to a 120 volt outside power source and the batteries are connected via the charge bridge or BIM. The chassis batteries are isolated from the coach batteries. This prevents the chassis batteries from being drained by the interior 12 volt equipment, allowing ample voltage for engine ignition.





Spartan Chassis Battery Disconnect Overview (2025 and newer)

This article provides basic operation instructions for a Spartan chassis battery disconnect installed on 2025 and newer coaches.

The Chassis Disconnect Switches are located in the rear passenger side compartment. There are two switches on a Spartan chassis, and when turned off, they will disconnect most of the chassis battery loads.

When the switches are turned off, the ignition key and most dash components will not operate. To turn the disconnects off, flip or rotate both switches to the off position. When placing the coach in storage or when working on the coach engine, turn off the disconnects to disable starting of the engine. To turn on the disconnect switches, flip or rotate them to the ON position.

House Battery Disconnect Overview for Diesel Pushers

This article provides basic operation instructions for a house battery disconnect switch on a diesel pusher.

The House Battery Disconnect Switch (labeled "Batt. Disc.") is used to control the disconnect relay connected to the battery bank and is typically located in the passenger side console. This switch disconnects most loads when placing the coach in storage or when the coach is not in use. This is done to prevent the coach batteries from being drained during storage.

Not all loads are disconnected, and, depending on the coach and its options, some systems may have memory circuits purposely not wired to the disconnect solenoid, including, but not limited to, the LP detector (if equipped), driver memory controls, and other memory-based features.

In addition, the inverter is typically not on the disconnect and will need to be powered off separately. This allows the inverter to charge the batteries when plugged into shore power with the battery disconnect turned off.

Some switches have a shield on the sides to help prevent accidental battery shutdown when trying to operate the baggage door lock switch.

To operate the battery disconnect:

- 1. Press up on the rocker switch to turn on the disconnect and reconnect the batteries. This will make the 12 volt system ready for use. When the battery disconnect is turned on, the indicator light will illuminate.
- 2. Press down on the rocker switch to turn off the battery disconnect and disconnect the batteries. When the battery disconnect is turned off, the indicator light will also turn off.

Battery Replacement Recommendations

This article provides information about general battery location and replacement recommendations.

Battery Location and Wiring

On diesel coaches, the house batteries are normally located in one of the lower compartments.

The chassis batteries are normally on the passenger side in the rear compartment on diesel pushers and under the driver's side cab on the front engine on Super C coaches.

On coaches built on a Ford chassis, batteries are normally located in the front of the coach and can be accessed by opening the hood.

A battery wiring label is located inside the battery compartment and shows how the batteries are wired together. Replacement batteries must be wired according to the diagram shown.

Battery Replacement

Replacement batteries should be of the same brand and capacity as the originals. Newmar has used several brands and sizes of batteries over the years. For specifics about your coach's batteries, check the labels on the batteries for brand and amp hour ratings.







A CAUTION

Newmar coaches are set up, configured, and tested to operate properly with the electrical system that was installed at the time of production, including, but not limited to the battery, solar, inverter, and any multiplex system(s). Modifications to any part of the electrical system may cause adverse effects to the coach function and should not be done. If the coach's electrical system is modified, including, but not limited to batteries, solar, or inverter systems, Newmar will not warranty or aid in the diagnosis of electrical, battery, multiplex, and/or charging system issues.

Any time one battery is replaced, it is important to test the rest of the batteries in the system to make sure they are still functioning properly and efficiently. If one defective battery is replaced, while leaving another weak or defective battery, lowered performance, or ultimately damaging the new or good batteries, may result.

MIMPORTANT

Serviceable Lead Acid Batteries Only: Charging batteries release gasses as the fluids inside boil, so it is critical to check the battery fluid levels regularly, particularly after extended periods of heavy use. Be sure to top off any battery that is showing signs of depleted fluid levels.

For more information about coach battery basics, as well as other inspection, safety, and care and maintenance recommendations, refer to Newgle.

SHORE POWER CORD AND CORD REELS

Glendinning Cablemaster Power Cord Reel Quick Start (Models: CRR-50 and CRRA-50)

This article provides brief operation instructions for a Glendinning Cablemaster Power Cord Reel (Models: CRR-50 and CRRA-50).

Operation

To extend the power cord:

- 1. Pull out sufficient cord length that will allow you to route shore power cord to the electrical distribution box.
- 2. Plug the molded end into the receptacle.

To retract the power cord:

- 1. Detach plug from receptacle using lever on plug.
- 2. Press and hold the button and the power cord will automatically retract (CAUTION it is advisable to monitor the progress of the power cord as it retracts and stores onto the reel).

Maintenance

Experience has shown that when only a short section of power cable is regularly used, the cable may be subject to "kinking". To relieve this condition, routinely extend the power cable completely and stretch it on any smooth surface. Allow the Cablemaster to retract the cable onto the reel. At least once a year, inspect all AC and DC wiring connections and make sure they are free of corrosion and connections tight.

TRC Shoreline Power Cord Reel Quick Start (Model: RH5)

This article provides brief operation instructions for a TRC Shoreline Power Cord Reel (Model: RH5)

This unit is designed with a clutch type drive to allow direct engagement during retract and clutch disengagement to allow for free spooling during release. These features are controlled using the rocker switch assembly MH2021, RV2100, or equivalent previously installed.

To correctly operate the unit, follow the steps listed below. If the unit does not perform according to the instructions below, first recheck wiring for any issues.





Motor Operation

- 1. Ensure power is being supplied by the 12 VDC source.
- 2. Locate the switch installed. If using Southwire switches, identify the label markings
- "RETRACT" located at the top switch position and "RELEASE" located at the bottom switch position.
- 3. To retract the cord back onto the reel, press and hold the switch in the top "RETRACT" position until the desired amount of cord is returned to the reel.
- 4. To release the cord from the reel, press the switch MOMENTARILY in the bottom "RELEASE" position. This unlocks the spool and allows for the cord to be manually pulled to a desired length. DO NOT attempt to pull cord from the reel without first pressing the switch momentarily in the bottom "RELEASE" position. Only a MOMENTARY press of the switch in the "RELEASE" position will be needed. DO NOT attempt to continuously hold the "RELEASE" switch position, doing so will cause the cord to unravel on the spool.

Cord Operation

Use only approved applicable outlets. Cord connector has a built-in Easy-T-Pull handle for easy disconnect.

User Maintenance

This unit does not have any user serviceable parts. The user can perform periodic inspection of the cord to insure it is still in usable condition. DO NOT use if the cord is damaged.

Source(s): Southwire Shoreline Reels Operation Instructions Model #RH5 Product(s): TRC 50 Amp 34' Power Cord Reel w/Pigtail (<u>Model: RH54331RM, Newmar Part Number: 132025</u>)

FUSE PANELS

House and Chassis Fuse Panel Overview (Freightliner Diesel Pusher)

This article provides information and the location of the house and chassis fuse panels on diesel pusher coaches built on a Freightliner chassis.

Inside the Coach

House Fuse Panel

On a diesel pusher coach, the house fuse panel, which controls most of the components and appliances inside the coach, is located in the bathroom, front overhead next to the 120 volt breaker panel, or the rear wardrobe. This panel



contains fuses and breakers that are connected to the main appliances in the coach, from the refrigerator and television to the lights in the bedroom and slideouts.

Some external components are fused in the house fuse panel. For example, the fuses for the water pump, water heater, security lights, and basement storage lights may be located in this panel.

Outside the Coach

House Fuse Panel

House battery and disconnect fuses are located in the compartment with the shore power cord. These fuses control the battery boost, battery disconnect, keyless entry, hydronic heat, LP detector, and entrance steps. In this same location, 12 volt circuit breakers provide power to the house fuse panel, slideout motors, power awnings, and the entry step.

Freightliner Chassis Fuse Panels

The Freightliner chassis fuse panels are located in the left front baggage compartment under the driver's seat. An additional chassis circuit fuse panel is located in the chassis battery compartment on the rear passenger side of the coach. The Freightliner chassis manuals contain detailed information on what fuses are located in these panels.

KIB 12 Volt Fuse Panel

The Newmar KIB fuse panel is also located in the left front baggage compartment under the driver's seat. This panel contains fuses that power the dome light, front visor, and solar panels (late 2015 model year), as well as for the entrance step, back-up monitors, navigation, cargo lights, and keyless entry. The ignition lock-out for the slideouts and shades is also located on this fuse panel.



House and Chassis Fuse Panel Overview (Spartan Diesel Pusher)

This article provides information and the location of the house and chassis fuse panels on diesel pusher coaches built on a Spartan chassis.

Inside the Coach

House Fuse Panel

On a diesel pusher coach, the house fuse panel, which controls most of the components and appliances inside the coach, is located in the bathroom, front overhead next to the 120 volt breaker panel, or the rear wardrobe. This panel



contains fuses and breakers that are connected to the main appliances in the coach, from the refrigerator and television to the lights in the bedroom and slideouts.

Some external components are fused in the house fuse panel. For example, the fuses for the water pump, water heater, security lights, and basement storage lights may be located in this panel.

Outside the Coach

House Fuse Panel

House battery and disconnect fuses are located in the compartment with the shore power cord. These fuses control the battery boost, battery disconnect, keyless entry, hydronic heat, LP detector, and entrance steps. In this same location, 12 volt circuit breakers provide power to the house fuse panel, slideout motors, power awnings, and the entry step.

Spartan Chassis Fuse Panels

The Spartan chassis fuse panels are located in the left front baggage compartment under the driver's seat. An additional chassis circuit fuse panel is located in the chassis battery compartment on the rear passenger side of the coach. The Spartan chassis manuals contain detailed information on what fuses are located in these panels.

KIB 12 Volt Fuse Panel

The Newmar KIB fuse panel is also located in the left front baggage compartment under the driver's seat. This panel contains fuses that power the dome light, front visor, and solar panels (late 2015 model year), as well as for the entrance step, back-up monitors, navigation, cargo lights, and keyless entry. The ignition lock-out for the slideouts and shades is also located on this fuse panel.



GENERATORS

Generator Compartment Overview

This article provides basic information about the generator compartment.

This compartment is not to be used as a storage area. Storage of combustible materials or containers on or near any appliance in this compartment may create a fire hazard. Do not store such materials or containers in this compartment.

Do not place anything in and/or around the generator; placing items in the generator may cause generator issues and/or overheating. Always disconnect or disable remote start wiring before attempting service work.

Generator and GenStart/Stop Switch Overview for Diesel Coaches

This article provides basic operation instructions for a generator and GenStart/GenStop switch on a diesel coach.

Generator Function and Location

The generator is wired into the Automatic Transfer Switch and will power all of the 120 volt circuits in your coach. Your generator may be located in a side compartment or at the front of the coach in between the frame rails of the chassis. Some generators are mounted on slides for easy access and may need to be unlocked before free movement is allowed. The main breakers for the output legs are located on the generator start panel.

Operating the Generator

The generator can be started from the rocker switch on the dash, from other remote start switches (if equipped), from the start switch on the generator itself, or from the SilverLeaf touchscreen (if equipped).

The generator in your coach runs on the same diesel fuel as your main engine. The diesel fuel is drawn through a separate supply tube that is positioned in the tank in a manner that will not allow the generator to draw fuel and run if the tank level dips below the ¹/₄ level.

Depending on the ambient temperatures, the generator may pre-heat prior to cranking. This pre-heat condition is noted by flashing the light on the generator start switch until the cycle is complete (up to 15 seconds). Once it has pre-heated sufficiently, the starter will engage and the engine will start.

WARNING

It is critical that the AGS system be turned off any time the generator is going to be serviced. Failure to deactivate the AGS system may result in damage, injury, or death if the Genset should start unexpectedly. Also, if the AGS system is set and the generator is turned off at any switch, it will clear the AGS settings.

Before starting the generator:

- 1. Turn off the air conditioners and any other large electrical loads, as recommended by the generator manufacturer.
- 2. If the generator previously ran out of fuel, add fuel to the tank.
- 3. Prime the generator by holding the generator switch in the stop position.





WARNING This compartment is not to be used as a storage area. Storage of combustible materials or containers on or near any appliance in this compartment may create a fire hazard. Do not store such materials or containers in this compartment.

A DANGER

To start the generator:

- 1. Press and hold the generator start switch in the "Start/Preheat" position. It will automatically delay and pre-heat.
- 2. The indicator light will flash rapidly while pre-heating, and the generator will crank and start.
- 3. When the generator starts, release the switch.
- 4. The indicator light will stay illuminated while the generator is running.

To stop the generator:

- 1. Press the generator switch in the "Stop" position.
- 2. Release the switch.
- 3. The indicator light will turn off when the generator stops.

Service Required Indicator

- The generator switch indicator light may flash in a series of three quick flashes, followed by a short pause, and then quickly flash three more times. These flashes indicate that service is required.
- 2. Refer to the owner's manual for your specific generator for more in-depth descriptions of flashing codes.

Excessive cranking can damage the starter motor. Do not crank the generator more than 30 seconds at a time, and allow at least two minutes before trying again if the first attempt fails.

A CAUTION

Failure to turn off the 120 volt appliances when starting or stopping the generator may damage the transfer switch and/or electrical appliances.

If your coach contains an Energy Management System, 8kw generator, and three roof air conditioners, the combined load may exceed the capabilities of the generator. Please remember to turn off one of the air conditioners as the 8kw generator is not intended to run all three roof air conditioners at the same time.

2025 KIB L-Panel LCD Capacitive Touch Panel Guide: Systems

The Systems button on the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) displays the controls for the water pump, heater, generator, Aqua Miser, TV lift, and/or theatre mode. This vertical touch panel is only installed on coaches also equipped with a SilverLeaf touchscreen.

IMPORTANT

The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

Touch the SYSTEMS button. Then select which system you wish to control. Once a button is touched, it will turn red, indicating the selected system is active. The buttons are gray while the system is inactive.

The available buttons will vary by coach model and floorplan, as well as installed options, may include, but are not limited to:

- WATER PUMP
- HEATER (Turns the fan blower on and off)
- TV LIFT UP
- TV LIFT DOWN
- GENERATOR START/STOP
- AQUA MISER LT
- THEATRE MODE (Select coach models and years only)
 - This mode turns off all lights in kitchen and living room, lowers all living room and cockpit shades, turns on pre-programmed accent lights (may vary by floorplan), and raises the TV.



result in death or serious lojory. The formable liquids used to power these items can cause a	peuvent causer un emposonnement au monozyde de corbone du l'asphysie, ce qui pourrait entraîter des blessures graves ou la mort.
The or explosion, which can result in death or serious highly, fo reduce risk: a) Do not ride in the vehicle storage area when vehicles are present.	Les liquides inflammables ablisés paur propulser ces machines provent causer un incendie au une explosion, ce qui prut entraîner des blezaures graves no la mort. Pour réduire la risque:
b) Do out cleep in the vehicle storage area when vehicles are present.	 a) Ne pas circuler dans l'aire de rangement du véhicule si des véhicules s'y trouvent.
c) Close doors and windows in walls of separation (if installed) when any vehicle is present.	 b) He pus dormir dans l'aire de rangement du véhicule si des véhicules s'e trouvent.
d) Run heel suit of enginess at stored vehicles after shutting att heel at the tank. 4) Do not tore, transport, or dispense heel inside this vehicle. 6) Open the windows, openings, or air ventilation systems provided for venting the baseportation area when	c) Fermer les portes et tentites qui se travent dans les claispes (le cas échéant) si au moins au vélicule est autrepade. (l) Équiser le carborant contenu dans les molteurs des véhicules antrepades après avoir sougé l'alimentation es carbarant au réservoir.
vehicles are present. g) Do not operate propane appliances, pilot lights, or	4) Ne pas entreposer, transporter ou distribuer de carburant à l'intérieur de ce véhicule.
electrical equipment when motorized vehicles are present.	 Duvrir las fenilites, ouverfares ou systèmes de semillation d'air tournis pour ventiller la zone de transport lorspae des véhicules s'y trouvent.
	§) Ne pas faire fonctionner d'appareits au propane, de veilleuors ou d'équipement électrique en présence de véhicules motorises.

A DANGER

IMPORTANT

Lower the television lift completely for travel to prevent damage to the television and surrounding equipment.

Televator control switches and touchscreen buttons should be pressed and immediately released. Do not continue to hold the UP or DOWN switch or button, as this may cause the television lift to enter into programming mode. If programming mode is reached, refer to the re-calibration article in Newgle for more information.

2025 SilverLeaf Touchscreen Guide: Generator

The Generator screen displays the current generator operating status, generator run hours, engine RPM, AC voltage, frequency (in Hertz), and engine temperature.

IMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

A WARNING

If the AGS feature is enabled, make sure the coach is outdoors. Do not operate the generator in a confined space or a garage.

Press the Generator button to view the generator operating and Auto Generator Start (AGS) statuses. The Generator screen allows the user to start and stop the generator and view the current generator operating status, including generator run hours, engine RPM, AC voltage, frequency (in Hertz), and engine temperature. This screen also displays the AGS locks and triggers and allows the user to clear the AGS locks.

	TUE FEB 20, 2024	68°	9:26 AM	*
HOME	Stop) MANUAL START	MANUAL STOP	0:40 HRS 0 RPM 64°	
AC POWER	LOCKED OUT CLEAR LOOK	ALCOP NECESSO	LOCKED OUT SETTINGS	LIGHTS
GENERATOR	MANUAL FLA SAFETY SWIX QUIET TEME			TV LIFT DOOR LOCKS
WATER				VENT FANS
BLOCK H	ATER BATTERIE	s cox	CH MODE FLO	AWNINGS OR HEAT

Status: Displays the current state of the generator above the Start button (Stopped, Cranking, Running, Disabled, or Off).

Hours: Displays the generator total run time (in hours) and is displayed in the upper right-hand corner of the screen.

Locked Out: Displays the list of items that may prevent the AGS from starting. If any of the lockouts are active, the text will change to blue to display why the AGS is locked.

- Activity Flag = Lockout due to manual start/stop activity while AGS system is enabled
- Manual Flag = Genset was started manually
- Safety Switch = Front hood safety switch is activated
- Quiet Time = AGS will not start due to quiet time settings

Autogenstart: This displays the list of items that may have triggered the AGS to start. If any of the triggers are active, the text will change to blue to display why the AGS started the generator.

- Battery = Generator started due to house battery voltage
- Chassis = Generator started due to chassis battery voltage
- LVRM = Generator started due to heat or cooling demand from living room air conditioner
- Kitch = Generator started due to heat or cooling demand from kitchen air conditioner
- Bed = Generator started due to heat or cooling demand from bedroom air conditioner
- Scheduled = Generator started due to the exerciser schedule

Manual Start and Stop Buttons

The Manual Start and Stop buttons allow the user to manually start and stop the generator.

Clear Locks Button

The Clear Locks button allows the user to reset the auto generator start (AGS) function by clearing the auto generator start safety lockout flag. A lockout occurs when the generator slide has been opened or if the genset has been manually started from another switch in the coach (such as the dash, bedroom overhead cabinet, or cord compartment). This prevents the generator from starting for safety reasons.

AGS Settings Button

Press the AGS Settings button to access the AutoGenStart Options screens. For more information about these settings and options, refer to the SilverLeaf Touchscreen 2025 AutoGenStart Settings and Options article in Newgle.

Press the Back button to return to the previous screen.

SilverLeaf HMS404 Touchscreen Display Guide: Genset

This article provides a brief overview of the Genset Screen on the SilverLeaf HMS404 Touchscreen Display typically located in the water compartment.

IMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

The Genset screen (if equipped) displays the current generator information, generator run hours, engine RPM, and engine temperature.

Manual Start and Stop Buttons: The Manual Start and Stop buttons allow the user to manually start and stop the generator.

Status: Displays the current state of the generator above the Start button (Stopped, Cranking, Running, Disabled, or Off).

Hours: Displays the generator total run time (in hours) and is displayed in the upper right-hand corner of the screen.



WARNING

If the AGS feature is enabled, make sure the coach is outdoors. Do not operate the generator in a confined space or a garage.

Generator Maintenance

This article provides information on the care and maintenance of the generator.

Before starting your generator for the first time each day, and subsequently after each eight-hour run cycle, perform the following checks to make sure it is ready to be used.

- 1. Make sure the carbon monoxide detectors in your unit are working.
- 2. Check for signs of fuel or exhaust leaks.
- Make sure there is adequate clearance around the generator for proper ventilation. Also check for sloping ground or any other obstructions that may have occurred. Tall grass or other items that come in contact with the generator may interfere with ventilation or cause a fire.
- 4. Check the oil and coolant levels, and inspect for leaks.
- 5. Check the battery connections to make sure they are tight and clear of corrosion.
- 6. Inspect the generator compartment for road debris or damage that might affect the performance or safety.
- 7. Turn off major appliances (such as air conditioners, televisions, and other electronics that may excessively load the generator or may be sensitive to initial voltage surges).

The hour meter installed on the generator calculates the number of running hours of the generator motor. This is used for maintenance schedules. Regular oil changes and other maintenance performed at the prescribed intervals will greatly extend the life of your generator.

INVERTERS AND CONVERTERS

Inverter and Converter Overview

This article provides basic information about the role and operation of inverters, converters, and inverter/converter combination units.

Inverters: The inverter modifies direct current to alternating current to provide power to specified appliances and entertainment systems. The inverter performs this action by using a transformer to increase the voltage and modify the higher voltage into a usable alternating current power. For this function to occur, the inverter must be powered, set up, and turned on. A variety of inverters are used by Newmar; however, most have a control panel located in the overhead cabinet with other switches and controls.

Inverter/Converter Combination Units: The inverter/converter combination provides battery charging and allows the 120 volt power from shore power or the generator to pass through the inverter. The inverter performs this charging action by using the transformer to decrease the voltage and rectify the alternating current into useable direct current voltage. This is regulated by internal-sensing circuitry based upon the battery bank's state of charge and several other factors, depending on the coach's particular inverter brand and type.

This type of unit also performs the inverter function. For this function to occur, the inverter must be powered, set up, and turned on. A variety of combination units are used by Newmar; however, most have a control panel located in the overhead cabinet with other switches and controls.

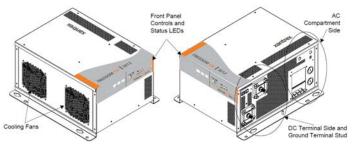
Converters: A converter transforms alternating current or shore power 120 volts to low-voltage direct current to provide power to the coach's 12 volt house and chassis batteries. This function occurs automatically when 120 volts are supplied to the converter. Converters are usually located in the cord compartment of coaches that do not have an inverter/converter combination unit.

Xantrex Freedom SW 3,000 Watt True Sine Wave Inverter Quick Start (Model: FSW3012)

This article provides basic operation instructions for a Xantrex Freedom SW 3,000 Watt True Sine Wave Inverter (Model: FSW3012). The inverter may be located in the basement compartment between frame rails or in a separate basement compartment with or beside the batteries.

Overview

The Freedom SW Inverter/Charger is a true sine wave inverter/charger that can be used for mobile, marine and commercial applications. The Freedom SW Inverter/ Chargers are designed to operate with a wide variety of generators and are capable of operating in parallel with a generator for short durations to assist with starting large loads.



The Freedom SW is a convenient combination of an inverter, multistage battery charger, and transfer switch in one electronic device.

Inverter Operation Using the Front Panel

Once the inverter/charger is installed, you can operate it in invert mode. To operate in invert mode from the front panel:

- 1. Press the INVERTER ENABLE button on the Freedom SW on the front panel. The INVERTER ENABLED LED turns on and connected loads will be energized.
- Note that if AC is present and being passed through, the INVERTER ENABLED LED will still turn on to indicate inverter mode has been enabled. However, AC will continue to be passed through to the loads until conditions exist that cause AC to be disqualified, in which case the unit will transition to invert mode and power up critical loads.
- 3. Connect AC input power. The charger automatically starts up when qualified AC power is connected.
- 4. Disconnect AC power from inverter input by opening the breaker or disconnect.
- Place a load on the inverter. For example, plug a 100-watt light bulb into an outlet that the inverter is powering. Press the INVERTER ENABLE button on the Freedom SW. The INVERTER ENABLED LED turns on. The inverter should run the load using battery power.
- To test the charger, reconnect the AC input power to allow AC to the AC input. The AC In/Charging LED should start flashing after a brief delay. Any AC loads previously powered by the inverter will also work at this time.
 NOTE: On dual input models, only AC Input L1 needs to be powered for the unit to operate.
- 7. Remove the AC input power. The inverter/charger should transfer to invert mode immediately. (The transfer relay will make a clicking sound and the INVERTER ENABLED LED will turn on.) Loads should continue to operate uninterrupted. If any part of this test fails, determine the cause before using the unit.
- Monitor the Freedom SW Front Panel. The indicator LEDs on the front panel show you the operating status of the Freedom SW. A description of the LEDs is provided. If none of the front panel LEDs are on, refer to the "Troubleshooting" section in Xantrex's Owner's Manual.

Front Panel LEDs

LED Label: Inverter Enabled

- Color: Steady Green
- Status: If utility and generator AC is unavailable and operating conditions are met, the Freedom SW will produce AC voltage to power loads.
- Action (or Status Item): You can run your appliances from the inverter.

LED Label: Gen Support

- Color: Flashing Green
- Status: The inverter is assisting a generator in powering loads.
- Action (or Status Item): You can run your appliances from the inverter.

LED Label: AC In

- Color: Steady Green
- Status: When the Freedom SW is connected to a qualified AC source or a generator, the AC IN LED turns on.
- Action (or Status Item): You can run your appliances from an AC source like the utility grid or a generator.

LED Label: Charging

- Color: Flashing Green
- Status: Freedom SW is connected to a qualified AC source, is charging and passing power to AC loads.
- Action (or Status Item): Your battery bank is being replenished and AC loads are receiving power.

LED Label: Fault

- Color: Steady Red
- Status: A fault condition was detected on the network.
- Action (or Status Item): Investigate and clear the fault condition.

LED Label: Warning

- Color: Flashing Red
- Status: A warning is detected.
- Action (or Status Item): Investigate by examining warning logs on SCP.

Freedom SW AC and DC Side Panels

If AC output or passthrough voltage issues exist, check the circuit breakers located on the side panel and reset if necessary.

The DC side of the Freedom SW has the equipment ground plug, the positive (+) battery terminal, and the negative (-) battery terminal plus the remote network com port and battery temperature sensor com port.



- 1. Remote (REM) jack provides connection for the Freedom Sine Wave remote panel.
- 2. Battery temperature sensor (BTS) jack provides connection for the battery temperature sensor (supplied).
- 3. AC Output circuit breaker reset button
- 4. AC Input circuit breakers reset buttons.

NOTE FROM NEWMAR

On most Newmar coaches, the inverter is controlled via the SilverLeaf touchscreen. For more information, refer to the DC Power portion of the SilverLeaf touchscreen guides in Newgle.

Faults and Warnings

A fault affects the operation of the unit. A manual fault requires user intervention by clearing the condition and then pressing the CLEAR FAULT RESET button on the inverter/charger's front panel. A warning alerts you to a condition that could possibly affect operation of the unit.

Source(s): Xantrex Freedom SW Sine Wave Inverter Owner's Guide Product(s): Xantrex Freedom SW 3,000w True Sine Inverter (<u>Model: FSW3012, Newmar Part Number: 125516</u>)

2025 SilverLeaf Touchscreen Guide: AC Power

The AC Power screen displays the alternating current (AC) power source, line voltage, current (or amperage) usage, and AC line frequency (Hz).

IMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Press the AC Power button to view the AC power source, line voltage, current (or amperage) usage, and AC line frequency (Hz). From this screen, the user can access Load Shed Setting and Load Status information, as well as view the max charger draw and the status of the inverter(s).

AC Power

Power Source: The AC Power Source (shore power, generator, or inverter power) values are displayed for each leg, allowing the user to monitor the current power source.

Line Frequency: The AC line frequency is the number of complete cycles (in Hertz) per second or waveforms and the frequency at which AC reverses its polarity.



Line Voltage: The AC line voltage is a numerical number for each leg (in volts) and provides a quick place to check voltage from different power sources without using additional tools.

Amperage: AC Amperage values are displayed in a bar graph and numerically for each leg and measures the amount of current flow (in Amps) on each leg.

Max Charger Draw Amps: The AC Power screen also displays the maximum charger draw amps setting value. This setting limits the amount of amperage draw from the inverter charger and should not be set higher than 30 amps.

Inverter Status: The inverter status is displayed on this screen. Press the Change button on this screen to turn the inverter ON or OFF. If the inverter is on and receiving voltage via shore power or generator power, the inverter status may display as "Standby." A second inverter and its controls will appear in King Aire coaches only.

2025 SilverLeaf Touchscreen Guide: DC Power

The DC power screen displays the status of the inverters or chargers and the direct current information. This screen also provides access to the inverter and charger settings screens.

MPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Press the DC Power button to view the status of the DC inverters and access the Inverter Settings screens. This button displays the batteries and their voltage, the status of the chargers/inverters, and the rate of charge.

Battery: A battery icon displays as a vertical bar graph to indicate the battery charge level in percent-charged (%) and battery temperature values in degrees (°).

DC Current: The arrows between the battery and inverter/charger icon(s) indicate the direction of the DC current flow (to the battery when charging and from the battery when inverting). The DC current or amperage value is also displayed.

Charger Status: This shows the current charger status, which can be displayed as one of the following:

- Standby: No AC current is present
- Bulk: First stage of charging (aggressive charge)
- Absorb: Charging at a value the batteries will accept
- Float: Reduced charge to finish or top off a battery

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

		03	3110 PM
HOME		35A Bulk	
AC POWER	63°		LIGHTS
DC POWER		CONNECTED	SHADES TV LIFT
GENERATOR	Charger 1	IN SETTINGS	DOOR
WATER			FANS
CLIMATE	oonin on al gel	HISTORY	AWNINGS
BLOCK HEATER	BATTERIES	COACH MODE	FLOOR HEAT

IMPORTANT

Only coaches equipped with two inverters will show two inverters and two chargers.

LIGHTING

Interior and Exterior Lights Overview

This article provides basic information about operation, maintenance, and replacement of interior and exterior lights.

Interior Lights

A Newmar coach's electrical and lighting system is designed for maximum reliability, functionality, and style. Your coach may feature traditional on/off switches or multi-switch touch panel light and accessory switch panels. Located throughout the unit, these switching devices are used to turn lights on and off, as well as to operate power shades and window treatments. Many coach models boast LED accent lights and LED wall sconces custom-designed for Newmar.

Flip the switch or touch the switch panel to operate the light or accessory you desire. Some lights may also have dimming features, allowing you to adjust the interior lighting for mood or comfort. For more details about the interior lights, refer to the documentation in Newgle.

Many of these bulbs are made as both filament and LED. Most LED bulbs are polarity-sensitive unlike filament bulbs. When attempting to replace filament-type bulbs with LED-type bulbs, it is possible for the light fixture to be wired in reverse polarity for the LED replacement bulbs. Switching to a different type of bulb may require a wiring change. Newmar recommends any wiring modifications be performed by an authorized service technician.

IMPORTANT

When replacing halogen bulbs, do not touch the bulb, as the oil from your hands will reduce the bulb's life.

Turn off the lights to avoid possible short circuits, blown fuses, and burns while removing and replacing bulbs or lights. Depending on the year and model of your coach, it may be equipped with LED light fixtures with the lights embedded into the light housing.

Many of the LED light fixtures have integrated LED assemblies that are non-serviceable and non-replaceable. When LED light bulbs burn out in this type of fixture, the complete light must be replaced. Replacement bulbs or light fixtures are available for purchase through the Newmar Parts Department.

WARNING

Do not substitute bulbs just because they will fit, as it may cause overheating, back feed, or damage to the light fixture or lens.

Exterior Lights

Replace any exterior light bulbs or fixtures as needed to maintain DOT safety requirements. When servicing interior or exterior lights, make sure you replace any light bulb with the same bulb number (normally stamped on the base of the bulb or printed on the bulb). Replacing the bulb with the identical part number will ensure the wattage and base are the same.

The coach may have headlights installed that are atmospherically vented, so condensation may occur in these headlight assemblies. Under normal driving conditions with the headlights turned on, the condensation will dissipate, allowing it to escape through the vent.

IMPORTANT

Always check the operation of all headlights, turn signals, and clearance lights prior to traveling.

It is necessary to keep exterior lights clean, as dirty lights have diminished output and reduced visibility. To clean your exterior lights, use a mild soap designed for automotive car washing. Avoid using harsh cleaners, abrasive products, and petroleum-based products or other chemicals.

Ceiling Lights (All LTS) Switch Overview

This provides a basic operational overview for the Ceiling Lights (ALL LTS OFF) switch on 2025 and newer coaches.

ELECTRICAL

The Ceiling Lights (ALL LTS OFF) switch may be located near the entrance door to provide easier access to turn the lights on and off. The switch will only turn on ceiling lights but will turn off all lights on the ATC/KIB network. The switch may be equipped with backlighting to provide better visibility in the dark.



This switch only operates lights connected to the KIB/ATC system and may not affect any manual on/off lights installed in closets, wardrobes, compartments, etc.

2025 KIB L-Panel LCD Capacitive Touch Panel Guide: Lights

The Lights icon on the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) displays the controls for the lighting settings for each area, such as living room, kitchen, bedroom, and bathroom(s). This vertical touch panel is only installed on coaches also equipped with a SilverLeaf touchscreen.

IMPORTANT

The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

Once a function is selected, such as Lighting, the screen will display additional buttons pertaining to the area in which the panel is mounted. The available buttons will vary by coach model and floorplan, as well as installed options. Potential buttons may include, but are not limited to:

- CEILING LTS
- MIRROR LTS BATHROOM LTS VANITY LTS
- BEDROOM LTS
- COURTESY LTS ALL LIGHTS ON
- ALL LIGHTS OFF

WALL LTS

ACCENT LTS

The All Lights On/Off buttons toggle all lights on and off in the coach at once.

Touch the ON button to turn on the selected light circuit (the button will

turn from grey to red). Touch the OFF button to turn off the selected circuit (the button will turn from red to grey). On lighting circuits with dimming capability, drag the slider to adjust the brightness of the selected light circuit.

Once a button is touched, it will turn red, indicating the circuit is active. The buttons are gray while the circuit is inactive.

2025 SilverLeaf Touchscreen Guide: Lights

The Lights screen allows the user to control the interior and exterior coach lights controls. Press the Lights button on the Home screen to open the lights screen(s).

🛦 IMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

LRM/KIT

DINETTE

RH LH LRM/KIT LR READING READING CEILING SEATING

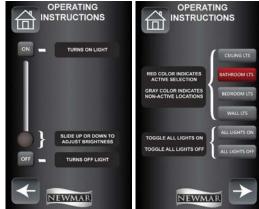
Interior Lights

Press the Lights button to display the interior light controls. If the desired light control(s) are not on the screen, look at the coach room buttons, and select the appropriate lighting area.

Selecting a room will change the available lighting controls.

ON/OFF or Dimmer: Use the ON and OFF buttons, or the associated dimmer to adjust the lighting of the desired light(s).

ALL LIGHTS ON or ALL LIGHTS OFF: Press the All Lights On button to turn all of the interior coach lights on, and press the All Lights Off button to turn all of the interior coach lights off.





From this screen, the user may also access the controls for the Exterior Lights and Courtesy Lights.

Exterior Lights

Press the Exterior Lights button to display the exterior awning and security light controls.

ON/OFF: Press the ON or OFF button to control the desired security light (driver or passenger).

ON/OFF: Press the ON or OFF button to control the desired window awning.

Press the Back button to return to the previous screen.



SilverLeaf HMS404 Touchscreen Display Guide: Lights

This article provides a brief overview of the Lights Screen on the SilverLeaf HMS404 Touchscreen Display typically located in the water compartment.

MPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Press the Lights button (if equipped) to view the Lights page in order to turn the driver and passenger security lights ON and OFF.

ON/OFF Buttons: Press the ON or OFF button to control the desired security light (driver or passenger).



RECEPTACLES AND ACCESSORY CHARGERS

120 Volt Outlets Overview

This article provides information about the 120 Volt outlets located throughout the interior of the coach.

Several 120 volt receptacles are located throughout the interior of the unit. These receptacles require three-pin plugs that provide proper grounding to protect you from electrical shock. The breaker for the outlets are usually located in the breaker box. If the breakers are on the inverted circuitry, they will be located in the subpanel near the main breaker box.

In addition, some 120 outlets may also provide USB charge ports as well. Outlets with USB charge ports are powered when the outlet has 120 volts available from either shore power, the generator, or the inverter.

A IMPORTANT

Do not use an adapter, cheater, or extension cord that breaks the continuity of the ground circuit to the ground pin. Never remove the ground pin from a plug in order to connect it to a two-pronged ungrounded outlet.



USB Outlet, Auxiliary Input, and 12 Volt Receptacle Overview

This article provides a functional overview of the USB outlet, auxiliary input, and 12 volt receptacles in a coach.

Standard USB and/or USB-C Outlets

USB outlets may be located in various places throughout the coach. The number of ports may vary. The USB and/or USB-C outlets are for charging only and are not connected to any entertainment equipment. They simply provide convenient accessory charging without filling your 120 volt outlets with chargers. The round USB/USB-C outlets typically work from the 12 volt electrical system; depending on the location, they may be powered from the house or the chassis 12 volt system.



Auxiliary Inputs

USB ports labeled with auxiliary input are normally connected to the dash radio and allow input to the radio via USB and or 3.5 mm cable. Refer to the radio's operating manual for information about selecting auxiliary inputs.



12 Volt Receptacles

Your coach may be equipped with one or more 12 volt receptacles conveniently located in the dash area. These 12 volt receptacles allow you to plug in a variety of 12 volt DC accessories, including cell phone battery chargers, camera battery chargers, etc. These are fused at 20 amps.



Ground Fault Circuit Interrupt Outlets (GFCI) Overview

This article provides an overview of the purpose and function of a ground fault circuit interrupt (GFCI) outlet.

The Ground Fault Circuit Interrupt (GFCI) outlets protect the user from ground faults between a hot wire and ground. The 120 volt electrical outlets in the kitchen and bath area are GFCI-protected receptacles.

MPORTANT

This information is generic in nature and IS NOT specific to your coach. The exact location of GFCI outlets vary by year, model, and floorplan and/or component options. The following location descriptions and images are for example use only.

Location Tips and Examples

The electrical outlets located in the slideouts are typically wired through the kitchen GFCI. The exterior electrical outlets are typically wired through a bathroom GFCI.

On coaches equipped with the floor heat option, separate GFCI(s) are installed in a bathroom, cabinet, or closet and/or near the main breaker box. Some may be difficult to find and may require using a flashlight while looking inside cabinets.

Coaches with the holding tank heat pad option will have an additional GFCI located in the basement area; however, the exact location varies.

Note: Any component that gets plugged into a GFCI-protected circuit will not operate if the GFCI has tripped. In some cases, this may include other components and/or options installed, such as powered theater seating.

MPORTANT

Newmar recommends checking and resetting all GFCI outlets and 120 volt breakers, as well as replacing any blown 12 volt fuses when component(s) are inoperable.



Testing and Resetting GFCI Outlets

The GFCI outlets should be tested at least once a month. The Reset button needs to be pressed before starting the test.

- 1. The GFCI outlet must be supplied with 120 volt power for testing and general use.
- 2. Pressing the Test button on the GFCI outlet will trip and cease to supply power to the outlets on the GFCI, as well as any other outlets that are wired downstream of the GFCI outlet.
- 3. Pressing the Reset button will reset the GFCI outlet and all outlets downstream of the outlet. Some GFCI outlets may have a LED light as a visual indicator of the power status.
- 4. If a tripped GFCI outlet will not reset, disconnect everything plugged into them (i.e. hairdryer, coffee pot, or fan) or hooked up downstream; then try resetting the GFCI again.
- 5. If all loads are disconnected and 120 volt power is present to the GFCI outlet and the GFCI outlet will still not reset, it may require service or replacement by a qualified technician.

If the GFCI is working properly, the reset button will remain in the "IN" position. If an item plugged into a slideout or outside receptacle is not working, check for a tripped GFCI in the kitchen or bathroom. Likewise, if the floor heat or holding tank heat pads are not working, check the GFCI for that circuit.

A WARNING

The GFCI will not reduce the shock hazard if the short is between a neutral and hot wire or two hot load wires.

BrandMotion FreedomCharge MAX Qi Wireless Dash Charger Quick Start (Model: FDMC-1312)

This article provides an overview of the BrandMotion Dash Wireless Charging Station (Models: FDMC-1312), which may be built-in to the dash or cockpit area.

Charging your phone has never been easier. FreedomCharge uses the wireless charging standard, Qi, to keep your phone going without the hassle of plugging it in. This type of charging has taken off with use in homes, but not until recently have you been able to get this convenient and easy to use technology in your vehicle. Some coaches may have more than one wireless charging station installed; however, the size and shape of the charging area may vary. Some chargers may be mat-style (flat on a driver or passenger side console), and some may be vertically installed as a bucket-style.



Operation

The wireless charging stations typically turn on at the same time as the battery disconnect. Dash-mounted chargers are powered from the fuse panel in the shore cord compartment (usually the USB F18 fuse).

It works by using inductive charging technology to allow your smartphone to charge without connecting a charger. No longer will you have to search for your charger and orient it the correct way just to plug in your phone. Add a new level of convenience to your car and keep your eyes on the road, instead of fumbling with a tangled mess of cords. When a compatible device is placed on top of the charger, the audible tone sounds as the charger begins to charge phone, and the phone will also indicate it is charging. The updated triple coil allows charging through most thick cases, including Otterbox.

IMPORTANT

To find out if your cell phone is QI compatible, refer to your phone's user guide or contact your network service provider.

Features

- Utilizes the wireless charging standard, Qi to charge your phones without cables
- Does not interfere with your vehicle's Bluetooth functionality while using your infotainment system.
- Charge's your phone to 100% battery and tapers off to avoid overcharging.
- Uses an initial audible tone to indicate charging when the phone starts charging.
- Easy cut-to-fit design converts most any vehicle phone storage tray into a seamless factory-look charging tray without unsightly cables.
- The non-slip charging mat holds your phone securely in place while driving.

Source(s): BrandMotion FDMC-1310 Landing Page Product(s): BrandMotion Wireless Charging Unit (<u>Model: FDMC-1312, Newmar Part Number: 153213</u>)

Block Heater Outlet Overview

This article provides a basic overview of the block heater outlet.

Diesel coaches may have an outlet designed for use with the engine block heater. It may be located in the engine compartment or in one of the rear compartment bays.

This outlet may be controlled by the block heater button on coaches equipped with a SilverLeaf touchscreen. Coaches without SilverLeaf may have a switch in the overhead cabinet to turn the power to the outlet on or off, while others may be wired directly from the breaker box.



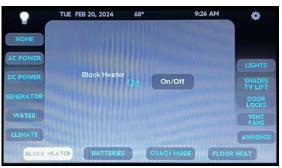
Coaches equipped with energy management systems operating on shore power of 30 amps or less may have power shed to the block heater if the other loads exceed the amperage set on the energy management system.

2025 SilverLeaf Touchscreen Guide: Block Heater

The Block Heater screen displays the status and control for the block heater. A block heater is a device that aids in warming the engine prior to starting, making it easier to start in colder weather.

MPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).



Press the On/Off button to toggle the block heater's electrical circuit on or off. The current status displays beside the button (ON, OFF, SHED).

SOLAR POWER

Dometic GoPower! 10-Watt Solar Panel Quick Start for Diesel Pusher Coaches (Model: Flex-10-HB)

This article provides basic information about Dometic GoPower! 10-watt solar panels that began being installed on select diesel pusher coaches during the 2023 model year. If installed, this 10-watt solar panel will trickle charge the chassis batteries when exposed to sunlight.

The solar panel is protected by a fuse normally located in the rear battery compartment on diesel pusher coaches (close to the chassis battery/batteries). The fuse is often marked with a label noting the solar panel.

The panel does not have an indicator or regulator since it is only a trickle charge and is not capable of producing enough voltage to damage batteries.

Larger solar panels (optional equipment on select coaches, such as option # L010) may also charge the house battery bank. For more information about larger solar panels, as well as the associated remote panel and controller, please refer to Newgle.



Victron SmartSolar MPPT Solar Monitoring via VictronConnect App

This article explains the solar charger-specific VictronConnect app usage, which can be used to monitor the solar charger, see its historical values, and if there are operational warnings or errors.

Refer to the general VictronConnect app manual (in Newgle) for information about the VictronConnect app itself, such as: how to install the app, how to connect to the solar charger, how to update firmware and more.

Note: Where battery voltage is referred in this chapter, a 12V battery is assumed.

VictronConnect app status screen

The status screen displays the solar charger model name together with the live solar charger information.

VE Smart Networking

The presence of the VE.Smart Networking symbol indicates that the solar charger is configured for VE.Smart Networking and is receiving battery temperature and/or battery voltage data from the VE.Smart Network.

Solar

- The solar gauge shows the solar output in relation to the maximum output power that the solar charger can generate at the set battery voltage and displays the dynamic real-time value of the solar array output power.
- The solar voltage measured at the solar terminals of the solar charger.
- The solar current flowing from the PV array into the solar charger.

Battery

- The battery voltage measured at the battery terminals of the solar charger.
- The current flowing from the solar charger into the battery.
- The battery state indicates the battery charge stage or if external control is active. These are the possible states:
 - Bulk: During this stage the solar charger delivers as much charge current as possible to rapidly charge the batteries. When the battery voltage reaches the absorption voltage setting, the solar charger activates the absorption stage.
 - Absorption: During this stage the solar charger switches to the constant voltage mode, where a pre-set absorption voltage is applied. When the charge current decreases below 2A or if the pre-set absorption time has elapsed, the battery is fully charged and the solar charger will enter the Float stage. Note that when an automatic equalisation is being performed this will also be reported as absorption.
 - Float: During this stage the float voltage is applied to the battery to maintain a fully-charged state. When the battery voltage drops below float voltage during at least 1 minute, a new charge cycle will be triggered.
 - External control: This will be displayed when another device is controlling the charge behaviour of the solar charger, bypassing its normal charge algorithm. Examples are when the solar charger is controlled by an ESS system or a managed battery.
- In case the charger is not charging a "Why is the charger off?" message will display. When clicking on this message, a new window will open with more information as to why the solar charger is not charging.
 © 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

Virtual Load Output

The state of the virtual load output, being switched on or switched off.

VictronConnect app history screen

The history screen shows a summary of the data collected over the previous 30 days. Swipe the screen to the right or left to show any of the 30 days.

To switch between portrait or landscape screen presentation click the fragmented square icon, or at the top left of the screen. The daily log shows:

- Solar yield: The energy (Wh) converted for that day.
- Solar Pmax: The maximum power (W) recorded during the day.
- Solar Vmax: The highest voltage (V) from the PV array during the day.
- Battery max and min: The first figure shows the maximum battery voltage (Vmax) for the day. The figure below is the minimum battery voltage (Vmin) for the day.
- Errors: This shows the daily number of errors, if any. To get more information about the error(s), click the orange dot. You may need to slide the display on your device up to see the errors.)
- Lifetime total: This shows the total energy converted by the installation (W and is not re-settable).
- Since reset: This shows how much energy has been converted by the installation since the last reset.

Clicking on any bar (day) in the graph will expand the information. It will show the time and percentage of the total charge time that the solar charger has spent in each Bulk, Absorption and Float charge stage.

You can use the charge times to see if the PV array is properly sized for your requirements. A system that never reaches the float stage may need more panels. Or perhaps the load should be reduced?

The history can be exported as a comma-separated file (CSV) by clicking the three connected dots symbol or the save symbol at the top right of the history screen. The symbol varies, depending on what platform VictronConnect is used. The history can be reset by clicking the clock with an arrow symbol at the top right of the history screen.

VictronConnect app error reporting

The VictronConnect app will indicate active errors while the app is actively connected to the solar charger. The error will show up in a pop-up window on the status screen together with the error number, name and a short error description.

The VictronConnect app also displays historical errors. To see these errors, navigate to the "History" tab and look at the bottom of each day column. An orange dot will indicate an error on that day.

Source(s): Victron Energy MPPT Solar Charger Manual



The Solar Charge History screen displays the current voltage and amperage from the solar panel and the output to the batteries, as well as the history in a graph.

IMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).





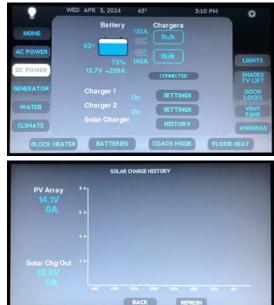
ELECTRICAL

If a 2025 coach (New Aire, Supreme Aire, Mountain Aire, London Aire, Essex, or King Aire) is equipped with a factory-installed Victron Solar controller, the DC Power page will include a History button. When pressed, the Solar Charge History screen will appear, which will show the 'PV Array' voltage and amperage displayed on the top left (this is for the solar panels, not the actual output of the charger).

The 'Solar Chg Out' voltage and amperage are displayed on the bottom left of the page, which is what the charger is putting into the coach's 12V system.

The displayed graph will track the history of the solar for 48 hours (up to 200A) on the left-hand side of the graph. The graph is a rolling graph, so the information will move from the right (0 hours) to the left (48 hours) as time passes. The left side of the graph will automatically scale to the level of amperage that it is brought in (i.e.: if the highest amperage over the last 48 hours is 50A, the max of the graph will be 50A).

The refresh button will update the graph to the most current information.



TRANSFER SWITCHES AND SURGE PROTECTORS

Transfer Switch and Surge Protector Overview

This article provides an overview of the transfer switch and the integrated surge protector.

The transfer switch allows your coach to be powered by more than one power source, while only allowing one active power source connection at a time. When the generator is turned on, this switch automatically transfers to generator power.

Surge protection was used on select coaches to protect the coach from power surges during storms and poor shore power conditions from the incoming shore power connection. Today, most transfer switches have integrated surge protection.

A WARNING

Due to the risk of electrical shock, service should be performed by a qualified electrician or authorized service technician. The electrical system may have multiple 120/240 volt power sources. All power sources must be turned off, and any auto generator start features must be disabled before servicing.

There will be a slight delay between the start of the generator and the electrical connection. This delay allows the generator to reach normal operating speed without needing to supply a required load. When the unit is plugged into shore power, an audible click will be heard in the transfer switch box. The sound is normal and indicates that the relay inside the transfer switch is engaging the outside power source.

NOTE FROM NEWMAR

After market surge protection placed at the shore power supply source is an optional product, which provides an increased layer of surge protection. However, it is not required or installed by Newmar.

Southwire Surge Guard 50 Amp Automatic Transfer Switch Quick Start (Model: 40350RVC)

This article provides basic operation instructions for a Southwire Surge Guard 50 Amp Automatic Transfer Switch (Model: 40350RVC).

The 40350 series automatic transfer switch (ATS) has many different protective features to protect your coach from low quality power. Included in these are protection against high voltage, low voltage, and an incorrectly connected chassis ground. If one of these fault conditions is encountered, the ATS will open both contactors in order to protect the coach. Once the fault condition goes away, the ATS will delay for approximately 2.5 minutes before trying to close the appropriate contactor again.

A remote power monitor may be installed in select coaches and allows for continuous visual indication of source voltage and load current or diagnostics.

ELECTRICAL

If the ATS fails to close the contactor or transfer when expected, check the 40450 display to see if an error message is displayed. The screen will flash an error message for that failure such as "Loss of Ground", "High Volt", or "Reverse Polarity". The error condition must be corrected in order for the transfer switch to function correctly.

If there is no error message and the display instead reads "Delay Active" this means that the fault condition has cleared and that the switch is going through a 2.5 minute delay before it will attempt to close the contactor again. Wait until this delay is over to see if the ATS correctly closes its contactor.

If no display is available, check the level of the input voltage to ensure it is within the proper operating limits. Also check that the ATS is correctly connected to chassis ground and that the neutral conductor is correctly connected to ground at the power pedestal. Wait 2.5 minutes to check if the fault condition was temporary and has cleared. If so, the contactor will pull in at the end of the 2.5 minute period.

Test Procedure

- 1. Plug RV's shore power cord into utility power source.
- 2. Wait for the time delay, then observe remote display of shore power status.***
- 3. Turn on RV's generator (generator power source is dominant over shore power). A 30 second delay will occur.
- 4. Observe remote display for generator output status (Volts/Amps).
- 5. Switch off generator, observe remote display of transfer "Delay Active-Shore Power."
- 6. Shore power activated, observe remote display (Voltage/Amps). ***Acceptable shore and/or generator power range is 100-135 Volts. Load (Amperes) 0-50 Amps.

Note: During generator (only) power-up, the monitor display will be blank for approximately 30 seconds for generator warm-up.

Source(s): Southwire Surge Guard Installation and Operating Instructions Model 40350RVC/ Southwire Surge Guard Model 40350 RVC Troubleshooting Guide Product(s): Southwire Surge Guard 50 Amp Automatic Transfer Switch (Model: 40350RVC, Newmar Part Number: 142469)

Southwire Surge Guard 50 Amp Automatic Transfer Switch Quick Start (Model: 40450RVC)

This article provides basic operation instructions for a Southwire Surge Guard 50 Amp Automatic Transfer Switch (Model: 40450RVC).

The 40450 series automatic transfer switch (ATS) has many different protective features to protect your coach from low quality power. Included in these are protection against high voltage, low voltage, and an incorrectly connected chassis ground. If one of these fault conditions is encountered, the ATS will open both contactors in order to protect the coach. Once the fault condition goes away, the ATS will delay for approximately 2.5 minutes before trying to close the appropriate contactor again.

A remote power monitor may be installed in select coaches and allows for continuous visual indication of source voltage and load current or diagnostics.

If the ATS fails to close the contactor or transfer when expected, check the 40450 display to see if an error message is displayed. The screen will flash an error message for that failure such as "Loss of Ground", "High Volt", or "Reverse Polarity". The error condition must be corrected in order for the transfer switch to function correctly.

If there is no error message and the display instead reads "Delay Active" this means that the fault condition has cleared and that the switch is going through a 2.5 minute

delay before it will attempt to close the contactor again. Wait until this delay is over to see if the ATS correctly closes its contactor.

If no display is available, check the level of the input voltage to ensure it is within the proper operating limits. Also check that the ATS is correctly connected to chassis ground and that the neutral conductor is correctly connected to ground at the power pedestal. Wait 2.5 minutes to check if the fault condition was temporary and has cleared. If so, the contactor will pull in at the end of the 2.5 minute period.





Test Procedure

- 1. Plug RV's shore power cord into utility power source.
- 2. Wait for the time delay, then observe remote display of shore power status.***
- 3. Turn on RV's generator (generator power source is dominant over shore power). A 30 second delay will occur.
- 4. Observe remote display for generator output status (Volts/Amps).
- 5. Switch off generator, observe remote display of transfer "Delay Active-Shore Power."
- Shore power activated, observe remote display (Voltage/Amps). ***Acceptable shore and/or generator power range is 100-135 Volts. Load (Amperes) 0-50 Amps.

Note: During generator (only) power-up, the monitor display will be blank for approximately 30 seconds for generator warm-up.

Source(s): Southwire Surge Guard Installation and Operating Instructions Model 40450RVC/ Southwire Surge Guard Model 40450 RVC Troubleshooting Guide Product(s): Southwire Surge Guard 50 Amp Automatic Transfer Switch (Model: 40450RVC, Newmar Part Number: 152216)

Surge Guard Automatic Transfer Switch Remote LCD Display Quick Start (Model: 40299)

This article provides basic operation instructions for a Surge Guard Automatic Transfer Switch Remote LCD Display (Model: 40299).

The optional Remote LCD Display is intended for use with Automatic Transfer Switch (ATS) unit 40350-RVC or 41390-RVC.

The Remote Power Control allows you to see detailed information such as voltages for Line 1 and Line 2, (typically 110-120VAC), current draws (0 to 50Amps), and status and conditions of the ATS, including time and date. Electrical faults, such as low voltage or an open ground connection, that cause the ATS to shut off power are shown on the remote display, allowing you to retrieve via the joystick a log of fault conditions kept by the ATS of electrical power at your location.

This is a helpful diagnostic tool that allows you to comprehend and correct problems with your RV's power. The display also features a right/left navigation lever allowing navigation through the various screens.



Features and Displayed Information

Main Screen

- Display of normal operating voltages and currents, for example 120V 25Amps for each Line (240V system). Shore power or generator power.
- Display of faulty power conditions responded to by ATS such as low voltages, high voltages, open ground, open neutral, reverse polarity, high frequency, etc.
- Display of delay condition when recovering from faulty conditions.

L1/L2 Volt and Current Screens: Displays line 1/2 voltage or current. This is handy as it allows you to view the voltage or current when there is a fault condition being displayed on the main screen.

Faults Screen: Allows you to view a history of up to 50 faults which have been logged by the ATS. Each fault that has been logged contains the fault, the voltages and currents at the time of the fault, and the time and date when it occurred.

Time/Date Screen: Displays the current time and date and allows you to set the current time and date on the ATS unit.

Joystick Lever: To navigate through screens and set the time and date.

Operating Instructions

Screen Navigation Using the Button/Lever

There are several information screens associated with the Remote Display which can be selected via the lever on the front of the unit. Pushing the lever to the RIGHT repeatedly will access the screens in the following order. Pushing the lever to the LEFT accesses the screens in the reverse order.

When the VIEW FAULTS screen is displayed, momentarily pushing the lever in accesses a log of faults which have been stored by the ATS unit. Viewing the fault log data will be explained in more detail below.

Display for Normal Operation

During normal operation, the Remote Display screen reads the status of the RV electrical power, showing continuous voltages and currents for power lines 1 and 2 coming into the RV on the main screen. A secondary screen showing SHORE or GEN will momentarily display approximately every 8 seconds, indicating whether your RV is running on power for your shore connection or whether the ATS has transferred you over to generator power.

Display During Fault Conditions

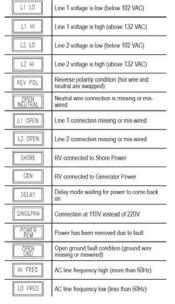
If there are any faults or problems with your electrical power, the Remote Display will show the particular faults on the LCD screen with a 3 second interval between each item. The faults displayed can be any combination of the ATS fault codes.

Display During Delay State

When the ATS is powered up, the Remote Display will display "Delay" and the elapsed time in seconds until it reaches 128 seconds. After the delay is completed, if shore power is good the ATS will connect power to the RV, and the unit will go to the normal operating screen showing voltages and currents as described above.

L1 VOLT | L2 VOLT Screens

These screens are useful for viewing the line voltages when the main screen is in delay or when L1 or L2 have a fault (line voltage that is too low or too high). The main screen will display line voltage between 102 and 132 volts; otherwise it will show that the line has a fault. The L1 VOLT and L2 VOLT screens however display a greater range, from 90 to 140 Volts. The L2 VOLT screen is only shown when using a 50 Amp ATS.



L1 CURR | L2 CURR

These screens are useful for viewing the line currents in amps when the Main Screen is in Delay or when it shows that L1 or L2 have a fault. The L2 CURR screen is only shown when using a 50 Amp ATS.

TIME/DATE Screen

View and/or set the current time and date on the ATS. To get to the TIME/DATE screen from the main screen, push the front lever right or left repeatedly until you see the time and date. To set, press the lever IN once quickly. You will see a blinking cursor. Push the lever left until the cursor is over the minutes digit.(Do not try to set the seconds - they reset to zero.) Once you have the correct setting for the minutes, continue on with setting the hour, date, month, year and so on by pushing the lever to the left.

Once you have entered the correct time and date, press and HOLD the lever IN for 3 seconds. You will see "TIME IS SET" once complete. You can now release the lever.

When you are on the TIME DATE screen and the cursor is not blinking, you can navigate to the other top level screens such as the main screen, or the L1 volts screen, etc.

VIEW FAULTS Screen

This allows you to view the faults recorded whenever the ATS detected a fault with electrical power. To view, momentarily push the front lever DOWN or IN. The screen will display fault 1, which is the most recent fault that occurred and was detected by the ATS. The screen will scroll through the following items for fault 1 every 3 seconds:

- 1. MODE- State of ATS when fault occurred (MODE SHORE = shore power; MODETGEN = transferring to Gen power, etc.)
- 2. FAULT CODE (L1 LO, L2 LO, etc.)
- 3. L1/L2 Volts and Currents at the time of the fault.
- 4. Frequency of Line 2
- 5. Time of Fault
- 6. Date of Fault

To see the next fault, push lever right, showing fault 2. Keep pushing the lever right to see up to 50 faults. Pushing the lever left goes backwards through the faults.

If no faults have occurred, you will still see fault number headings, but the information will be zeroed out. Voltages/currents will be zero, time will be 00:00:00 and date will be 00-00-00; or you may have only 5 faults and the other 45 fault numbers will be zeroed out as described, etc.

To exit the fault screens, push the lever DOWN/IN momentarily, returning to VIEW FAULTS screen from which you can navigate as previously described.

Source(s): Southwire Surge Guard Remote Power Control Monitor LCD Display with Navigation Installation and Operating Instructions Product(s): This source is associated with more than one product. Refer to Newgle for more information about the product(s) offered for your coach's model year. This page is intentionally blank.

ELECTRONICS

This chapter provides operational instructions for the electronic systems installed in the coach, including camera and video, holding tank monitoring, multiplex systems, navigation, security and keyless entry, as well as WiFi.

NOTE: Audio-Visual (AV) equipment information is located in the Entertainment Systems category.

MIMPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

DASH INFOTAINMENT SYSTEMS

Xite Infotainment System with Single 20" Touchscreen Quick Start (Models: G4 S20 + A7 SDHD)

This article provides basic operation instructions for an Xite Infotainment System with Single 20" Touchscreen (Models: G4 S20 + A7 SDHD).

This Quick Start Guide is intended to provide basic instructions to begin using your Infotainment Center. Failure to properly focus on the operation of your motor vehicle can result in death, serious injury and property damage. The Infotainment Center should never be used at a time or in a manner that distracts you from properly focusing on operation of the motor vehicle in which it is installed.

MPORTANT

Please review all disclaimers, warnings and detailed operating instruction in your Xite Owner's Manual prior to using your Infotainment Center.



Main Touchscreen Monitor

(1) Bluetooth Microphone

(2) LDR (Light Dependent Resistor) and IR (Infrared Receiver): LDR is used for the dimming of the display and is active when Auto dim in System Settings is set to Sensor. IR receiver is used with remote control operations.

(3) Siri Button: Press to activate the voice command.

(4) Menu: Tap MENU button once to go to the Main Menu (or Home Page). When in the Main Menu, you can either use the touch screen to select the desired icon (source) or you can keep tapping the Menu button to select different icons on the screen. When icon is highlighted for more than 1 second, the system will automatically open that icon. You can also access the Main Menu from any screen by tapping the function icon in the top left corner of the current screen.

Note: When viewing video in full screen, touch the screen once to bring up the icon header which will display the function icon. Tap the icon to return to the Main Menu.

(5) Navi: Press the NAVI button once to go to the navigation system. While viewing the navigation press the NAVI button to return to the active source (Radio, or SXM, etc.). If the navigation route is running, navigation audio voice prompts will continue to be heard over the speakers according to the Navigation audio settings you have selected in the Settings menu. To hear only the navigation audio voice prompts, press and hold NAVI button for 2 (two) seconds. This will mute the active source until you leave the navigation screen.

(6) Cam: Press CAM button to directly go to Camera Control page.

(7) Fav: Your Infotainment Center is equipped with a favorite source hotkey. Press the FAV button once to directly access your favorite audio source. Favorite audio source is defaulted to Sirius XM, and it can be changed by going to Setup -> System -> Favorite Mode.

(8) Volume/Power Rotary Button: Turn on the ignition to power up the Infotainment Center. When powered up, it will immediately go to the last mode (memory on playback) before it was turned off. In order to put the unit in standby mode, press and hold the rotary button once. During standby, your vehicles graphics together with date and time will be displayed. Press and hold the rotary button again to turn the unit on. Turn the rotary button left / right to adjust the volume to the desired level. A short press of the rotary button will Mute the audio.

Note: When in standby mode, Infotainment Center consumes power. To completely turn the system on, remove the ignition key and / or ensure any auxiliary battery power to the system is turned off.

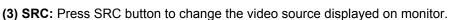
7" Secondary (Passenger) Monitor



This monitor is an optional component and is not installed in all coaches with the XSG4 system.

(1) Status LED: No light means power to the monitor is off. Red Light indicates that unit is in sleep mode. Green Light indicates that unit is powered on and working.

(2) **PWR:** If the status LED is red, press the PWR button once to turn the monitor on. If the status LED is green, press and hold PWR to turn the monitor off.



(4) **DIM:** Press DIM to change the brightness of the screen (1 to 5). Set to SYNC for the brightness to be controlled by the Main Monitor.

(5) NAVI: : Press NAVI button to enter / exit Navigation Menu.

(6) CAM: Press CAM button to directly go to camera view.

(7) Up Arrow: Up and Down Arrows work in combination with SET button.

(8) SET: Press SET button to adjust screen display. Use this button in combination with arrow buttons. Available options are: Brightness (-10 to +10), Contrast (-10 to +10), Tint (-10 to +10), Touch Adjustment for touchscreen calibration.

(9) Down Arrow: Up and Down Arrows work in combination with SET button.

(10) IR Receiver: IR receiver is used with remote control operations (optional).

Main Menu

(1) Information Bar: The top area of the screen is the source information bar. It displays the current source together with temperature, compass, and time information as well as the Bluetooth connection status. Select a source to be able to see all the information mentioned above.

(2) Main Menu: Infotainment Center is designed for simple maneuvering. The screen shown on the left is the MAIN MENU screen. From here, you can choose what source to access by tapping the appropriate icon on the touch screen.

(3) AUX Zone: Allows you to select what output is displayed on the Passenger monitor. This is the same as using the SRC button on that monitor.

(4) House Mode: This option is only accessible when parking brake is engaged. When active, House Mode sends current source audio and/or video to other areas of the coach.





NOTE FROM NEWMAR

Newmar only sends current source audio (not video) to the exterior entertainment center.

- After 15 seconds of no input to the touch screen, the LCD displays will enter into sleep. Touch the screen to wake.
- House Mode is cancelled when selected again, park brake disengaged or power cycle is performed.
- Tap once to enter the House Mode.
- Tap once to exit the House Mode.

Settings

Access the Settings by selecting the Setup icon in the Main Menu. There are three Settings that can be changed and these are System, Video, and Audio. In addition, there are Settings for Radio, Sirius XM, Bluetooth and DVD, and to access these, you must go to the setup icon while one of these sources is active. To exit the Settings menu at any time, press the Settings icon in the top left of the screen.

System Setup

By touching the SYSTEM button, the settings for the system part of the Infotainment Center can be changed.

Auto dim: The brightness of the LCD display will be adjusted depending on the selected preference: Sensor / Manual / Auto /Auto (GPS).

- Sensor option uses LDR. Manual uses Dim (Day Time) setting and always stays on the selected level (1 through 5).
- Auto uses Dim (Day Time) when no illumination signal is present, and it uses Dim (Night Time) when illumination signal is present.
- Auto (GPS) uses information from GPS to determine Dim (Day Time) vs Dim (Night Time).

Dim (Day Time): Set the brightness level of the LCD display during the day time.

Dim (Night Time): Set the brightness level of the LCD display during the night time.

Beep Tone: Turn ON/OFF audible sound when touching the LCD

screen. The Beep tone will also provide warning of LCD display closing and other cues.

Standby Screen: Selecting ON, the Infotainment Center will display logo, date, time and temperature when the unit is powered on by pressing the power button (rotary button) while the vehicle remains on.

Compass Display: Select Direction, Bearing or Direction + Bearing. Compass display can be turned off.

Time Set: Select Auto or Manual. Auto selected will pick up information from the GPS signal and report the correct time depending on the Time Zone. Time can also be set manually.

Favorite Mode: Favorite Mode: Select favorite mode that can be accessed from the FAV button on front of the monitor. Available selections are: SXM, Bluetooth, Camera, HDMI, Media center, iPod, PIP (picture-in-picture) and Radio.

Language: The language of the user interface can be selected from the following options: English, Spanish, or French.

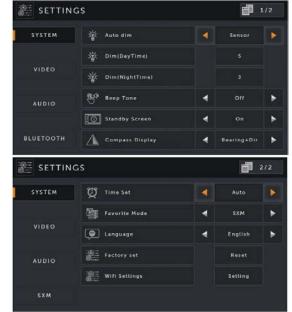
Factory Set: Select Factory set to reset the Infotainment Center to factory settings.

Note: All stored settings, presets, SiriusXM content alerts, etc. will be erased and returned.

WiFi Settings: Press Setting to enter WiFi setup menu. Press the REFRESH button to refresh the list of available WiFi hotspots. Press the WiFi hotspot you want to join. Press the WiFi icon to enter the WiFi password for that network. You may exit this screen by pressing the EXIT or the SETTING icon at the top of the screen. Use the Up and Down buttons to find the desired network if required. Press the Connect button at the bottom of the screen. Enter the WiFi Password. Press the Connect button again, If successful the WiFi network should be highlighted and show Connected. Press the Exit button to return to the Setup Menu.

NOTE FROM NEWMAR

For more information about CarPlay, Bluetooth operation, Navigation, and SiriusXM radio, refer to your Xite User Manual in Newgle.



ELECTRONICS

Xite Infotainment 7" Passenger Monitor (Buddy Screen) Quick Start

This article provides a brief operational overview of the Xite Infotainment 7" passenger monitor (buddy screen), which may be an installed option (J774) on select coaches.

The 7" auxiliary passenger monitor can mirror the main Xite touchscreen or run separate navigation or camera screens.

Note: The driver can disable the navigation and mirror capabilities of the auxiliary monitor through the Aux Zone Settings from the main Xite touchscreen; however the camera views are always available.

The monitor is installed on an articulating mount with an adjustable knob. The passenger can move and swivel the mount and the monitor to fit their preferred placement.

Once the desired position has been reached, tighten the

adjustable knob to prevent it from moving. When ready to move it again, loosen the adjustable knob and swivel the monitor out of the way.

Apple CarPlay Operation via Xite Infotainment System

This article provides basic operation instructions for Apple CarPlay via the Xite Infotainment System. This applies to 9-inch and 10.4-inch touchscreens for Xite XSG4NA models beginning in 2023.

Apple CarPlay Operation

WARNING

Use of third party maps within CarPlay does not take into consideration your vehicle dimensions and restrictions. Use of these navigation systems is at your own risk.

Connecting your iPhone to CarPlay will allow you to get turn-by-turn directions, make phone calls, listen to music, check your calendar, and more-all from your vehicle's display. Ensure that Siri is enabled on iPhone.

If Siri is not enabled on your iPhone, go to Settings > Siri & Search, then turn on one of the following:

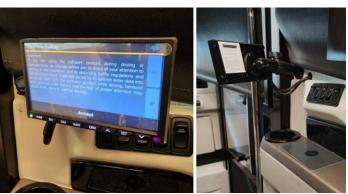
- Press Side Button for Siri (on an iPhone with Face ID)
- Press Home for Siri (on other iPhone models)

Set up CarPlay by connecting your CarPlay Compatible iPhone to your vehicle using your vehicle's USB port using an Apple-approved Lightning to USB cable. The USB port is labeled with the CarPlay logo on the front of the core device.

NOTE FROM NEWMAR

The core device is hidden inside the dash on most coaches. Newmar runs a line from the core to the driver's side console (or the center console on Super C coaches), which is where the owner can connect the appropriate USB cable to their phone to enable Apple CarPlay. This input is typically marked "USB/Auxiliary Inputs" on the cover.







ELECTRONICS

Ask Siri on CarPlay

To activate Siri, do one of the following:

- Press the voice command button on the main display.
- Touch the CarPlay Home Button on the touch screen while displaying CarPlay.

When active the Siri icon will appear, as seen in the lower image. Ask Siri a question or to do something, as you normally would on your iPhone. Contents of the CarPlay

menu will depend on which CarPlay enabled apps are installed on your iPhone. To view the different apps, simply swipe left or right on the touch screen. To return to general operation of the Xite device, press the Xite Logo on the main CarPlay screen, or by pressing the Menu button.

Source(s): CarPlay Setup & General Use Manual V220105.01

SiriusXM Satellite Radio Operation via Xite Infotainment System

This article provides a brief operational overview of an optional SiriusXM satellite radio subscription via the Xite XSG4 infotainment center. This option may only be available on coaches equipped with SiriusXM capability and the necessary antenna and/or tuner.

A SiriusXM Vehicle Tuner (may be available for purchase through the Newmar Parts Department) and Subscription are required. For more information, visit: www.siriusxm.com.

When a SiriusXM Vehicle Connect Tuner is connected, press the SiriusXM icon in the Main Menu. SiriusXM mode can be left any time by pressing the SiriusXM icon at the top left of the screen.



The included images are for example only; Xite screens may vary based on installed equipment.

Subscribing to SiriusXM Satellite Radio

This section describes the features and functions of the SiriusXM Satellite Radio. Before using the optional SiriusXM Satellite radio, you need to subscribe to the SIRIUSXM service either by phone or via the Internet. To subscribe to the SiriusXM Satellite Radio service, follow these steps:

- 1. After installing your SiriusXM Connect Vehicle Tuner and antenna, power on your radio and select SiriusXM mode. You should be able to hear the SiriusXM preview channel on Channel 1.
- After you can hear the Preview channel, tune to Channel 0 to find the Radio ID of your tuner. You will need this
 number to activate your subscription. Write the number down for reference. Note that the SiriusXM Radio ID does
 not include the letters I, O, S or F.

In the USA, you can activate online or by calling SiriusXM Listener care: Visit <u>http://www.siriusxm.com/activatenow</u> or c all SiriusXM Listener Care at 1-866-635-2349.

For Canadian Subscriptions, please contact: Visit <u>www.siriusxm.ca/activatexm</u> or call XM customer Care at 1-877-438-9677.

As part of the activation process, the SiriusXM satellites will send an activation message to your tuner. When your radio detects that the tuner has received the activation message, your radio will display: "Subscription Updated". Once subscribed, you can tune to channels in your subscription plan. Note, the activation process usually takes 10 to 15 minutes, but may take up to an hour. Your radio will need to be powered on and receiving the SiriusXM signal to receive the activation message.

Operating SiriusXM Satellite Radio

The display for the SiriusXM mode is laid out to provide you with the required information and icons to allow maximum enjoyment of your SiriusXM subscription.

Lock Code

The Infotainment Center is delivered with a default Lock Code of "0000". Please [refer to your complete Xite user manual] to learn how to edit your lock code. Please remember your lock code. It will be required to access locked channels or change the Mature Channel Lock setting. If you have forgotten your lock code and require a reset please [refer to your complete Xite user manual] for Factory Reset information.

Lock Mode/Unlock Mode

Your Infotainment Center will automatically start up with SiriusXM in Lock Mode. This will prevent accidental tuning to channels that have been automatically locked under the optional Mature Channel Locking feature or user-applied locked channels. To enter Unlock Mode: Press the LOCK button (which may require holding it down). When the keypad is displayed, input your lock code and press Enter.

Artist and Song Alerts

While listening to SiriusXM Satellite Radio, you can be alerted when your favorite songs or artists are playing on other channels. You can store up to 50 of your favorite Artists and 50 favorite songs. The Infotainment Center will display an Alert message when a matching artist or song is found on another channel or you can choose either My Artists or My Songs categories to have access to all channels that have current alerts playing. When a new alert notication occurs you can choose to tune directly to it or ignore and continue listening on your current channel.

Replay

The Replay feature allows you to pause, rewind, and replay up to 60 minutes of live SiriusXM Satellite Radio. The status bar shows you the current buffer capacity. Once full, the oldest track will be removed allowing the newest live track to be added. If you have paused playback and the paused track is about to be erased, the XSG4 will notify you with an audible beep. Playback will resume from the next track in the buffer.

SiriusXM Settings Menu

There are many features that can be changed to customize your SiriusXM Radio experience. To enter the SiriusXM settings menu you must currently have SiriusXM selected. From there go to the Main Menu, and from there select SETUP icon. In addition to SYSTEM, VIDEO, and AUDIO options, there will be SXM option. Selecting this button will display page 1 of 2 for SiriusXM settings.

Source(s): Xite Solutions XSG4NA Infotainment User Manual (Rev. 210427.01)

CAMERA AND VIDEO MONITORING SYSTEMS

Camera and Video Monitoring System Overview

This article provides an overview of the camera and video monitoring system.

The video system features cameras mounted on the exterior of your coach and is connected to the in-dash video screen. This system comes on automatically when you put the transmission in reverse to allow you to see behind your unit when backing up. Additionally, it can be manually turned on in transit to allow you to monitor your towed vehicle or for additional assistance in passing maneuvers.

Rear View Cameras: Installed as a standard feature, the rear view monitor system assists the driver in the backing and parking of the vehicle. This system consists of a camera mounted on the rear cap and a monitor located on the dash.

Side View Cameras: As an option for the rear vision system, your coach may be equipped with "side view" cameras. These cameras are tied into the rear vision system and are activated by the turn signals. When a turn signal is activated, the monitor will switch to display that side of the coach. Once the turn signal cycle is complete, the display will revert to the previous camera for the Voyager, Sony, Axxera, or Xite system. In some Xite systems, the camera selection may default back to the rear camera.

Camera Selection: If the rear vision monitor is turned on manually, you can toggle through the cameras using one of the following methods (depending on the installed equipment), allowing you to stay on any given camera that you choose (unless a reverse or turn signal is detected):

- Voyager system: Source button
- Axerra radio: Source camera icon, followed by the Camera Select switch
- Sony radio: Apps icon, followed by the camera icons
- Xite infotainment system: Menu button, followed by the Camera Select icon. Select Xite systems may have a "CAM" button that serves as a shortcut to the camera settings. Xite systems with a "360 Camera Select" switch allow the user to toggle through and select multiple camera views.

HD360 Camera System Operation via Xite Infotainment System

This article provides basic operation instructions for the HD360 Camera System via Xite Infotainment System. The Xite HD360 cameras work in conjunction with a couple systems, including SilverLeaf and the chassis data (Spartan and Freightliner). These cameras are available as optional equipment on New Aire, Mountain Aire, London Aire, and Essex coaches. They are standard equipment on King Aire coaches.

Camera Views of the HD360

	King Aire	Essex	London Aire	Mountain Aire	New Aire
Left Turn	x	x	X	X	X
Right Turn	X	X	X	X	X
Left Midship	X	X	X	X	Х
Right Midship	X	X	X	X	Х
Front	X	X	X	X	Х
Rear Normal	X	X	X	X	Х
Rear Horizon	X	X	X	X	Х
Rear Hitch	X	X	X	X	Х
Interior	X				
Dual View	X	X	X	X	Х
Tri View	X	X	X	X	Х
Quad View	X	X	X	X	Х
360 View	X	X	X	X	Х
Doorbell (2020+)	X				
Trailer 1 and 2	OPTIONAL	OPTIONAL	OPTIONAL	OPTIONAL	N/A

Function of the Cameras

Using the Cameras: To view the camera screen, touch the "MENU" button or the RADIO icon. Then, touch the "CAMERA CONTROL" icon.



When first starting the engine: The camera monitor should display the REAR NORMAL view when first starting the engine.

Default Camera: If a camera button has been pressed, that view will become "DEFAULT." If a trigger is activated (like a turn signal or reverse), the system will return to the "DEFAULT" camera view when that trigger is deactivated.

Camera Priority: Camera priority means that the system has certain views that will override other views. Pressing a manual button has priority over everything. If you are in reverse and decide you want to go to a different view, press a button and the view will change to the selected view. That view now becomes the "DEFAULT." If a turn signal is active and the coach is put into reverse, the reverse command will override the turn signal command.

Standard Definition vs. High Definition Cameras: The left turn, right turn, interior, trailer 1, and trailer 2 (if equipped) cameras are standard definition cameras. These are the only standard definition cameras in the system. The rest of the views are from the HD Xite side of the system.

Dynamic Parking Grid Lines (DPGL): Dynamic Parking Grid Lines (DPGL) are moving lines that show you the APPROXIMATE path that the rear of the coach will take depending on the turn of the steering wheel. They use the information from the steering angle sensor from the chassis ABS ECU to calculate the trajectory of the turn.

The DPGL will only show up when the coach is in reverse.



The DPGL can be seen on two views: REAR NORMAL and 360 VIEW.



The DPGL can be tested by turning the wheel completely in both directions.



Static Parking Grid Lines (SPGL) © 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

- In NADP, MADP, LADP and EXDP the SPGL are Standard equipment.
- SPGL DO NOT MOVE (Static) when the wheel turns.
- SPGL are only visible on the REAR NORMAL view of the camera screen.
- SPGL is an overlay controlled from a special rear camera.



Doorbell Camera Operation

The doorbell camera is only available in select coaches. There are a few ways to access the Doorbell picture:

On the Xite radio, press the "Entry Cam" button on the camera screen to view the picture on the camera monitor.

If the doorbell button on the grab handle is pressed, several things will happen:

- All the displays (front overhead and bedroom SilverLeaf monitor, and dash camera monitor) will immediately switch to that camera, no matter what was showing on the screen at the time the button was pressed.
- A 60-second timer is activated. The screens will stay on the doorbell camera for one minute and then revert back to the camera view prior to doorbell activation. This time setting is configurable.
- Along with the camera switching when the doorbell is pressed, the patio light is also activated in case it is dark outside to allow you to see who is at the door. If activated by the doorbell, the light will turn off after 60 seconds.
- If the patio light was already on when the doorbell was pressed, it will remain on after 60 seconds.

When the coach is connected to the internet, MyRozie is capable of sending a text message to your phone that includes a still picture of the doorbell camera view.

HOLDING TANK MONITORING SYSTEMS

2025 KIB L-Panel LCD Capacitive Touch Panel Guide: Monitor Panel

The Monitor Panel button on the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) displays the tank capacities for fresh, grey, black, and LP tanks (if equipped), as well as the battery and AC Power details. This vertical touch panel is only installed on coaches also equipped with a SilverLeaf touchscreen.

A IMPORTANT

The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

Touch the MONITOR PANEL button.

The AC Power section will display the AC voltage and amperage on Leg 1 and Leg 2 of service. The Battery section will display the DC voltage for house and chassis batteries in numerical and chart form.

The Tanks section will display the percentage-full status and graph for the fresh, gray, black, and LP (if equipped) tanks.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle

SilverLeaf HMS404 Touchscreen Display Guide: Home Screen and Tank Status

This article provides a brief overview of the Home Screen on the SilverLeaf HMS404 Touchscreen Display typically located in the water compartment.

IMPORTANT

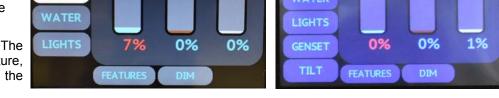
The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

MON MAR 1, 2021 67° 10:08 AM

FRESH BLACK GRAY

Press the Home button to view and monitor the tank levels. Pressing the Home button from any of the display screens will return the user to the initial Home screen.

Date | Outside Temp | Time: The system date, outside temperature, and time are displayed across the top of the screen.



HOME

FRESH BLACK GRAY

Tank Status (Tank Monitoring): The fresh, gray, and black holding tank statuses are displayed as percentage-full levels. These values are displayed as both a numerical percentage and a bar graph.

HOME

Dim Button: Press the DIM button to increase or decrease the display brightness depending on the current brightness selection.

NAVIGATION SYSTEMS

Navigation System Overview

This article provides a general overview of the navigation system that is installed on select coaches. This system uses GPS technology to guide you through maps and information for traveling assistance. It features voice prompts and touchscreen technology to make scrolling through the menus and getting information incredibly easy.

A WARNING

The navigation system is NOT intended to replace, supersede, or take precedence over any traffic signs, street signs, hazard signs, etc.

The navigation feature is intended to assist you with guidance to your destination. The system may need software and map updates. Updates are not warrantable issues, as roadways change over time and construction takes place, the maps and/or systems may become obsolete.

A CAUTION

It is the driver's responsibility to make sure the roads are safe and appropriately navigated and roadway weight limits and clearances are rated for the vehicle you are driving.

NavNGo Navigation System Operation via Xite Infotainment System

This article provides basic operation instructions for the NavNGo Navigation System via Xite Infotainment System (Model: XSG4NA). The XSG4NA range of infotainment systems come with an on-board Navigation program. This Navigation program is pre-loaded to the internal memory of the XSG4NA product.

In order to provide the best possible user experience, the XSG4NA comes with a range of Connected Services to make the usage of the product as easy as possible. These Connected Services are:

- Online Traffic: This feature will automatically download and analyze real-time traffic information and provide you with Route alternatives if you are already on the road and heading to a traffic event. Or the Online traffic will calculate around traffic when you start your new route.
- Online Weather: The Online weather service information can be used to view weather at your destination or along your current route.

- Online POI Search: The Online POI search option is an extension of the pre-loaded database. The online POI's will
 provide you update to date Points of Interest with the latest available information.
- Over-the-Air Updates: Over-the-Air updates will allow you to update your maps, POI database, and the Navigation program itself via an internet connection. You will be automatically notified when new updates are available and can download them when it is most convenient for you.

NOTE FROM NEWMAR

To use any of the connected services, the user must have the Xite system connected to the internet via an active connection.

IMPORTANT

Map updates can be large (3GB+ of data), so it is advisable to perform these updates when connected to a Wi-Fi connection and not perform the update via a phone tether.

When you start using the product, you can download updates, at no cost, for the next 3 years. Additionally, the XSG4NA is pre-loaded with the "Truck Attribute Map data". This additional map data contains additional road information in relation to road attributes. Items such as weight restrictions, bridge heights, limitation of the number of axles, tunnel restrictions, etc. This additional map data is of great relevance to RV owners to ensure that the roads suggested by the Navigation program are suitable for the specific RV.

IMPORTANT

The suggested routes to your destination are only as good as the information provided to the program to calculate with. Make sure to set up the vehicle settings correctly and accurately to ensure that the routes suggested by the Navigation program are suitable for your vehicle. Failure to do so accurately may lead you down roads that are unsuitable for your vehicle resulting in damages to your vehicle, the roads, or violation of traffic laws.

Warnings and Safety Information and Initial Set-Up

The navigation system helps you find your way to your destination based on GPS positioning. The XSG4NA does not transmit your GPS position; others cannot track you. It is important to look at the display only when it is safe to do so. If you are the driver of the vehicle, it is recommended that you plan and review your route before you start your journey. Plan the route before your departure and stop if you need to change the route. Always follow traffic rules at all times. If you deviate from the planned route, the program will recalculate and change the instructions accordingly.

When using the navigation program for the first time, an initial set-up process starts automatically. This Initial setup is also repeated when the "Factory Reset" is done in the Navigation program setup menu. Select your preferred language, then tap SELECT to confirm your selection. Later you can change it in Regional settings. After accepting the End User License Agreement, the Configuration Wizard starts. Tap the NEXT button to continue.

Select the language and speaker used for voice guidance messages. You can also change it later in the "Regional settings". Select your preference and tap NEXT to continue. If needed, modify the time format and unit settings. You can also change it later in the "Regional settings". Tap NEXT to continue.

In this step, you can adjust the routing preferences. Please take care to accurately insert all your vehicle parameters. The Navigation program will take this information into account to provide you with a route that avoids any roads that contain obstacles that should be avoided (low bridges, weight restrictions, etc.) If the information entered is incorrect, the program cannot take these vehicle-specific restrictions into account. You can also change it later in the "Route Preferences". Tap NEXT to continue. The initial set-up is now complete, tap Finish to enter the Navigation view.

Screen Controls

The following sections describe the functionality and use of buttons, sliders, and other screen controls in the program.

Using Buttons and Other Controls

- Button: Opens a new screen where you can set a parameter. Tap it once.
- Button with Value: Displays the current value of a field or setting where the value can be changed. After the change, the new value is shown on the button. Tap it once.
- Icon: Provides additional information, for example, a traffic summary or itinerary. Tap it once to open a screen with additional information or options.
- List: Shows multiple options. Grab the list anywhere and slide your finger up or down. Depending on the speed of sliding, the list scrolls fast or slow, only a bit or till the end. Alternatively, move between items in a list with the arrows and tap the value that you want to select.

- Switch: Shows whether a feature is enabled when there are only two choices. Tap it to turn the switch on or off.
- Slider: When a feature can be set to different values in a range, the program shows an indicator on a gauge that displays and sets the value. Drag the handle to move the slider to its new position. Tap the slider where you want the handle to appear.
- Virtual Keyboard: Used to enter text and numbers. Each key is a touchscreen button.

The Navigation menu contains several menu items on one or more pages. The UP ARROW button is always present in the top left corner of the screen. Pressing this button will bring you back to the Map view immediately regardless of where in the submenu you are.



Navigation View

The navigation view is the main screen that shows the planned route on a map. The program works with digital maps which are not simply the computerized versions of traditional paper maps. Similar to paper road maps, the 2D mode of digital maps show you streets and roads. Elevation is also illustrated in color. The navigation view displays the following screen buttons, data fields, and route information on the map during navigation:

(1) Current Position Marker: The current position is displayed as a blue arrow by default. When there is no GPS position, the current position marker is transparent and it shows your last known position.

(2) GPS Position: The dot near the arrow shows the GPS position as perceived by the GPS receiver.

(3) Planned Route: The planned route is displayed as an orange line.

(4) Data Fields: Three data fields show the following information: The estimated time of the arrival at the destination, the remaining time of the trip, and the remaining distance to the destination. You can change the default values in Settings or by tapping and holding the area where the data fields appear. If you have not selected a destination, you can see your heading instead of the three data fields.

(5) Next Turn Preview: It shows the type of the next maneuver and its distance.

(6) Second Next Turn Preview: It shows the type of the second next maneuver if it is near the first one.

(7) Next Street: It displays the name of the next street. If you have not selected a route destination, you can see nearby house numbers, if they are available.

(8) Parking Around Destination: It appears near the destination. By tapping it, you can check the available parking facilities around your destination.

(9) **Destination Menu:** It appears near the destination. By tapping it, you can check the trip summary, find Places around your final destination, save the current location, or suspend the navigation.

(10) Traffic: It shows traffic-related information.

(11) Lane Information: On multi-lane roads, it shows the lanes ahead and their directions. The highlighted arrows represent the lanes and directions you need to take.

(12) Alert Point Warning: It shows the type of alert points when approaching a road safety camera or other Alert Points like school zones or railroad crossings. You must make sure that using this feature is legal in the country where you intend to use it.

(13) Speed Limit Warning: It shows the current speed and the speed limit when speeding.

(14) Signpost: It shows the available destinations and the road numbers.

(15) Freeway Services: By tapping it, you can check the details of the next few service stations (gas stations, restaurants) when traveling on a freeway.

(16) Navigation Menu: By tapping it, you can open the Navigation menu, where you can reach other parts of the program.

(17) Street Name: It shows the current street name. By tapping it, you can open the Where Am I screen.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

Some buttons, fields, or icons may not be available in your product version.

Settings Menu

You can configure the navigation settings, and modify the behavior of the program, by tapping the MENU button (3 horizontal lines), followed by the SETTINGS button. The Settings menu provides the following options:

- Route Preferences: Select the type of vehicle you are driving, the road types used in route planning, and the route planning method.
- Sound: Adjust the different sound volumes.
- Warnings: Enable and set up warnings for the speed limit, Alert Points (such as speed cameras).
- Navigation View: Fine-tune the appearance of the Navigation view or adjust how the program helps you navigate with different kinds of route-related information on the Navigation view.
- **Regional:** Change the voice guidance language, set the time zone, the measurement units, the time and date formats, and customize the application for your local language.
- **Display:** Enable or disable menu animations.
- Traffic: Enable or disable traffic information and modify detour settings.
- Weather: Enable the online weather forecast and the automatic download of weather information.
- Online Services: Enable or disable services that require an Internet connection.

Changing some of these settings may not have an effect on your current region if the map data do not contain the required information.

Route Preferences Settings

The following settings determine how routes are calculated:

- Vehicle: Set the type of vehicle you want to use to navigate the route. Based on this setting, some of the road types can be excluded from the route, or some of the restrictions may not be taken into account in route calculation.
- Route Planning Method: Optimize the route calculation for different situations and vehicle types by changing the planning method.
- Navigation Mode (On-Road): Select on-road or off-road navigation.
- Road Types: Select your preferred road types for the route.

Vehicle Type Selection

Press this option to open the vehicle type selection menu. The following options are available per default:

Add New Vehicle: With this option, you can add your own vehicle profile.

Car: Maneuver restrictions and directional constraints are taken into account when planning a route. Roads are used only if access for cars is allowed. Private roads and resident-only roads are used only if they are inevitable to reach the destination. Walkways are excluded from routes.

Bus: Maneuver restrictions and one-way streets are taken into account when planning a route. Roads are used only if access for buses is allowed. Private roads, resident-only roads, and walkways are excluded from routes.

Class A RV: The Class A RV vehicle profile is set with default values for a generic Class A RV. Maneuver restrictions and one-way streets are taken into account when planning a route. Private roads, resident-only roads, and walkways are excluded from routes. If the map contains data on the dimension, weight, number of axles they can also be taken into account when planning a route.

Class B RV: The Class B RV vehicle profile is set with default values for a generic Class B RV. Maneuver restrictions and one-way streets are taken into account when planning a route. Private roads, resident-only roads, and walkways are excluded from routes. If the map contains data on the dimension, weight, and freight restrictions, they can also be taken into account when planning a route.

Class C RV: The Class C RV vehicle profile is set with default values for a generic Class C RV. Maneuver restrictions and one-way streets are taken into account. Roads are used only if access for buses is allowed. Private roads, resident-only roads, and walkways are excluded from routes. If the map contains data on the dimension, weight, and freight restrictions, they can also be taken into account when planning a route.

Truck: Maneuver restrictions and one-way streets are taken into account when planning a route. Roads are used only if access for trucks is allowed. Private roads, resident-only roads, and walkways are excluded from routes. U-turns are excluded from routes (turning back on a divided road is not considered a U-turn). If the map contains data on the dimension, weight, and freight restrictions, they can also be taken into account when planning a route.

Modifying Vehicle Profiles

In-vehicle profile selection screen, press the UP ARROW and then the EDIT button to access the vehicle profile settings to adjust for your specific vehicle parameter. In Edit mode, you will see the symbol behind each vehicle type. Tap the symbol to access and select the details of the vehicle profile.

Here the following basic options can be changed:



Name (Allows you to rename the vehicle profile if desired), Vehicle type, Maximum speed of the vehicle, Fuel consumption in cities, Fuel consumption on highways, and/or Engine type. Fuel consumption and engine type information are used to calculate and estimate the amount of fuel needed as well as the approximate CO2 produced. Also changeable for larger vehicle profile types are the "Extended Vehicle Settings."

Extended Vehicle Settings

The extended vehicle settings allow drivers to further specify their vehicle parameters to allow the program to offer the best available route for their vehicle type. Please make sure that all the specifics of your vehicle (height, weight, axles, etc.) are correctly entered into the vehicle profile settings. Incorrect settings will result in incorrect routes. By default, the option "Show this page for each route planning" is enabled. This option will prompt you to confirm that the vehicle profile specification is still accurate.

Vehicle Settings	9	Vehicle Settings	9	Vehicle Settings	\sim
Use Extended Settings	on 🔜	Length 44.10 ft		Trailers	
Show this page for each route planning	on 📰 👔	Width 8.45 ft	^	Axles	۸
Length 44.10 ft		Height 13.20 ft		Maximum Allowed Weight 54.00 t	-
Width 845 ft		Trailers	■ ▼	Actual Weight 44.00 t	₹
Heiaht		Axles		Freiaht	
\leftarrow	~	← ок			^

Warnings Settings

Speed Limit

The program is able to warn you if you exceed the current speed limit. This information may not be available in your region, or may not be fully correct for all roads on the map. This setting lets you decide whether you wish to receive visible and/or audible warnings. The following warning types are available:

- Visual warning: the current speed limit is shown on the map when you exceed it.
- Audio and Visual warning: besides the current speed limit being shown on the map, you also receive a verbal warning when you exceed the speed limit with the set percentage.

If you prefer to see the speed limit sign on the map all the time (normally, it is shown only if you exceed the limit), you can set it here. You can also set the relative speed above which the application initiates the warning by adjusting a slider. The value can be different within and outside Cities.

Disabling the Speed Limit Warning

- Issue: The speed limit warning is signaling even when the actual speed limit is kept.
- Cause: The speed limit in the digital map data might differ from the actual speed limit of your current location.
- Solution: Disable the speed warning by performing the following steps: (1) Tap the MENU button (3 horizontal lines).(2) Tap the SETTINGS button. (3) Tap the WARNINGS button. (4) Tap the Speed Limit button. (5) Tap the Warn When Speeding (Audio and Visual) button. (6) Tap the Disabled option.

Alert Points

Tap it to receive a warning when approaching a road safety camera or other Alert Points like school zones or railroad crossings. You must make sure that using this feature is legal in the country where you intend to use it. You can set the warning type for the different Alert Point categories (alert types) individually. The following warning types are available:

• Visual warning: the type of the Alert Point, its distance, and the related speed limit appear on the Navigation view while you are approaching one of these locations.

• Audio and Visual warning: besides the visual alert, beeps are played (when using a natural voice) or the type of the alert is announced (in case of a TTS voice) while you are approaching one of these points, and an extra alert warns you if you exceed the given speed limit while approaching.

For some of the Alert Points, the enforced or expected speed limit is available. For these points, the audio alert can be different if you are below or above the given speed limit.

- Only when speeding: The audio warning is only played when you exceed the given speed limit.
- When approaching: The audio warning is always played when approaching one of these Alert Points. In order to draw your attention, the audio alert is different when you exceed the speed limit.

Factory Reset or Reset All Settings

A factory reset can be done to restore all the factory default settings. The factory reset will also erase all user content (Search History, Routes, etc.).

(1) Tap the MENU button. (2) Tap the SETTINGS button. (3) Tap the UP ARROW to open the menu options. (4) Select either "Reset All Settings" or "Factory reset" to restore to the original default state. The application will prompt to confirm your selection. The application will restart to apply the changes.

		All your settings and	saved data will be lost
Re	set All Settings		t to continue?
Fa	ctory Reset	ок	Cancel

Updates

The XSG4NA is set up to only allow Over the Air updates. This means that the program will allow you to update new maps/POI databases or the program itself via an active internet connection. When the program detects an active internet connection, it will automatically check whether updates are available for you to download.

Updates Availability

There are 2 ways that the program will let you know an update is available: Via the message icon in the top right of the screen, or press the MENU button, followed by the SETTINGS button, and the SHOP button.

•	Change Start t	O		X 6:15	P	A Shop		Ş
9	Search in All	4				Purchased Items		1
<	Address	Places	Saved Location	Conline Search	>	Map of USA and Canada 2.79 GBytes Expiring in 1004 days	¥	
#1	Bay Shore New York	e Blvd W						
#2	Las Vega: Nevada, United	S I States			₹			
\leftarrow	1.				~	←		^

Update Installation

If updates are available and you wish to install them, please make sure that you are connected to the correct WiFi Access point before starting up the update.

MPORTANT

Updates can be very large and when connected over a cellular network via your phone, data transfer costs can occur. Do not switch off or restart the system during the download and installation of an update.

To start the update, press the DOWNLOAD button in the line of the update you wish to install. The update will start momentarily, and a status update will show the progress. After the download and installation are completed, the program will prompt you to install the update. After the install, the program will prompt to restart and apply the updated portions. Select "OK" and the program will restart and is updated.

A Shop	•	🔺 Shop	P	A Sep	φ.
Purchased Items		Purchased Items		To start using the new	yly downloaded content,
Map of USA and Canada		Map of USA and Canada 2.79 GBytes Expiring in 1004 days	Install	you must restart navigation. Do you want to restart now?	
				ок	Later
\leftarrow	^	\leftarrow	^		2

Source(s): Xite Solutions North America XSG4NA User Manual Version 032221.01

How to Update Vehicle Profile Settings on an Xite G4 NavNGo Navigation System

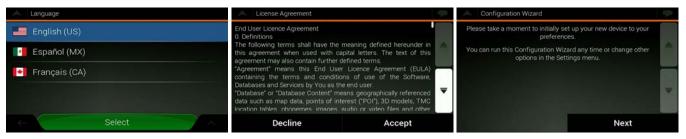
This article provides a quick step-by-step guide on how to select the appropriate vehicle profile in the [Xite G4 NavNGo] Navigation software to ensure the correct routing.

- System: XSG4NA generation
- System OS: All
- Navigation: NNG

The first time the Navigation software is used, it will present a setup wizard to guide you through the basic settings:

Configuration Wizard

- Select the appropriate language for the user interface. When the correct language is highlighted, press the "Select" button at the bottom of the page to continue to the next step.
- Accept the license agreement by pressing "Accept."
- Proceed to the configuration wizard by pressing the "Next" button at the bottom of the page.



- Select the desired voice profiles. When the selection is made and highlighted, press "Next." Note that during this step, the normal audio from the G4 will be suppressed.
- This page will allow you to change the units and formats used by the Navigation software to show you that information. By pressing the icon at the end of the line, you can change that specific setting.

A Voice Language		şə.	A Units and Formats	φ.
Deutsch Petra	Street names announced TTS Voice		Distance Miles/feet	
Deutsch _{Yannick}	Street names announced TTS Voice	*	Fuel Economy MPG(US)	8
English (US)	Street names announced TTS Voice		Weight Metric Ton	
English (US)	Street names announced TTS Voice	▼	Temperature *c	
English (US)	Street names announced		Time Format	
Back	Next		Back	Next

- In the route preferences, you can change the options for the actual routing. Make sure that the Vehicle profile line shows the RV class that the system is being used in. You can change that by pressing on that line in the page and select the required vehicle profile. When the correct vehicle profile is highlighted, press the "Back" button, and it will show your selection in the overview page of the Route preferences.
- When completed, press the "Next" button to proceed.

Route Preferences	φ	A Select Vehicle	9	A Route Preferences	9
Vehicle ^{Bus}		🖨 Car		Vehicle _{Class A RV}	
Route Planning Method		Bus	A	Route Planning Method	8
Navigation Mode		Class A RV		Navigation Mode	
Road types	—	Class B RV		Road types	T
📅 Freeways	on 💻 📖			📅 Freeways	on 🗾
Back	Next	Back		Back	Next

• The configuration wizard is completed. Press the "Finish" button to complete the configuration and start the navigation program with your selected settings and options.

 Configuration Wizard completed. 	φ.
You have completed the initial setup. You Wizard any time or change other optio	
	-
Back	Finish

Manual Changes

Changes can be made later on as well, if needed, to update the routing preferences or the vehicle specific variables.

- Open the main menu and select the "Settings" page. When in the settings page, select the "Route Preferences" option.
- In the Route Preferences menu, you can select the Vehicle line to access the vehicle profile selections.

•	Main Menu			9	•	Settings			Ş	A Route Preferences	9
loust	onzSt		10 14			oj		A		Vehicle Class A RV	
	 !	0	I.			Route Preferences	Sound	Warnings		Route Planning Method	
<	Shop	Settings	About	>	<	P.	Ē		>	Navigation Mode	
			200			Navigation View	Regional	Display		Road types	
			TT	Plegg						Treeways	on
osa s	st	* 🐠	3D 🔮	×	\leftarrow				^	Back	Next

When in the vehicle selection list, press the Arrow up icon in the bottom right corner to access the "Edit" function.
Select which vehicle profile you would like to edit by tapping the icon behind the vehicle profile name. and select the "Modify Vehicle" option to access the specifics of the selected vehicle profile.

Select Vehicle	P	A Still Whee		A Select Vehicle to Edit	
Car		Car Car		🚗 Car	
🛄 Bus		Bue			Delete Vehicle
Class A RV		Class A RV	Class A RV	Modify Vehicle	
🛄 Class B RV	-	Chas B RV Edit		Class B RV	Close
□ Class C RV ←	^	Chase C RV	~	☐ Class C RV ←	Done

- Change the vehicle profile variables you want to change here (length, weight, height, etc.). Scroll through the list to see all options.
- When all the changes are completed, press the back arrow to return to the vehicle profile list, and press "Done" to finish the modifications to the vehicle profiles.

Vehicle Settings	\$	▲ Vehicle Settings	ş	Select Vehicle to Edit	P
Name Class A RV		Show this page for each route planning on		Car	
Type _{Bus}	A .	Length 44.10 ft	▲	Bus	
Maximum Speed		Width 845 ft		Class A RV	
Fuel Consumption in Cities	₹	Height 13:20 ft	₹	Class B RV	■
Fuel Consumption on Highways		Trailers	3	Class C. RV	
	~	+	^	← Done	\mathcal{I} \wedge

Source(s): Xite G4 Navigation Vehicle Profile Settings (April 2021)

How to Secure a WiFi Connection for Map Updates on an Xite G4 NavNGo Navigation System

This article provides steps for ensuring an adequate WiFi connection for over-the-air map updates on an Xite G4 radio core with a built-in NavNGo navigation system.

Make sure the WiFi dongle (USB 1) has the black plastic antenna cover plugged into the USB end. The wiring connections are in the dash and may require removing the dash inlay or access panel.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

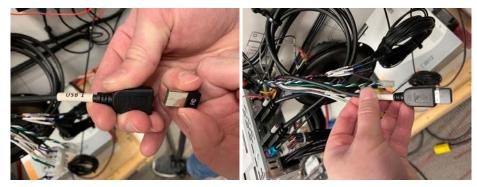
ELECTRONICS

From the Xite G4 display, go to the Main Menu. Press the Settings/Setup button. Press the System button. Press the WiFi Settings button. Press Setting to enter WiFi setup menu. Refresh the screen to view the list of available WiFi hotspots. Select the WiFi hotspot you wish to use, and enter the WiFi password for that network.



Follow the on-screen prompts as if you are connecting to a WiFi network on a smartphone.

If it does not connect to the WiFi system, check the back of the Xite core to make sure the WiFi dongle (tiny black connector that plugs into the USB) is connected. If the dongle was not installed or has been removed, there will be no black plastic end with the label "F Cc." To correct this issue, a dongle must be ordered and installed in order to receive the WiFi signal. This WiFi dongle is proprietary and cannot be replaced with a different dongle or antenna. Contact Newmar Parts department to purchase the dongle (Newmar part # 026842 / Riverpark part # XS90199).



Once a stable WiFi connection has been established, check for navigation system updates. For more information about this process, refer to the <u>NavNGo Navigation System Operation via Xite Infotainment System</u> article in Newgle.

RV Toll Pass Transponder Quick Start

This article provides a basic overview and activation instructions for a Universal RV Toll Pass™ Transponder.

The revolutionary RV Toll Pass[™] transponder now makes the open road even more open. The RV Toll Pass[™] is a radio frequency multiprotocol toll transponder and single account solution that allows RVers to seamlessly and conveniently travel the nation's toll roads by taking advantage of cashless electronic tolling.

Owners of RVs and trailers can now access major toll roads across the United States (not available in Canada) with a single toll transponder. They can also easily manage all nationwide toll fees from a single account.

How Does it Work?

The RV Toll Pass transponder communicates with radio frequency antennas located at toll plazas and gantries, signaling that the vehicle is cleared to pass without having to stop to pay the toll. RV Toll Pass customers enjoy the freedom of all-electronic tolling paid through a single account for road usage across the U.S.





© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle

The RV Toll Pass is an interior-mounted transponder powered by a DC-to-DC converter, which is activated by ignition power. The transponder is securely attached to the vehicle windshield.

The RV Toll Pass transponder may be mounted on the interior windshield on Class A coaches and inside the front cap above the Newmar exterior badge on Super C coaches, with the longest side parallel to the bottom of the windshield.

A IMPORTANT

Other tags must be kept at least 3 inches away from the transponder. The area on the dashboard beneath the transponder must be kept clear of paperwork and metallic items.

What are the Advantages?

- Comes pre-installed in the vehicle
- RV Toll Pass covers the majority of toll roads in the U.S.
- · One registration, one account, one transponder
- RV Toll Pass customers no longer need cash to pay toll collectors or stop at a toll booth to throw money into coin counter baskets.
- Eliminates the need for multiple toll transponders and accounts for use at separate toll authorities and regions.
- Tolls captured electronically are typically lower than the cash toll price, saving money.
- Many toll roads use technology that can capture the toll transaction of vehicles traveling at highway speeds, saving time and eliminating need to navigate those narrow lanes at toll booths.
- · Nominal monthly fee charged ONLY in months tolls incurred

How Do I Activate It?

Activation is the process of establishing an account and linking it to your RV Toll Pass transponder, vehicle and pre-payment method. Once activated, you will only be charged for replenishing your account when the balance drops below a minimum and you will only be charged a service fee plus tolls in months that you incur toll charges. You must have an active credit card and an established account to pay tolls charged to your RV Toll Pass[™].



A CAUTION

Failure to register and activate your new transponder may result in toll violations and fines.

- 1. Go to https://rvtollpass.com, and visit the Login page to create an account.
- 2. Follow the instructions to register and activate your RV Toll Pass.
- Your 13-digit RV Toll Pass ID (UID) will be provided in your new customer information package and is also printed on a sticker on the toll module, which may be upside down. You will also need your RV's license plate number(s), including any towed vehicle or trailer. Temporary plate numbers can be used and updated with permanent plate number(s).

Where Does it Work?

The transponder works on virtually all U.S. toll roads that use interoperable electronic tolling technology. That is over 97% of major toll roads in the U.S. Toll roads with incompatible technology typically will charge tolls to your RV Toll Pass account based on the vehicle license plate. For more information about Non-Participating Roll Roads and Bridges, refer to the <u>RV Toll Pass website</u>.

Can I Tow My Vehicle or Trailer?

Toll authorities that charge by number of axles typically utilize automatic axle counters to charge a toll based on the actual number of axles. Some toll authorities rely on a code programmed within the transponder to convey the toll rate category based on axles, tires and weight. Your RV Toll Pass transponder contains a code matching the toll rate category of your RV. If you are traveling with a towed vehicle or trailer, check with the Toll Authority and follow their guidance.

Source: <u>RV Toll Pass</u>

Delta Mobile Smart Sensor System with Blind Spot Detection Quick Start (Model: 76B)

This article provides basic operation instructions for a Delta Mobile Smart Sensor System with Blind Spot Detection (Model: 76B).

Overview

The 76B Smart Sensor System for Class A Recreational Vehicles (RV) is a blind spot detection system. The system warns the driver of objects detected in the vehicle's blind spot via visual alerts. The visual alerts are LED indicators located in the side view mirrors.

The 76B system is not to be used as the sole method of checking the blind spot. It is the driver's responsibility to adequately check the blind spot by utilizing the vehicle mirror and looking over the shoulder through the vehicle windows, to maintain control of the vehicle, and to keep the vehicle operating in a safe manner at all times. The driver of the vehicle should always be aware of his/her surroundings and react appropriately in a safe manner. Failure to use safe driving procedures may result in vehicle damage, injury, or death.

General Operation

The 76B system alerts the driver to potential hazards located in the vehicle's blind spot by using multiple sensor units mounted on each side of the vehicle. Refer to the illustration for an exemplary diagram of a vehicle equipped with the 76B system and approximate blind spot coverage area. The approximate coverage area includes the sides of the vehicle in the adjacent traffic lanes.

When the vehicle is turned on and the 76B system is active, the system alerts the driver of potential hazards in the adjacent lane(s) to the vehicle by lighting LEDs installed in the side mirrors. The LEDs will illuminate only on the side where the potential hazard is detected.

System Behavior and Alerts

When the vehicle is turned on, the 76B system is then powered. The side mirror LEDs will flash six (6) times when the system is ready and active.

When an object is detected within the blind spot area, the side mirror LEDs will be illuminated to alert the driver.

- While an object is detected on the left side of the vehicle, the LEDs on the left side will be illuminated.
- While an object is detected on the right side of the vehicle, the LEDs on the right side will be illuminated.
- If the turn signal is on and an object is detected, the corresponding left and/or right LEDs will blink, instead of being continuously illuminated.

If a system error occurs, the LEDs will continuously flash in a 3-blink sequence.

False Alerts

False alerts may occur in unusual traffic and/or roadway conditions. Road conditions and other external factors should be taken into consideration when reacting to an alert. Refer to the "Important Safety Information" section for other situations which may cause false alerts.

System Error

If the LEDs flash in a 3-blink sequence, a system error has occurred. When in a safe condition to do so, turn off the vehicle and turn it back on in order to re-start the system. If the system error condition persists, contact the authorized dealer of the vehicle OEM.

Important Safety Information

WARNING

The 76B system is not to be used as the sole method of checking the blind spot. It is the driver's responsibility to adequately check the blind spot by utilizing the vehicle mirrors and looking over the shoulder through the vehicle windows, to maintain control of the vehicle, and to keep the vehicle operating in a safe manner at all times. The driver of the vehicle should always be aware of his/her surroundings and react appropriately in a safe manner. Failure to use safe driving procedures may result in vehicle damage, injury, or death.



A CAUTION

The following should be considered when using the 76B system.

- The 76B system will not function immediately upon turning on the vehicle. There is a short delay while the system starts. The LED six-blink sequence indicates when the system is ready and functioning.
- If the LED indicators are not functioning properly, the 76B system may be detecting objects but unable to alert the driver.
- The sensors of the 76B system should be kept clean. Buildup of debris, such as dirt, ice, and snow, on the sensors
 may affect normal functionality and performance to detect objects in the blind spot.
- Extreme weather conditions may affect system functionality and performance to detect objects in the blind spot.

The 76B system may not detect objects in the blind spot under the following conditions:

- An approaching vehicle rapidly passes your vehicle.
- Your vehicle rapidly passes a vehicle in the adjacent lane.
- Objects in the blind spot are vehicles such as small cars, motorcycles, low height vehicles, high ground clearance vehicles, or oncoming vehicles.
- Objects in the blind spot are smaller than vehicles, such as pedestrians, bicycles, animals, etc.
- The lane width is wider than the standard lane width.

WARNING

Due to placement of each sensor in the 76B system, there may be areas along the vehicle where the 76B system cannot detect an object.

The 76B system will not detect objects which are beyond the coverage area of the sensors mounted on the sides of the vehicle. For example, the 76B system will not detect objects that are in front of the vehicle, directly behind the vehicle, or under the vehicle.

The 76B system may alert the driver of objects in the blind spot in the following conditions

- Guard rails, overpass walls, tunnel walls, road construction barriers, etc.
- Vehicles two lanes away when the lane width is narrower than the standard lane width or when the detected vehicle is a large vehicle such as a tractor-trailer or bus.

The 76B system is fully operational under normal driving conditions. Shown below are situation where the 76B system may not function as intended. The below list does not necessarily cover all situations such as environment, traffic conditions, road conditions, driver behavior, or other abnormal effects that may impact functionality.

Severe Weather: In the case of severe weather, such as very heavy rain or snow, severe hail, ice buildup, or dust storms, the 76B system may not perform as intended.

Construction Zones: The 76B system may not perform as intended in construction zones, as well as unpaved/unfinished roads.

Off-Road: The 76B system may not perform as intended in off-road situations. Debris kicked up from the tires, such as mud, gravel, sand, or water may be detected.

Small Objects: When encountering small objects, such as small animals, pedestrians, and bikes, the 76B system may have difficulty detecting them. The driver is responsible for being aware of these types of objects and responding appropriately.

Road Side Objects: The 76B system may pick up road side objects, such as, but not limited to road signs, parked cars, railroad crossing arms, lane dividers, guard rails, curbs, tunnels, overpasses, mountain sides, and snow piles. A varying lane height may also be picked up by the 76B system.

Low Battery: In cases where the battery of the vehicle is low, has poor connection, or has corrosion of the battery terminals, the 76B system may not function as intended.

Radio Waves: The 76B system may not function as intended near buildings that emit strong radio waves or due to radio wave interference by devices internal to or near the vehicle. If an object in the blind spot zone does not effectively reflect radio waves, the system may not detect the object.

High Relative Velocity: The 76B system may not perform as intended when an adjacent vehicle is traveling at a high relative velocity to the driver's vehicle.

Abrupt Lane Changes: The 76B system may not perform as intended when a vehicle moves quickly into an adjacent lane, as well as the reverse case, where the driver's vehicle quickly moves into a lane adjacent to a vehicle.

WARNING

The 76B system should not be altered after OEM installation. The functionality and performance on the system may be compromised by any alterations.

The 76B system should not be altered in any manner or uninstalled. The sensors should not be covered or obstructed. The sensors should not be painted or re-painted except by the vehicle OEM.

Any damage to the vehicle which impacts the 76B system should be checked by the vehicle OEM.

Source(s): 76B Blind Spot Monitoring System Product Training Product(s): Delta Mobile Smart Sensor System with Blind Spot Detection (Model: 76B, Newmar Part Number: 158293)

KEYLESS ENTRY SYSTEMS

Keyless Entry System Overview

This article provides a brief overview of the keyless entry system. This article is NOT specific to any particular system but is intended as a summary of what the system does and how it operates. For more information about the specific Newmar-installed security and keyless entry system in your coach, refer to Newgle.

Many Newmar coaches are equipped with a keyless entry system, which will allow for entry into the coach without the use of a key (via key fob or keypad). It requires the user to have the correct code to unlock the door.

Equipped coaches are shipped from the factory with a standard access code. When the coach is purchased, it is recommended that the customer obtain technical assistance in reprogramming a new access code while taking delivery of the unit from the dealer.

IMPORTANT

When purchasing a new or pre-owned coach, Newmar recommends resetting all default keyless entry codes and WiFi system network passwords to prevent unauthorized access to the coach and its components.

Trimark Electronic Access Security Keyless-Entry Quick Start (Model: e-FOB / e-PAD)

This article provides basic operation instructions for a Trimark Electronic Access Security Keyless-Entry system (Model: e-FOB / e-PAD).

e-PAD Operation and Features

Lock Doors With Keypad: Press and hold down the (1) button for 1-2 seconds. An access code is not needed to lock the doors.

Door Bell Operation: The doorbell button provides a 0.5 second ground pulse from the 2nd Auxiliary output when pressed. An access code is not necessary for the doorbell.

Using Secure Operations: Entering a valid 5-digit access code provides a double beep and enables a secure operation. After entering an access code, the keypad is enabled for 5 seconds. The next button pressed initiates a secure operation, such as unlocking doors.

Available Secure Operations:

- Button (1): Unlock entry doors.
- Button (2): Unlock doors wired to 2nd unlock output.
- Button (3): NA
- Button (4): Sequentially activate entry unlock and 2nd unlock outputs.

Light Activation: When the alarm is armed, the parking lights and headlights flash. With an unlock instruction from either the fob transmitter or keypad; the dome light stays illuminated for 30 seconds and the parking and headlights flash.

Teaching Keypad New Authority / Access Codes

The Authority Code has only one purpose; it grants the owner the ability to set new Access Codes. The Authority Code must be EXACTLY 5 digits long. There are two ways to set the Authority Code with the TriMark Full Feature System. Changing the Authority Code erases all previous Access Codes and sets a new Access Code in memory bank 1 that is the same as the new Authority Code.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle



Press and release the push button 3 times. Wait 3 seconds. The keypad will beep for 3 seconds. The keypad is now in "Learn Mode".

NOTE FROM NEWMAR

For Newmar's location of the switch to reset and reprogram the Trimark Keyless Entry System, refer to the " Trimark Keyless Entry Reset/Program Switch" article in Newgle.

Enter a new 5-digit Authority Code. (Double chirps after each button press). The keypad chirps 3 times after the 5th digit's entry. Re-enter the new Authority Code for confirmation. The keypad will chirp FOUR times after successful confirmation. A long beep indicates a failure to change the code. Test the new code to confirm it.

- The user is given 2 minutes to complete this procedure. If it isn't completed in time, or an error is made, the system will exit learn mode and a long chirp will sound to indicate the error.
- While in "Learn Mode," each button push provides a double-chirp and the backlight flashes.
- The authority code is to be controlled by individuals (owners of vehicle, fleet manager, etc.) who manage the distribution of access codes to vehicle users.
- The authority code should be changed when the vehicle is sold.
- The authority code does not enable secure functions (lock/unlock doors, etc.) it is only used to assign access codes.
- Doorbell systems only allow codes using buttons 1-4 and provides for 4 unique access codes.
- The keypad automatically leaves "Learn Mode" when the new code is set.

Assigning New Access Codes

The Access Codes are used for secure functions, such as unlocking doors. The Access Codes must be EXACTLY 5 digits long. With a valid Authority Code, an Access Code can be programmed with the following instructions:

Press the number(3) button for 5 seconds until the keypad beeps. The backlighting of the keypad will flash indicating the keypad is in "Learn Mode." Enter the 5-digit Authority Code.

- If you enter an INCORRECT Authority Code, the keypad will beep for 1 second, and leave "Learn Mode."
- If you enter a CORRECT Authority Code, the keypad will provide a constant beep that will only stop after you have defined a memory bank to store the new Access Code.

Press and release the button that corresponds to the memory bank. For example, press number(1) button for Memory #1 and press number (2) button for Memory #2. During this activity you are choosing 1 of 5 (4 on keypads with door bell) memory banks. Enter a new 5-digit Access Code. The keypad chirps 3 times after the 5th digit's entry.

Re-enter the same new Access Code for confirmation. The keypad will chirp 3 times after a successful confirmation. A long beep indicates a failure to change the code. Test the new code to confirm a successful change. Repeat process to assign additional Access Codes.

- Up to 5 (or 4 on doorbell keypads) different Access Codes can be assigned at any time. As additional Access Codes are defined, pre-existing Access Codes are overwritten. For example, if a new Access Code is assigned to Memory #3, the previous Access Code in Memory #3 is no longer valid.
- If an error is made at any point, or if time runs out, the keypad will exit "Learn Mode," provide a 1-2 second beep, and not change anything.

e-FOB Operation and Features

Cargo Mode

- Entry Lock: Locks entry doors and arms security system
- Entry Unlock: Unlocks entry doors, disarms security system, and activates the porch light
- Cargo Lock: Locks compartment doors and arms security system
- Cargo Unlock: Unlocks compartment doors and disarms security system

While the engine is running, only the entry unlock function of the e-FOB remains activated — other functions are deactivated.

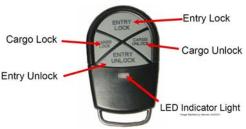
Teaching Additional FOB Transmitters

Turn ignition off and disarm alarm. Press and release the programming button 3 times. The LED will turn on red after 3 seconds.

NOTE FROM NEWMAR

For Newmar's location of the switch to reset and reprogram the Trimark Keyless Entry System, refer to the " <u>Trimark Keyless Entry Reset Switch</u>" article in Newgle.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle



Press and release the Lock button of each new FOB transmitter once. The LED will flash off and the horn will sound once. Up to 60 transmitters may be programmed at one time. Repeat last step until all fobs are programmed.

Notes:

- If you place the system in learn mode and teach nothing, the system will exit in 10 seconds.
- When new transmitters are taught, all old transmitters are erased.
- The memory for codes will not be erased if power is removed.
- As soon as the LED turns off, the system is fully functional.

Replacing the Key Fob Battery

To replace the key fob battery: Remove screw on back of remote with a Phillips head screwdriver. Pull/pry the housing apart, and separate elastomer. Push the battery out of the battery holder and replace it with a fresh one. Reassemble fob.

The fob should not lose its programming after a battery change.

Source(s): TriMark e-ASK e-FOB e-PAD Consumer Manual

COACH MANAGEMENT AND MULTIPLEX SYSTEMS

KIB Multiplex System

2025 KIB L-Panel LCD Capacitive Touch Panel Guide

This guide provides information about the features and settings within the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) installed in select 2025 coach models: New Aire, Mountain Aire, London Aire, Essex, King Aire, and Supreme Aire. This vertical touch panel is only installed on coaches also equipped with a SilverLeaf Touchscreen.

MPORTANT

The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

Overview

Touch the inactive (blank) screen to activate and display the Home Menu screen and the buttons used to control the available functions on the coach, such as Lighting, Shades, Fans, Systems, Monitor Panel, Window Awnings, and/or Display Brightness.

Once a button is touched, it will turn red, indicating the circuit is active. The buttons are gray while the circuit is inactive. Once the panel becomes inactive and times out, it will default back to the blank screen.



More Info Button

A "More Information (*i*)" icon is also available in the upper right corner. Currently, the L-PANEL-4C-5.0 operation instructions are within the LCD. To navigate to these pages, press the "*i*" button at the top right of the navigation page, then select the desired instruction. Each operation instruction page is listed below.

Refer to the associated article in Newgle to view graphics and an explanation for each available screen.

Button Functions

Lights: Page jump to the control page for LIGHTS.

Shades: Page jump to the control page for SHADES.

Fans: Page jump to the control page for FANS.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

<u>Systems</u>: Page jump to the control page for WATER PUMP, GENERATOR START/STOP, and TV LIFT.

Monitor Panel: Page jump to the status page for POWER and TANKS.

Awnings: Page jump to the control page for AWNINGS.

Display Brightness: Controls the brightness of the KIB L-Panel displays in the current room or zone.

SilverLeaf Coach Management System

2025 SilverLeaf Touchscreen Guide: Introduction

This article provides information about how the SilverLeaf coach management system works.

What is SilverLeaf, and How Does It Work?

SilverLeaf is a user interface that coordinates the various systems, such as AC/DC Power, HVAC, and water tanks in the Newmar high-end coaches (New Aire, Mountain Aire, Supreme Aire, London Aire, Essex, and King Aire models). SilverLeaf is based on the RV-C industry standard for component communications.

The SilverLeaf system is not the actual controller for the systems within a coach. It is simply the display that sends the signal to tell various components what actions to take. There is no main computer. Each of the controlling modules functions independently; when one system is down, the others continue to operate.

This interface allows the user to access the control functions for the various systems and make changes from one centralized location, which may be the overhead control panel in the cockpit, on the wall in the center of the coach, or from the optional bedroom control panel. The settings may be adjusted from a tablet, computer, or smartphone with the appropriate application. This option is only available for coaches equipped with WiFi and Rozie telematics. The interface also displays system status messages and warnings.

MIMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

RV-C Control System

RV-C is the recreational vehicle version of the Bosch Controller Area Network or CAN Bus. This system has been used in the automotive industry for many years. RV-C is a network of modules that share common language and procedures. Some of the modules controlled by the RV-C include: AC (120 Volt) and DC (12 Volt) Power, Generators, Water Tanks, Climate, and Floor Heat.

When a module sends a command to the system, it is authenticated to ensure that the message has been received correctly and is not corrupted in any way. This means that the systems are less likely to malfunction. The RV-C verifies the signals it receives before sending them, which is a distinguishing characteristic of the RV-C system. Older technology would simply send the signal.

Technical Support

Follow these simple steps before calling Technical Support:

- 1. Verify the issue. Be sure it is an issue with the system and not operator-error.
- Check the display(s). Make sure the HMS700 series display(s) have not been reset to factory default settings. Check the labels on the zones. For example, if a display has been reset to the default, the label on the zones would be changed from "Living Room" to "Zone 1."
- 3. Verify the coach information. Be sure to have the Newmar coach serial number (six digits) and the last seven digits of the Vehicle Identification Number (VIN) to ensure the Support Representative can accurately identify the coach.

When in doubt, call Newmar Technical Support for assistance, especially if you suspect that your issue may be software-related. Software and firmware updates can often resolve any issues you may face. Your representative can guide you through the best solution for troubleshooting, and, if necessary, replacing the modules at an Authorized Service Center.

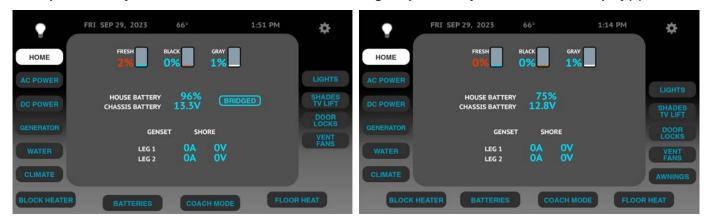
A CAUTION

Never reset any of the system components to factory defaults. The modules should be programmed correctly by the manufacturer. Resetting any of the SilverLeaf components may cause physical damage to various systems on the coach, which could cause physical injury.

2025 SilverLeaf Touchscreen Guide: Home Screen (Coaches with Lithium Batteries)

The Home screen displays tank levels, basic electrical system information, and provides access to all main functions controlled by SilverLeaf. These functions are accessible by tapping one of the buttons on the Home screen. Pressing the Home button from any of the display screens will return the user to the initial Home screen.

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).



Status Displays

Date | Outside Temp | Time: The system date, outside temperature, and time are displayed across the top of the screen.

Tank Status: The fresh, gray, and black holding tank statuses are displayed as percentage-full levels. These values are displayed as both a numerical percentage and a bar graph.

House Voltage /Chassis Battery Charge Levels: The house battery charge level percentages and chassis battery voltage values are displayed beneath the tank status.

Charge Bridge Status: The charge bridge function ties the house and chassis battery banks together. When the charge bridge is energized, "Bridged" will appear on the right side of the DC voltage values.

AC Power Values: The AC power source (shore and generator), voltage, and current (amperage) for both AC power legs are displayed.

Buttons

Home: Press the Home button to return to the Home screen. The Home button is only operational from other screens.

AC Power: Press the AC Power button to view the AC power source, line voltage, current (or amperage) usage, and AC line frequency (Hz). From this screen, the user can access Load Shed Setting and Load Status information, as well as view the max charger draw and the status of the inverter(s).

DC Power: Press the DC Power button to view the status of the DC inverters and access the Inverter Settings screens. This button displays the batteries and their voltage, the status of the chargers/inverters, and the rate of charge.

Generator: Press the Generator button to view the generator operating and Auto Generator Start (AGS) statuses. The Generator screen allows the user to start and stop the generator and view the current generator operating status, including generator run hours, engine RPM, AC voltage, frequency (in Hertz), and engine temperature. This screen also displays the AGS locks and triggers and allows the user to clear the AGS locks.

Water: Press the Water button to display information about the auto-fill function, tank levels, the water pump, and the LP tanks (if the coach is equipped).

Climate: Press the Climate button to display and control the settings for the HVAC system in the coach. Set the desired temperature for heating and cooling for individual rooms or for the entire coach, as well as schedule temperature changes by day, night, or when away from the coach.

Block Heater: Press the Block Heater button to display the ON and OFF toggle switch for the block heater.

Batteries: Press the Batteries button to display the Lithium Battery settings and statuses.

Coach Mode: Press the Coach Mode button to select a usage method based on the coach's status under various conditions. This allows the SilverLeaf system to activate specific settings based on whether the coach is being used, stored inside, or stored outside.

Floor Heat: Press the Floor button to display and control the settings for the floor heat function. The floor heat control system operates by switching the different floor zone heat mats ON and OFF, as determined by the intervals and values selected. There are three different zones in the coach, and each zone may be set for a different temperature. The Floor Heat button is only available if the coach is equipped with floor heat.

Lights: Press the Lights button to access the lighting controls. Select the desired room, followed by the desired light(s) within the selected room.

Shades/TV Lift: Press the Shades/TV Lift button to access the controls for the shades and television lift (televator). Select the desired room, followed by the desired shades within the selected room. Raise or lower the televator using the control buttons.

Vent Fans: Press the Vent Fans button to select and control the vent fan(s), which may include Kitchen, Stool Room, and/or Master bathroom, depending on the coach model and floorplan.

Door Locks: Press the Door Locks button to select and control the locks on the entry door and the baggage door compartments.

Light Bulb Icon/Brightness: Press the light bulb icon to control the brightness of the touchscreen display. A dim bedroom display screen may be preferable at night so it does not inhibit sleep.

Configuration/Settings: Press the Settings button (cogwheel icon) to access numerous functional controls (when equipped), such as: Set the Clock, Lights and Shade Codes, Lithium Battery Status, Inverter Diagnostics, Climate Options, Generator Settings, AutoGenStart Settings, Warnings Configuration, AutoFill Configuration, Tablet WiFi/Rozie Settings, System Component List, Network Diagnostics, Monitor Diagnostics, Tank Configuration, View AC Power History, Customize Monitor, Monitor Configuration, Climate Screen Configuration, Misc Settings, View Logo, View Clock, Test Touchscreen, and Reboot.

2025 SilverLeaf Touchscreen Guide: Coach Mode

The Coach Mode screen displays the automatic options for coach usage and storage. These settings are not mandatory to use; however, the user can manually set up everything for specific functions and usage.

MPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

IMPORTANT

It is the owner's responsibility to understand and maintain the battery systems in the motorhome. This was designed to help an owner who is unfamiliar with the setup of these specific conditions.

The user can determine which condition is active by the green highlighted ring around the condition. Any of the listed items that are not automatically activated with a checkmark may be disabled in another setup screen. The user can change the setting(s) for the appropriate item(s) and then return to the Coach Mode screen to verify the correct setup.



- Chargers DC Power
- Oasis Climate All

- Inverter AC Power
- AutoGen Generator/AGS Settings

Active Camping: When actively using the motorhome, press the Active Camping button, followed by the Activate button. This will automatically provide a list of items that should be activated.

When not actively camping outdoors with the motorhome, press the description that fits the condition, followed by the Activate button.

This will automatically provide a list of items that are activated based on the chosen condition. A green highlighted ring will display around the active condition.

Outdoor Unplugged: When the motorhome is stored outdoors while unplugged, press the Outdoor Unplugged button, followed by the Activate button. This will automatically provide a list of items that should be enabled or disabled.

Outdoor Plugged In: When the motorhome is stored outdoors while plugged into shore power, press the Outdoor Plugged In button, followed by the Activate button. This will automatically provide a list of items that should be enabled or disabled.



Indoor Unplugged: When the motorhome is stored indoors while unplugged, press the Indoor Unplugged button, followed by the Activate button. This will automatically provide a list of items that should be enabled or disabled.

Indoor Plugged In: When the motorhome is stored indoors while plugged into shore power, press the Indoor Plugged In button, followed by the Activate button. This will automatically provide a list of items that should be activated.



SilverLeaf LR125/LR130 Module with System Control App for Personal Devices Overview

This article provides quick start instructions for accessing the SilverLeaf LR125/LR130 "System Control" app and pairing it with the coach.

The System Control app allows the user to control numerous coach features directly from a personal device such as a smartphone or tablet. This relates only to coaches equipped with SilverLeaf and an LR125 or LR130 module.





SilverLeaf Electronics Tools

E Everyone

O This app is compatible with all of your devices.

Download and install the System Control app from the app store on your Android or iOS mobile device(s). The app may ask you for permissions. Accept these for full functioning of the app.

Make sure your mobile device is connected to your coach's WiFi network. The network name can be found on the face of the WiFiRanger or Converge indoor router. (Example: NewmarXXXX (XXXX = 4 digit number))

Start the System Control app from your mobile device.

The app will search and find the System Control module on its own. The app should start and load the User Interface.

If it does not connect, it will inform you that it has not found the module. Check the connection to the coach network. You may be connected to another WiFi signal instead of your coach's WiFi network or be out of range of your coach's indoor router.

Source: LR125 SilverLeaf User's Guide. For more information see the complete user guide provided by SilverLeaf, which can be found attached to the <u>WiFi</u> <u>Server</u>.

For customers with SilverLeaf touchscreen(s) with version 1.81 or higher, LR 125/LR130 version 2.01 or higher, web version 5.0, and operating system version 4.0:

An additional layer of SilverLeaf LR125/LR130/Control app security called "white listing" is available for the customer to use if they wish; however, it is not required. For more information about using white listing, refer to the PDF file in Newgle called "White Listing Devices via LR125 and System Control App.

Source: SilverLeaf White Listing Devices via LR125 and System Control App. For more information see the complete user guide provided by SilverLeaf.

WIFI SYSTEMS

WiFi Ranger Converge LTE Indoor/Outdoor Router Quick Start

This article provides an operational overview of the WiFi Ranger Converge LTE Indoor/Outdoor Router (Model: Teton/Poplar Combo, Denali/Spruce Combo, and Aspen/Everest Combo). This information only applies to coaches equipped with an optional WiFi Ranger Converge Router.

Components

Get the most out of a WiFi Ranger system with an indoor & outdoor pack [...] for more network versatility and functionality when compared to a standalone unit. All of the long-range WiFi, LAN ports, USB tethering, and upgradability features unite in these Packs. Furthermore, you will enjoy maximum wireless coverage, performance, and reliability when using a Pack.

Indoor Routers

Poplar: WiFiRanger Poplar is an entry-level mobile router with 2.4GHz WiFi, a USB port for LTE tethering, 100Mbps LAN ports, and an integrated LTE modem (optional).

Spruce: WiFiRanger Spruce is a mid-performance mobile router with 2.4GHz / 5.8GHz WiFi, a USB port for LTE tethering, and 1000Mbps LAN ports.

Aspen: WiFiRanger Aspen is a high-performance indoor mobile router with Gigabit LAN, 2.4GHz / 5.8GHz WiFi, USB 3.0 LTE Tethering, and LTE Modem (optional).

Outdoor Routers

Teton: WiFiRanger Teton is an entry-level outdoor router with 2.4GHz WiFi, 1mi range, a 100Mbps LAN port, and an integrated LTE modem (optional).

Denali: WiFiRanger Denali is a mid-performance outdoor router with 2.4GHz WiFi, 1.5mi range, a 100Mbps LAN port, and an integrated LTE modem (optional).

Everest: WiFiRanger Everest is a high-performance outdoor mobile router with Gigabit LAN, 2mi Max Range, 2.4GHz / 5.8GHz WiFi, and LTE Modem(s) (optional).

Quick Start Guide

Power up your WiFi Ranger(s). Follow steps from Rooftop Installation and Interior Installation in order to power up unit(s), then wait 5 minutes.

Wirelessly connect your device to your WiFi Ranger. Network names vary depending on which WiFi Ranger model(s) you have. Note that the blank space need to be filled in with the 4 unique digits of your WiFi Ranger(s).



Pvt. WFR_	_Teton	Pvt. V
Pvt. WFR_	_Denali	Pvt. V
Pvt. WFR	Everest.	Pvt. V

	Pvt. WFRPoplar
	Pvt. WFRSpruce
-	Pvt. WFRAspen



Enter Password: changemenow_____. Enter password in lower case with no spaces. Note that the blank spaces need to be filled in with the 4 unique digits of your WiFiRanger(s).

Visit mywifiranger.com. This brings up the WiFiRanger Control Panel which can be bookmarked for future access.



Click Connect on WiFi network or Cellular device. For filtered WiFi networks, proceed to the captive portal or login page and enter the necessary credentials or terms of service.

LTE Activation

WiFiRanger is pleased to provide LTE solutions that are not locked into a specific cellular carrier. This approach gives the customer increased flexibility over other competing offerings which are tied to singular carriers or data plans. The WiFiRanger LTE solution gives you the freedom to find the perfect plan for you. The cellular landscape is always evolving and advancing, so our goal is to assist you in making the most of the myriad of data options available. The following advice is to help you navigate the data plan and activation topics that are applicable to our LTE solutions. The LTE solutions offered by WiFiRanger are subject to change based on the evolving cellular landscape.

Important Considerations

Data Plan Availability Varies by Region: Some cellular carriers offer certain data plans by region. As such, you may find that the data plan that you desire is available through a cellular reseller or representative in another area while your local representative has more limited options. Check around or call a representative in another region if you can't find what you want locally.

SIM Card Type May Affect Data Plan Options: WiFiRanger provides standard consumer SIM cards with their LTE modems. These SIM cards may not work on business data plans, but should support most consumer data plans. It is important to ask your cellular carrier if the SIM card you provide them is the right kind to meet your data needs.

Ease of Modem Activation Varies by Reseller / Carrier: In some cases, it can be difficult to activate the WiFiRanger LTE modem and SIM card depending on the representative you speak with. Some representatives work for a cellular reseller that does not have the offerings you desire, or you may need a more knowledgeable representative to handle your request. Ask different cellular stores, resellers, or a direct Carrier representative until you find the right person to activate your modem and SIM card on the desired plan.

Data Plan Pricing Depends on Your Cellular Account: In large part, the price of data plans for the WiFiRanger LTE modem are affected by your cellular account type and other data plan(s) on your account. In some cases, the WiFiRanger LTE modem will require having a data-only plan that is separate from the data plan attached to your smartphones or other devices. Checking with your carrier on costs will help you to understand how the carrier will handle the WiFiRanger LTE modem pricing and data amounts available.

Upgrading from Non-LTE WiFiRanger to LTE Modem May Require Additional Steps: If you are upgrading a from a non-LTE WiFiRanger router to an embedded LTE modem, please be sure to click Check for Updates on the WiFiRanger Control Panel after installing the modem or upgrade kit. If you are experiencing problems or have questions about the new LTE modem, contact WiFiRanger to assist in getting your WiFiRanger configured to support the new modem. Our contact info is listed on the bottom of this guide.

Changing Cellular Carriers Should Only be Done After Verifying Supported Bands: If you plan on changing cellular carriers, ensure that your modem supports the necessary bands. Supported bands listed below:

- Category 4 Modem: Quectel EC25-AF 2 / 4 / 5 / 12 / 13 / 14 / 66 / 71
- Category 6 Modem: Quectel EP06-A 2 / 4 / 5 / 7 / 12 / 13 / 25 / 26 / 29 / 30 / 66

Identify modem model on Setup tab of Control Panel under Cellular settings.

Activation Contact Information

Carrier: AT&T

- Consumer: 888.333.6651
- Business: 888.444.4410
- att.wifiranger.com

LTE Setup

Accessing Cellular Settings

- 1. Power up the WiFiRanger system with embedded LTE modem(s).
- 2. Connect over ethernet or wirelessly to the WiFiRanger's network.
- 3. Access Control Panel of the WiFiRanger and select the "Setup" tab.
- 4. Expand modem settings by clicking the appropriate gear icon:
 - 1. Standalone WiFiRanger (indoor or outdoor unit): Click "Cellular" gear icon.

Carrier: VERIZON

Not Officially Supported

plans at this time.)

(Cannot guarantee Verizon data

2. Pack WiFiRangers (indoor and outdoor units): Click "Cellular" gear icon to access indoor unit modem. Click "WFRControl" gear icon to access outdoor unit modem.

Viewing SIM & IMEI Numbers

If you need the SIM or IMEI numbers for Cellular plan activation or support, then follow the steps below:

Follow steps for "Accessing Cellular Settings." View SIM & IMEI numbers after expanding the modem settings. Converge Routers & Modems Only Support Standard SIM Size.

Be sure that SIM card is Standard size as Nano and Micro sizes will not fit properly within Converge routers or LTE modems. A SIM card size adapter kit may be used to resize the SIM.

Refreshing SIM Number

If you've changed the SIM card in your WiFiRanger modem and need to refresh the SIM number, follow the steps below:

Follow steps for "Accessing Cellular Settings." Click on "Clear SIM Details" then wait 30 seconds. Click on "Reboot Cellular" then wait 60 seconds. Reload the Control Panel and verify the new SIM number appears.

Manually Setting an APN

(This is usually unnecessary on latest firmware since APN is automatically detected.) If you are unable to connect to the internet using the WiFiRanger modem even though your data plan is active, then there may be an issue with the modem's APN. An APN is a password used by the modem for authenticating with your cellular Carrier. To change the APN, follow the steps below:

Follow steps for "Accessing Cellular Settings." Enter correct APN into the APN field: Default APN shown (most common)

- Carrier: Verizon
 - Default APN: vzwinternet
- Carrier: AT&T
 - Default APN: broadband
- Carrier: T-Mobile / Millenicom
 - Default APN: fast.t-mobile.com



Unique APN on your Cellular account (only if applicable). Click "Save Changes."

Source(s): WiFi Ranger Converge Indoor/Outdoor Routers Owners Manual (2020)

Activating the WiFi Ranger Converge LTE Indoor/Outdoor Router

This article provides activation instructions for the WiFi Ranger Converge LTE Indoor/Outdoor Router.

Connect via WiFi to "WiFi Ranger Core" using an electronic device (computer, laptop, tablet, smartphone, etc.) using the Network code located on your router (typically located in an overhead cabinet in the cockpit area or living room). © 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle

Х Micro Standard Nano



Carrier: MILLENICOM

Consumer: 800.996.1285

• Business: 800.996.1285

millenicom.wifiranger.com



NOTE FROM NEWMAR

The electronic device can connect to either a standard or 5G core signal.

When prompted, enter the password listed on the router (this is the factory default setting).

	WFR ID	90 1	
	NETWORK Pvt.W	FiRanger_Core.	
lewmar 1	PASSWORD	changemenow 1	
	CONTROL PANEL	10.1=4.=1.1:8080	

Using the device's web browser (Internet Explorer, Chrome, Safari, etc.), type in the digits listed as "Control Panel" on the router in the address bar.

lewmar 1	WFR ID 90 1 NETWORK Pvt.WiFiRanger_Core. 1 PASSWORD changemenow 1 CONTROL PANEL 10.1 + 1.1:8080	10.1 1:80ed	
3.35	A CONTRACTOR OF THE OWNER	⊕ http://10.11:8080	Web

This will open the WiFi Ranger control panel. Select the [Setup] Tab.

(1) Cone VIFIRANGER (M2) CHILL (M0) CONT				Concern Plantine (12)	WIFT	(⁽] ⁾) Core RANGER			Deck to U Deck to U
100	and the second		Gi	10.00	Main: N	WFI Setup Usage	Status Register		
CONVECTED at Least	ONLINE Using APPC and	- EC25-	ay to Covined all mar = boothal ¹⁴		Co por	Internet Connector	Description	and the second	
17 W/I Belander	The second second	Sec.		Speed by	1	C Ethernet WAN	WAN part for hardwined connection to modern or UAN network	e	x 0
WID-Gast			0405	1 1	2.0	O MIRCastrol StyPes ^[1] View WIRControl Panel	Paired outdoor VXFIRanger for boosted connection to 100Fi Naturalia		2 B
		1.0.4	101		1 0	Colular	USB port for commection to 3G/4G Aincard or MIPI device	Car	4 Q
and and an		+.4			1 0		Bullier 20H; viruleus radio for connection to nearty WPI Networks		4 Q
With Aust			1973			Ethernet WAN 2	Second IDAN part for Europeaned connections to resilien or CAN testingh		0 0
MICO Sand		1.04	1995			WFREesent CPE	Esternal Ultrault radio for boosted connection to WPI Nationha		
which which		1.18	199				Bull in VCPC existing radia for connection to spartic WFI fashendia.		0 0
10 Feat & Official The BOD		8.00	OPEN	1.0		Solutions Mill Check 2020	 Dates sons ensues rade to: connection to reactly 1171 textscoles 		11 W
Balanda; Fartiers Rossman			105		- System 7	tafarare as			
CRONNELLA DIRECT. IT of Official TVD			104		Qrater	10.0.00	0 os # or		
The first state of the second state			100		Qrate		5 Moutes *		
					OMAG		Load Balance +		
Protection of Concernment of Concern		140	104		0.000	out seems			
0.17			-		O Sale 1	hart	0 ox # of		
Part Part			105		O Hide A	Advanced Features	# 0x 0 0f		
test			UPDN .						
SPREATERST ENABLE SLAVE SURF				CONNECT ETHERNET MAN	Save	CHANGES		LogPLE REBOOT	Rese

Locate the "WFRControl SkyProLTE" row, and click the blue gear Settings icon on the far right of same row.

SIM and IMEI numbers needed for activation are displayed in the expanded WFRControl Cellular by accessing the Setup tab and clicking on the Setting icon (blue cog wheel).

Use your cellular data provider's website link or call to activate service to the LTE (i.e. Verizon, AT&T, T-Mobile). Provide the SIM and IMEI numbers when prompted.

NOTE FROM NEWMAR

	(1) CORE			Anner Parler Anne Miller Miller
un W	(Fi Seco Usage	Status Regular		
-	Barray Committee	Description.		C Arter Letter
	Colornal Milk	WWW part for frants-ined Lonnector II. models or LAB network	0	* 0
00		Paired whites WP Ranger to breaked connection to WPI Networks		× 0
Configure Careading 1	EC 910023 over Ethertei			
O Cantral C	Deer	I have # Ethernel		
Q Reset 147		Linguist Annual to Pacitory defaults		
Q Autort V		Rated I/MCorted		
	4 Column			
Q Rubort C	Deliver	Natural California		
C CM		ANA FAMILIA STATE AND TAKEN SAADA AAN WAXAN		
Char 10	M Parale	(Jacobier Statem)		
Concession of the local division of the loca		(Martine)		-
Q cars.		Teaching for Talefilles		
00	9 cutur	USB put he convector to X240 Ancard or MP device		
. 0	Internal INFO WAR JUNE	Bull in 2015 viraless radis for connection to namely 1191 featurets	- E	* 0
	(Itertel MAA J	Decard WHR put to technical connection to molect at LAN values?		1 0
	WHERE CPE	External Uniquity cards for Incomed connection to 1991 Insteading		0.0
	Internal WELWAR SCITE	Bulk in SQND separate rights for connection to handly SDP) featurests		11 9
- Spranne Fre	all second as			
Oratem		I ox # or		
Q / store	r Interval	1 Minutes *		
Q 10,6.70	mits Mitchel	Load Balance *		
0 344 54		0 0x * 0r		

Coach-specific information from WiFi Ranger can be found in the information package (black bag) provided by Newmar. This documentation must not be removed from the vehicle if the coach is sold. These items should remain with the coach for the next owner.

Starlink Satellite Internet System Quick Start (Model: Flat High Performance)

This article provides a quick start guide for a Starlink satellite internet system, which is an option for select 2025 and newer coaches.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

ELECTRONICS

Starlink delivers high-speed Internet almost anywhere on Earth. The Starlink app helps you find the best location for Starlink, check for obstructions, customize settings, receive updates, and access Support. The app has access to important troubleshooting data which helps resolve your issue faster, so we recommend contacting Support through the app.

The Starlink app is here to help you:

- · Identify the install location that will ensure the best quality of service
- Set up your Starlink hardware
- · Check for obstructions that can interfere with service
- Verify your WiFi connection
- Receive alerts for service issues
- View connectivity statistics
- Identify devices connected to your network
- Troubleshoot connectivity issues
- Contact support

Operation Instructions

Download the Starlink app on your phone.

Download for iOS Download for Android

Before installation, use the "Check for Obstructions" tool in the app to identify the best location for uninterrupted service. Setup your Starlink. After connecting, confirm your setup location is obstruction-free by reviewing the data coming from your Starlink.

Source(s): Starlink Wedge Mount Guide_Mobile HP 2022 and https://support.starlink.com/

Coach WiFi Security Alert - Changing Your Newmar Network Password(s) - WiFi Ranger Systems Only

Newmar Corporation has determined that the potential exists for unauthorized persons to gain unauthorized access to certain WiFi-connected components on some Newmar products via factory-installed WiFi routers which utilize factory password settings. The factory password setting is unique to each coach and there are no known instances of any such unauthorized access having ever occurred on any Newmar product. However, if an unauthorized person were to gain access to the factory-installed WiFi system there is a potential on some products for the unauthorized person to gain access to the WiFi-connected systems in the coach including certain televisions, sound equipment, cameras, and some coach management systems.

In order to protect against the potential for such unauthorized access to occur on Newmar products, Newmar Corporation highly recommends that customers owning the subject coaches change the factory password settings on the WiFi router to new passwords that have been chosen by the customer by following the directions provided below. Changing the factory passwords on the WiFi router will eliminate the potential for unauthorized persons to gain access to Newmar products via the factory password settings.

Note that changing the factory passwords to new passwords selected by the customer will cause a loss of pairing or connectivity between existing WiFi devices in the coach and the WiFi router. It will then be necessary to update the passwords on each of the individual WiFi-connected devices in the coach to have the same new password as the router in order to re-establish the pairing and connectivity between each of those WiFi devices and the router.

Please refer to the manufacturer's operation manual for pairing instructions for each WiFi-enabled component.

If the passwords are not updated on the WiFi devices in the coach after the WiFi router password has been changed, the devices will still function on their individual remote controls and on their individual in-coach control panels but those devices will no longer have any internet functionality or remote connectivity functionality until their passwords are updated to match the new WiFi router password.

If a customer is not able to make the recommended password changes to the factory-installed WiFi router immediately, the potential for unauthorized users to gain access to the coach WiFi systems can be easily blocked by simply turning off or unplugging the WiFi router until such time as the passwords can be reset.

Overview

Your Newmar coach's WiFi router has been preset to a unique factory password in order to ensure that all coach WiFi-enabled components were properly tested during the production process.





To better secure this network once you become the owner of the coach, it is highly recommended that you read and perform the following instructions for "Changing the Coach WiFi Router Password."

If your coach is a New Aire, Mountain Aire, London Aire, Supreme Aire, Essex, or King Aire equipped with the SilverLeaf coach management system, it is highly recommended that you read and perform the instructions for "Changing the SilverLeaf LR125 Password" to provide full functionality of the coach management system.

A CAUTION

Failure to change these passwords poses a potential security risk to you and your coach.

Passwords should be at least 12 characters long. The longer the password is, the harder and longer it takes to crack.

- Include upper case letters, lower case letters, and special characters (i.e., #, !, &).
- Never use the exact same password for all your systems.
- Recommend a passphrase that contains a series of unrelated words.
 - Passphrases greatly increase the difficulty of this type of software. To create a passphrase think up a short, silly story: "The buffalo drove the truck to the store." To create a passphrase from this, you simply select words and string them together, and make a few substitutions: BuffaloTruckSt0re! While it may seem silly, it is incredibly easy to remember, so long as you remember the story. Your stories can be anything you want, just make sure it's something easy to visualize and sticks in your head."

Changing the WiFi Router Password

Connect to the Coach Network

These instructions are intended for WiFi Ranger (WFR) GO2 and CONVERGE (Teton/Poplar, Denali/



WPA

WPA OPER

n all WPA

n ani WPA n ani WPA

n all WPA

Spruce, and Everest/Aspen) Products. To change the Guest WiFi password, please refer to the user guide by typing "WiFi Ranger User Guide" (including the quotation marks) in the Newgle search bar.

- 1. Search for the 'Newmar Network' in the coach when scanning for network connections.
 - a. It is identified by "NewmarXXYY." Pick the network that has the identifier that matches the sticker on the indoor router.

WIFI Setup Usage S

Pvt.WIFiRanger, Sky3.8921

BlueMesh Flasher Pvt.WIFIRanger_Sky3.8922

Salmon Sushi

GL-MIFI-Davey Pvt.WIFIRanger_Go2.6877

WFR-20-SC-TEST

ENABLE SAFE SURF

Pvt.Tactical

Pvt.WIFiRanger_Sky3.8874 Pvt.WIFiRanger_GoAC.825

Pvt.WiFiRanger_Mini 246 4Kr3g

- b. Each coach model has an identifier for the password, as seen below.
- 2. Enter the password according to the coach identifier.

Example Coach Info:

- WFR ID #: 778XXX
- Model: King Aire Diesel Bus
- Serial #: 530XXX

Customer WiFi Signal	
Example ID	778XXX
SSID Broadcast	NewmarXXYY
WPA Key (Password)	KGDB530XXX

- After connecting to the coach network, open an internet browser and type in 'MYWIFIRANGER.COM' in the address bar to connect to the WiFi Ranger control panel.
- In the address bar of the internet browser, remove any text following ":8080" and then type in '/admin' after the ':8080'.
 - a. Example: 10.189.90.1:8080/admin
 - b. This will go to a username and password screen for the admin credentials.
- 5. Enter USERNAME: admin
- 6. Enter PASSWORD: wfradmin



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle

- In the WPA KEY setting, change the password to one decided by the customer. After the password is changed click 'SAVE CHANGES'.
- 8. A banner will show up when the changes are being made. When the password is changed, the banner should show.

Main	WIFI	Setup	Usage	Advanced	Status	Register	Admin		
Changes (to this area w	ithout proper of	onfiguration		WARNING r device unus		ould be made	by trained and informed use	ers only.
Management									
O WiFi Broadcar		• On () ()	e.						
O Hide WIFI Bro		On • C							
O Broadcast SS		Newman	10						
O WPA Key		KGDB5	88						
C Encryption Typ	ype	WPA2 AES							
Management	t Network								
Management		• On 🔿 O							
Network IP Sp			1-12-12-20	1004					
Network Subn Network Gate		200,200,200							
O NOWORK Gale	ioway in-								
Administrator	or Login								
Current Admin	in Password	whadmin							
O New Admin Pa	Password	wfradmin							
								-	
🖉 Save Cha	anges							Save to Facto	ory Defaults
and the second second					and streams of	5			WANNESDOW DO
Make Bookmark					VERANGER	T.			Unregister

- 9. Once the settings have been changed, reconnect to the network using the new password.
- 10. Set up is complete!

Changing the WiFi Ranger Control Panel Password

For more security in the WiFi Ranger (WFR), it is suggested to make a change in the Control Panel that will require a USERNAME and PASSWORD when trying to get access to the WFR Control Panel. Complete the following procedure to further enhance the security.

- 1. Enter the control panel by first connecting to the Newmar Network in the coach as explained previously in the "Connect to the Coach Network" section.
- When connected, go to the SETUP tab and make sure the HIDE ADVANCED FEATURES selection is turned off. If it is ON, select OFF, and click SAVE CHANGES.
- 3. From there, click the ADVANCED tab.
- 4. In the last box labeled ADMIN ACCESS, choose "ON."
- 5. Change the USERNAME and PASSWORD to something different. To make this as safe and secure as possible, do not share this password.

94201	WIRI	Setal .	Usage Advanced Status	Region At		Main (WIR	Selip Usage	Advanced Darks	Register Admin	
Order	Internet Con		Deter	spillion .	Enabled	Forward Port To		Starting Port	Ending Port	Protocal	Delete
	Ethernet WAN Insured WAN 20in Insured WAN 20in WPBCarded Exercet Cellular 1 Totoccet Binle 7 Insured Binle 7		With part for functioned connection to enables or UNI release Ball & 2002 paretees radio for connection to reachly MIP formation Parent institute VIP Respect for Section 2 connection to MIP formation Sciences Gaussia (UNI) 4		5 5 6	P Advers Network Settings D Of P Services D DR2 P Advers		Shee Pare	Shariy They mut	τ υ .	• • • • • • • • •
System Proteronces	no opposed (CP) Inspecial (CP) Biblick (Ch) Calculary (Calculary (0 17 Alex 1 0 17 Alex 2					
O Falsee O Vitemust Speed Tests O Mult WAX Ince O Control Famil Reduct O Inite Auto Context		04 04 06 07				ODAS OAS OAS		e An Inde			
Alternyti Auto Login O Syne Data O Syne Data O Sine Adaptical Factores Protections Lat			Description		Lost Profile Deixte	Hardware O Roder Lights O USE Paner Dily		• 01 07 01 07			
WPR Internal Uni - NRV WPR Unit WPR Internal Uni - Etherheit WPR Internal Uni - SWV		Default Default Default Default	Network, WHI On Demand Enable Public Branchast Ethernet WHI Only Optimizet, Exhibit Bankap			Adress Access O Lapit Repaired O Memory O Patternet		On a Of			
Save Charges			- Bartha Parawakan		Closela Chebert C	Reset					

- 6. Click SAVE CHANGES.
- a. The next time you try and enter the Control Panel, you will need this username and password to gain access.
- 7. Passwords to WiFi-enabled devices like televisions, cameras, and sound bars (i.e.: Bose 700 sound bar used on select Mountain Aire, London Aire, Supreme Aire, Essex, and King Aire coaches) will also need to be updated to have the same new password as the router in order to re-establish the pairing and connectivity between each of those WiFi devices and the router. Please refer to the manufacturer's operation manual for pairing instructions for each WiFi-enabled component.
- 8. Setup is complete!

Changing the SilverLeaf LR125 Password

DO NOT change the SilverLeaf password unless you have FIRST changed the password on the WiFi Ranger.

- 1. Start on the SilverLeaf Home screen.
- 2. Press the CONFIG button on the lower right-hand side of the Home screen on older coaches or the settings gear icon in the top right corner on newer coaches.

ELECTRONICS

SAT	APR 16, 2022 70° 5:	09 AM	WED APR 5, 2023	71° 1:51 P	M 🔅
HOME	FRESH BLACK GRAY		OME FRESH	BLACK GRAY	
AC POWER	0% 0% 0%		100%	0%0%	
DC POWER	HOUSE BATTERY 13.4V (BRIDGED)		HOUSE BATTER CHASSIS BATTER		LIGHTS
	CHASSIS BATTERY 13.4V	GEN	ERATOR		TV LIFT DOOR
GENERATOR	LEG1 2A 120V	-	ATER LEG 1 LEG 2	24A 121V 38A 116V	LOCKS VENT FANS
WATER	LEG 2 0A 121V	CONFIG	IMATE		AWNINGS
CLIMATE	BLOCK HEATER FLOOR HEAT	BRIGHT	BLOCK HEATER BATTERIES	COACH MODE	FLOOR HEAT

- 3. Scroll to the last page using the down arrow on the lower right-hand side of the CONFIG/Settings screen.
- 4. Change SETTINGS LOCK CODE using the up or down arrows, setting this number to "42."

SET THE CLOCK		CLIMATE SCREEN CONFIGURATION
INVERTER DIAGNOSTICS		VIEW LOGO
CLIMATE OPTIONS		VIEW CLOCK
GENERATOR SETTINGS		TEST TOUCHSCREEN
AUTOGENSTART SETTINGS		SETTINGS LOCK CODE
BACK	-	BACK

- 5. Scroll up or down using the navigation arrows until you find the TABLET WIFI / ROZIE SETTINGS, and select it.
- 6. Scroll down to the Router Password, and press the CHANGE button.

		WIFI CONNECTION
	WARNINGS CONFIGURATION	IP ADDRESS
	AUTOFILL CONFIGURATION	GATEWAY
1000	TABLET WIFI / ROZIE SETTINGS	SUBNET MASK
	SYSTEM COMPONENT LIST	ROUTER NAME CHANGE
	NETWORK DIAGNOSTICS	ROUTER PASSWORD
	BACK	BACK

- 7. Enter your new password using the keypad, and select ACCEPT once your password is complete.
- 8. Select the BACK button to return from the TABLET WIFI / ROZIE SETTINGS screen to the CONFIG screen.



- 9. Select MONITOR CONFIGURATION from the options.
- Using the down arrow, scroll to the last page of the MONITOR CONFIGURATION screen. Then select the REBOOT button.

ELECTRONICS



After REBOOT is selected, the SilverLeaf monitor will return to the HOME screen, and your new password is saved.

This page is intentionally blank.

ENTERTAINMENT SYSTEMS

This chapter provides information on entertainment components, including televisions, dash-mounted audio equipment, multi-disc players, home theater systems, and satellite antennas. Such components may be located within your coach's living room, bedroom, cargo area, or even outside the coach in an optional exterior entertainment center.

A IMPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

ANTENNAS, CABLE, AND SATELLITE SYSTEMS

Antenna and Cable Overview

This article provides an overview of the antenna and cable system in the coach. Your coach may be equipped with an exterior antenna jack and interior antenna jacks or wiring at each television location.

Antenna Power Booster

An antenna with a power booster may be installed in your coach and is designed for reception of all local color and black-and-white channels. The antenna may be automatic, stationary, or manual lift. The power booster supplies voltage to the antenna when using over-the-air signal. However, it transfers the connection from the antenna to park cable when it is available and connected.

To operate the power booster for the television signal, press the switch on the booster plate to illuminate the green LED light. This will supply power to the antenna and boost the television signal.

When using park cable, the booster must be turned off to allow the signal to bypass the antenna and connect to the television or selector switch through the same coax cable. The green LED light should not be illuminated.

A 12 volt outlet is also provided for 12 volt accessories. Do not use this outlet for a cigarette lighter.

Over-the-Air Signal

If the reception is poor, make sure the power switch for the power booster is in the "ON" position and all of the coax connections are tight. This switch is usually located beside the passenger chair or on the video selector box (select units only).

On coaches with a Rayzar automatic TV antenna, this switch is integrated into the power on/off switch typically located in the overhead control center. After traveling, it may be necessary to auto-program your televisions to pick up local stations.

Cable Connection

An exterior cable jack and receptacle may be available on your coach. If installed, they may be located in an outside storage compartment, usually near the power cord.

When using park cable, it is necessary to turn the antenna booster off in order to allow the signal to travel to the television or selector switch (if equipped). This switch is usually located beside the passenger chair; it can also be the power button on the video selector box (select units only).

On coaches with a Rayzar automatic TV antenna, this switch is integrated into the power on/off switch typically located in the overhead control center.

ON/OFF LED ON/OFF BUTTON (ANTENNA & BOOSTER) SEARCH LED EARCH BUTTON GREEN / RED POSITIONAL LEDS READOUT DISPLAY WINEGARD õ ROTATE BUTTONS FRONT COAXIAL WINEGARD RAYZAR ANTENNA





MPORTANT

Failure to turn off the power booster switch to the antenna while using the park cable system may cause poor picture quality.

Basic Troubleshooting

If you have poor reception, try these simple solutions:

- 1. Make sure the power booster or Rayzar antenna system is turned off.
- 2. Make sure the coax cable from the park cable hookup to the basement of the coach is in good, working condition and does not have a shorted shield wire.
- 3. Each TV will need to be set for cable and auto programmed at each new campsite location.
- 4. Any further troubleshooting and diagnosis should be performed by an authorized service technician.

Winegard Rayzar Automatic Antenna Quick Start (Models: RZ-7500, RZ-7535, RZ-8500, RZ-8535)

This article provides information about the control panel, cable, and antenna mode, as well as the automatic search function of a Winegard Rayzar Automatic Antenna (Models: RZ-7500, RZ-7535, RZ-8500, RZ-8535).

Control Panel

Coaches equipped with a Rayzar Automatic Antenna will also be equipped with a control panel in the overhead cabinet.

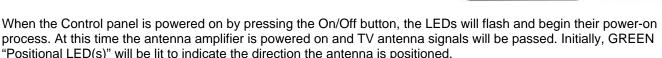
Cable Mode

When the control panel is powered off, park cable signals will be passed to the TV. In this mode, all LEDs are turned off.

MIMPORTANT

Failure to turn off the power booster switch to the antenna while using the park cable system may cause poor picture quality.

Antenna Mode



Automatic Search Function

The system does not move until the Search button is pressed. Channels will be received whenever the system is powered on.

To begin a new search, press the Search button. The antenna will go through its initialization process and begin searching for TV frequencies. A typical search will take 2-3 minutes. A RED LED will quickly cycle through the positional LED position to indicate the antenna is moving and [the] direction it is moving. After the search is complete, the antenna will automatically go to the position which results in the most watchable TV channels. The 2-digit display will show the number of frequencies seen at that position, and both the GREEN and RED LED(s) will be lit to indicate the successful search location.

Additional RED LEDs will also light to show any other channels found at alternate positions. Pressing the Search button again will move the antenna to the next best location. Continuing to press Search again will cycle through other positions that provided additional channels, until returning to the main search location. To clear search results and initiate a new search, press and hold the Search button for 2 seconds. The system will also clear all search results each time it is powered off.

Source(s): Winegard Rayzar Automatic Antenna User Guide

Product(s): This source is associated with more than one product. Refer to Newgle for more information about the product(s) offered for your coach's model year.



Winegard RoadTrip T4 Automatic In-Motion Satellite Quick Start (Model: RTT-20B/RT2000T)

This article provides basic operation instructions for a Winegard RoadTrip T4 Automatic In-Motion Satellite (Model: RTT-20B/RT2000T).

Operating the RoadTrip® T4 Antenna

Turn on receiver and television set. The RoadTrip® T4 antenna must be connected to a receiver plugged into 120VAC.

Verify that you are getting the receiver's menu screens on the television. These screens are available with or without the dish finding the signal.

Ensure receiver is properly configured for your provider.

Turn the power switch on for the antenna. Within 10–15 seconds, the dish will begin moving and should make one or two revolutions during startup. During this process, it is normal to hear a slight grinding sound as the unit checks its rotational limits. This does not harm the unit. The system will pause to acquire GPS.

Once the dish begins its search, it pauses on signals long enough to determine which satellite it has found. The antenna may move off the signal in an effort to verify the signal and should return shortly.

TIP: Because the T4 antenna uses information from the last location where it was on signal, satellite acquisition may take longer if the dish is inactive over long distance traveling.

After the T4 has verified the correct satellite, it will continue to track the signal. The unit will go into "Sleep Mode" if the vehicle is stationary for 6 minutes. This involves a quick verification process where signal may be lost, then return to the signal and be silent. If the vehicle begins moving greater than 10 MPH, the in-motion T4 will resume tracking mode. For smoother operation, use your on-screen guide to locate your channel rather than "channel surfing.

NOTE There are certain areas within the U.S. where the T4 antenna may experience limited or no coverage of the 129° satellite for HD programming. DISH home coverage has the same limitations. Problem areas include Washington, Oregon and California, but limited coverage may extend past these areas. Contact DISH for additional coverage questions (1-888-825-2557).

ALSO when the T4 dome is blocked (example: while going through a tunnel, under a bridge, by a building, etc.) programming will not be available. Once the block is removed, the programming will return.

DIRECTV®

The RoadTrip® T4 antenna switch settings are preset for DIRECTV. If you have a DISH or Bell TV receiver, you *must* change the numbered switches found on the electronics box under the dome.

Receiver Setup: Connect the receiver to a power source, and complete receiver setup. Check out online receiver setup guides for your antenna at <u>www.winegard.com/support</u>.

Receiver Recommendations: The RoadTrip® T4 antenna will operate with most DIRECTV receivers. Winegard does not recommend using receivers with hard drives, as they are not intended for mobile applications. Winegard does not recommend using an HD receiver since HD programming will not be available. SWM only receivers require a SWM-840 kit.

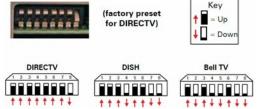
Satellite Coverage: The antenna will locate and toggle between satellites 101° and 119°. The RoadTrip® T4 antenna will not operate in all areas where satellites 101° and 119° are available. The T4 antenna is not compatible with 110° or KA-band satellites 99° and 103°. Satellite coverage maps are based on level, stationary operation. Reception interruption may also occur during adverse weather conditions.

Maintenance

The RoadTrip® T4 antenna is designed to be maintenance free. However, it is a good idea to clean the dome from time to time with a soft cloth, water, and dish soap.

Source(s): Winegard RoadTrip T4 Automatic In-Motion Roof-Mounted Satellite TV Antenna User Guide Product(s): Winegard T4 RoadTrip In-Motion Satellite (<u>Model: RTT-20B, Newmar Part Number: 135606P</u>)





Winegard Trav'ler Pro Automatic Multi-Satellite TV Antenna Quick Start (Models: SK2-100/SK2DISH and SK2-300/SK2SWM3)

This article provides basic operation instructions for a Winegard Trav'ler Pro Automatic Multi-Satellite TV Antenna (Models: SK2-100/SK2DISH and SK2-300/SK2SWM3).

IDU Operation

The already simple Winegard® Trav'ler® operation is even easier and can now be done from your smartphone with the Winegard-Connected app. To take advantage of advanced features and over-the-air updates, please download the Winegard-Connected app from the Google Play or the App Store. Simply plug in the 48 VDC power cable to power on the interface box (IDU) and start enjoying the Winegard Trav'ler Pro.



The IDU will power on as soon as the 48 VDC power cord is plugged into the IDU. This will not raise the antenna.

Upon power up, the IDU will display current hardware and software versions. If connected to an internet source (WiFi configuration requires the Winegard-Connected app), the IDU will check to see if any updates are available to download. NOTE: When downloading a software update, make sure you have a good, reliable internet source and connection.

Once the IDU has loaded and is in the ready state, press and hold the Search button to perform a search. To stow the antenna press and hold the Stow button until the satellite antenna starts the stow process.

The IDU includes advanced features as well as system information within the Settings Menu. To access the Settings Menu press and hold the Power button for five seconds until the Settings Menu options appear. Press Search to scroll up and Stow scroll down. An asterisk icon shows which menu item is currently selected. Press the Power button to confirm your selection. To exit a selected Power Mode, press and hold the Power button for five seconds and select the desired mode.

Smart Phone Operation and Features

To pair your smartphone with the IDU, open the Winegard-Connected app and log in to your account.

NOTE: Account creation is required to proceed. If you need to create an account press "Don't have an account? Create one" under "SIGN IN" and complete the prompted elds. Once submitted, you will receive a confirmation link sent via email. If the email is not in your [email inbox] be sure to check your spam/junk folder. Once the link has been confirmed, you can now sign in to your account.

App Functions

The Main Menu shows all the additional features of the Winegard-Connected app. Available functions include: Power Modes, Search Mode, Stow Mode, Setting up WiFi, Disconnect and Reconnect to IDU, and Settings. For more information about available functions and settings (antenna type, search mode, raise antenna, adjust antenna, WiFi network, EL calibration), refer to the complete operation manual.

Support

Download the product manual through the Winegard-Connected App. The app will prompt you to select a product. Once selected, press "GET MANUAL" to start the download process.

System Information

The System Information option provides specic details about your Trav'ler Pro antenna, including its hardware version, software version, WiFi MAC address, SSID, and Bluetooth® MAC address. To exit, scroll through the information screens until Exit Info is shown, then press and hold "Power". The same information is available in the Winegard-Connected app and can be accessed through the System Info tab in the Trav'ler Pro Main Menu.

Update Software

Software updates require a reliable internet source and connection. Having a weak connection may create issues with the software download. When a software update is available, there will be an exclamation mark within the cloud icon on the IDU display. In the Winegard-Connected app there will also be a red circle with an exclamation mark within the messaging portion of the Trav'ler Pro Main Menu indicating a software update is available.

WARNING

It is highly recommended that the unit is stowed before performing any updates.

NOTE: When first setting up the Winegard Trav'ler Pro, it is recommended to connect to an internet source and check for software updates. For more information about software updates, refer to the complete operation manual.

Miscellaneous

Emergency Power Off

The antenna comes with an emergency power off feature. If you need to stop the Trav'ler Pro antenna at any time during a Search or Stow sequence, press "Search", or "Stow" again (i.e. repeat the same command) to stop the antenna. The antenna will stop in its current position and power will be disconnected from the ODU. Once the antenna has stopped, the ODU will automatically reboot and wait for the next command. If the emergency power off feature is used, the antenna may not be in a safe position for travel. Do not move the vehicle until the unit is stowed.

In addition to the Emergency Power Off, you can also perform an Emergency Reset. To do this you need to press all three buttons (Power, Search, and Stow) at the same time. This will immediately cycle power to the IDU and force a restart. Once the IDU restarts, it will come to the ready state and wait for a request.

Emergency Manual Stow

If unable to stow the Trav'ler Pro antenna, it may be necessary to manually stow the antenna in order to travel. Emergency Manual Stow is meant to be used as a last resort and is not meant for common usage.

- 1. To perform the Emergency Manual Stow, make sure the power to the IDU is disconnected.
- 2. Once disconnected, proceed to the roof and remove the six Phillips screws and housing from the turret.
- 3. Disconnect the motor assembly cable from the motor and three 9/64" Allen screws to remove the motor from the turret.
- 4. To lower the antenna, use a 12mm 6-point socket on the elevation motor's square shaft and turn the shaft clockwise to lower the antenna.
- 5. Once lowered to the stow position, reconnect the motor assembly cable prior reinstalling the motor.
- 6. Once the assembly cable is connected, be sure the motor coupler is aligned with the shaft.
- 7. After aligning the motor, install the three 9/64" Allen screws (Torque 25 in-lbs).
- 8. Verify the seal of the gasket prior to aligning the plastic housing over the screw holes, and seat the housing on the gasket.
- 9. Reinstall the six Phillips screws. Do not use a drill, as you can strip the base.

Before lowering the antenna be sure to antenna will stow towards the back of the vehicle. On the mount base, the transition plate is marked "FRONT" and "BACK." If the antenna is not in a position to stow towards the back of the vehicle, remove the AZ motor assembly cable from the top of the motor and rotate the antenna by hand until the antenna is aligned with "BACK" on the transition plate. Once aligned, reconnected the AZ motor assembly cable and lower the antenna.

Manage Devices

Managing devices can be done from the Device Selection/Add New Device page by pressing the Menu button (3 bars top left) and selecting Manage Devices under My Tools. The Manage Devices screen gives you the ability to register a new device, remove a device, and manage authorized users for devices.

To register a new device, press the green plus sign next to Register New Device at the bottom of the page. To remove a device, press the trash icon.

Add an authorized user by pressing the green plus sign next to the device. Then select "Add New User". At this point, you will be asked to enter the person's name, email address, and select if they are the owner or a guest. Owner access will not expire whereas if you want to give someone temporary access, set the owner field to "false" and set "expires on" to the desired date. The guest access is intended to be set up for anyone needing temporary access such as a dealer or mobile technician. The IDU has the ability to pair five devices to it.

Source(s): Winegard Trav'ler Pro Automatic Multi-Satellite TV Antenna Operation Manual Rev5-21 (Models: SK2DISH, SK2SWM3) Product(s): Winegard Trav'ler Pro Automatic Multi-Satellite TV Antenna (Models: SK2-100/SK2DISH, Newmar Part Number: 161392) Winegard Trav'ler Pro Automatic Multi-Satellite TV Antenna (Models: SK2-300/SK2SWM3, Newmar Part Number: 161393)

Winegard Trav'ler Pro Satellite TV Antenna AutoStow Operation

This article provides important information about the Winegard Trav'ler Pro Satellite TV Antenna AutoStow feature available in select coaches (beginning with the 2024 model year).

NOTE FROM NEWMAR

Be aware! Since the Trav'ler Pro controller is 120-volt-operated, Winegard's AutoStow feature will only operate properly when the control box is powered by 120-volt power. In Newmar coaches, this means the coach must be plugged into shore power, the generator running, or the inverter on and supplying 120 volts to provide the necessary voltage. It is possible that if the antenna is raised while the coach is plugged into shore power, and then unplugged from shore power without the inverter or generator on, the dash antenna up warning indicator may not activate, and the antenna may NOT AutoStow when the coach's park brake is released.

Theory of AutoStow Operation for Newmar Coaches

Terminology and Modes

- Gnd The brake is being pressed and ground is being applied to J7 Pin 4 on rear panel of the IDU.
- Buzzer The internal IDU buzzer.
- Dash Indicator J7 Pin 1 is pulled low, which will illuminate the RV dash indicator.

Normal Mode

- Stowed Position: When Gnd is applied, nothing happens. (No dash indicator, no buzzer, and the unit stays stowed.) If Search or Stow is pressed on the IDU and Gnd is present: The IDU displays "Back-Panel LOCKED", the buzzer turns on and dash indicator turns on for ~2 seconds. Same thing happens when Stow, Search, Install Antenna, or Adjust Antenna is activated from the App.
- Search in Progress: When Gnd is applied, the search stops, buzzer turns on, dash indicator turns on, and the unit stows. Once stow is complete, the buzzer and dash indicator turn off.
- Search Completed: When Gnd is applied, the buzzer turns on, dash indicator turns on, and the unit stows. Once stow is complete, the buzzer and dash indicator turn off.

Service Mode

In Service Mode, the antenna is raised to 70 degrees elevation. When Gnd is applied, the buzzer turns on and the dash indicator turns on until the Gnd is removed. The unit doesn't stow as a safety precaution. If the unit is in Service Mode, there are situations where someone could be on the RV roof working on the unit and someone else turns on the ignition key or taps the brake; in this condition, it wouldn't be safe to move the antenna.

Travel Mode

In Travel Mode, the unit is automatically stowed, so when Gnd is applied, the unit remains stowed with no buzzer or dash indicator.

Low-Power Mode

- Not stowed: When Gnd is applied, the buzzer turns on, dash indicator turns on, and the unit stows. Once stow is complete, the buzzer and dash indicator turn off.
- Stowed: When Gnd is applied, nothing happens. (No dash indicator, no buzzer, and unit stays stowed.)

Additional Conditions

If a Stow is started from the IDU front panel or App, then Gnd is applied, the buzzer turns on and dash indicator turns on. The stow that was already started continues without interruption. When stow is complete, the buzzer and dash indicator turn off.

Not Stowed: If Gnd is applied, the buzzer turns on, dash indicator turns on, and the unit starts to stow. If Stow is pressed on the IDU front panel or App before the stow is complete, the stow is interrupted and re-started. Once the stow is complete, the buzzer and dash indicator turn off.

Source(s): Trav'ler Pro AutoStow Customer Interface Theory of Operation (Provided by Winegard; Version 8/29/2022)

AUDIO SYSTEMS

Bose TV Speaker Quick Start (Model: 838309-1100)

This article provides basic operation instructions for a Bose TV Speaker (Model: 838309-1100).

Remote Control

Power

On the remote, press the Power button to power the speaker on/off. When powered on, the speaker defaults to the last active source.

- When you plug the speaker into an AC (mains) outlet, the speaker automatically powers on.
- The first time the speaker is powered on, the speaker defaults to the TV source.
- If the speaker is connected to the TV using an HDMI cable, the speaker changes to the TV source whenever the TV is powered on.

Auto-Wake

You can set the speaker to power on whenever a sound signal is received from an optical or analog cable. On the remote press and hold the Power button I until you hear a tone and the TV and Bluetooth lights on the speaker blink amber 3 times to switch between auto-wake and default power settings.

Volume

Volume Up: Press +. NOTE: To quickly increase the volume, press and hold +.

Volume Down: Press -. NOTE: To quickly decrease the volume, press and hold -.

Mute/Unmute: Press the Mute button. When audio is muted, the light on the speaker of the current source (TV or Bluetooth) pulses white until audio resumes. TIP: You can also press + to resume audio.

Sources

You can control your TV and Bluetooth connections using your remote. To control a source, press the TV button or Bluetooth button) on the remote for the source you want to control.

Dialogue Mode

Dialogue mode improves the clarity of dialogue and vocals in movies, TV programs, and podcasts by adjusting the audio balance of the system. On the remote, press the Dialogue mode button to switch between Dialogue mode and your default audio settings. When Dialogue mode is enabled, the light for the current source glows green.

Note: When you enable Dialogue mode, it stays enabled for your current source even if you switch to another source or turn off the speaker. To disable Dialogue mode for a source, press the Dialogue mode button again.

Adjust the Bass

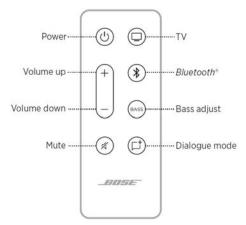
On the remote, press BASS. On the speaker, the TV and Bluetooth lights blink white 3 times. Adjust the bass by doing one of the following:

- Press Volume up (+) to increase the bass.
- Press Volume down (-) to decrease the bass.

The TV and Bluetooth lights on the speaker glow to show the current bass setting. Press BASS. The speaker saves the current bass setting.

Reset the Bass

On the remote, press and hold BASS until the TV and Bluetooth lights on the speaker blink 3 times. The bass settings reset to original factory settings.



ENTERTAINMENT SYSTEMS

Bluetooth

On the remote, press the Bluetooth button. The Bluetooth light slowly pulses blue.

TV light	Bluetooth light	LIGHT ACTIVITY	*	SYSTEM STATE
		Bluetooth light slowly pulses blue	÷∎€	Ready to connect
	*	Bivetooth light blinks white		Connecting
		Bluetooth light glows white		Connected

On your mobile device, enable the Bluetooth feature. TIP: The Bluetooth menu is usually found in the Settings menu.

Select Bose TV Speaker from the device list. Once connected, you hear a tone. The Bluetooth light glows solid white. Bose TV Speaker appears in the mobile device list.

Speaker Status

The LED lights located on the front of speaker show the speaker status. The lights display the current sources highest priority status.

Media Playback and Volume Status

- TV light is solid white: Power on TV
- Bluetooth light is solid white: Connected to a Bluetooth device
- TV light is solid green: Dialogue mode enabled for TV
- Bluetooth light is solid green: Dialogue mode enabled for Bluetooth-connected device
- TV light blinks white: Changing volume for TV
- Bluetooth light blinks white: Changing volume for Bluetooth-connected device
- TV light blinks green: Changing volume in Dialogue mode for TV
- Bluetooth light blinks green: Changing volume in Dialogue mode for Bluetooth-connected device TV
- light slowly pulses white: Mute enabled for TV
- Bluetooth light slowly pulses white: Mute enabled for Bluetooth-connected device
- TV light slowly pulses green: Mute enabled in Dialogue mode for TV
- Bluetooth light slowly pulses green: Mute enabled in Dialogue mode for Bluetooth-connected device
- TV light blinks red: Speaker error disconnect from power then reconnect.

If error persists, contact Bose customer service.

Source(s): Bose TV Speaker Start Guide Product(s): Bose TV Speaker (Model: 838309-1100, Newmar Part Number: 155172)

REMOTES

SofaBaton Universal Smart Remote Control Quick Start (Model: U1)

This article provides basic operation instructions for a SofaBaton Universal Smart Remote Control (Model: U1).

NOTE FROM NEWMAR

Newmar programs the remote during production to control the factory-installed devices. If additional components are installed after-market, it is up to the user to program the remote by following SofaBaton's instructions for "adding a device."

Getting Started

Load battery.

Download "SofaBaton" App.

Connect remote.

Add Device

(Determine if your devices support IR or Bluetooth.)

Via IR Learning Mode: Keep U1 Line-of-Sight with your original remote, select the icon of the function key that needs to be copied. Meanwhile, long press the corresponding function key of the original remote. If the App notifies you it's successful, it means it's completed. If not, please try again. [1st set of graphics]



B

C

ownload on the

Google play

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

SofaBaton

-::

Via IR Matching Mode: Keep U1 Line-of-Sight with your device, click Power first, then choose Yes or No to see if it works. During the process, the U1 remote control will emit infrared signals to the device. And U1 will be able to find the proper code set after searching database. [2nd set of graphics]

Via Bluetooth Mode: If you add a new Bluetooth device, the App would be disconnected from your U1 first. Meanwhile, you can connect your U1 with your phone to complete the remaining steps of adding a new device. [3rd set of graphics]



Upon Adding New Devices, Reassign Remote Keys and Configure Macro Keys. Scroll to the desired device and start using it.

Source(s): SOFABATON-U1KT02 U1 Universal Remote Manual and SOFABATON-U1KT02 Universal Remote User Manual

TELEVISIONS

Television Overview

This article provides an overview of the televisions and related equipment installed in the coach. Your coach may be cable ready, and (depending on your floorplan) may have multiple flat screen televisions installed throughout the unit. The televisions are powered by 120 volt electricity, and the coach must be plugged into shore power, using the inverter (if equipped) or have the generator running in order for the televisions to function. The television operation is similar to most televisions used in the home.

100

 \bigcirc

The LED television(s) in your coach may be HD (High Definition) compatible, meaning they are capable of displaying the resolution and clarity of High Definition broadcasts and video sources.

A IMPORTANT

The television in the front overhead cabinet will not operate while in transit. Federal regulations require this television to be inoperative while the vehicle is in use, so the power supply is switched off automatically when the ignition is turned on.

Exterior Entertainment Center with Samsung Television

This article provides a basic overview of the exterior entertainment center.

For your convenience and pleasure, an Exterior Entertainment Center may be an option on selected floorplans. It may be located in either a basement compartment or in the sidewall of the passenger side of the coach and features a flat screen television

Television

The television is mounted on a swivel bracket that allows you to swing the television out and away from the coach to provide better viewing angles. To release the television from its retainers, grasp the sides of the television firmly and pull it directly toward you. It will release and swing freely to the desired viewing position. To store the television for travel, swing it back into the opening, making sure that it is fully latched.

MPORTANT

It is important to make sure the TV is securely locked into position prior to closing the compartment door. Failure to do so can result in damage to the television case and screen.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

Soundbar Operation in Conjunction with Xite Radio

Depending on the year, model, and floorplan of your coach, this entertainment center may also feature a soundbar that will play whatever source is selected from the television when it is turned on (i.e. park cable, blu-ray player, satellite). While using the exterior television, the radio cannot be played through the soundbar.

The radio may be played through the soundbar via the Xite radio's House Mode feature; however, the exterior television must be turned off. To play media through the soundbar using a separate device such as iPad, smartsphone, etc., press the Bluetooth button on the soundbar and pair it with the desired device. For more information about the Bluetooth functionality, refer to the owner's manual for your specific soundbar, which can be located in Newgle.

MPORTANT

The electronics used in the Exterior Entertainment Center are not designed for use in wet weather. The TV should be stored securely in the "travel" position and the basement door closed during rain or other adverse weather conditions. Caution should also be exercised when washing the exterior of your coach to make sure high pressure water does not enter the compartment. Spraying high pressure water at the seal between the doors can cause leaks, and potentially damage the electronics housed in this compartment.

Accessing Samsung's E-Manual Using Your Television

This article provides instructions on accessing Samsung's e-Manual from your television.

Your instruction manual is an informative document designed to give you all the information needed to operate your TV. With information on how to navigate the TV, tips on care, and information on all its functions, the instruction manual offers comprehensive solutions and answers to many of your TV questions. You can access your user manual directly through your TV.



NOTE FROM NEWMAR

The Samsung e-Manual may contain features not applicable to your television.

Source(s): "How to find instruction manual & user guide for your Samsung TV" (https://www.samsung.com/uk/support/tv-audio-video/how-do-i-find-the-instruction-manual-or-user-manual-for-mv-samsung-tv/)

Samsung Television Care and Maintenance

This article provides basic care and maintenance instructions for a Samsung television.

Clean your Samsung TV

There's nothing worse than straining to watch a show or movie because the screen is smudged or covered in dust. If you don't clean your TV [...] occasionally, dust and fingerprint smudges can build up. Periodically clean your TV [...] so it keeps looking brand new and you can keep seeing the picture clearly.

IMPORTANT

Never use any type of window cleaner, soap, scouring powder, wax, or any cleanser with solvents such as alcohol, benzene, ammonia, or acetone. Never use abrasive pads or paper towels. If you do, you can scratch the screen or strip the anti-glare coating off the screen and cause permanent damage. Never spray water directly onto the TV. Make sure to wipe the TV as gently as possible. TV screens are fragile and can be damaged when pressed too hard.

How to Clean Your Samsung TV

- 1. Turn the TV off and let it cool down for a few minutes before unplugging it.
- 2. To clean the frame and screen, gently wipe it with a microfiber cleaning cloth. Make sure to wipe the TV frame and screen as gently as possible. TV screens are fragile and can be damaged when pressed too hard.
- 3. If you don't see results, spray distilled water onto your microfiber cleaning cloth, and gently wipe the frame and screen.
- 4. Let the TV dry completely before you plug the TV back in.

Source(s): https://www.samsung.com/us/support/ (2023.03.16)

Samsung Television Channel Programming Overview

This article provides the basic channel programming instructions for a Samsung TV.

The following steps will need to be completed each time the coach is moved to a new location.

[...]Your TV has a tuner that can scan for and automatically program local channels that will appear on your channel list. Plus, an antenna will help your TV find even more channels and improve the quality of the signal.

Connect a cable or antenna and scan for channels

Channels and broadcasts just don't magically appear on your TV. You have to connect an antenna or cable and then scan for local stations. Once you do this, available channels nearby will be yours to watch!

First, make sure you have an antenna or a cable box already installed and set up to go. Change the source on your TV to "TV." There are a few ways to do this.

- You can press the Source button on your remote and then select the source labeled TV.
 The Broadcasting menu will be greyed out if you do not first change the source to TV.
- You can press **Home**, navigate to **Menu**, and then select **Connected Devices**. From here you can select which source your TV is connected to.

Once you are on the TV source, use the directional pad or arrow buttons on your remote to select Settings (All Settings).

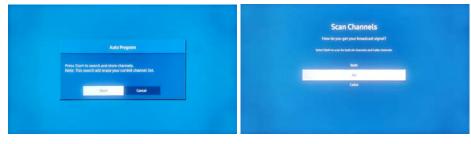


Select Broadcasting, and then select Auto Program.

ES Hour		69		Automotically contact index all channels receive
(1) Seent		•	Auto Program	 through the Talagust sourcester
	Program Rating Lock Settl. 011		Program Rating Lock Settl	
Broadcasting	Audie Optiere	•		
D General		Ø		
(A) Support		۵		
Terms & Privacy		O		

Select Start to begin auto-programming, and then select either Air or Cable.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.



Both

NOTE FROM NEWMAR

From the "Scan Channels" screen, do not select the BOTH option, as you can only receive signal from over-theair OR cable, based on the ON/OFF position of the antenna power booster or Rayzar antenna power switch.

Air

To receive local over-the-air channels:

- 1. Turn the antenna power booster or Rayzar antenna power switch ON. The green LED light should be illuminated.
- 2. Select Air from the TV programming menu if you are using an antenna.

Cable

To use park cable:

- 1. Connect the coach to the park cable connection via coax cable.
- Turn off the antenna power booster or Rayzar antenna power switch to allow the signal to bypass the antenna and connect to the television or selector switch through the same coax cable. The green LED light should not be illuminated.
- 3. Select Cable from the TV programming menu if you are using park cable.

Your TV will begin to scan for channels. After it's done, select Close to finish.

For more information, refer to the Antenna and Cable Overview article in Newgle or the television's built-in e-Manual.

Source(s): Portions of this content are derived from a Samsung support article "Scan for Channels from an Antenna or Cable Box on Your Samsung TV" (on 7/18/2023)

TELEVISION LIFTS

2025 KIB L-Panel LCD Capacitive Touch Panel Guide: Systems

The Systems button on the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) displays the controls for the water pump, heater, generator, Aqua Miser, TV lift, and/or theatre mode. This vertical touch panel is only installed on coaches also equipped with a SilverLeaf touchscreen.

IMPORTANT

The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

Touch the SYSTEMS button. Then select which system you wish to control. Once a button is touched, it will turn red, indicating the selected system is active. The buttons are gray while the system is inactive.

The available buttons will vary by coach model and floorplan, as well as installed options, may include, but are not limited to:



- WATER PUMP
- HEATER (Turns the fan blower on and off)
- TV LIFT UP
- TV LIFT DOWN
- GENERATOR START/STOP
- AQUA MISER LT
- THEATRE MODE (Select coach models and years only)

 This mode turns off all lights in kitchen and living room, lowers all living room and cockpit shades, turns on pre-programmed accent lights (may vary by floorplan), and raises the TV.

IMPORTANT

Lower the television lift completely for travel to prevent damage to the television and surrounding equipment.

Televator control switches and touchscreen buttons should be pressed and immediately released. Do not continue to hold the UP or DOWN switch or button, as this may cause the television lift to enter into programming mode. If programming mode is reached, refer to the re-calibration article in Newgle for more information.

2025 SilverLeaf Touchscreen Guide: Shades and TV Lift

The Shades and TV Lift screen displays the controls for the shades and the televator (if equipped).

IMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Shades Button

Press the Shades button to display the living room, kitchen, and bedroom shade controls.

- Up/Down: Press the Up or Down button to raise or lower the corresponding shade.
- Stop: To stop the shades during operation, press any button relative to the associated shades.

TV Lift Button

Press the TV Lift button to display the television lift (televator) controls. This button will not appear on coaches without a television lift.

- Up/Down: Raise and lower the TV by pressing and releasing the TV LIFT UP or TV LIFT DOWN button.
- Stop: If the lift needs to be stopped in a position other than up or down, press the button again when the lift has reached the desired position.

Theater Mode

Theatre mode is only available on select coach models and years. This mode turns off all lights in the kitchen and living room, lowers all living room and cockpit shades, turns on pre-programmed accent lights (may vary by floorplan), and raises the televator.

Press the Back button to return to the previous screen.



BACK

This page is intentionally blank.

EXTERIOR

This chapter provides information regarding the coach's exterior components, such as awnings, compartments, doors, steps, and the overall exterior construction of the coach. If applicable to the model, this chapter also contains information for components installed in handicap-accessible coaches and toy haulers.

MPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

AIR HORNS

Class A Air Horn Operation

This article provides basic operation instructions for an Air Horn installed on class A coaches. This information is not specific to any coach model or chassis manufacturer.

Overview

Generally, the driver can push the center of the steering wheel (or the designated horn button) to operate the standard electric chassis horn, which is similar to the type of horn installed on most passenger cars and trucks.

In addition, air horns are also standard (or optional) on many coach models and are installed at the factory during the production process. When equipped, the air horns may be mounted on the roof or under the front cap.

Air Horn Switch

If the air horns were factory-installed, there should be a horn selector switch located in the driver cockpit area (the exact location on the dash or driver console may vary). The Air Horn Switch allows the driver to choose between the air horn or the standard city horn.

Normally, the air horn and the electric chassis horn blow at the same time. Some coach models may be wired to blow only the horn that is selected at the time of activation. When the air horn is selected, the air solenoid located under the front hood or in the front driver side compartment is activated when the horn button is pressed on the steering wheel, which subsequently opens the air valve and supplies air to the horn.

The Air Horn Switch may be located in one of various locations based on coach model and year, but will always be within the driver's reach.

- 1. With the Air Horn Switch turned on and adequate air pressure in the air tanks, press the horn icon on the steering wheel to sound the air horn. Some coach models may require the ignition switch to be active for horn operation.
- 2. With the Air Horn Switch turned off, press the horn icon on the steering wheel to sound the standard city horn.

AWNINGS

Awning and Slideout Topper Overview

This article provides a brief operational and maintenance overview of the awnings and slideout toppers.

Slideout Toppers

Slideout toppers operate as the slideouts are extended and retracted. Check the slideout topper for debris (leaves, branches, ice, snow, etc.) before retracting the slideout. If pooling has occurred after rain, one way to remove water on the slideout roof or topper is to tilt the coach using the leveling system to aid in water runoff.





A CAUTION

Slideout toppers should be retracted when snow, heavy rain, wind, and severe weather conditions are expected. Never leave slideout toppers open or unattended during severe weather and/or accumulating rain.

Awnings

Awnings are a standard feature on your coach. Newmar offers a variety of brands and types of awnings, depending on the year and model of your coach, as well as the available options that were selected when your coach was built. Select models may feature entrance door, window awnings, and/or patio awnings. The patio awning is the larger-sized awning on the coach and is the main awning. These awnings connect at or near the roof, providing shade and light rain protection on the passenger side of the coach. Awnings with LED strips may also provide lighting when desired.



The powered patio, window, and door awnings (if equipped) on your coach can be operated with ease using the appropriate switch(es) to extend or retract the awnings as desired. The switch is typically located in the overhead control panel. If they are not at this location, check above the passenger window, as it may be hidden by the window shade. Some coach awnings may also operate via remote control or the SilverLeaf touchscreen (if equipped). For more information about your specific awnings, refer to the manufacturer's information in Newgle.

A IMPORTANT

Before extending any of your coach awnings, check for any obstructions that may prevent the awnings from deploying properly. Inspect the area around your coach where the awning will extend to ensure proper clearance. Check the awning for debris (leaves, branches, ice, snow, etc.) before retracting.

Awnings should be retracted during accumulating rains. Pooling water on the awning can result in damage to the awning hardware and/or fabric.

A CAUTION

Awnings should be retracted when snow, heavy rain, wind, and severe weather conditions are expected. Never leave awnings open or unattended during severe weather and/or accumulating rain.

Damage to your awnings as a result of weather is not covered by warranty.

Girard Awning Operation via Wall Switch and Remote (Model: G and Nova Series)

This article provides basic operation instructions for a Girard Awning via Wall Switch and Remote (Model: G and Nova Series).

NOTE FROM NEWMAR

These brief operation instructions are for quick reference only and should not take the place of the complete Operation Manual provided by this item's manufacturer.

Before using your awning make sure that all of your electrical circuits are operating correctly. Recreational Vehicles can generate AC power from three separate sources. The electrical system transfer switch in your vehicle will select power for the awning as follows:

- 1. Shore Power if connected;
- 2. Generator Power if the generator is running;
- 3. Inverter Power batteries must be charged for inverter operation.



Never leave awning(s) extended without AC power available to retract awning(s) via the motion/wind sensor.

How to Operate the Awnings

A CAUTION

Never leave the awning open and unattended. All awnings must be closed prior to moving the vehicle for any reason. As an extra safety precaution, check to make sure every awning is fully closed. Before using your awning, ensure that the surrounding area is free of obstructions (trees, walls, pillars, posts, other vehicles, etc.). Damage caused by failure to comply with these instructions is not covered by warranty.

MPORTANT

Girard awnings may be operated in light wind and rain conditions. When periods of heavy rain and/or high wind are expected, the awning must be closed. Damage caused by wind and rain is not covered by warranty.

The main patio awnings are operated by a handheld remote switch or a switch mounted in the overhead cabinets or on the wall in the passenger cockpit area. The exact location may vary by coach model and year. Most switches are remote-battery operated. Girard recommends replacing the batteries every year.

Channel + / - Buttons

To operate the awnings, change the channel until the visual indicator displays next to the channel you wish to select:

- Channel "1" selects the front main awning
- · Channel "2" selects the rear main awning
- Channel "0" OR "All" selects all active channels for Girard awnings at the same time.

In/Out/Stop Buttons

Use the "In/Out" or "Stop" buttons to operate the awning after the desired channel(s) are selected.

- Press and release the "Out" button to extend the awning(s).
- Press and release the "In" button to retract the awning(s).
- Press the "Stop" button during extension or retraction to stop the awning(s) in the desired position between full extension and full retraction.

Lock/Unlock Buttons

- Pressing and holding the lock button for 10 seconds will lock the switch panel or the handheld remote control individually. While in lock mode, the display will show the letter "L," and the other buttons will be inoperative. This will prevent accidental operation while locked.
- To unlock, press and hold the the unlock button for 10 seconds.

Note: If the awnings are in the extended position and the remote is locked, the awning will still operate via the motion/wind sensor as long as AC power is present to operate the awning(s).

Light Bulb Button

To turn on or off the awning lights, press the "Light Bulb" button. The button alternates the lights between on and off.

A NOTICE

The awnings will not extend when the park brake is released. However, the main awnings will retract when the park brake is released if they are still being supplied with 120 volt power. All other Girard door and window awnings (if equipped) will lose power and will not operate when the park brake is released.

Source(s): Girard Multi-Channel Wall Switch (98GC782) Overview Product(s): Girard Nova Series Awning (<u>Model: NOVA, Newmar Part Number: NovaAwning</u>)

Source(s): G-2000 Patio Awning G-1500 Door Awning Installation, Operation, Adjustment, and Repair (REV. 01272016) Product(s): Girard G Series Awning (Model: G2000, Newmar Part Number: G2000)

Manually Retracting a Girard Patio Awning

This article provides manual retraction instructions for a Girard patio awning.



This article provides manual retraction instructions for a Girard patio awning. In the event of an emergency, the Girard patio awning can be manually retracted using the Allen wrench provided by Girard (or a standard 7mm Allen wrench).

To retract the awning:

- Gain access to the roof using a ladder. Locate the manual override port (there is one on each awning). Both ports are located next to one another in the middle of the coach.
- 2. Remove the rubber cap to reveal the adjustment slot.
- 3. Insert the 7mm wrench fully, and turn counterclockwise to retract the awning. Another option is to connect the wrench to a battery-powered drill and operate it at a low speed.

WARNING

Use caution if working on top of your vehicle. The wet roof surface is extremely slippery.



2025 KIB L-Panel LCD Capacitive Touch Panel Guide: Awnings

The Awnings button on the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) displays the Awnings page to extend and retract the window awnings or turn awning lights on and off. This vertical touch panel is only installed on coaches also equipped with a SilverLeaf touchscreen.

IMPORTANT

The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

Touch the AWNINGS button, followed by the corresponding awning button to start and stop awning operation or turn awning lights on and off.

Once a button is touched, it will turn red, indicating the circuit is in active operation. The buttons are gray while the circuit is inactive.

The available buttons will vary by coach model and floorplan, as well as installed options.



OPERATING

2025 SilverLeaf Touchscreen Guide: Awnings

The Awnings screen displays the front and rear main awning controls, as well as the entry, and window awning controls.

IMPORTANT

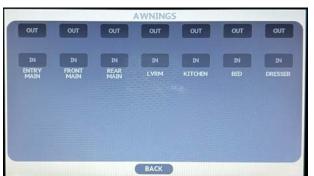
The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Awnings Button

Press the Awnings button on the Home screen to display the front and rear main awning controls, as well as the entry, and window awning controls if equipped.

To extend or retract an awning, press the IN or OUT button for the desired awning. The button must be held down until the desired position is met for each awning.

Press the Back button to return to the previous screen.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

COMPARTMENTS

Compartment Overview

This article provides an overview of the exterior compartments of a coach.

Storage compartments are located on the exterior sides of your unit. These compartments provide additional space for your belongings while you are traveling. Select coach models feature optional manual slide trays and standard lighting, while others may feature compartments complete with power slide trays, dual side access, and automatic LED lighting throughout the storage area.

IMPORTANT

Before traveling, perform a pre-trip inspection that includes checking each baggage door to ensure each one is latched and locked securely.

A CAUTION

Use caution when packing the storage areas. Do not pack items around water heaters, refrigerators, furnaces, hydronic heating units, or any other heat-producing appliances.



Electric Compartment Locks Overview

This article provides an operational overview for locking and unlocking electric compartment door locks.

This information is generic in nature and may not be specific to your exact coach model and/or year.

The Cargo **Lock/Unlock Switch** operates the cargo door locks on all compartments with electric locks from one convenient location. This switch is located on the passenger console.

To unlock the doors, press the switch to the unlock position (shown as an unlocked padlock icon). To lock the doors, press the switch to the locked position (shown as a locked padlock icon).



Hood Release Operation on a Core Diesel Coach

This article provides instructions for opening and closing the front hood on a core diesel coach.

To Open the Front Hood: Pull the t-handle hood release typically located in the front compartment on the driver's side. Pull the hood open, and lift up from the outside. Release the prop rod from the clip, and place it over the striker or insert it into the cavity in the front cap to hold the hood in place.

To Close the Front Hood: Lift the front hood, and remove the prop rod from the striker bolt or from the cavity in the front cap. Place the prop rod in the holder clip. Lower the hood, and release it just before it is closed. Do not allow the hood to slam closed. Make sure the latch is securely fastened before travel.



EXTERIOR

DOORS, HANDLES, AND CHIMES

Doors, Handles, and Chimes Overview

This article provides basic information about the doors, handles, and chimes installed in a Newmar coach. The front entrance door is equipped with a dead bolt lock for added security, and select coach models may have a power flush step well cover.

For your safety and convenience, all current models feature a grab handle at the entrance door to assist you in entering and exiting the coach. Select models may incorporate the keyless entry system, and many have a doorbell button integrated into the grab handle as well.

When the door is opened fully, the door has a "door check" feature that will automatically hold the door open. To close the door, simply pull to release the detent, then close and latch the door. Center entry doors may incorporate a gas strut to hold the door open.

Entry and Screen Door Overview

This article provides an operational overview of the entry and screen door.

Deadbolt Operation

From the inside of the coach, operate the dead bolt by first making sure the door is closed securely in the second stage latch. Rotate the dead bolt lever clockwise. From the outside of the coach, use the key and rotate it counter-clockwise to engage the dead bolt.

Do not extend the deadbolt before closing the door, as damage may occur.

To lock the door without using the deadbolt, press and hold the number one key on the keyless entry touchpad (if equipped). Flip the red lever before shutting the door, or use the key fob (if equipped).

Entry Screen Door Operation

Store the entry screen door's top screen for travel by pulling down in the center and unlatching the two hooks at the bottom. Allow the screen to retract gently while continuing to hold the bottom of the screen. When not traveling, pull the screen down in the center, and latch the screen using the hooks or snap at the bottom.

Entry Door Lock Switch Overview

This article provides an overview about the Entry Door Lock Switch, which may be labeled "ENTR LOCK" or "ENT DOOR."

The entry door lock switch is located on the dash and will lock or unlock the entry door. This switch also allows you to control the cargo locks from inside the coach without arming the security alarm. The entrance door can also be manually unlocked and opened from the inside without the alarm sounding.

- 1. Flip the switch down to lock the doors.
- 2. Flip the switch up to unlock the doors.

Select coaches may be equipped to automatically lock the front entry door when the park brake is released for travel or unlock the front entry door when the park brake is engaged.

2025 SilverLeaf Touchscreen Guide: Door Locks

The Door Locks screen provides access to the entry door and cargo door lock controls, as well as the Lock All and Arm Alarm button.

MPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle





- Entry Door: Press the Entry Door Toggle button to lock or unlock the entry door.
- Cargo Doors: Press the Cargo Doors Toggle button to lock or unlock the baggage doors.
- Lock All and Arm Alarm: Press the Lock All and Arm Alarm button to lock or unlock the entry and baggage doors and enable/disable the alarm (if equipped).

	MON FEB 12, 2024 67°	3:12 PM	*		TUE FEB 20, 2024 68°	9:27 AM	*
HOME AC POWER	Entry Door		LIGHTS	HOME AC POWER	Entry Door Unlocked	Toggle	LIGHTS
DC POWER	Unlocked Cargo Doors	Toggle	SHADES TV LIFT	DC POWER	Cargo Doors	Toggle	SHADES TV LIFT
WATER	Locked	Toggle	DOOR LOCKS VENT	GENERATOR	Lock All and Arr	m Alarm	DOOR LOCKS VENT FANS
CLIMATE			FANS	CLIMATE			FANS
BLOCK HEAT	TER BATTERIES	COACH MODE FLO	OR HEAT	BLOCK HE	CONTRACTOR OF A DESCRIPTION OF A DESCRIP	COACH MODE FLOOP	(hanne

ENTRANCE STEPS

Electric Exterior Entrance Steps Overview

This article provides an operational overview of the electric exterior entrance steps installed on select coach models.

With the Entrance Step switch in the overhead cabinet flipped in the operational position, the entrance step will operate each time the entrance door is opened or closed.

If the door is closed when the Entrance Step switch is flipped opposite of the operational position, the step will extend one time. If the door is open when the Entrance Step switch is flipped opposite of the operational position, the step will stay extended. The step will remain in the extended position unless the ignition signal is activated, which overrides the Entrance Step switch. In this case, the step will extend or retract when the door is opened or closed.



Kwikee Electric Entrance Step Quick Start (Model: 22-40 Series)

This article provides basic operation instructions for a Kwikee Electric Entrance Step (Model: 22-40 Series).

Operation

Close the door. The step should retract and lock in the UP position. Open the door. The step should extend and lock in the DOWN position with the under step light illuminated. The under step light operation is as follows:

- The light is on when the step is extended.
- The light is off when the step is retracted.
- In the event the coach door/screen door is left open, the light will turn off after five minutes.
- The under step light is not available on all step models.

A CAUTION

Step safely supports up to 300 lbs. DO NOT OVERLOAD THE STEP ASSEMBLY.



EXTERIOR

WARNING

RISK OF FALL OR SERIOUS INJURY - This vehicle is equipped with a Lippert automatic electric step. Turning the ignition switch to the "ON" position while the entry door is closed will cause the step to retract. Visually confirm that the step is fully extended prior to exiting the vehicle.

WARNING

If the vehicle is driven with the step in the extended position, there is the possibility of causing major damage to both the step and the coach. Always be sure that the step is fully retracted before traveling. If the step is left extended and strikes an obstruction while the vehicle is moving, major damage to both the step and the vehicle could result.

Lock/Stationary Extended Mode

- If your step is equipped with a step switch, and you would like the step to remain in the extended position while the door is opened and closed, place the step switch in the position for the step to extend when the door is opened and retracted when the door is closed (step assembly follows the door). The step should remain in the extended position with the under step light off when the door is closed.
- 2. With the step switch in the appropriate step lock position, the step extended, and the entrance door closed, turn the vehicle ignition on. The ignition override system will go into effect and the step will automatically retract.
- 3. Turn the vehicle ignition off and open the door. The step will extend and lock in the DOWN position. This is the "Auto Extend" feature. When the vehicle ignition is turned on, the step will always activate with the door movement, regardless of the step switch position.

Maintenance

Step Assembly Lubrication

Clean all mud, salt, and road grime from the step before lubricating. Lubricate all moving parts (bearings, pivot points, slides, clevis pin, and drive linkage ball) every 30 days with a good quality moisture and heat resistant penetrating grease. KwikLube Spray Grease is specially formulated to lubricate Kwikee® Electric Steps and is recommended for lubricating all moving parts. Refer to the complete Kwikee manual for more information.

NOTE: Silicone lubricants and WD-40® are not recommended for use. They have a tendency to evaporate and dry the mating surfaces which leave them vulnerable to the elements.

Source(s): Kwikee by Lippert Components Electric Steps #888 Owner's Manual (2017 and 2021)

HITCHES AND TOWING COMPONENTS

Hitches and Towing Overview

This article provides an overview of the hitch and towing components.

Your motorhome is equipped with a hitch and tow plug, as it is designed for towing light loads. Your hitch may provide you with the capability of towing your car or trailer while traveling. A wiring harness or pigtail is needed to connect the tail lights, brake lights, turn lights, etc. of the towed vehicle with that of the coach. Some coach models feature rear docking lights to assist with tow vehicle hookup at night.

Before Towing

Before towing, inspect all towing connections, including the hitch mounting bolts for unusual wear or corrosion. Check the mounting flanges for any deformation, as well as the hitch welds for any cracks, signs of movement, or fatigue in the hitch assembly. Safe and satisfactory performance of the towing system depends on the type of towing equipment connected to the hitch receiver. The assembled length of the drawbar/towing system used should be kept to a minimum. Do not exceed the rated capacities of the hitch or the components used to attach the towed vehicle or trailer.

MPORTANT

Newmar is not responsible for damage or failure of the hitch receiver caused by the use of excessively long drawbars or other styles of drawbars that create leverage loads on the hitch receiver beyond its designed capabilities.

WARNING | AVERTISSEMENT | ADVERTE

RISK OF FALL OR SERIOUS INJURY

E VENICULE EST EQUIPE D'UN ESCALIER AUTOMATIQUE LIPPERT. DURIREN LE COMMUTATEUR D'ALLUMAGE À LA POSITION - ON - ALORS UE LA PORTE D'ENTRÉE EST FERMÉE ENTRÂNERA LA RÉTRACTION E LESCALIER. VÉRIFER VISUELLEMENT QUE LESCALIER EST OMPLÉTEMENT DÉR-LYE AUNT DE SORTIR DU VÉNICULE.

LIPPERT

WARNING

Do NOT cut, drill, weld, or modify hitch.

Towing Capacity

The total weight of the motorhome and any vehicle towed must not exceed the GCWR (Gross Combined Weight Rating). When planning to tow, approaching the GVWR (Gross Vehicle Weight Rating) may reduce the motorhome's towing capacity. When weighing the motorhome, be sure to take passenger locations into consideration. The towed vehicles must have adequate active brakes. Contact your state Department of Transportation or your local Newmar dealer for your state requirements.

IMPORTANT

The hitch is typically supplied and installed by the chassis manufacturer, and it may be necessary to contact them directly for weight ratings and towing recommendations. Some information may also be available on a data label adhered near the hitch.



MIRRORS

Exterior Mirror Multi-Directional Adjustment and Heat Toggle Switch Operation

This article provides basic operation instructions for an exterior mirror, including the multi-directional adjustment and heat toggle switch.

NOTE FROM NEWMAR

These brief operation instructions are for quick reference only and should not take the place of the complete Operation Manual provided by this item's manufacturer.

Overview

Your coach may be equipped with convex remote-controlled, two-part exterior rear-view mirrors. The top portion of the mirror is flat, providing conventional reflected views down the sides of the RV, while the bottom portion is convex to provide an expanded view, helping to eliminate blind spots.

These mirrors may also contain heating elements to defog, defrost, or de-ice the mirror glass during cold weather operation, which is controlled using the red toggle switch. The switch may or may not be labeled "Defrost."

Operation

Some mirrors can be operated via remote control. These mirrors are adjusted by using the multi-directional switches located on the driver's door (optional on some models) or console, depending on the coach year and model.

Make sure the seat is positioned for proper vehicle control, and then adjust the mirrors for maximum rear visibility prior to driving.

Adjustment Control

The Mirror Control switch operates the electric portion of the mirror and adjusts the mirror up, down, back, and forth.

To select which mirror to adjust, flip the selector to the left or right position. Move the selector to the center position to obtain the best view and make the directional arrows inactive.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

The adjustment control moves the top half of both mirrors. The bottom half of the mirror is convex and is adjusted manually.

Heat

The red toggle switch located near the mirror adjustment control operates the mirror heat (if equipped). The ignition switch must be on for the mirror heat switch to operate.

- 1. To turn the mirror heat on, turn the switch to the "ON" position. The light will illuminate on the switch when the mirror heat is operating.
- 2. To turn the mirror heat off, turn the switch to the "OFF" position. The light on the switch will turn off when the mirror heat is no longer operating.

IMPORTANT

Objects viewed in the convex mirrors are closer than they appear.

OPTIONAL ACCESSORIES

Flagpole Assembly Overview

This provides information about the flagpole option available on some coach models (Option # R045).

Assembly Components

The flagpole assembly (Newmar part # 143894 or 138708) should handle any standard 1-inch flagpole that may mount on the side of a house. If the coach is equipped with the optional flagpole mount (Newmar option # R045, Newmar part # 138682 and 138683), it is typically located on the front of the coach just in front of the entrance door. The flag assembly may be shipped from the factory in a kitchen drawer.



Assembly Installation and Removal

The mount's slot allows the angled flag assembly to easily be installed while displaying a flag and easily removed for travel. To display a flag, simply slide the assembly down into the mounting bracket, then install the flagpole (not provided by Newmar). To remove the flag and assembly, reverse the order of installation. For coach owners who wish to have a flagpole assembly installed on their coach, contact the Newmar Parts Department to order the proper assembly components. Newmar recommends having the mount installed by an Authorized Service Center.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

Flagpole Safety

A CAUTION

The flagpole assembly is not intended to be used in high wind conditions.

WARNING

When installing a flagpole assembly, ensure you have proper clearance away from overhead electrical lines or other obstructions.

A DANGER

Do not leave flagpole assembly in mounting bracket while vehicle is in motion.

PAINT, ROOF, AND SIDING

Roof and Sidewalls Overview and Maintenance

This article provides a basic overview and maintenance of the roof and sidewalls.

Sidewalls

Newmar RV sidewalls are designed with structure to make them more rigid and dependable. By building aluminum frames with studs 16 inches on center, your sidewalls and roof will form a strong, lightweight, integrated structure so you can enjoy superior insulation. The sidewalls and end caps of your coach are constructed of smooth fiberglass, which is features an automotive style "Clear-Coat / Color Coat" painted finish.

Sidewalls Maintenance: Clean any unpainted fiberglass material with a mild cleanser and warm water. Use only soft cloths. Using stiff bristle brushes may cause scratches in the fiberglass surface.

MIMPORTANT

Newmar is not responsible for weathering/oxidation of gel-coated surfaces.

Exterior Paint Maintenance: For cleaning and waxing instructions and recommended products, refer to the Miscellaneous Care and Maintenance section in Newgle. Paint codes are typically posted on the back side of one of the upper kitchen cabinet doors.

Roof

This unit is manufactured with a 7mm decking material covered with fiberglass or rubber membrane. Proper care and routine maintenance of your roof is necessary for trouble-free performance. Frequent inspection (at least annually) of roof drains, seams, and joints should be performed by an Newmar Authorized Service Center.

NOTE FROM NEWMAR

For information about cleaning your roof drains and gutters, refer to the Roof Drains article in Newgle.

Roof Maintenance: Regular cleaning and maintenance is essential to insuring a long, trouble-free life. Before cleaning, it is important that you inspect the sealants and gaskets used to seal components to the roof structure to be certain there is no leakage during the cleaning process. Any cracks or voids in the sealants and seals MUST be repaired prior to spraying the roof with water. Extreme caution should be used when inspecting or cleaning the roof.

WARNING

It is recommended that access, cleaning, and maintenance be conducted by a qualified professional at your local dealership. Use caution if working on top of your vehicle. The wet roof surface is extremely slippery.

If inspection and/or maintenance becomes necessary, stay on the main roof area. Do not walk or stand on the raised portions of the roof or the gutter rail area (if applicable). Do not exceed 300 pounds on the roof.

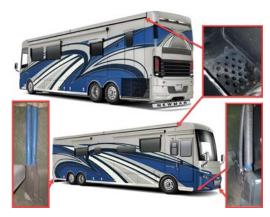
Do not place items on the roof for transportation. The roof was not designed to support the transportation of luggage or other items.

Diesel Pusher Roof Drains and Gutter Maintenance

This article provides cleaning recommendations and instructions for roof drains and gutters on diesel pusher coaches. Not all years and/or models of diesel pushers are equipped with roof drains.

For diesel pusher coaches that are equipped with roof drains, it is important to make sure the roof drain catch basin strainers are cleaned and kept free of debris. There are four (4) of them, and they are located at the front and rear ends of the roof gutters, on both the left and right sides. They may be covered by the roof-mounted awnings.

The drains can be blown out using compressed air (approximately 60 PSI) from the drain pipes found under the front and rear caps. There are typically two drain pipes on the passenger side of the rear cap and one on each side of the front cap. The debris will come out the bottom of the coach if you are blowing it from the top, or the debris will come out the top of the coach if you are blowing it from the bottom.



Exterior Paint Overview

We're passionate about paint. And we believe that the RV we create for you should be as beautiful as it is comfortable. Our coaches are more gorgeous than ever, with a sleek, stunning exterior showcased by all-new graphics and the exquisite Full-Paint Masterpiece[™] Finish. Our goal is to create a perfect finish every time we paint a Newmar. This is how we do it:

- Between 12 and 16 gallons of paint are used on each model.
- Several types of primer are applied, followed by a base coat, color for graphics and a final, clear coat.
- We use materials of only the highest quality and integrity.
- Our technicians are among the most knowledgeable and highly experienced.
- The equipment and techniques we have created are among the most advanced.

We always ensure that each coat of paint lays flat and smooth to produce a stunning brilliance. That's how we can promise that your Newmar RV will offer you an exterior of the highest quality and durability.

For cleaning and waxing instructions and recommended products, refer to the Miscellaneous Care and Maintenance section in Newgle. Paint codes are typically posted on the back side of one of the upper kitchen cabinet doors. For more details about paint codes, refer NewPar, Newmar's online parts catalog. To search by a specific coach:

- 1. Enter the Newmar Coach Serial Number, followed by 'CS' in the "Search Catalog" box. Click "Go."
- 2. Click on the hyperlink with the serial number, year/model/floorplan, VIN, and In Production Date.
- 3. Click on the "Decor Exterior Full Paint" option to view coach-specific paint details.

Diamond Shield Advanced Paint Protection Use and Care Guidelines

This article provides basic care and maintenance guidelines for the Diamond Shield paint protection. Follow the use and care guidelines as outlined by Diamond Shield.

MIMPORTANT

Once applied, refrain from washing for 48 hours, washing after that time presents no problems. Do NOT use harsh or abrasive cleaners or detergents.

Step 1: Wipe Regularly

Wiping bugs and road grime off your vehicle, with a wet soft cloth, as soon as you get a chance is essential to keeping your film looking great. This will also reduce the risk of staining and discoloration from bug acids, runoff stains, and road grime left on for an extended period. When done, apply 303 Aerospace Protectant!

Step 2: Wash Monthly

Washing monthly will give your film the deep clean it deserves and will ensure the film remains crystal clear. We recommend using Advanced RV & Auto Wash and a soft cotton or lambswool mitt to apply. Do not use any abrasive brushes, rags, cloths, or compounds. When you're done, apply 303 Aerospace Protectant!

IMPORTANT

Do not use Rain-Ex products or bug and tar removers.

Step 3: Wax Quarterly

Waxing your film on a quarterly basis, or more, will add that extra layer of protection to your film. Keeping it waxed will prevent damage from bug acids and road grime, and allow the film to effortlessly be wiped clean. We recommend using Advanced RV & Auto Wax, a synthetic polymer cream wax designed specifically for Diamond Shield.

General Care Precautions

Several cleaning techniques and cleaning products should NEVER be used on the areas protected by Diamond Shield on your vehicle.

- Do not pressure wash.
- Do not use Rain-X products.
- Do not use any abrasive brushes, rags, cloths or compounds.

This general care list is not comprehensive. Please call Diamond Shield at 1-888-806-5862 before using any products not specifically listed on <u>Diamond Shield's website</u>. Using unapproved sprays, cloths, or waxes may cause damage to the film, which may not be covered under warranty.

WINDOWS AND WINDSHIELDS

Fresco Manual Window Vent and Screen Operation

This article provides instructions for opening and closing Fresco window vents and screens.

To open the window: Pull on the red (emergency exit only) or black (non-emergency exit) handle to release the window. Slide the window open.

To exit: Once the window is open, pull the screen apart from the window vent.

To close the window: Slide the window to the closed position. Push firmly on the red or black latch to put the window in the closed and flush position.



Fresco Flush Slide Driver Side Power Cockpit Window Operation

This article provides the operation instructions for a Fresco flush slide driver side power cockpit window. The directional switch on the driver side console operates the Fresco power window.

With the ignition on, press and hold the switch in the up or down position to move the window in the desired direction. Continue holding the switch until the desired window position is obtained. Then release the switch.

To open the window: Pressing down on the switch opens the window by pulling the window in and sliding it forward.

To close the window: Pressing up on the switch closes the window by sliding the window back and pushing the window out.



How to Prevent Window Condensation

This article provides a preventative overview of condensation on the inside of the windows and within the coach. Accumulation of condensation on surfaces within your unit occurs when warm, moist air contacts a cool surface. It is most evident on the inside of windows.

IMPORTANT

Since surface condensation within the coach cannot be controlled by the manufacturer, damage caused by condensation is not covered by your Newmar Limited Warranty.

Damage may occur to your unit if excessive condensation exists. This problem can be controlled by:

- 1. Slightly opening a window or roof vent to allow the moisture to escape from the unit.
- 2. A small dehumidifier is also very effective in removing moisture from the air.

Condensation levels are highest during times when a person is cooking or taking a shower in the unit, but these are not the only times condensation is present. Condensation can migrate through ceiling panels and saturate the fiberglass insulation in your ceiling cavity. This condition often causes the occupants to believe the recreational vehicle has a roof leak. Walls and ceiling panels may also become wet when the moisture accumulates on these surfaces.

IMPORTANT

Newmar Corporation does not recommend the use of any catalytic heaters.

Windshield Maintenance and Replacement

Care and Maintenance

Keeping your windshield clean will provide optimum visibility to view the road ahead. Should you encounter rock chips or cracks, have them fixed by an automotive glass professional immediately to avoid costly windshield replacement. If the crack spreads, replacement may be necessary.

A CAUTION

Do not operate the windshield wipers with damaged blades, as they may cause damage to the glass. Damage to glass by rocks, damaged wipers, or other foreign objects are not warrantable repairs.

Check the windshield washer fluid level prior to each trip, and top off the fluid reservoir as needed.

Windshield Replacement

When replacing a windshield, Newmar highly recommends purchasing the new windshield through the Newmar Parts department to ensure proper windshield fit. Customers and dealers have experienced many size and installation issues when attempting to use aftermarket windshields. If your windshield needs replaced, make sure that your dealer or glass replacement company purchases the replacement windshield directly from Newmar.

WIPER SYSTEMS

Wiper System Care and Maintenance

This article provides basic care and maintenance about the coach's wiper system, as well as information about wiper blade replacement.

Maintaining the Wiper Blades

Proper care and maintenance of your wiper blades is critical to maintaining good visibility and safe operation of the coach. Clean the rubber element every time you fill your gas tank, and remove loose dirt and road grime from the windshield. When washing your coach, use a small amount of non-abrasive glass cleaner on a wet sponge to clean both the windshield and the rubber wiping elements. In colder climates, use an ice scraper to remove snow and ice. Using your wipers to de-ice your windshield can damage the blades, as well as the arm and wiper motor.

Streaking, chattering, and worn blades may be caused by dry rubber that has hardened and cracked. Streaking can also be caused by oil, tree sap, road tar, or other foreign substances on the blade rubber or windshield. Chattering sounds as the blade passes across the windshield are caused by the "deformity" or "curve" in the rubber that some wiper blades develop over time.

Worn, damaged, or split rubber around the wiping edge is generally caused by age and use, but may be due to the effects of the sun's ultraviolet rays on the rubber. Damage may also be caused by ice scrapers, automatic car washes, or vandalism. Damage to glass by rocks, damaged wipers, or other foreign objects is not warrantable repairs.

Replacing the Wiper Blades

WARNING

Replace your windshield wiper blades when they become worn or damaged. Worn or damaged wiper blades may cause damage to the windshield, as well as interfere with the driver's ability, possibly resulting in a crash leading to injury or death.

To inquire about replacement wiper blades or other components, refer to the NewPar (formerly ComNet) <u>parts catalog</u> or contact the parts department at **1-800-731-8300 (select the appropriate menu option)**. This will help ensure the proper wiper fit.

This page is intentionally blank.

HVAC

This chapter provides operational instructions for components related to dash and roof air conditioning, fans and ventilation, heating systems, and climate control.

IMPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

WARNING

Newmar has installed heat sources designed to adequately heat the coach under normal circumstances and temperatures. Newmar does NOT recommend the use of other space heating devices. The use of space heaters or other similar devices may increase the risk of fire and may result in tripped breakers within the coach's electrical system and/or the electrical supply to the coach.

AIR CONDITIONING AND HEAT, DASH

Bergstrom Single Zone Dash Air Conditioning and Heat Operation

This article provides basic operation instructions for a Bergstrom Single Zone Dash Air Conditioning and Heating system.

Control Panel Operation

Blower Speed Control: One of the best ways of controlling temperature is by changing the speed of the blower. The blower switch controls the system on/off and provides several different speeds in any mode.

Temperature Control: The temperature control dial controls only

the heat content of the discharge air. The temperature control dial will also control the overall temperature of the discharge air if the AC system is operating. Turn the knob to the right (red area) for warmer air, and to the left (blue area) for cooler air. Use of the temperature control will also moderate the discharge temperature when the cooling system is engaged.

A/C Clutch Button: Illuminates when compressor clutch is engaged. This means the compressor is on and discharging refrigerant.

Recirculation Button: Your driver/passenger heater and air conditioning system is designed to operate in fresh air mode by default. The recirculating air feature is primarily used for faster passenger area cool downs during the summer and warmups during the winter by closing off the fresh air source and recirculating the passenger compartment air. Pressing this switch will place your system in the recirculated air mode. NOTE: Prolonged use of this feature can cause stale air quality and moisture to form on the windows.

Air Distribution Control: To achieve the maximum comfort in your vehicle, the air must be directed where it is needed. The mode switch (right of center) gives the user the ability to select where the air will flow.

- Panel Mode Air is drawn into the system and discharged through the dash louvers only.
- Bi-level Air is drawn into the system and discharged through the dash louvers and floor outlets.
- Floor Air is drawn into the system and discharged through the floor outlets.
- Mix Air is drawn into the system and discharged through the floor outlets and defrost outlets.
- Defrost Air is drawn into the system and discharged through the defrost and demist outlets.

Operating Features

The A/C system is designed to operate in all air distribution modes. This provides significant moisture, dust, and pollen removal for enhanced passenger comfort.



The Bergstrom vehicle A/C system will not function if the outside temperature is below approximately 40 degrees F. For cool air circulation during low temperatures, it is suggested the operator utilize fresh air mode.

Important Operating Features and Tips

Window Fogging: In mild, but rainy or humid weather, windows may fog on the inside. To clear the fog of all driver area windows, turn on the air conditioning, set the system air intake to FRESH AIR by disengaging the RECIRC button, adjust the temperature and fan control to maintain comfort, position the mode control to DEFROST.

NOTE FROM NEWMAR

It may also be helpful to use the dash overhead fan to assist with window fogging and defrosting.

Winter Operation: Remove snow and ice from windshields and system air intakes if applicable. The discharge air will heat up faster if the blower is operated on lower speeds until the engine is hot and the recirculation switch is engaged. For windshield de-icing, use defrost mode. Ensure the air intake is free of ice and slush.

Summer Operation: Air-conditioned vehicles must be protected with a high-quality antifreeze coolant during summer to provide corrosion protection and to raise the boiling point of the coolant for protection against overheating. A 50% concentration is recommended. Use recirculated air control for a quick cool down. Close all windows and vents to hot humid outside air. Close all curtains which do not obstruct the driver's vision.

Care and Service

- Keep the condenser and radiator free of bugs and debris.
- During periods of little use, operate the A/C system monthly to keep the compressor seals lubricated.
- Periodically inspect the belts and hoses for wear and proper tension.
- Periodically check the proper coolant levels.

WARNING

The A/C system contains refrigerant 134a under high pressure and should be serviced by qualified personnel only. Repairs that alter the design of the Bergstrom system including the use of non-Bergstrom supplied parts will void the warranty and any Bergstrom liability for the system.

Source(s): Bergstrom Single Zone A/C heater Owner's Manual Operating Instructions

AIR CONDITIONING AND HEAT, ROOF

Roof Air Conditioning and Heat Overview

This article provides a brief overview of the roof air conditioning and heat pump, as well as filter maintenance. Keep your coach comfortable year-round!

Your coach's air conditioners can be operated using the Comfort Control thermostat, KIB V-Bus LCD touchscreen, or the appropriate SilverLeaf screen. For more detailed information about climate control, refer to the appropriate product page(s) and associated content in Newgle.

Some roof top air conditioners can work as a heat pump when desired to produce heat instead of cooling. These models are effective at producing heat at ambient temperatures (above approximately 40 degrees). If the temperature drops below the threshold, most controls will revert to the furnace or hydronic heating system to produce the necessary heat.

Most air conditioning systems have a two-minute built-in time delay, so there may be a slight delay in the operation of the air conditioner after the thermostat is set.

Filter Maintenance

On some coach models, grills with filters may be located behind decorative covers on the ceiling.

1. Remove the vent cover grill from the return air duct or the grill from the air conditioner ceiling assembly. 2.Remove the filter.



- 3. Wash, rinse, and dry the filter. If the filter does not come clean, or is damaged, replace it with a new filter. Do not substitute other types of filters, as this may restrict air flow and cause other issues. Do not operate the air conditioners without filters.
- 4. Reinstall the filter on the cover, and place it back into the vent.
- 5. Repeat the process for each return air vent.

For more information about accessing filters underneath decorative covers, refer to other Newgle articles (How to Access and Clean Air Conditioner Filters with... louvered wood covers, friction, mechanical, or magnetic latch covers, etc.).

FANS AND VENTILATION

Urea-formaldehyde Safety Guidelines

This article provides information about proper ventilation to prevent issues such as condensation and the release of urea-formaldehyde from coach products. Depending on your vent setup, they may be controlled by a switch directly on the vent assembly or the switches located on the wall. Dash fans may also be installed on or in the front overhead cabinet and aid in windshield defrosting and air circulation in the cockpit area of the coach.

Urea-formaldehyde is used in the production of particle board, hardwood plywood, and most paneling. Ureaformaldehyde resin may release formaldehyde vapors into the air, which may cause headaches, and in some people, eve, nose and throat irritation. Formaldehyde may intensify some allergies or upper respiratory problems like asthma.

Providing proper ventilation as needed by operating the power roof vents and opening windows should reduce the risk of such problems.

This vehicle is TSCA TITLE VI COMPLIANT and contains composite wood products that comply with the applicable California Code of Regulations Section 93120.2(a) Phase 2 (P2) formaldehyde emission standards specified on the above date of manufacture. NI-151

This vehicle is TSCA TITLE VI COMPLIANT (conforme au titre VI de la TSCA) and contains composite wood products that comply with the applicable California Code of Regulations Section 93120.2(a) Phase 2 (P2) formaldehyde emission standards specified on the above date of manufacture.

NI-151

This vehicle is designed as a Recreational Vehicle.

When used for an extended period of time, while furnace heating is required, sweating and condensation conditions may occur.

The following precautions should be taken to minimize these conditions:

- (1) Use range hood when cooking.
- (2) Use the bathroom power vent when bathing or showering.
- (3) Open windows slightly for ventilation whenever possible.
- (4) Use dehumidifier to keep humidity as low as possible.

IMPORTANT NOTICE

Certain of our forest product suppliers have advised that urea-formaldehyde is used in the production particle board, hardwood plywood or paneling which they supply us and which we utilize in our finish dout. These suppliers have requested that we communicate this to our customers. of particle board, hardw For your information, we are reproducing samples of statements which have been provided to us by

OUT SUPJOINTS. WARNING: THIS PRODUCT CONTAINS A UREA-FORMALDEHYDE RESIN AND MAY RELEASE FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS. FORMALDEHYDE CAN BE IRRITATING TO THE EVES AND UPPER RESPIRATORY SYSTEM OF ESPECIALLY SUSCEPTIBLE PERSONS SUCH AS THOSE WITH ALLERGIES OR RESPIRATORY ALLMENTS. PROPER VENTLATION SHOULD REDUCE THE RISK OF SUCH PROBLEME. IF SYMPTOMS DEVELOP, CONSULT YOUR PHYSICIAN. Adorn Inc

TANT: THIS PRODUCT CONTAINS A UREA-FORMALDEHYDE RESIN AND MAY RELEASE TRAINING INFLATI, THIS FOOD CONTINUE OF TRAINING TO THE POINT OF THE P

G: THIS PRODUCT CONTAINS & UREA-FORMALDEHYDE RESIN AND MAY RELEASE WARNING: THIS FROUDE LOUTIANIS A URCH-YOMINALDERIDE RESIN AND MAR RELEASE FORMALDERIVE VAPORS IN LOW CONCENTRATIONS, FORMALDERIVE VAPOR MAY, IN SOME PEOPLE, CAUSE HEADACHES, EYE, NOSE, AND THROAT IRRITATION AND AGGRAVATION OF ALLERGIES AND RESPIRATORY PROBLEMS, SUCH AS ASTHMA. PROPER VENTILATION SHOULD REDUCE THE RISK OF SUCH PROBLEMS. Robert Weed Phywood Corp Robert Weed Plywood Corp

Ventilation is important in maintaining a comfortable environment and we direct your attention to the cussion of ventilation contained in your Owner's Manual.

Dash Overhead Fan Operation (Diesel Coaches)

This article provides an operational overview of the dash overhead fans for a diesel coach.

With the ignition key on, the O.H. Fans dash switch turns the overhead fan(s) on or off. The switch next to it labeled "High / Med / Low" allows the user to select the desired fan speed.

The fan's purpose is to help circulate air around the windshield to minimize fog or ice buildup.



NI-13

2025 SilverLeaf Touchscreen Guide: Vent Fans

The Vent Fans button opens the All Fans page, allowing the user to select and control the desired fan(s): Kitchen, Stool Room, and Master Bath (if equipped).

IMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Press the desired fan: kitchen, stool room, or master bath.

Press the ON/OFF to turn the fan on and off. Once turned on, select the fan speed: HIGH/MED/LOW.

Press the Rain Sensor Override button to disable the rain sensor. When enabled, if it detects enough moisture, the fan will automatically close and shut off.



2025 KIB L-Panel LCD Capacitive Touch Panel Guide: Fans

The Fans button on the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) displays the Fans page to turn the fans and rain sensor override on or off and control the fan speed. This vertical touch panel is only installed on coaches also equipped with a SilverLeaf touchscreen.

IMPORTANT

The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

Touch the FANS button. Then select which fan you wish to operate. Once a button is touched, it will turn red, indicating the selected fan location. The buttons are gray while the circuit is inactive. The available buttons will vary by coach model and floorplan, as well as installed options, may include, but are not limited to:

- KITCHEN
- MASTER BATH
- STOOL ROOM

The fan operation screen provides buttons for On/Off, Rain Sensor Override, as well as the



fan speed (High, Medium, or Low). A red button indicates the fan is currently in operation, which fan speed is selected, or the automatic rain sensing technology is disabled.

HYDRONIC HEATING

Oasis Hydronic Heating System Overview

This article provides basic operating instructions for the Oasis Hydronic Heating system.

For your comfort, your coach may be equipped with the Oasis heating system. This system uses a boiler and a pump to heat and recirculate hot fluid through a series of convectors placed strategically throughout your coach. Fans located on the convectors provide circulation of the warmed air for even, efficient heating.

How Hydronic Heating Works

Hydronic central heating is the use of a heat generator commonly called a boiler (or furnace) to raise the temperature of a heating medium, generally water or water and glycol mixture. The heated fluid is then circulated from the boiler through pipes to heat emitters such as passive radiators, convectors, and under-floor heating coils, through the interior of the motorhome, and domestic hot water heat exchanger. The fluid loses its heat through this circulation and the cooler fluid then returns to the boiler for reheating.

WARNING

Never attempt to modify this furnace. Fire, explosion, asphyxiation, or carbon monoxide poisoning may occur. If the furnace malfunctions, consult a trained service technician.

The Oasis system uses two different sources for heat. The primary heat source for the Oasis system, and most efficient, is the diesel burner, which uses diesel fuel from the fuel tank to burn and create heat. The output of the diesel burner is 50,000 BTU's. Select double shower floorplans may be equipped with the 85,000 BTU model.

The second heat source is an electric heating element. It is important to note the difference between the two systems. The electric heating elements have two 5,000 BTU heating elements and should be used only to help maintain the temperature once the diesel burner has brought the system up to proper operating heat levels. From a cold start, the 5,000 watt electrical heating elements will not operate the system alone.

Operation

Pressing the Elec 1 (AC 1 Element) and/or Elec 2 (AC 2 Element) ON/OFF button from the appropriate control panel (Oasis control panel, KIB touch panel, or SilverLeaf touchscreen display) will turn them on or off. Pressing the Burner ON/OFF button will turn the diesel burner on or off. For the most heat and hot water capability, Newmar recommends turning on both electric elements and the diesel burner.

For more information relating to Oasis hydronic heating operation, please refer to the appropriate product pages and/or knowledge articles in Newgle. Systems may include (but are not limited to) the Oasis Control Panel, Dometic thermostats, KIB touch panels, and/or SilverLeaf touchscreens.

Note: On coaches without SilverLeaf, the Oasis controls are only available via the KIB touch panel on 2024 and newer coaches. Previous model years may be equipped with an Oasis switch in an overhead cabinet.

Oasis Zones

For heating, your coach is divided into three "zones" on your thermostat or your climate screen, if your coach is equipped with the SilverLeaf or KIB system. The "Furnace" mode will appear in all four zones, but only three are active.

Zone 1 - Dash, Living Room, and Kitchen Convectors: These convectors are located under the dash and kitchen cabinets, and control heat in the cockpit, living room, and kitchen areas. The dash-mounted convector is the only one in your coach that has a two-speed fan. The switch controlling the fan speed is located in the front overhead cabinet adjacent to the diesel boiler switch.

Zone 2 - Middle AC and Heat Pump

Zone 3 - Bathroom Convectors: These convectors are located in the bathroom cabinetry and stool room. The fan switch for the stool room (marked "HEAT") must be in the "ON" position to provide heat in the stool room. In order to receive heat in the Stool Room, a "rear" zone (bathroom or bedroom areas) must be chosen on your thermostat or your climate screen, if your coach is equipped with the SilverLeaf or KIB system.

Zone 4 - Bedroom Convectors: These convectors are located throughout the cabinetry and walls of the rear bedroom area. To activate the Oasis heating system, select your heat source, either diesel or electric, using the switches in the front overhead cabinet or through the SilverLeaf or KIB system. Once you have selected a heat source (diesel or electric), and the boiler is operational, set the thermostat for the desired zones.

IMPORTANT

The Oasis 'diesel burner' heat source provides approximately 50,000 BTU's of heat, and is designed to start and operate the system at full capacity. The electrical heating element provides approximately 5,000 BTU's of heat.

The system will turn convector fans off and on according to the temperature settings.

Basement Heat Convector(s)

Coaches with Oasis Hydronic Heating will have a heat exchanger, dual fans, and a designated thermostat. The basement heat is activated by a separate fixed thermostat in the basement area when the compartment temperature falls below approximately 40 degrees Fahrenheit. If this happens, the hot antifreeze solution in the Oasis system will circulate, and the blower will turn on to supply heat in the basement/water compartment area. The Oasis system must be turned on and the fluid must be above the low temperature cutout for heat output.





Set the thermostat zones on "Furnace" mode, and adjust each interior zone temperature setting as desired. The separate Oasis System must be turned on via the Oasis control panel, SilverLeaf touchscreen, or KIB touch panel (2024 and newer coaches), and the water temperature in the Oasis System must be up to temperature for the basement heat to work.

Note: The basement heat only works when the furnace (Oasis System) is activated. It will NOT function if the Oasis System is off and the coach is being heated via the roof air conditioner heat pumps.

Domestic Hot Water

For information regarding domestic hot water via Oasis hydronic heating, refer to Newgle.

Resetting the Oasis System



In the event of a fault in the Oasis system, the system will need to be reset.

To reset the Oasis system, press the exterior reset button on the face of the Oasis, or turn the burner switch off, then back on inside the coach. The reset will clear faults such as Low Voltage, Flame Out, or a Low Fluid Level switch fault, which typically clears on its own when the fluid level becomes sufficient. The Oasis will try to start twice when there is a Flame Out fault. When it fails to start the second time, it will then display a fault on the face of the Oasis and on the System Diagnostics screen within the SilverLeaf system (if equipped).

IMPORTANT

The exterior reset or the cycling of the ON/OFF button inside the coach will not reset the system if there is a component fault, like a pump or other internal issues.

A CAUTION

Any faults not resettable by cycling the switch or by the Oasis reset button should be diagnosed and repaired by a qualified technician.

Source: Oasis FAQ

Oasis Hydronic Heating System Quick Start (Model: Chinook)

This article provides an operational overview of an Oasis Hydronic Heating System (Model: Chinook).

Overview

The Oasis® Chinook Heating System uses a 50,000 BTU (true output) diesel burner (12 VDC) controlled by a multi-functional electronic controller as the primary source of heating coolant fluid (anti-freeze and water). Two 1500 Watt, 120 VAC immersion elements are used as secondary heat sources to provide an additional 10,000 BTU of heat.

The Oasis® Chinook Heating System heats the coolant fluid to provide a source of heat for all hydronic space heating needs. Through the use of its integral distribution pumps, the Oasis® Chinook Heating System has the ability to circulate the coolant fluid to all space heating areas. It can also provide a supply of potable hot water using the integral heat exchanger. The Oasis® also incorporates engine heat and preheat (optional) functions.

Operating Instructions

Turning the Power to the Oasis Chinook Heating System ON

The Oasis® Chinook Heating System's main Control Panel, located on the front of the heater, contains three push buttons: ON/OFF power, Bypass, and Reset. The power switch must be pushed ON (power LED will turn ON) to turn the DC electrical power to the main control board ON and is required to be left ON whenever heat is required.

The Zone Control board will be powered whenever the master disconnect switch is ON. The master disconnect switch must be left ON whenever heat is required.

When the Oasis® Chinook Heating System is shut down for any extended period or the season, it is recommended that the power switch and the battery master disconnect switch be turned OFF.

Do not operate the Oasis® Chinook Heating System until a suitable water/anti-freeze solution is in the heater and all trapped air has been bled or removed.

A DANGER

Use only a non-toxic propylene glycol based coolant with additives generally recognized as safe "GRAS" by the FDA in the Oasis® Chinook Heating System.

Activating the Burner (Primary Heat Source)

The burner switch on the Remote Operating Panel controls the ON/OFF of the diesel burner (primary heat source). When the burner switch is turned ON, the diesel portion of the Oasis® Chinook will turn ON after ten seconds. The Burner LED will turn ON when the diesel burner has been activated. The burner will continue to operate until the coolant in the Oasis® Chinook reaches cycling temperature. At this point, the diesel burner will turn OFF.

If the Oasis® Chinook Heating System coolant should cool down below this temperature range, the burner will again commence firing and will continue until either the burner switch on the remote panel is turned OFF or cycling temperature is again achieved. If the burner switch on the remote panel is turned OFF, or cycling temperature is achieved, the burner stops and the Oasis® Chinook enters a two minute cool down stage prior to completely shutting down.

Activating the AC Heat (Supplemental)

Place the AC power switch on the Remote Operating Panel to either the one element or two element position. The AC Heat (green) LED will turn ON indicating the AC element(s) are energized and the coolant is being electrically heated. The elements will continue to operate until the coolant in the Oasis® Chinook reaches cycling temperature. At this point, the elements and the AC heat LED will turn OFF.

If the Oasis® Chinook Heating System coolant should cool down below this temperature range, the AC element(s) will again be energized and will continue until either the AC switch on the remote panel is placed in the OFF position or cycling temperature is again achieved. If the AC element switch on the remote panel is turned OFF, or cycling temperature is achieved, the AC elements are de-energized and the AC Heat (green) LED turns OFF.

Activating the Burner and AC Immersion Element(s) Jointly

Turn the burner switch ON and place the AC power switch on the Remote Operating Panel to either the one element or two element position. The Burner and AC Heat (green) LED's will turn ON indicating the diesel burner and AC element(s) have been selected.

Functions of the Oasis Chinook Control Panel

The Oasis® Chinook Control Panel contains three push buttons: Power ON/OFF. Bypass. and Reset. In addition, it contains nine LED's indicating Power, AC Heat, Compressor, Fuel Pump, Combustion Fan, Igniter, Flame Out, Voltage Fault and Low Water.

Power Button: The power button turns ON/OFF the power to the control board. The Power LED (green) turns ON when the power to the control board is ON.

Bypass Button: The bypass button is for authorized service personnel only.

Reset Button: The reset button when pressed resets the control board.

Power LED (Green): The power LED (green) turns ON when the power to the control board is ON. The LED flashes when the Oasis® Chinook is in Bypass mode (authorized service personnel only).

AC Heat LED (Green): The AC Heat LED (Green) turns ON when 120VAC is connected to the unit and the system has not yet reached the set point operating temperature.

Compressor, Fuel Pump, Combustion Fan, Igniter (Green): The compressor, fuel pump, combustion fan, and igniter LED's (Green) turn ON when the component is ON, and will flash if the component is electrically open or shorted.

Flame Out (Red): The Flame Out LED (Red) turns ON when a flame fault has been detected.

Voltage Fault (Red): The voltage fault LED (Red) turns ON when a voltage fault has been detected.

Low Water (Red): The Low Water LED (red) turns ON when a low coolant level in the Oasis® Chinook has been detected.

Functions of the Zone Control Board

The Zone Control Board contains seven green LED's for Power, Zone 1, 2, 3, 4 and 5 Thermostats, and Potable Water. It also contains nine matched pairings of red/green LED's for Zone 1, 2, 3, 4 and 5 Fans, Summer Loop, Heat Loop 1, Heat Loop 2, and Engine Pre-heat Pump.

For the Zone Control Board to respond to a call for heat, the coolant temperature inside the Oasis® Chinook must be above 120F.

The Oasis® Chinook has a single space heating loop. The "series" jumper on the zone board (below the bypass jumper, to the left of the largest relay on the board) must be put in place. If the "series" jumper is not put in place, then the thermostats calling for

heat in zones 3, 4, and 5 will not activate the Heat Loop 1 pump, which is the only space heating pump in this system. This will result in cold air blowing from the fans when only zones 3, 4, or 5 are calling for heat.

When the "series" jumper is not in place, the zone control board uses Heating Loop 1 to supply coolant to Zones 1 and 2, and uses Heating Loop 2 to supply coolant to Zones 3, 4, and 5. Zones 1 and 2 are calling for heat, the zone control board will activate the Heat Loop 1 pump. When Zones 3, 4, and 5 are calling for heat, the zone control board will activate the Heat Loop 2 pump.

When the Engine Pre-Heat switch is turned ON, the Zone Control Board will turn on the Summer Pump and circulate hot coolant through the engine heat exchanger. At the same time, the engine pre-heat pump will turn ON and circulate the engine coolant through the engine heat exchanger.

When the potable hot water is turned ON, the Zone Control Board will turn on the Summer Pump and circulate hot coolant through the internal potable water heat exchanger.

When the Burner is turned ON, the Zone Control Board will turn on the Summer Pump and circulate hot coolant through the internal circuit, to provide even heating in the coolant tank.

NOTE FROM NEWMAR

The Summer Loop is an automatic action of the Oasis system and requires no action from the user. It works like a stir pump and causes water to flow through the heat exchanger when hot water is desired and the heat zones are not actively circulating.

Power LED (Green): The power LED turns ON when the power to the Zone Control Board is ON.

Zone 1, 2, 3, 4, 5 Thermostat LED's (Green): The Zone # LED turns ON when the thermostat in the zone is calling for heat

Potable Water LED (Green): The potable water LED turns ON when there is a call for potable hot water.





HVAC

Zone 1, 2, 3, 4, 5 Fans, Summer Loop, Heat Loop 1, Heat Loop 2, Engine Pre-heat Pump Paired LED's (Red/Green): The nine paired LED's indicate the functionality of the corresponding devices. The green LED will turn ON when the device is operating normally. The red LED turns ON if a fuse has been blown.

Source(s): ITR Oasis Chinook Heating System Installation and Operating Manual: Diesel and AC Heating System for Recreational Vehicles and Mobile Homes Product(s): ITR Oasis Chinook Heating Base Unit (Model: 59000, Newmar Part Number: 144634)

Oasis Hydronic Heating Front Fan and Heater Fan Switch Overview

This article provides an operational overview of the hydronic heating front fan on the dash and the heater fan switch located in the bathroom.

Heater Fan Switch

The Heater Fan switch turns the heat fan in the bathroom on and off.

If the Oasis hydronic heating system is turned on and is up to temperature, and the zone heat is set high enough for the convector to blow out heat, then the Heater Fan switch will allow you to control the fan.

Turn off the fan if the bathroom gets too hot or turn on the fan if more heat is desired.

Front Fan Switch

The Front Fan switch on the dash controls the speed of the under-dash hydronic heating fans.

The switch is only active when the hydronic heat is up to temperature and the living room zone is calling for heating.

When these conditions are met, the driver can use the switch to control the fan speed (low or high) or turn the fan off.

Domestic Hot Water via Oasis Hydronic Heating

This article provides a basic overview of domestic hot water via the Oasis hydronic heating system.

Oasis Controls

The hot water in your coach is heated by the Oasis hydronic heating system. To operate an appliance that uses hot water, or to assure plenty of hot water for showering, turn on the boiler or heating elements using the appropriate control panel (depending on coach year and model):

- the KIB 10.1" Central Monitor Capacitive Touch Panel (2024 and newer coaches) OR
- the SilverLeaf Touchscreen

For more information about the control panel installed in a coach, refer to the product pages and knowledge articles in Newmar's owner's guide or in Newgle.

Both heat sources (diesel burner and heating elements) can be used at the same time for the maximum water heating capability. Turning only the 120 volt heating element(s) on will usually provide sufficient hot water for most household chores, but may not be sufficient for showering.

The diesel burner is the primary heat source with at least 50,000 BTU (more on select Oasis models), and the electric elements are secondary. Depending on your hot water usage, using only the electric elements may be sufficient; however, if not, use the diesel burner when not plugged into shore power or in conjunction with the electric elements.

Potable Hot Water Capacity

	CH50	NE-S	CHINOOK
BTU	50,000	85,000	50,000
Maximum Water Temperature (at incoming water temperature of 60°F)	120°F	120°F	120°F
Gallons Per Minute (GPM)	1.5	3.0	1.5





RADIANT HEATING

2025 SilverLeaf Touchscreen Guide: Floor Heat

The Floor Heat screen displays and controls the settings for floor heat. The Floor Heat button is only available if the coach is equipped with floor heat.

MPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Press the Floor button to display and control the settings for the floor heat function. The floor heat control system operates by switching the different floor zone heat mats ON and OFF, as determined by the intervals and values selected. There are three different zones in the coach, and each zone may be set for a different temperature.

The floor heat zone settings are controlled by slider bars. Use your finger to drag the slider bar or use the up/down arrows on the touchscreen display to select your preferred time. The higher the number of bars selected, the longer the heat mat remains ON. An icon will appear above the down arrow for each zone when that particular zone is active (turned ON).



The approximate operating times are as follows based on 20 minute cycle:

- One bar: Floor Heat Off
- Two bars: Store mode (Floor Heat will not operate in this mode)
- Three bars: On ~2 minutes ("Off time" Remainder of 20 min. cycle)
- Four bars: On ~4 minutes ("Off time" Remainder of 20 min. cycle)
- Five bars: On ~6 minutes ("Off time" Remainder of 20 min. cycle)
- Six bars: On ~8 minutes ("Off time" Remainder of 20 min. cycle)
- Seven bars: On ~10 minutes ("Off time" Remainder of 20 min. cycle)
- Eight bars: On ~12 minutes ("Off time" Remainder of 20 min. cycle)
- Nine bars: On ~14 minutes ("Off time" Remainder of 20 min. cycle)
- Ten bars: On ~16 minutes ("Off time" Remainder of 20 min. cycle)
- Eleven bars: On ~18 minutes ("Off time" Remainder of 20 min. cycle)
- Twelve bars: Heat mat is activated (constantly on)

A CAUTION

Per the Aries Engineering (Gold Heat) Radiant Floor Heat Installation Instructions and Owner's Manual, "Don't place rubber backed area or throw rugs over the heated area to avoid excessive heat from building in these areas."

THERMOSTATS

2025 SilverLeaf Touchscreen Guide: Climate All/Oasis

The Climate All screen controls and displays the settings for the heating and air conditioning (HVAC) system in the coach.

MPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Press the Climate button to manage the heating and cooling for all HVAC zones in the coach. This is a global display and control. From the Climate All screen, the user can set the temperature for heating and cooling, as well as schedule temperature changes by day, night, or when you are away.

Status Bars: Display the current status and operation of the HVAC system in the Climate All screen or the screen for the selected zone.

Icons: During active cycles of heating or cooling, icons will appear next to the Heat and Cool buttons to indicate the active cycle:

- Red Flame = Primary heat pump
- Blue Flame = Secondary Oasis
- Cyan Flame = Both heat pump and Oasis
- Fan = A/C or heat pump fan is circulating air
- Blue Snowflake = A/C is active

Heat & Cool Buttons: Press the Heat or Cool button to activate all the zones at one time. This will make the user unable to set heat in one zone and air conditioning in another at the same time.

- Press the Cool or Heat buttons to toggle the function on or off.
- If the Cool or Heat button is highlighted, the selected function is on/active.
- If the Cool or Heat button is not highlighted, the function is off/inactive.

Auto Climate: Press the Auto button to activate the auto climate feature of the HVAC system. This feature allows the temperature to be set and determines whether to use heat or A/C to maintain the set temperature. Press the Auto button to activate both the heat and cool buttons.

Temperature: The set points are changed by using the up and down arrows to the desired temperature. All zones can be set to the same temperature from the Climate All screen or set separately in each zone selection.

Schedule: Set the schedule for day, night, or when you are away within the Configuration section under "Climate Options."

Day / Night / Return / Away / Hold

- When a ring appears around "Day," the system is using the daytime settings.
- When a ring appears around "Night," the system is using nighttime settings.
- When a ring appears around "Away," the system is using Away settings.
- If a ring appears around "Away" and the user wants to return back to the schedule, press the Return button. The system will resume the daytime or nighttime settings based on the time and the configuration of the day and night schedules.
- Select Hold to keep the temperature at its setting and ignore all scheduling until another selection is made.

Oasis Screen

The Oasis control screen can only be accessed from the Climate All screen and allows the user to control the Oasis Hydronic Heating system burner and both hydronic heating system electric heating elements.

This screen displays the Oasis system's operational status and faults (if any). It also displays the AC Input status, including "No AC Input" or "AC Available" and the Oasis electric element (1 and 2) status.

This screen allows the user to change the heat source: heat pump only, Oasis, both heat pump and Oasis, or "Automatic" (system detects what is needed and responds accordingly).

Using the rooftop air conditioner heat pump(s) can take the chill out of the air, but will not work correctly below approximately 40 degrees and does not provide hot water for the coach.

Using the Oasis system provides more heating capability than just using the roof air conditioner heat pumps. The Oasis system works regardless of the outside air temperature and is capable of producing hot water for the coach.

The Oasis burner produces the most heat at 50,000 BTU's or more, depending on which Oasis system is used in your coach. This is necessary when heat or hot water is desired. The Oasis electric elements are approximately 10,000 BTU's each and are a good supplement to the burner when the coach is plugged into shore power.



Press the Elec 1 and/or Elec 2 ON/OFF button to turn them on or off.

Press the Burner ON/OFF button to turn the diesel burner on or off. For the most heat and hot water capability, Newmar recommends turning on both electric elements and the diesel burner.



This page is intentionally blank.

INTERIOR

This chapter provides information about the furniture, cabinetry, flooring, fabrics, window coverings, interior accessories, and finishing touches that turn your coach into a home.

IMPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

BEDS AND MATTRESSES

Personal Comfort Advanced Series Air Mattress Quick Start (Model: A5)

This article provides basic operation instructions for a Personal Comfort Advanced Series Air Mattress (Model: A5).

Operation

MIMPORTANT

Before you plug in your air control unit, we highly recommend using a 60Hz, 120VAC 50 W surge protector (not included). A surge protector will protect your air control unit and electronics from damage caused by a power surge or a lightning strike, neither of which is covered by the 25-year limited warranty.

Remotes

- Air control unit can have one or two remotes connected at the same time.
- Remote will function for the selected side until the user makes a change.
- You can also set up the air control unit to be operated by a smartphone via the Personal Comfort App.

First press turns on the remote / LCD. Select Firm or Soft:

- Firm = pump inflates chamber.
- Soft = pump deflates chamber.

Press or "press and hold," display will show changing value. Once stopped, the adjustment will be made after two seconds. While adjusting, the arrow will flash. Cancel any operation by pressing any key.

Simultaneous Use

If adjustment is being made on one side, the other side will wait until completion.

Memory

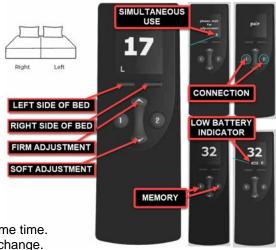
- Set favorite setting or recall (1 or 2)
- Press and hold 5 seconds to record current (1 or 2)
- Press once to recall stored setting (1 or 2)
- Two memory settings for each side

Connection

- Remotes will work out of the box
- · Pump will accept connection for one minute after power up
- Press the 1 and 2 buttons at the same time for 3 seconds to enter pairing mode
- Pair will display, then counts down from 30 to 0
- If power is lost, remotes will connect automatically when power is restored

Low Battery Indicator

Uses two AAA alkaline batteries



Pairing

- If the remote does not connect, unplug and re-plug the pump into the correct power outlet to restart the connection signal for three minutes.
- Press and hold memory 1 and 2 buttons at the same time for three seconds.
- If the beacon graphic is present, the remote is searching for a connection.
- Pairing process may take up to a minute per remote.

Recommended Sleep Settings

To help you find your perfect sleep setting, start at the maximum setting of 50 and decrease the bed to slightly softer than you would prefer, and go back up until you reach your ideal comfort level.

Give Your Body Time to Adjust

It can take anywhere from several nights to a few weeks for your body to adjust to your new sleeping surface, especially if you're trying different sleep settings to determine your ideal comfort.

When you've found your preferred sleep setting, program this sleep setting into the memory feature of the remote. Try sleeping at this setting for a minimum of five nights. After five nights, evaluate your sleep experience and if necessary, repeat the process until you have found your perfect number setting. We recommend starting at a higher number and working your way down. The common sleep settings most people use are between 15-25.

Mattress Cover Care

The bottom, center and top panel of your Personal Comfort mattress can easily unzip to be professionally dry cleaned. Do not attempt to wash the cover pieces yourself, as some of the materials and/or stitching may shrink. Do not apply over the counter stain remover as it may yellow the fabric.

Source(s): Personal Advanced Series Bed Owner's Manual and Wireless Remote Instructions

Personal Comfort App

Control the Personal Comfort[™] bed from your phone or tablet. Personal Comfort[™] is a number bed manufacturer with their own downloadable app which makes it easy to adjust your mattress wirelessly.

Install the Personal Comfort App

- 1. Search for the Personal Comfort[™] bed App within iTunes or Google Play.
- 2. Select "install" to begin downloading and installing the App.

Connecting the App

- 1. Select "connect" to begin the connection process. (Note: You must have a Personal Comfort™ Advance, Elegance or Memory Ecam Series hed in ord
- Personal Comfort™ Advance, Elegance or Memory Foam Series bed in order for this App to connect.)
- 2. Before hitting "Start", please make sure you're near your bed and that your bed is plugged into an electrical outlet.
- 3. Please select the size and the style of your number bed. Once selected, select continue.
- 4. Please select your power-base model. If you do not have a power base then select none. Once selected, hit search for bases.
- 5. Select your base to connect. You can also test your base to make sure it is the correct base. (Note: This step may not be applicable.)
- 6. Select "scan for units" to connect to your Personal Comfort number bed.
- 7. Once your air control unit comes up, select it and hit continue.
- 8. Everything is connected and ready to go. You can re-connect or disconnect from the mattress and power bases in the menu.

Sleep Settings

- 1. Start adjusting your mattress to your level of personal comfort. Up for firm. Down for soft.
- 2. When you find your sleep setting, you can save it. You have 2 favorite positions to use. They are located on the sleep settings page.
- 3. Select bed position on the bottom menu. This page will allow you to control anything and everything your power base is capable of. Including changing your sync settings; dual, feet only and sync head and feet.

Source(s): Personal Comfort Number Bed Advanced Series Owner's Manual and App-Instructions (Website) Product(s): <u>Personal Comfort Bed (Model: A5, Newmar Part Number: 165925, 165926, 165927, 165928)</u>



CABINETRY AND WOODWORK

Cabinetry and Woodwork Care and Maintenance

This article provides an overview of the cabinetry and woodwork in a coach.

Newmar's exquisitely crafted cabinetry newly gleams with chrome-finished hardware, the perfect complement to the array of appliances that make cooking and clean-up a breeze. Amish craftsmanship and elegance in design meld the wood cabinetry and furniture seamlessly with the Newmar interior. All Newmar cabinetry is custom built in our facility and designed with function and convenience in mind, as well as to provide as much storage as possible in your coach.

Construction

All joints on Newmar hardwood cabinets are glued, and then screwed together for extra durability. Hardwood raised panel cabinet doors are standard throughout the coach.

NOTICE

This vehicle is TSCA TITLE VI COMPLIANT and contains composite wood products that comply with the applicable California Code of Regulations Section 93120.2(a) Phase 2 (P2) formaldehyde emission standards specified on the above date of manufacture.

NOTICE

This vehicle is TSCA TITLE VI COMPLIANT (conforme au titre VI de la TSCA) and contains composite wood products that comply with the applicable California Code of Regulations Section 93120.2(a) Phase 2 (P2) formaldehyde emission standards specified on the above date of manufacture.

Depending on your coach model, you may have hardwood cabinets or vinyl veneer finished cabinets. A variety of vinyl veneer and stain finishes are available for the cabinetry. A hand-sanded finish helps minimize seams so your hardwood cabinetry is as beautiful as it is durable.

Metal drawer guides provide a smooth opening and closing of the drawers in your coach. To open a drawer, lift up slightly and pull open. This features helps prevent the drawers from opening during transit. Your unit may also include features such as adjustable pull out pantry boxes in the kitchen, soft-close drawers, or a molded silverware divider tray for added storage.

Humidity and Climate Change

Controlling the coach environment is the first priority of cabinet care and maintenance. Wood products shrink and grow according to the environment in which they are placed. These changes are in direct relationship to the relative humidity levels. As the humidity increases, the wood expands, and as the humidity decreases, the wood shrinks. This process does not happen instantaneously the longer the wood is exposed to low humidity, the more it will shrink as it dries out, and visa versa.

Coach owners who travel around the country may be more prone to this issue, as their coach is exposed to both extreme humidity and extreme dryness. It is necessary to acknowledge the fact that wood changes according its environment. Newmar recommends maintaining relative humidity levels between the range of 35-50 percent and temperature levels between the range of 40-90 degrees. The air conditioner or a dehumidifier will reduce the humidity level; however in dry climates, a humidifier may also aid in maintaining the appropriate humidity levels by raising the humidity level.

The labels included in this article are examples of the notices that may be posted in the coach in regards to condensation prevention and formaldehyde exposure.

NOTICE

This vehicle is designed as a Recreational Vehicle. When used for an extended period of time, while furnace heating is required, sweating and condensation conditions may occur. The following precautions should be taken to minimize these conditions: (1) Use range hood when cooking. (2) Use the bathroom power vent when bathing or showering. (3) Open windows slightly for ventilation whenever possible. (4) Use dehumidifier to keep humidity as low as possible.

Cratial or de frast product seguina have advised hat una formalidayis is used in the product seguina that with advised physical products present and the product of the physical physical present and the physical physical physical sequences and the physical physical physical physical sequences and the physical physical physical sequences and the physical physical physical sequences and the physical	IMPORTAN	I NOTICE
or register. We may appear the second of the second secon	f particle board, hardwood plywood or paneling which roduct. These suppliers have requested that we comm	they supply us and which we utilize in our finish unicate this to our customers.
COMMALDENT EVANOISE IN LOW CONCENTRATIONS. TOMALDENTIFIC EAST BEITRATING TO THE THE ADD UPPER INSTANCIONS TESTINO FUNCILAL SUBJECTIVE EXPENSION SUDVE THE BRACK SUCH TROBULTARE. E PREVIDANT SUBJECTIVE THE STRUCTURE SUDVE ADDRESS SUCH TROBULTARE. I SUPPORTED SUPELIAR, CONSULT VOU PHYTECAL. ADDRESS ADDRE		statements which have been provided to us by
наявиса, паятилат, так редовот с сонтала и все локальтерите всем наятила не съе все наявиса оприета на пол оказатила на пол на пол на пол на пол на пол на пол на пол тута на порета всемвалоти за пол на пол на пол на пол на пол на пол на пол на пол на пол на пол на пол на пол на пол на пол на пол	FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS EYES AND UPPER RESPIRATORY SYSTEM OF ESPECI (HOSE WITH ALLERGIES OR RESPIRATORY AILMENT)	FORMALDEHYDE CAN BE IRRITATING TO THE ALLY SUSCEPTIBLE PERSONS SUCH AS 5. PROPER VENTILATION SHOULD REDUCE OP, CONSULT YOUR PHYSICIAN.
TORMALDEVING VARIOUS NLOW CONCENTRATIONS, FORMALDEVING CAN BE RETATION TO THE VIEW AND UPPER RESERVOY STATUL OF DEVICAL VIEWCETTAL REPROCESSION OF THE RESO THE ADD UPPER RESERVOY STATUL OF DEVICAL VIEWCETTAL REPROCESSION OF THE RESO UCH PROLUBLES, IF STRPTONE DOVLLON, CONSLIT YOUR PHYSICAN. MORNING: THES PRODUCT CONTAINES A URL: A FORMALDEVING WARDER MAY IN SOME MARINES: THES PRODUCT CONTAINES A URL: A FORMAL PHYSICAN. LLERGES AND RESPIRATORY FROMELANS, DOVLLON, SOME MARDINA, NO RELEASE DEVICE THE RESO FOR CONTAINES, DIVING, DEVICE VIEWTIATION SINCULA LLERGES AND RESPIRATORY FROMELANS, DIVING, PHYSICAN. LLERGES AND RESPIRATORY FROMELANS, DIVING, PHYSICAN.		Adorn, Inc.
WARNING: THIS PRODUCT CONTAINS A UREA-FORMALDEHYDE RESIN AND MAY RELEASE ORMALDEHYDE WAPORS IIL LOW CONCENTRATIONS, FORMALDEHYDE WAPOR MAY, N SOME PEOPLE, CAUSE ERACHES, SYF, KORE, AND THROAT RETATION WAPOR CARANTON O'R ALLERNES AND RESPRATORY PROBLEMS, SUCH AS ASTMUA. PROPER VENTLATION SNOULD REDUCT THE RISK OF SIGHT PROBLEMS.	FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS. EYES AND UPPER RESPIRATORY SYSTEM OF ESPECIA WITH ALLERGIES OR RESPIRATORY AILMENTS. PROPI	FORMALDEHYDE CAN BE IRRITATING TO THE LLY SUSCEPTIBLE PERSONS SUCH AS THOSE IR VENTILATION SHOULD REDUCE THE RISK OF
FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS, FORMALDEHYDE VAPOR MAY, IN SOME PCOPLE, CAUSE HEADACHES, EYE, HOSE, AND THROAT IRRITATION AND AGGRAVATION OF ALLERGIES AND RESPIRATORY PROBLEMS, SUCH AS ASTMIA, PROPER VENTLATION SHOULD REDUCE THE RISK OF SUCH PROBLEMS. Robert Weed Plywood Corp		Woodbridge, Inc.
	FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS PEOPLE, CAUSE HEADACHES, EYE, NOSE, AND THRC ALLERGIES AND RESPIRATORY PROBLEMS, SUCH AS	FORMALDEHYDE VAPOR MAY, IN SOME AT IRRITATION AND AGGRAVATION OF ASTHMA. PROPER VENTILATION SHOULD
iscussion of ventilation contained in your Owner's Manual.		nvironment and we direct your attention to the

Care and Maintenance

The cabinetry should be wiped down with furniture polish to sustain the natural beauty and luster of the wood.

Hardwoods may change color or darken when exposed to sunlight. It is important that the window shades be down during long periods of storage. Changing shades of color, or discoloration, from exposure to sunlight is not a warrantable repair, as it is the nature of the hardwood products in your coach.

MPORTANT

As with any wood product, do not saturate these cabinets with water or any other liquid. Be sure to wipe up spills as they occur to avoid staining.

Kitchen Cabinet Extensions and Peninsulas Overview

This article provides basic information about kitchen extensions and peninsulas.

Stationary Peninsulas

The stationary peninsula provides additional storage and countertop space. The kitchen slideout extends and retracts around the peninsula while it stays in place.

MPORTANT

Make sure the countertop is clear of obstructions or debris in the path of the slideout before extending or retracting the slideout. Do not allow any objects to fall between the peninsula and the slideout, as they may cause damage.

Pull-Out Cabinet Extensions

The cabinet "extension" is incorporated directly into the kitchen cabinetry, and glides out on drawer guides to provide additional counter space when needed.

Most 2017 and newer coaches are equipped with a counter extension and an electric latch release. To extend the counter:

- 1. Turn on the coach battery disconnect.
- 2. Extend the slideout.
- 3. Press the button right above the pull-out island (between the counter extension and the main countertop) to release the island extension.
- 4. Pull out on the extension until the magnetic catches engage.

To retract the counter, push in the extension until it latches.

CEILING AND WALLS

Ceiling and Walls Care and Maintenance

The ceiling in your coach may be covered with a padded vinyl ceiling headliner and should be cleaned periodically to maintain a new appearance. Use a non-abrasive cleaner with a soft cloth. Do not use solvents of any kind, as they may damage the surface.

The decorative wall coverings can easily be maintained and are not much different from wallpaper and should be cleaned with a solution of mild soap and water or a non-abrasive cleaner with a soft cloth.

A CAUTION

For stubborn spots, test any cleaner on a area that is hidden, as some cleaners may fade or discolor the wall covering. Do not use solvents of any kind, as they may damage the surface.

COUNTERTOPS AND BACKSPLASHES

Solid Surface Countertop and Backsplash Care and Maintenance

This article provides proper care and maintenance instructions for solid surface countertops and backsplashes. No special cleaning products are necessary; however, the countertops and backsplashes can be damaged if they are not cared for properly.

Cleaning

The solid surface composite countertops are non-porous, so most dirt and liquids sit on the surface and can easily be cleaned with a soap or mild detergent.

MPORTANT

Avoid using window cleaners that may leave a waxy build-up that dulls the surface.

Wipe up spills as soon as they occur. Film can also build up on the countertop if water is left to dry, making it appear blotchy and uneven. Always wipe the countertop completely dry with a soft cloth after spills and cleaning.



Spray the surfaces with a hard-surface cleaner, and leave it for a few minutes before wiping clean with a damp cloth. Strong chemicals and solvents may damage the surface and should be wiped up immediately, then rinsed with water.

Avoiding Damage

Heat

The solid surface countertops can be damaged with excessive heat or the use of harsh chemicals. Never put hot pans directly on the counter or in the sink. Avoid pouring hot liquids directly into a solid surface sink; run cold water while pouring hot liquid into the sink to avoid damage. If possible, allow the pan or pot to cool first.

Use caution when using heated appliances, such as crock-pots, electric frying pans, toaster ovens, etc. When possible, never use these appliances directly on the countertop.

Always use a heat pad or trivet to protect the surface from heat that may mar or damage the surface.

Scratches

Try not to cut or chop food directly on the countertop, as you can score and scratch it. Slight abrasion marks may occur during normal daily use; cleaning regularly will ensure the durability and longevity of the countertops. Darker and heavily pigmented colors may show wear and tear more readily, and may require additional or more frequent maintenance.

MPORTANT

Always use a cutting board when cutting or chopping. Never cut or chop food directly on the countertop.

Some deep scratches can be sanded out, and defects in solid surface countertops can be repaired, by trained professionals.

Chemical Spills

Strong acids and cleaners may discolor the surfaces and should be wiped up immediately and cleaned with soapy water to prevent damage to the surface. Prolonged exposure may require professional repair or replacement.

FABRICS AND MATERIALS

Dash Material Maintenance

This article provides suggested maintenance instructions for the dash material. In order to keep the dash in like-new condition, follow these guidelines:

Do—

- Dust and clean the dash with a soft, damp cloth, or chamois, wiping the surface gently.
- Use a mild detergent and lukewarm water.
- Dry the surface, after washing and rinsing, by blotting with a damp cloth or chamois.

Do Not-

- Use harsh chemicals that may damage the dash.
- Use cloths containing grit or abrasive particles or kitchen scouring compounds to clean or dust the dash.
- Subject the dash to hard, direct blows.
- Use boiling water or strong solvents to clean the dash, as they will soften the plastic.

Fabrics and Materials Care and Maintenance

This article provides care and maintenance recommendations for the fabrics and materials installed in a Newmar coach.

MIMPORTANT

The fading of upholstery, carpet, and other interior fabrics can be caused by excessive sunlight. The drapes, blinds, or shades should be kept closed if the coach will be parked for an extended period of time to minimize fading. Normal deterioration due to wear and/or exposure to sunlight is not covered by the Newmar Limited Warranty.

The fabrics used in your coach may contain fire-retardant additives that may be damaged by use of improper cleaning products. Cleaning instructions for these items are DRY CLEAN ONLY. Water-based products are not recommended for cleaning the fabrics in your new unit. Most water-based household cleaning products are not formulated for use on these fabrics and may cause excessive shrinkage or fading. For best results, the fabrics in this unit should be cleaned by a professional carpet and upholstery cleaner.

Spills, spots, or stains should be treated as soon as possible to avoid permanent damage. If a spill occurs, blot the fluid with a dry towel. Do not rub the spill. Rubbing may cause the liquid to "set" in the fabric. When attempting to clean a spot or stain, always start from the outside and work inward to avoid spreading it further.

MPORTANT

Some stains or soils are extremely difficult or impossible to remove completely. These should receive immediate, professional attention. Spills, spots, stains, or soils are the responsibility of the owner and are not covered by the Newmar Limited Warranty.

WARNING

When cleaning the upholstery and fabric in the unit, do not use lacquer thinner, nail polish remover, laundry soaps, or bleach. Never use carbon tetrachloride or gasoline for cleaning purposes. These items may cause damage to the materials being cleaned, and most are highly flammable.

Ultrafabrics Cleaning Guidelines for Vinyl-Covered Furniture

This article provides the care and maintenance guidelines for Ultrafabrics material.

One of the best ways to keep Ultrafabrics looking great is through proper maintenance and regular cleaning to prevent excessive dirt from accumulating. To help keep your quality fabrics looking their best, follow these guidelines to extend the life of the fabric:

- Wipe up spills as soon as they occur
- Clean with soap and water or alcohol based cleaners
- Sanitize using disinfectants such as (1:5) bleach/water solution
- For stubborn stains, wipe off with isopropyl alcohol as soon as possible
- · Thoroughly rinse all solution residue with clean water
- Air dry

This information is not a guarantee. Please use all cleaning and disinfecting agents safely and as instructed. The use of other cleaning agents, disinfectants, conditioners or protectants is not recommended and can degrade fabric's performance and may void Ultrafabrics warranty.

Ultraleather® | Pro note: A variety of clothing and accessories may contain dyes that could transfer to lighter colors, depending upon variations in temperature and humidity. Dye transfer is difficult to control, not always fully preventable, and may be irreversible. Fabric may not protect against intentional stains or permanent inks.

Source(s): https://www.ultrafabricsinc.com/resource

FLOORING

Tile Flooring Care and Maintenance

This article provides care and maintenance recommendations for tile flooring, which installed with Newmar's own in-house process. The tile in every Newmar coach is placed with the highest level of care for the best fit, quality, and longevity.

As needed, sweep your floor to remove dirt and grit. Wipe up any spills promptly. Damp mop once a week (or more often for heavy traffic areas) using a tile cleaner. Use a neutral pH cleaner compatible with grout cleaning.

MPORTANT

Never use detergent, soap or other harsh cleaners, which can dull the surface or promote mildew growth. Cleaners should never contain acids, vinegar, chlorine, or ammonia, as these chemicals can damage and discolor both the grout and the stone or tile.

MIMPORTANT

Slideout rollers may leave indentations in the flooring. This condition is normal and does NOT warrant flooring replacement.

INTERIOR DOORS AND HARDWARE

Interior Doors and Hardware Overview

The interior doors add to the beauty and privacy of your coach. Newmar installs a variety of functional doors from the basic hinged-swinging door, recessed hardwood pocket doors, and even pivoting doors on select floorplans. Each interior door is designed to fit and function for trouble-free operation.

IMPORTANT

Always secure all interior doors prior to travel to prevent damage to the doors and any surrounding objects.

INTERIOR FURNISHINGS AND FURNITURE

Interior Furnishings Overview

Interior furnishings such as clocks, artwork, and other decorations help make your coach feel like home. Other furnishings may be installed to provide the essentials and the amenities for your convenience while traveling.

Most pictures, clocks, and wall art installed at the factory have a hanger at the top and Velcro at or near the bottom. There may also be Velcro on the sides. To remove the picture or wall art, pull the Velcro loose at the bottom and sides, and then remove it from the hanging device. Some decorations without a frame may have exposed screws that may be difficult to find. For this type of decor, locate the screws, and remove them.



Furniture Overview

This article provides an overview of the furniture available in coaches. Covered in coordinating fabrics and accented with pillows, a variety of furniture is available in your coach depending on the coach model and floorplan, as well as the options that were ordered. Options may include recliners, theater seating, sofa beds, dinettes, and booths.

Your furniture is designed with function and style in mind. Many of the furniture pieces are multi-functional and may recline, turn into sleeping areas, open to access hidden storage areas, etc. Any furniture with seatbelts installed from the factory has been tested and is intended only to be used in the seating position when the slideouts are in the retracted position for travel.

A WARNING

Do not attempt to use recliners, theater seating, or any furniture that opens or reclines and changes from the basic seating position unless the coach is in the set-up position (i.e., parked and with the slides open). Otherwise, occupants may become injured, and furniture and surrounding items may become damaged.

Driver and Passenger Seat Overview

This article provides an overview of driver and passenger chairs installed on a Newmar coach.

The fabric and color of the chairs is based upon the décor package selected at the time of production. The driver and passenger seats may be standard or wide-width and are covered in vinyl or leather. Some coach models feature branded seats with the logo of the coach model. Other variations may include notched arms and/or skirt panels.

MPORTANT

This article is intended to provide a basic overview of the driver and passenger seats and is NOT all-inclusive of available features on any one particular seat. Chair manufacturers, styles, and features vary by coach. Seat features may be controlled via rocker or joystick-style switches, levers, knobs, or buttons. For additional information about driver and passenger seat operation, refer to Newgle.

The seats have a three-point seat belt, which may be integrated into the seat. Some seats may also be operated via a remote control with additional features.

Standard and Optional Features of Driver and Passenger Chairs

Adjustable Base: Chairs may have a powered or manual adjustable base. Powered driver and passenger front seats are mounted on power pedestals that offer a wide range of adjustments. A multiple axis switch typically moves the seat horizontally and vertically, a rocker switch tilts the front of the seat up and down, and another switch often controls the tilt of the rear of the seat base. Additional switches or knobs, depending on the coach year and model, control the recline angle of the seat back.



Be sure that driver's seat is in the forward position before activating the slide out room.

NI-043

Swivel: When the coach is not in motion, some seats may have the option to swivel (turn around) to face the living room of the coach via a release lever on the pedestal. Before turning the chairs, follow this procedure:

- First extend the slideout room.
- Tilt the steering wheel up and toward the dash.
- Position the armrest to provide maximum clearance.
- Straighten the seat back.
- Move the seat forward or backward to provide enough clearance for the steering wheel. Additional adjustments may be necessary during this process.

Once these steps are completed, the chairs will swivel without interference.

Adjustable Lumbar Support: Some driver and passenger seats may be equipped with lumbar support in the lower back region of the seat. The power lumbar control switch is located on the side of the seat and can be used to adjust the lumbar portion of the seat. This setting determines the amount of pressure applied to the user's lower back.

Foot Rest: Some driver and/or passenger seats feature a manual or power footrest. If equipped, powered footrests may be extended or retracted via a control switch located on the seat.

Adjustable Arms: Some driver and passenger seats have adjustable arms that can be raised or lowered based on the user's preference. These can often be adjusted via a lever located on the armrest. Some armrests automatically move when adjustments are made to the angle of the seat back.

Power Adjustable Headrest: Select seats may have an adjustable headrest and operate using a switch located on the seat base or remote control.

Heated Seats: Some seats may feature heat, which can be controlled via remote control (if equipped) or a switch located on the base of the seat. This switch is often red in color and/or has a graphic with upward-moving "heat rays." Seats equipped with a remote control have adjustable heat settings.

Cooled Seats: Select seats may have adjustable cooling settings via a control switch located on the seat base or remote control.

Seat Memory: Select coaches may be equipped with a memory package that allows you to set and store up different combinations of seat, steering wheel, pedal, and exterior rear-view mirror positions for up to three drivers. For more information about the driver control memory system, refer to Newgle.

Massage: Select seats equipped with a remote control may have various massage modes and intensity settings.

Haptic Feedback: This feature is used on coaches with a Mobileye lane departure warning system. The seat will vibrate to notify the driver if the coach leaves the intended lane.

Troubleshooting

If you experience issues with your power seats, please refer to the Fuse Panel portion of Newgle. Select your coach year, model, and floor plan to view the appropriate fuse location diagrams. These will often prove to be helpful when locating your fuse panels, positions, and ratings. If all fuses are good, check under the seat for any loose or damaged wiring. If additional troubleshooting is required, take the coach to an authorized service center or dealer. Contact Newmar Customer Service for service locator assistance.

Raffel Systems Tablet Holder for Williamsburg Passenger Seats

This article provides basic operation instructions for a Raffel Systems removable holder for easy access to a tablet or other electronic device.

INTERIOR

The tablet holder is designed for integrating devices into workspaces and is secured with a grommet system on Williamsburg passenger seats in select coach models. This is an angle-adjustable (360°rotated, 300° vertical), multimedia device holder and is compatible with iPad, Kindle DX, and any other multi-media device with a 9.7" screen.

To use the holder, place the stem into the hole located on the top side of the passenger seat armrest. Adjust the clamps' angle and place your device on the proper location of the cradle, then secure your device with six clamps (adjust the size by moving the arms, legs, and feet of the holder to fit the size of the desired device). Rotate the cradle clockwise or counterclockwise to adjust the angle. Turn the cradle downward or upward to adjust the angle.



Source(s): Mobile Holder for iPad Product(s): Williamsburg Furniture Tablet Holder (Model: 180511, Newmar Part Number: 155260)

INTERIOR STEPS AND STEP COVERS

Interior Steps, Cover, Lighting, and Storage Overview

This article provides basic information about the interior steps, step covers, step well lighting, and step well storage.

Step Well Lighting

Some coaches may also have a switch that operates the step well lighting, and others may have step well lights that turn on with the patio light switch.



For safety purposes, keep your steps clear of debris and other personal objects.

Step Cover

The step cover switch operates the front or mid-entry step cover installed on select coach models. When extended, it covers the steps to prevent falls, allows you to freely walk inside the coach when parked, and provides extra surface area for the passenger's feet during transit (front entry coaches only).

On select coaches, the switch for the interior step cover is located either on the side of the passenger console, on the dash console near the center, or near the mid-entry step well. Press the switch forward to extend the step cover to make it level with the coach floor. Press the switch backward to lower and retract the cover in the stored position.

Stepwell Storage

Select coaches are equipped with step treads that can be lifted for additional storage.

A CAUTION

Make sure all stored contents fit entirely inside of the step box. Raised step treads or loose items in the stepwell can create a trip or fall hazard.



SAFES

Stack-On Security Wall Safe Quick Start (Model: PWS-1822E)

This article provides basic operation instructions for a Stack-On Security Wall Safe (Model: PWS-1822E). © 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

INTERIOR

Getting Started

When you first receive your new electronic safe you will need to open the door with the key in order to install the batteries. Batteries are included and are located inside the safe.

NOTE FROM NEWMAR

This key can be found inside the coach information packet. This is the black bag containing user manuals and other coach-specific documentation. If the key is not available, the default code set by the factory is "1-5-9," followed by the green checkmark button. This code will only work if the batteries have already been installed and a security code has NOT yet been entered.



To open the door with the key, first remove the lock cover from the front of the faceplate using a thin bladed flathead screwdriver. Insert the key and turn left. Hold the key in the open position and turn the knob to the right to open the door.

Note: This key has been provided in case you lose or forget your security code or the batteries run low. If you lose your key, you may purchase a replacement key by referencing the serial number located under the removable lock cover.

Locate the batteries inside the safe. Open the battery compartment on the back of the door by pushing the tab in the direction of the arrow and install the batteries.

Note: The reset button located on the inside of the door is covered with a removable cap. When you use the reset button while setting your own combination, remove the cap to access the button. Use the tip of a ballpoint pen or the end tip of a paper clip to push the reset button.

Replace the cap securely over the reset button after setting your combination. Failure to do so will compromise the safety and security of the safe.

Entering Your Security Code

To enter your own security code you will need to follow the steps listed below:

- 1. After installing the batteries, locate the reset button on the back of the door.
- 2. Press the reset button with a pen and then release it; you will hear a beep. Do NOT shut the door until you have confirmed that your new security code has been entered correctly.
- 3. With the door open, enter your own personal security code, which can be 3-8 digits long, and confirm your new code by pressing the checkmark key on the electronic touch pad. You will have 3 seconds to press the checkmark key, otherwise you will have to start over from step one. There will be 2 beeps (if the sound is turned on) and the green light will flash twice if your code has been entered successfully.

Before you close the door, enter the new security code and press the checkmark key to make sure the lock releases the knob so you can turn it and retract the live action locking bolts.

If the code fails, go through steps 1-3 again. If the code works successfully, then you should lock the safe. When you open the safe in the future, enter the security code you have set, followed by the checkmark key, and turn the knob.

If an incorrect security code is entered 3 times, the safe will beep 5 times (if the sound is turned on) and the red light will flash 5 times resulting in the safe being automatically locked out for 60 seconds before you can try your code again. The safe will beep one time (if the sound is turned on) and the green light will flash once when the lockout period is over.

If an incorrect security code is entered 1 additional time, the safe will beep 5 times (if the sound is turned on) and the red light will flash 5 times, resulting in the safe being automatically locked out for 5 minutes before the code can be tried again. The safe will beep one time (if the sound is turned on) and the green light will flash once when the lockout period is over.

MIMPORTANT

If you write down your combination, you must keep this information in a secure place, away from children, not inside the safe.

Do not store keys or your combination inside safe.

Locking the Safe

To close the safe, push the door closed until locked.

Battery Replacement

This safe uses 4 - AA batteries. Under normal use, batteries will last about 1 year.

- Do not mix old and new batteries.
- Do not mix alkaline, standard or rechargeable batteries.

If the batteries are low, the yellow light will flash when you start to enter your code. To replace the batteries, open the battery compartment on the back of the door by pushing the tab in the direction of the arrow and install all new batteries.

Internal LED Light

This safe includes an internal LED light that will activate when the correct combination is entered and will remain on for 30 seconds.

Turning the Keypad Sound Off/On

Your safe comes with the "Beep" sound turned on. You can turn off the "Beep" sound of the keypad by pressing the Volume key. To turn the "Beep" sound on, press the Volume key again.

Key / Combination / RFID Device Request

You can store your Key #, Serial # and Combination on Stack-on's SECURE website - stackon.com under Customer Service. Storing your Key # or Combination will provide instant access to this important information should you ever lose your keys or your combination. Only you will have access to this information.

Verification of ownership is required in order to receive a replacement Key / Combination / RFID devices for your security product.

In order to receive a replacement Key or Combination or RFID devices for your security product:

- 1. Please visit the following link: https://stack-on.com/customer-service/.
- 2. Locate and click on the "Keys replacement" or "Lost combination assistance" icon.
- 3. Follow the instructions provided to receive your key, combination, or RFID devices.

Source: Stack-On PWS-1822-E Security Wall Safe Owner's Manual Product: (Model: PWS-1822-E, Newmar Part Number: 144484)

SHADES AND WINDOW COVERINGS

2025 KIB L-Panel LCD Capacitive Touch Panel Guide: Shades

The Shades button on the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) displays the Shades page to start and stop shade operation. This vertical touch panel is only installed on coaches also equipped with a SilverLeaf touchscreen.

MPORTANT

The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

Touch the SHADES button, followed by the corresponding shade button to start and stop shade operation. Once a button is touched, it will turn red, indicating the circuit is in active operation.

The buttons are gray while the circuit s inactive. The available buttons will vary by coach model and floorplan, as well as installed options. Potential buttons may include day and night shade options.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle

2025 SilverLeaf Touchscreen Guide: Shades and TV Lift

The Shades and TV Lift screen displays the controls for the shades and the televator (if equipped).

IMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Shades Button

Press the Shades button to display the living room, kitchen, and bedroom shade controls.

- Up/Down: Press the Up or Down button to raise or lower the corresponding shade.
- Stop: To stop the shades during operation, press any button relative to the associated shades.

TV Lift Button

Press the TV Lift button to display the television lift (televator) controls. This button will not appear on coaches without a television lift.

- Up/Down: Raise and lower the TV by pressing and releasing the TV LIFT UP or TV LIFT DOWN button.
- Stop: If the lift needs to be stopped in a position other than up or down, press the button again when the lift has reached the desired position.

		SHADES A	AND TV LI	FT	
KITCHEN	BED FWD DAY	BED AFT DAY	DRESSER DAY	DRSR AFT DAY	ALL BED DAY
	BED FWD NIGHT	BED AFT NIGHT	DRESSER	DRSR AFT NIGHT	ALL BED NIGHT
HALF BATH					
		TVLET	TVIET		
11 State	and the second		TV LIFT DOWN		BACK
		SHADES A	AND TV LI	FT	
	KIT/LVRM DAY	SHADES A	LVRM FWD	FT BACK LVRM DAY	
	KITALVRM DAY KITALVRM NIGHT	DINETTE	LVRM FWD	BACK LVRM	
KITCHEN		DINETTE	LVRM FWD DAY	BACK LVRM DAY	
		DINETTE	LVRM FWD DAY	BACK LVRM DAY	
		DINETTE	LVRM FWD DAY	BACK LVRM DAY	
		DINETTE DAY DINETTE NIGHT	LVRM FWD DAY LVRM FWD NIGHT	BACK LVRM DAY BACK LVRM NIGHT	

Theater Mode

Theatre mode is only available on select coach models and years. This mode turns off all lights in the kitchen and living room, lowers all living room and cockpit shades, turns on pre-programmed accent lights (may vary by floorplan), and raises the televator. Press the Back button to return to the previous screen.

Power Windshield Shade Operation

This article provides basic operation instructions for a Power Windshield Shade.



Do not manually pull down on the power shades, as damage may result.

Visor / Shade (Day Shade)

The Visor switch is located on the dash and adjusts the windshield screen up or down. When the ignition switch is turned on it limits the visor travel to approximately 1/2 way down and with the key off it travels all the way down to the dash. The screen will travel up until it reaches the stop setting.

Front Privacy Drape / Shade (Night Shade)

Press the UP or DOWN button for the appropriate shade. Switches may be labeled "Front Privacy Drape" or "Shade." Switch-operated shades require the switch to be held until the shade either reaches its limit or the desired intermediate position (the shade can be stopped at any point by simply releasing the switch).

The switch labeled "Front Privacy Drape" or "Shade" is located in the overhead cabinet or on the dash and adjusts the windshield shade up or down.



- 1. With the ignition on, press and hold the switch in the down direction to extend the drape to the ignition stop set limit, which is approximately half-way. This is to allow the driver to see out the window.
- 2. With the ignition off, press and hold the switch in the down position to extend the drape until it reaches the "downstop set limit.
- 3. With the ignition on or off, press and hold the switch in the up position to retract the drape until it reaches the "up" stop set limit.
- 4. Release the switch during travel to stop the drape extension or retraction between the "up" and "down" stop set limits.



This page is intentionally blank.

PLUMBING

This chapter provides detailed information about the coach's fresh and waste water system and all of the related components: faucets and fixtures, filters, sinks and showers, toilets, and much more.

A IMPORTANT

Any of the following quick start instructions should not take the place of the complete documentation provided by the product manufacturer and/or Newmar. Additional operating instructions, troubleshooting, care and maintenance, safety information, etc. may be available in Newgle for specific components. Read all literature provided, paying special attention to any references to the following terms throughout Newgle and the Owner's Guide: Danger, Warning, Caution, Important, Notice, and Note From Newmar. These terms indicate important information that must be understood and followed.

A CAUTION

Read and understand all operating instructions for the plumbing system before using your coach. Failure to connect and operate the system correctly may result in damage not covered by the Newmar Limited Warranty.

WATER COMPARTMENT OVERVIEW

2025 New Aire Water Compartment Overview

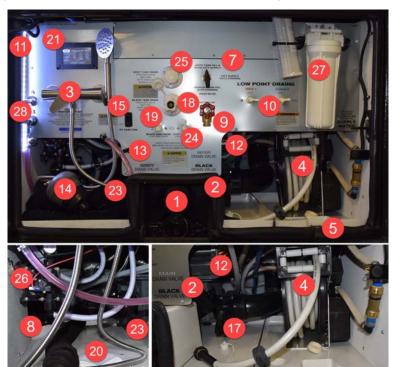
This article provides a general breakdown of the components installed in a 2025 New Aire water compartment.

Overview

The water compartment in the coach typically contains the tanks and most of the controls for the plumbing system. It is usually located on the driver side of the coach immediately in front of the rear wheels, as it is isolated from other compartments and is heated and insulated. The water compartment contains parts of both the fresh and waste water systems.

Water Pressure Requirements: Ease of operation was the key element in the design of the water compartment and plumbing systems. The fresh water system in your coach is designed to operate at a maximum of 60 PSI. Water pressure levels above this level can damage the fresh water plumbing. If the water pressure ever surpasses 60 PSI, a pressure regulator must be installed to reduce the incoming pressure, or fill the fresh water tank and use the internal water pump to supply water to your coach.

Example of a Water Compartment and Component Definitions



MPORTANT

The following information is generic for the 2025 New Aire. Components installed may vary by floorplan or optional equipment. Some plumbing components may be located in other compartment(s) and may not be mentioned in this article or labeled in the graphic.

(1) Drain Outlet and Cover: The drain outlet is used to attach a 4" sewer hose, and the drain cover is used to prevent leakage of waste material. Make sure the drain cover is securely installed on the drain outlet unless actively dumping the tanks via a 4" sewer hose.

(2) Drain Outlet Gate Valve with T-Handle: The drain outlet valve allows the tank(s) to be dumped via a 4" sewer hose when macerator use is not desired or operable. Open the valve all the way by pulling on the T-handle to allow waste to flow through a 4" sewer hose. Close the valve by pushing on the T-handle.

(3) Exterior Shower: An exterior shower faucet with a wand can be used to rinse off shoes and/or feet, bathe a pet, wash your hands, or rinse off the sewer hose after dumping the waste water tanks. When finished using the exterior shower, shut off both the hot and cold valves. Do not simply shut off the valve on the shower head itself, as it may cause hot and cold water to mix at the exterior shower and could allow drastic changes in water temperature throughout the coach.

(4) Fresh (City) Water Connection via Hose Reel: This potable water connection is used in conjunction with the Fresh Water Fill Valve for a number of purposes, including pressurizing the plumbing in the coach and filling the fresh water tank. Connect the coach to the potable water source via the hose reel.

(5) Fresh Water Hose Channel: This channel prevents the compartment door from crushing the potable water hose when the door is closed.

(6) Fresh Water Tank(Not Shown): This tank is used to hold fresh potable water for use throughout the water system and is usually located on the floor of the water compartment; however, some coach floorplans may be equipped with a water tank located in another compartment. The fresh water tank is filled from the city water connection with a hose or hose reel via the fresh water tank fill valve or auto fill system. This tank may be located behind a panel, cover, or the macerator and may not be visible from the outside.

(7) Fresh Water Tank Fill Valve: The rotating fresh water tank fill valve is used to pressurize the fresh water system in your coach, as well as to fill the fresh water tank when the coach is connected to city water. With pressurized water supply connected, simply rotate the valve to the desired position:

- Manual fill position fills the fresh water tank when connected to a pressurized water source
- Auto fill position supplies pressurized water to the coach on demand from the city water connection and, if the auto fill function is enabled on the coach's tank monitoring system (i.e. Silverleaf, KIB, or Digi-Level), fills the fresh water tank to match the auto fill settings.

(8) Fresh Water Tank Low Point Drain: The fresh water tank low point drain is used to empty the fresh water tank. Open the low point drain valve to drain the fresh water tank, and close the low point drain valve when filling the fresh water tank or storing fresh water in the tank. This low point drain is located near the fresh water tank and may be difficult to see from the outside. It is often located just behind the lip of the white drain pan when the fresh water holding tank is located in the main water compartment. When the fresh water holding tank is located outside of the main water compartment, the fresh water tank low point drain is typically near it.

(9) Fresh Water Tap: The fresh water tap provides a connection for an additional hose hookup for access to potable water. Use the water tap to water plants, fill a pet's water bowl, or wash the coach while still having access to the city water connection. If not connected to a pressurized water source, the water pump must be turned on to use the water tap.

(10) Hot and Cold Low Point Drains: Typically the coach has one hot water low point drain and one cold water low point drain, which are used to empty the water lines. Open the valves to relieve water pressure and drain the water lines. Close the valves for normal operation of the pressurized water system.

(11) LED Light Strip: Some lights are operated automatically via a plunger switch that activates the lights when the compartment door is opened.

(12) Oasis Heat Exchanger: The Oasis heat exchanger is used to heat the water compartment in order to keep the bay temperature above freezing. This exchanger may be located behind a panel or cover and may not be visible from the outside.

Note: Power must be supplied to the Oasis system and the system must be turned on via the control panel or SilverLeaf coach management system in order for heat to be provided to the water compartment. Once both conditions are met, the thermistor will turn the heater on once the compartment falls to approximately 40 degrees.

(13) Sani-Con Discharge Hose Shutoff Valve: The Sani-Con small hose shutoff valve is used to shut off the waste flow to the macerator drain hose. This valve can be shut off when using a 4" gravity drain hose and/or to prevent pressure and waste in the small macerator hose when not in use or in the event that it develops a leak. This valve must be open prior to turning on the macerator when emptying the holding tanks via the macerator drain hose. Open the valve all the way by pulling on the T-handle to allow waste to flow through the small macerator hose. Close the valve by pushing on the T-handle.

(14) Sani-Con Macerator Discharge Hose: The Sani-Con macerator discharge hose is used to direct the effluent to a sanitary dump station.

(15) Sani-Con Waste Disposal Switch: The Sani-Con waste disposal switch is used to turn the coach's macerator on and off. The switch should not be turned on until the small macerator discharge hose is connected to a proper dump station, the small hose shutoff valve is opened, and the black (sewage) or gray (waste) holding tank dump valve is opened.

(16) Sewage (Black) Tank (Not Shown): The black tank is generally for sewage waste from the stool. It is typically located between the frame rails in the water compartment. This tank may be located behind a panel or cover and may not be visible from the outside.

(17) Sewage (Black) Tank Dump Gate Valve with T-Handle: In conjunction with the sewage holding tank, the sewage tank dump valve provides adequate and safe storage and/or controls the disposal of waste materials. Open the black tank gate valve all the way by pulling on the T-handle. The tank will start to drain to the macerator or drain outlet as soon as the T-handle is pulled. The 4" drain line or macerator hose should be used to direct waste to the dump station for proper disposal.

(18) Sewage (Black) Tank Rinse Connection: When draining your sewer tank, attach a water hose to the sewage tank rinse connection. After the tank is drained, leave the gate valve open, and open the water valve to the attached hose, allowing water to spray inside the sewage tank for several minutes to flush and rinse the tank.

(19) Sewage (Black) Tank Rinse Low Point Drain: On coaches equipped with sewage tank rinse low point drain(s), turn the tank rinse drain valve to the "open" position to remove pressure and drain the tank rinse line. When finished using the tank rinse, it is recommended to turn off the water supply to the tank rinse connection. Open the valve, and drain off the pressure in the line before disconnecting the water hose.

(20) Sewer Hose Hatch (Access Port): The sewer hose hatch is a removable cover that allows the sewer hose or the small macerator hose to exit through the compartment floor in order to connect to a proper dump station. This allows the compartment baggage door to close without hindrance from the hose. The cover may be threaded or clipped.

Note: When routing the sewer or macerator hose through the hatch, do not place on or near the Oasis, generator, or engine exhaust pipes. Otherwise, damage may occur.

(21) SilverLeaf HMS404 Tank Monitor Touchscreen Display: The SilverLeaf HMS404 tank monitor display allows the user to operate the water pump or auto fill function, as well as many other features. For more information, refer to the operation and settings outlined in the SilverLeaf Touchscreen Guide specific for the coach model and year. This guide can be located in Newgle.

(22) Waste (Gray) Water Tank (Not Shown): The gray water holding tank is typically located in the underbelly of the coach, sometimes on top of the fresh water tank. It is primarily used for the drainage from the kitchen and bath sinks, shower, and the washing machine (if equipped). This tank may be located behind a panel or cover and may not be visible from the outside.

(23) Waste (Gray) Water Tank Dump Gate Valve with T-Handle: In conjunction with the gray (waste) water holding tank, the gray (waste) tank dump valve provides adequate and safe storage and/or controls the disposal of waste water. Open the gray (waste) gate valve all the way by pulling on the T-handle. The tank will start to drain to the macerator or drain outlet as soon as the T-handle is pulled. The 4" drain line or macerator hose should be used to direct waste to the dump station for proper disposal. Newmar recommends dumping and flushing the gray (waste) water holding tank after the black (sewage) holding tank.

(24) Waste (Gray) Water Tank Rinse Low Point Drain: On coaches equipped with gray (waste) tank rinse low point drain(s), turning the tank rinse drain value to the "open" position will remove pressure and drain the tank rinse line. When finished using the tank rinse, it is recommended to turn off the water supply to the tank rinse connection. Open the value, and drain off the pressure in the line before disconnecting the water hose.

Note: Not all coaches are equipped with gray tank rinse.

(25) Waste (Gray) Water Tank Rinse Connection: When draining your gray (waste) tank, attach a water hose to the gray (waste) tank rinse connection. After the tank is drained, leave the gate valve open, and open the water valve to the attached hose, allowing water to spray inside the gray tank for several minutes to flush and rinse the tank.

Note: Not all coaches are equipped with gray tank rinse.

(26) Water Pump with Filter: When not connected to city water, the coach's water pump is used to pump and pressurize water from the fresh tank for distribution through the hot and cold water lines. When activated, the water pump will automatically turn on and off to maintain proper water pressure in the coach.

(27) Whole House Water Filter: The whole house water filter system uses a replaceable extruded carbon filter cartridge to remove sediment and certain impurities from the incoming water supply. This filters the fresh water as it is brought in to the coach from the city water connection through the hose or hose reel.

(28) Winterizing and Antifreeze Inlet Valves (A and B): The winterizing valves are only used during the coach winterization process. To determine proper valve positioning throughout the process, follow the posted instructions in the coach water compartment for the A and B valves. These valves may be located outside of the main water compartment on some coaches.

Water Compartment Heating: Oasis Operation via SilverLeaf Touchscreen

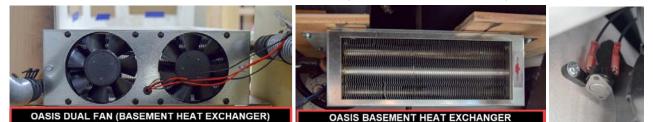
This article provides an overview of the water compartment heating via the Oasis system on coaches equipped with a SilverLeaf Coach Management System.

MIMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Oasis Hydronic Heating Basement Heat Convector(s)

Coaches with Oasis Hydronic Heating will have a heat exchanger, dual fans, and a designated thermostat. The basement heat is activated by a separate fixed thermostat in the basement area when the compartment temperature falls below approximately 40 degrees Fahrenheit. If this happens, the hot antifreeze solution in the Oasis system will circulate, and the blower will turn on to supply heat in the basement/water compartment area. The Oasis system must be turned on and the fluid must be above the low-temperature cutout for heat output.



Oasis Operation via SilverLeaf

The Oasis System must be turned on from the SilverLeaf touchscreen, and the water temperature in the Oasis System must be up to temperature for the basement heat to work.

MPORTANT

The basement heat only works when the furnace (Oasis System) is activated. It will NOT function if the Oasis System is off and the coach is being heated via the roof air conditioner heat pumps.

FRESH WATER SYSTEM

The Fresh Water System consists of the fresh water holding tank, water pump, valves, connection hoses, and fresh water plumbing lines. This system is responsible for providing potable water for drinking, cooking, bathing, and all other activities that require clean water.

The fresh water system begins with a hose or hose reel, which provides the connection to the fresh potable water. Then, via the fresh water valve, the water is diverted through the coach to be distributed through the cold water plumbing lines to the fresh water holding tank or to the cold water connections of each faucet and the water heater. From the water heater, the water is then dispersed through a series of water lines to each faucet on the hot water inlet and the hot water spigots (if equipped).

Fresh Water Connection via Hose Reel Overview

This article provides a basic overview of the fresh water connection via a hose reel.

Located in the water compartment, the city water connection is made with a white hose approximately 35 feet in length wrapped on the reel. In conjunction with the "Fresh Water Fill Valve," this water source is used for several purposes, including pressurizing the plumbing in the coach and filling the fresh water tank.



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.



The hose reel deploys manually by pulling the hose outward from the compartment. Once the desired length of hose has been extended, hook up the hose to a potable water source. A switch located on the side of the hose reel requires activation for power retraction.

Note: The house battery disconnect must be turned on for the power hose reel to be operated.

The fresh water system in the coach is designed to operate at a maximum of 60 PSI. Water pressure levels above this level can damage the fresh water plumbing in the coach. If the water pressure ever surpasses 60 PSI, a pressure regulator must be installed to reduce the incoming pressure, or fill the fresh water tank and use the internal water pump to supply water to the coach.

Connect the hose from the coach to the city water supply (if equipped with a hose reel). Turn on the supply valve at the water source, and open each of the faucets to remove any air pockets in the coach plumbing lines. Once the water flows freely, close the faucet(s).

To disconnect from the city water supply, close the valve from the water supply. Release the pressure by rotating the fresh water valve to the tank fill position. Remove the hose from the city water supply, and store it in the water compartment. Once the pressure is relieved, rotate the fresh water valve to the appropriate operating position.

Fresh Water Lines and Low Point Drains Overview

This article provides a basic overview of Fresh Water Lines and Low Point Drains.

Fresh Water Lines

Fresh water lines are used to distribute potable water throughout the coach. The hot water lines are typically red in color or translucent with red lettering. The cold water lines are typically blue in color or translucent with blue or black lettering.

lettering.

The hot and cold plumbing lines connecting slideout-

installed components, such as the kitchen sink and other optional equipment utilizing the coach water supply, are typically hard-plumbed within the slideout. To ensure flexibility, a braided hose connects the rigid plumbing from within the slideout to the rest of the plumbing in the coach. This hose easily moves with the slideout as it extends and retracts. The plumbing lines are normally tied to the flexible drain pipe and extend and retract smoothly as the slideout travels.

Heated Fresh Water Lines

Fresh water lines located beneath the slideout floor are typically heated to prevent freezing (i.e. refrigerator water supply). The water lines are routed in the heated water bay and inside the heated living area as much as possible. Heated fresh water lines are typically used on floorplans with bath fixtures or a refrigerator containing an ice maker or water dispenser located in a slideout.

Heated water lines are used to connect the plumbing from the basement area to the refrigerator where the water lines are exposed under the slideout. The 12 volt power to the heated water line is usually fused in the cord compartment fuse panel in diesel coaches and on the firewall fuse panel on gas coaches.

Water Distribution Manifold and Inline Water Valves



Some coaches may be equipped with a water distribution manifold that allows water to be shutoff to individual water lines. For more information, refer to Newgle.

Some coaches may incorporate inline water valves on some water lines which may include the water spigot to the generator area or other non-heated compartment bays, ice maker water lines, and/or inline water filters. The valve(s) could be located various places depending on the coach year, model, and floorplan (i.e. under the kitchen sink, under the dinette booth, in the false pantry floor bottom, under the couch, or in the basement).



Hot and Cold Low Point Drains

Low point drains are normally located in the water compartment and are marked "Low Point Drains." Some valves are mounted in the water control panel and others are placed close to the water compartment and marked with a sticker nearby. Typically the coach has one hot water low point drain and one cold water low point drain, which are used to empty the water lines. Open the valves to relieve water pressure and drain the water lines. Close the valves for normal operation of the pressurized water system.

On coaches equipped with tank rinse low point drain(s), turning the tank rinse drain valve to the "open" position will remove pressure and drain the tank rinse line. When finished using the tank rinse, it is recommended to turn off the water supply to the tank rinse connection. Open the valve, and drain off the pressure in the line before disconnecting the water hose.



Preventing, Stopping, and Repairing Plumbing Leaks

IMPORTANT

In the event of a water leak, immediately shut off the water pump and/or disconnect the coach from the pressurized water source. Open the low point drains in the water compartment. This will relieve pressure and allow time to locate the leak and/or a shutoff valve (if the coach is equipped).

Poor or improper winterization may cause leaks, and/or vibration and flexing during travel can cause pipes and fittings to work loose. Follow this checklist to prevent or repair any plumbing leaks:

- Check all of the plumbing connections for leaks yearly.
- If the water pump runs when all faucets are turned off, check for a leak.
- Be sure the drain valves are closed.
- Tighten any loose faucet connections with a wrench.
- Disconnect the leaking connections completely, and check for mineral deposits or foreign material on the sealing surfaces. Clean the surfaces thoroughly, and reinstall the fitting.

MPORTANT

Plumbing repairs should be performed by an authorized service center, followed by a pressure test.

Fresh Water Tank and Drain Overview

This article provides a basic overview of the fresh water tank and drain.

Fresh Water Tank and Fill Valve

The fresh water tank is used to hold fresh potable water for use throughout the

water system and is usually located on the floor of the water compartment; however, some coach floorplans may be equipped with a water tank located in another compartment. The fresh water tank is filled from the city water hook-up with a hose or hose reel.



The fresh water fill valve located in the water compartment near the water hook-up determines whether the city water is going through the water system or into the fresh water tank. The excess water will be vented from an overflow vent pipe onto the ground when the tank capacity has been reached. This pipe is installed in the fresh water tank to prevent tank rupture from overfilling. For more information about the fresh water tank fill valves, refer to the Fresh Water Valve Overview in Newgle.

Fresh Water Tank Drains

Fresh water tank drains are located a few inches in front of or beside the fresh water tank and are connected to the fresh water tank with a 1/2" or 1" water line. Whenever possible, drain the fresh water tank before traveling or only carry what you will need to get to your destination, as water in the tank will reduce the carrying capacity of the coach. All of the water should be drained from the fresh water system when the coach is not in use for more than one week to prevent stagnant water and reduce organic growth.

WARNING

Potable water only. Sanitize, flush, and drain water tank before using. Failure to maintain tank can result in death or serious injury.

To drain the fresh water tank, open the low point drain valve located near the fresh water tank. The following images are example fresh water tank drain configurations.



Fresh Water Valve Overview

The article provides a basic overview for the fresh water valve in a coach.

The rotating Fresh Water Valve (Tank Fill) located in the water compartment is used to pressurize the fresh water system in your coach, as well as to fill the fresh water tank when the coach is connected to city water. The valve position determines whether the water supply fills the tank or pressurizes the fresh water system in the coach. Simply rotate the valve to the appropriate position to perform the desired function.



MIMPORTANT

If you leave this valve in the manual tank fill position, you may experience low water pressure while operating the water pump.

Auto Fill

For coaches equipped with an Auto Fill function, the coach must be connected to a pressurized water source and have the Fresh Water Valve in the "Auto Fill" position. In addition to turning the valve, the coach must also have the Auto Fill function enabled within the tank monitoring system. This function is used to automatically fill the fresh water tank and shut off the water supply based on the tank levels. The system will turn on the Auto Fill valve when necessary and turn it off when the tank reaches capacity.

Both the Precision Circuit Digi-level and the KIB TMSC-100 systems control the electric auto fill valve via the monitor panel in an overhead panel and are fused in the 12 volt house fuse panel. The KIB TMSC-100 system's circuit board is typically located in the shore cord compartment, and the Digi-Level does not use a separate circuit board.

The SilverLeaf system allows the Auto Fill feature to be activated via the touchscreen or the SPX-300 panel located in the water compartment. It is controlled by the TM102 module and uses the fuse panel and relay board typically located in the shore cord compartment. For more information about the coach's tank monitoring system, refer to the sub-category within the Electronics section.

City Water Connection

Before connecting to your coach, use a potable water source to purge any remaining air and stale water in the hose. Then, connect the hose from the potable water source to your coach or the hose from your coach to the city water supply (if equipped with a hose reel). Turn on the supply valve at the water source, and open each of the faucets to remove any air pockets in the coach plumbing lines. Once the water flows freely, close the faucet(s).

Water Pump

The water pump is used to pressurize the fresh water system when the unit is not connected to city water. The city water supply is under pressure, so the water pump is not necessary while you are connected to city water. Once the city water fill valve is not in the manual fill position, the water is supplied to the fresh water system components, including the hot water heater and faucets.

To disconnect from the city water supply, close the valve from the water supply. Release the pressure by rotating the fresh water valve to the tank fill position. Remove the hose from the city water supply, and store it in the water compartment. Once the pressure is relieved, rotate the fresh water valve to the appropriate operating position.

MPORTANT

Use a water hose manufactured and labeled for potable water to ensure that the hose is drinking water-safe and will not alter the taste of the water.

FRESH WATER RECLAMATION SYSTEMS

2025 New Aire Aqua View Fresh Water Reclamation System Overview

This article provides basic operation instructions for an Aqua View (SinkMi\$er, ShowerMi\$er) Fresh Water Reclamation System as it is installed in 2025 New Aire diesel pusher coaches.

NOTE FROM NEWMAR

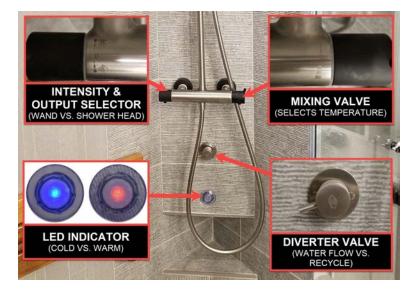
The exact system setup will vary by year, model, floorplan, and faucet style.

How the Fresh Water Reclamation System Works

Coaches equipped with an Aqua Miser Fresh Water Reclamation System have the ability to conserve water and grey tank capacity. This system is especially useful when dry camping.

By using water in the system supplied by the pump or pressurized water from a city water connection, this system allows you to redirect or recycle the cold water back into the fresh water tank before it comes out of the shower head. This water would normally go down the drain, filling up the gray water tank and wasting the fresh water supply.

Once the water is warm, the system's LED indicator light will let the user know when it is time to adjust the diverter in order to allow water to freely flow from the shower. If you use the diverter valve to stop water flow during the shower once the indicator light turns red, you are diverting hot water to the fresh tank.



A CAUTION

If the coach is connected to a pressurized water source while the diverter valve is in the recycle position, this may cause the fresh water tank to overflow.

PLUMBING

Aqua View Operation

To shower while dry camping, follow these steps:

 Press the Aqua Miser LT button on the LCD touchscreen. The LED indicator light will turn blue inside the translucent mushroom cover when the water temperature is cold.



- Place the Aqua Miser lever in the "recycle" position. This will divert the water back to the fresh tank instead of wasting the water and filling the grey tank. The blue LED light will turn off and the red LED will turn on when the water gets hot.
- 3. When the light turns red, the system is ready for final shower temperature adjustments to be made. Turn the diverter valve back to the water flow position.
- 4. Turn the shower mixing valve (rotating knob on the right side of the shower pipe) until the desired temperature has been reached.
- 5. To alternate between the wand and shower head, use the rotating knob on the left side of the shower pipe. This knob also selects the water output intensity.

Aqua View and Auto Fill

MPORTANT

If left in the diverted/recycle position while the coach is connected to city water, the Aqua Miser system will continue to add water to the tank if the fresh water fill valve in the water compartment is turned to the auto fill or auto city supply position. Adding water to the fresh tank in this manner is unregulated and may cause the fresh tank to overflow, which may make the auto fill system appear as though it is malfunctioning.





Winterizing the Aqua View Fresh Water Reclamation System

This article provides additional winterization instructions relevant to coaches equipped with an Aqua View Shower Miser Fresh Water Reclamation System. This information should be used in conjunction with the coach winterization process as written in Newgle.

- 1. Cycle the valve to the recirculate position to purge the water out of the line back to the fresh water tank while pressurized air supply is connected.
- 2. Place the valve back to normal flow mode to the shower head.
- 3. Then purge the shower.
- 4. Run RV antifreeze through the shower system.

Ensure shower miser valve is not set to recirculate to potable water tank before winterizing.

MPORTANT

Do not leave the valve in bypass mode when running antifreeze in the line because it will allow antifreeze into the fresh tank.

Domestic Hot Water via Oasis Hydronic Heating

This article provides a basic overview of domestic hot water via the Oasis hydronic heating system.

Oasis Controls

The hot water in your coach is heated by the Oasis hydronic heating system. To operate an appliance that uses hot water, or to assure plenty of hot water for showering, turn on the boiler or heating elements using the appropriate control panel (depending on coach year and model):

- the KIB 10.1" Central Monitor Capacitive Touch Panel (2024 and newer coaches) OR
- the SilverLeaf Touchscreen

For more information about the control panel installed in a coach, refer to the product pages and knowledge articles in Newmar's owner's guide or in Newgle.

Both heat sources (diesel burner and heating elements) can be used at the same time for the maximum water heating capability. Turning only the 120 volt heating element(s) on will usually provide sufficient hot water for most household chores, but may not be sufficient for showering.

The diesel burner is the primary heat source with at least 50,000 BTU (more on select Oasis models), and the electric elements are secondary. Depending on your hot water usage, using only the electric elements may be sufficient; however, if not, use the diesel burner when not plugged into shore power or in conjunction with the electric elements.

Potable Hot Water Capacity

	CH50	NE-S	CHINOOK
BTU	50,000	85,000	50,000
Maximum Water Temperature (at incoming water temperature of 60°F)	120°F	120°F	120°F
Gallons Per Minute (GPM)	1.5	3.0	1.5

WATER PUMPS AND CONTROLLERS

Water Pump Operation and Basic Troubleshooting

This article provides basic operating instructions and troubleshooting tips for a water pump.

Overview

The water pump is self-priming and totally automatic, operating on demand whenever water is required. When not connected to city water, the coach's water pump is used to pump and pressurize water from the fresh tank for distribution through the hot and cold water lines.

When the water pump switch is turned on, the water pump builds pressure in the system and will shut off as soon as the system is correctly pressurized. When a faucet is opened, the pump will turn on and operate as necessary to maintain the preset pressure in the system. Water pump operation is not necessary while the coach is connected to city water, since the potable water is already pressurized.

When using water at a low flow rate (GPM), the pump may pressurize the system and short cycle, meaning the pump shuts on and off quickly. In many cases, the pump will stop short cycling if the flow rate of the water is increased.

Operation

- 1. Fill or partially fill the fresh water supply tank.
- 2. Open the kitchen and bathroom faucets.
- 3. Turn the water pump switch on, and allow the water to fill the water line and the hot water heater. The switch to this pump may be located in the exterior water compartment, in the kitchen, or in the bathroom.
- 4. Close each faucet after it delivers a steady stream of water (close the cold water first). Leave the hot water faucets on until they also deliver a steady stream of water. This will ensure that the water heater is filled with water.
- 5. The water pump should stop running once all faucets are closed.
- 6. The pump is now ready for automatic operation. The pump will run when a faucet is opened and stop when a faucet is closed and the correct pressure has been reached.

A CAUTION

Never allow the pump to run for long periods of time without water in the supply tank, as pump damage or blown fuses may result.

Care and Maintenance

All of the water should be drained from the fresh water system when the unit is not in use for more than one week.

Troubleshooting

If water doesn't flow when a faucet is turned on while using the demand system, use the following troubleshooting tips.

If the pump is running, but there is no water:

- Fill the tank.
- Clear the water line to the pump or the pump inlet filter.
- Rotate the city water / tank fill valve to the correct position.
- Make sure the winterizing valve(s) are not in the winterizing position(s).

If the pump isn't running:

- Check the pump switch.
- Check the 12 Volt fuses.
- Check the electrical connections.
- Check the battery.

2025 KIB L-Panel LCD Capacitive Touch Panel Guide: Systems

The Systems button on the KIB L-Panel LCD Capacitive Touch Panel (4C-5.0) displays the controls for the water pump, heater, generator, Aqua Miser, TV lift, and/or theatre mode. This vertical touch panel is only installed on coaches also equipped with a SilverLeaf touchscreen.

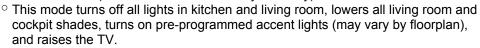
IMPORTANT

The Capacitive Touch Panel is customized by KIB and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary from what is shown, but the operation of the panel is the same.

Touch the SYSTEMS button. Then select which system you wish to control. Once a button is touched, it will turn red, indicating the selected system is active. The buttons are gray while the system is inactive.

The available buttons will vary by coach model and floorplan, as well as installed options, may include, but are not limited to:

- WATER PUMP
- HEATER (Turns the fan blower on and off)
- TV LIFT UP
- TV LIFT DOWN
- GENERATOR START/STOP
- AQUA MISER LT
- THEATRE MODE (Select coach models and years only)



IMPORTANT

Lower the television lift completely for travel to prevent damage to the television and surrounding equipment.

Televator control switches and touchscreen buttons should be pressed and immediately released. Do not continue to hold the UP or DOWN switch or button, as this may cause the television lift to enter into programming mode. If programming mode is reached, refer to the re-calibration article in Newgle for more information.

2025 SilverLeaf Touchscreen Guide: Water

The Water screen displays information about the water tanks, auto fill, and water pump.

IMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).



© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle



The Water screen displays the fresh and holding tanks volume (as a percentage-full status), tank-related faults (if any), as well as the controls for the water pump and auto fill functions. If the coach is factory-equipped with an LP tank, it will display beside the tank levels.

Water Pump Button

Press the water pump button to turn the water pump on and off to direct water from the fresh tank through the coach's plumbing system. The display will read ON or OFF.

Auto Fill Button

Press the auto fill button to turn the fresh water tank auto fill function on and off. The display will read Auto, Ready, or Filling. This function will allow the fresh tank to automatically fill with water based on the parameters set in the Auto Fill Advanced Configuration screen. The auto fill will begin at 90 percent and stop when it reaches 100 percent, as set at the Newmar factory.

Note: This action requires the coach to be connected to a pressurized water supply, and the auto fill feature must be enabled.

TopOff Now

The Topoff Now function allows the fresh tank to automatically fill with water when the button is activated.

Note: This action requires the coach to be connected to a pressurized water supply.

SilverLeaf HMS404 Touchscreen Display Guide: Water

This article provides a brief overview of the Water Screen on the SilverLeaf HMS404 Touchscreen Display typically located in the water compartment.

MIMPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

Buttons/Functions

Press the Water button to view the Water page in order to turn the water pump or the auto fill function to ON, OFF, or TOP OFF. When turning on Auto Fill, the screen will flash "On+Ready."



Water Pump Button

Press the water pump button to turn the water pump on and off to direct water from the fresh tank through the coach's plumbing system. The display will read ON or OFF.

Auto Fill On/Off Button

Press the auto fill button to turn the fresh water tank auto fill function on and off. The display will read Auto, Ready, or Filling. This function will allow the fresh tank to automatically fill with water based on the parameters set in the Auto Fill Advanced Configuration screen. The auto fill will begin at 90 percent and stop when it reaches 100 percent, as set at the Newmar factory.

Note: This action requires the coach to be connected to a pressurized water supply, and the auto fill feature must be enabled.

Topoff Now Button

The Topoff Now function allows the fresh tank to automatically fill with water when the button is activated.

Note: This action requires the coach to be connected to a pressurized water supply.

FAUCETS AND FIXTURES

Faucets and Fixtures Overview

Your installed bathroom and kitchen faucets and fixtures are available in many styles, finishes, and configurations, often complementing the other fixtures in your coach.

With proper maintenance, the faucets in the coach should provide years of trouble-free usage. The faucets and fixtures can be cleaned by wiping with a soft, damp cloth. Washing with warm water will remove dry water spots. Turn off the water and drain the pressure before attempting repair or replacement of the faucet.

MPORTANT

Avoid using "S.O.S." type cleaning pads or other abrasive cleaners because they may scratch the surface. Do not use cleaners that contain harsh or abrasive chemicals. Alcohol or similar solvents should never be used.

Hot Water Spout in the Front Generator Slideout Overview

This article provides an operational overview of the hot water spout in the front generator slideout. This spout may be standard equipment on most diesel pushers and optional on other diesel pushers.

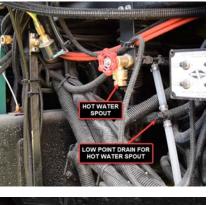
Hot Water Spout Operation

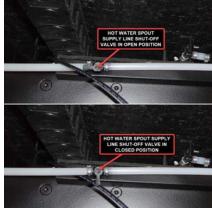
- 1. Make sure the fresh water tank has water in it. Make sure the water pump is turned on or the coach is connected to a pressurized potable water source.
- 2. Turn off the low point drain near the spigot (if in the open position), and turn on the valve in the lower compartment area (typically located near the frame rail).
- 3. Hook up a garden hose, and use the water as desired.
- 4. If you exceed the gallons per minute (GPM) rating of the hydronic heater, you will run out of hot water until the system has enough time to recoup and heat more water.

Cold Weather Use

- 1. Do not forget to winterize this line while following the directions in Newgle for winterizing the coach.
- 2. Once you have completed the winterizing procedure, you may close the valve in the lower compartment and open the low point drain near the hot water spout to relieve pressure to ensure it cannot freeze.

Note: If you plan to drive in cold temperatures without the rest of the coach winterized, simply close the supply line shut-off valve located in a basement compartment and open the low point drain near the hot water spout. This will shut off the water supply to the hot water spout and prevent it from freezing in cold temperatures.





FILTERS

Clean Liquid Master CTO Whole House Water Filter with Clear Canister Quick Start (Model: CLM2)

This article provides basic instructions for replacing a Clean Liquid Master CTO Whole House Water Filter (Model: CLM2). Your coach may be equipped with a fresh water filtration system, which uses extruded carbon filter cartridges to remove sediment and certain impurities from the incoming water supply. The filter assembly is located in the basement water compartment.

Overview¹

The Clean Liquid Master 2 CTO Premium Filter absorbs colors, odors, residual chlorine and organic substances in water and improves the taste. This product is only suitable for municipal tap water. In areas where the water pressure is higher than 0.4MPa, please install a pressure-reducing valve at the water inlet. The specific replacement cycle varies according to the water quality and water consumption in different places.

Purchasing a New Filter

Replacement filter cartridges are available through the Newmar parts department. For parts inquiries, refer to the NewPar (formerly ComNet) parts catalog or contact the parts department at 1-800-731-8300 (select the appropriate menu option).

Replacement Cycle

Most water filter manufacturers recommend that you replace your water filters every six months. These guidelines are based more on average household size and average consumption rates rather than your specific coach. The frequency of filter changes depends upon your water usage and the quality of water you are using. As you travel and hook up to different water sources some may contain more sediment, metals, sulfur, and other impurities, which affect the filter life, as well as the taste and smell of your water. Other factors are how often it is used and how long it has been stored.



Change the filter at least every six months and at any time you notice decreased water flow or notice an unpleasant taste, odor, or algae after flushing and sanitizing the water system. Water filters and fresh water system maintenance are the customer's responsibility to ensure safe potable water.

Replacing the Filter

- To replace the filter cartridge, turn off the water supply to the coach at the city water connection, or turn off the water pump if using potable water.
- Drain the water pressure off the system by opening a faucet or low point drain, and press the red button on top of the filter housing.
- Unscrew the filter canister by rotating to loosen and remove it. If the blue Anti-Rotation Safety lock has been installed and engaged to prevent the filter housing from unscrewing, remove it by pulling up on the lock.
- Insert the new filter cartridge, positioning it so the opening in the bottom of the filter is placed on the molded ring at the bottom of the canister.

A CAUTION

When replacing the filter, make sure the rubber O-Ring seal is properly positioned in its groove in the cartridge housing. An improperly positioned or missing seal will cause leakage around the perimeter of the filter housing.

- Reattach the canister to the filter housing by rotating the canister until it's tight. Do not over-tighten the canister when attaching it back to the housing.
- If the blue Anti-Rotation Safety lock was previously installed, line it up and re-engage it to prevent the filter housing from unscrewing.

¹Winterizing Instructions

🛦 IMPORTANT

DO NOT ALLOW FILTER HOUSING TO FREEZE!

NOTE FROM NEWMAR

Do not allow water to freeze in the water filter canister. Freezing will crack and permanently damage the filter housing and associated plumbing. Always remove the filter cartridge prior to winterization.

- 1. Remove the filter cartridge before using anti-freeze to winterize the system.
- 2. Reinstall the empty housing back on the cap.
- 3. Proceed to winterize coach.
- 4. Flush housing thoroughly before it is put back into service after winterizing.
- 5. For best results, replace the cartridge seasonally.
- 6. Flush the new cartridge for approximately 2 minutes to remove any carbon particles.
- 7. Do not use carbon cartridges where water is microbiologically unsafe or of unknown quality.
 - 1. Maximum operating pressure is 100PSI/0.7Mpa
 - 2. Maximum operating water temperature is 100°F/38°C

Source(s): ¹Water Filter Label and CLM Website: https://clm-products.com/documents

POWER WASHERS, SPRAYERS, AND EXTERIOR SHOWERS

Exterior Shower Overview

An exterior shower located in the water compartment on the driver side may be an optional feature on your coach and can be used to rinse off sand or grass, muddy shoes, or bathe a pet outside of the coach. The exterior shower may also be used to wash your hands or rinse off the sewer hose after dumping the waste water tanks.

The faucet operates just as it would in the kitchen or bathroom. When finished using the exterior shower, shut off both the hot and cold valves. Do not simply shut off the valve on the shower head itself, as it may cause hot and cold water to mix at the exterior shower and could allow drastic changes in water temperature throughout the coach.



WASTE WATER SYSTEM

There are two separate waste systems: the gray tank system and the black tank system, which includes sinks, lavatories, showers, tubs, and toilets. Each tank has its own control valve, and both tanks drain through the sewer drain hose. The waste water system catches and contains the used water and divert the waste water through the traps and drain lines to the grey or black holding tank(s). It is then stored until the tanks are emptied using a sanitary drain or dump station.

Sinks, Tubs, and Showers Overview

This article provides an overview and care and maintenance recommendations for sinks, tubs, and showers. The sink and shower are the beginning of the waste water system. The basic purpose is to contain the used water so it can be drained via the attached waste water drain line to the holding tank.

Care and Maintenance

The maintenance requirements for sinks and the shower are on an as-needed basis. Occasionally, the attached drain and trap may need to be cleaned of soap scum and hair to maintain efficient drainage. The basins and shower walls can be cleaned to maintain the original luster. Clean the entire surface, including the exterior, of the lavatory and kitchen sinks and shower with mild soap and warm water. Wipe the entire surface completely dry with a clean, soft cloth.

🛦 IMPORTANT

Avoid using "S.O.S." type cleaning pads or other abrasive cleaners because they may scratch the surface. Do not use cleaners that contain harsh or abrasive chemicals. Alcohol or similar solvents should never be used.

Follow these tips to maintain the shower(s) in the coach:

- 1. Make sure the shower doors are closed and latched or locked prior to travel.
- 2. Check for leaks in the shower seals. Reseal them as needed.
- 3. Using a mild detergent and a soft cloth, wipe down the shower walls and glass enclosures after each use to avoid soap scum and hard water deposits.
- 4. When winterizing the coach, clean up any remaining antifreeze in the shower, as it may cause staining.

Waste Water Drain Lines

The drain lines are plumbed from the sinks, showers, and toilets are sloped to drain waste water to the grey or black tank. However, if the coach is equipped with a lift pump, refer to the "Lift Pump" article in Newgle. If the coach is equipped with macerator toilet(s), refer to the toilet article(s).

The drain lines connecting slideout-installed components, such as the kitchen sink and

other optional equipment utilizing the coach water supply, are typically hard-plumbed within the slideout. The hard plumbing from the kitchen slideout connects to the hard plumbing from the tank using a braided drain line to ensure flexibility as the slideout extends and retracts.

The fresh water plumbing lines are normally tied to the flexible drain pipe and extend and retract smoothly as the slideout travels.

P-Trap and Waterless Trap Overview

This article provides an overview and care and maintenance recommendations for traditional and waterless p-traps.

Waterless Traps

Some coach models with a rear shower may have waterless traps in lieu of conventional P-traps. Waterless traps are designed to allow water to drain and to prevent odor from entering the coach without the height requirements of the conventional p-trap. Pressure builds and the self-sealing valve opens as water drains from a fixture. The valve closes to form a tight seal after the water has completely drained from the sink or shower. No routine or seasonal maintenance is required for the waterless trap.

Foreign objects, such as hair, in the trap may allow odor to enter the coach and impede or slow water drainage and require occasional cleaning. When removing the waterless trap for cleaning, the ridges must be down and the direction of water flow must be correct when re-installed.

🛦 IMPORTANT

If standing water occurs in your shower, do not attempt to unplug or open the drain with a coat hanger or a sewer snake. Before taking your coach to a service center, try leveling your coach so that the rear is raised slightly higher than the front. This may correct the condition and prevent drain-cleaning or a service repair. If this does not correct the issue. Newmar recommends taking your coach to a service center for drain-cleaning or repair.



If standing water occurs in your shower, do not attempt to unplug or open the drain with a coat hanger or a sewer snake. Before taking your coach to a service center, try leveling your coach so that the rear is raised slightly higher than the front. This may correct the condition and prevent drain-cleaning or a service repair. If this does not correct the issue, Newmar recommends taking your coach to a service center for drain-cleaning or repair.

damaged.

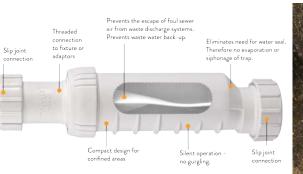
NOTICE

Remove the waterless trap before using mechanical drain-cleaning

AD-123

devices. Waterless trap can be







Traditional P-Traps

The sinks and shower drain have a water trap to prevent holding tank odors from entering the coach. These traps must have water in them in order to trap the odors.

While traveling, the water may leave the P-Trap. While stored, the water may evaporate, allowing an odor to enter the coach. If this occurs, run water from the faucet into the drain, allowing water to fill the trap.

Shower Dispenser Overview

This article provides basic operation instructions for a Shower Dispenser.

Overview

A variety of 2-chamber and 3-chamber shower dispensers are available in select coach models. The chambers left out of the dispenser for easy cleaning and refilling. Each chamber holds approximately 10-11 ounces of soap, shampoo, conditioner, or body wash. Some dispensers include integrated hooks for razors and other shower accessories.

Filling Chambers and Priming Pumps

Fill the chamber(s) with your choice of liquid(s).

Prime the pump(s).

- 1. Push button in.
- 2. While holding the pump button in, place your finger over the spout of the pump to block the airflow up into the pump. This creates a partial vacuum in the pump chamber, when the button is released.
- 3. Keep your finger over the spout and release the pump button.
- 4. Remove your finger from the spout and repeat these steps until you have a continuous flow of liquid. This may take several cycles, especially when using very thick liquids.

Maintenance

Bathroom cleaners can often contain aggressive chemicals and abrasives, designed to clean ceramic and porcelain surfaces. These cleaners are likely to damage, deteriorate or discolor the dispenser. Before using any cleaner, read the list of ingredients on the label. The best method for cleaning the dispenser is with a soft damp cloth.

Source(s): Aviva The Dispenser Soap and Shampoo Owner's Manual

TOILETS

Toilet Overview, Care, and Maintenance

This article provides an overview of toilet operation and care and maintenance. "Go" in style and comfort, no matter where your travels may take you.

Waste Water Drain Lines

The drain lines are plumbed from the sinks, showers, and toilets are sloped to drain waste water to the grey or black tank.

Care and Maintenance

Before using the stool, treat the tank with water that is mixed with an odor-controlling chemical, which is readily available at any RV supply store. Mix as directed on the holding tank chemical package. After mixing and flushing the chemical mixture, the waste tank is ready for use. The stool should be cleaned regularly for maximum sanitation and operational efficiency.



IMPORTANT

Be careful not to spill the chemical on your hands, clothing, or the carpet, as it may cause a permanent stain.

A CAUTION

Use only approved RV odor controlling chemicals in the holding tanks. Do not use chlorine or caustic chemicals like laundry bleach or drain-opening chemicals, as they will damage the seals in the toilet and dump valves. Products containing ammonia and petroleum may damage the ABS plastic holding tanks and seals.

When using your stool, it is wise to fill the bowl 3/4 full of water. This will help to wash the solids away from directly below the stool and to ensure complete dumping of the holding tank. After flushing, a small amount of water should remain in the bowl.

MPORTANT

Before adding water, consult the toilet manufacturer's owner's manual for the specific procedure relating to your system.

To prevent holding tank odors from entering the living space, make sure a small amount of water remains in the toilet bowl.

NOTICE

Residual water trickle in ceramic bowls: Due to integrated rim of this toilet bowl, water may continue to slowly trickle into toilet bowl for up to 20 minutes after flushing. If water trickle continues after 30 minutes, replace the water valve.

WARNING

Do not flush diaper wipes, feminine hygiene products, or any other products that would not be easily liquefied. Also avoid using holding tank deodorant capsules, as they may cause damage to the macerator. Damage resulting from flushing any materials or objects other than organic waste and toilet paper are not warrantable repairs.

Dometic Macerator-Style Toilets with Flush Handle or Switch Quick Start (Model: 8700 Series)

This article provides basic operation instructions for a Dometic Macerator-Style Toilet with Flush Handle or Switch (Model: 8700 Series).

The Dometic 8700 series MasterFlush toilet provides an electric-flush toilet that macerates waste and pumps it to a holding tank or other effluent storage/disposal system using an inline macerator hidden in the base of the toilet.

Operation

Operated by a wall-mounted flush switch or electronic flush handle, the toilet allows the user to add water to the bowl (before using or flushing) and to flush the toilet by pushing a button. The Dometic flush switch panel includes lights to indicate when electric power to the toilet is activated, and when the holding tank (if applicable) is full.

Dometic macerator toilets use a Dometic control module and a wall-mounted flush switch, which can be located in a basement compartment, cabinet, or on the floor (behind the toilet). The module will be located no more than 6 feet from the toilet. The module has power, ground, two tank level warning wires, and a communication cable.

Adding Water to the Toilet Bowl

Press the "Add Water" switch until the desired water level is achieved. The water flow will shut off automatically if switch is pressed too long to avoid overflow. More water is usually added only when flushing solids.

Flushing the Toilet

Press "Flush" switch, then release it. This activates a powerful macerator pump that siphons water and waste from the bowl, macerates, and propels the effluent through the discharge line to the holding tank.



Changing Flush Modes

Dometic 8700 series MasterFlush toilets offer two flush settings to help manage water consumption:

- 1. Normal Flush: Uses 0.85 gallons per flush and adds water to bowl after ever flush.
- 2. Dry Bowl Flush: Uses 0.45 gallons per flush and does not add water to bowl after flush.

To change from Normal to Dry Bowl flush setting, press the "Flush" switch for about five seconds. When the "Power On" light begins flashing, release "Flush" switch. The flush mode has been changed to Dry Bowl setting. Change the mode to Normal flush by following the same procedure.

Indicator Lights

"Power On" Indicator: On the Dometic flush switch panel, as steady green "Power On" light indicates when electrical power to the toilet is activated. A momentary flashing green light indicates when flush mode is changing.

Tank Level Indicator: The flush switch panel includes a bi-color "3/4 Full" (amber) and "Full" (red) Tank Level light to indicate when the holding tank is approximately 75% or 100% full and should be pumped out. When the red light is illuminated, electrical power to the toilet automatically shuts off to prevent overfill of the holding tank.

Source(s): Dometic 8700 Series MasterFlush Macerator Toilet Operation Manual

Waste Water Holding Tanks Overview

This article provides a basic overview of the waste water holding tanks. There are two separate waste systems: the gray tank system and the black tank system. Each tank has its own control valve, and both tanks drain through the sewer drain hose.

The waste drainage system was designed to provide adequate and safe storage and/or disposal of waste materials. The drainage system uses plastic piping and fittings connected to the sinks, toilet, and holding tanks to provide for their drainage to an outside termination. All waste water tanks are vented through the roof and covered with a vent cap. The coach should be reasonably level for best operation of the system.

Some coaches not equipped with Oasis Hydronic Heating may have optional tank heating pads to reduce the risk of tank contents freezing.

Gray Water Holding Tank

The gray water holding tank is located in the underbelly of the coach, sometimes on top of the fresh water tank. It is primarily used for the drainage from the kitchen and bath sinks, shower, and the washing machine (if equipped).



CAUTION

The gray tank valve must be in the open position when operating the optional washing machine.

Black Water Holding Tank(s)

The black water holding tank(s) are generally for sewage waste from the stool. It is typically located between the frame rails in the water compartment directly beneath standard flushing toilets. Macerator-style toilets can be installed away from the black tank.



During normal use, tank buildup may occur on the inside of the tank. How quickly buildup occurs varies from user to user and is affected by many factors such as water hardness, the amount of solid waste, how easily the toilet paper breaks down, how often the tank is dumped, and how well the tank is flushed. When buildup occurs, it may impair the tank sensor's ability to read tank levels properly. Preventive tank maintenance is recommended.

The gray and black tank(s) should be rinsed after dumping and treated with a waste tank additive to help break down and liquefy solid waste and help reduce odors. This chemical is readily available at any RV supply store. Add tank chemicals and the amount of water recommended by the chemical manufacturer. If the coach is equipped with two black tanks, add the chemicals to both toilets.

MPORTANT

Be careful not to spill the chemical on your hands, clothing, or the carpet as it may cause a permanent stain.

A CAUTION

Use only approved RV odor-controlling chemicals in the holding tanks. Products containing ammonia and petroleum will damage the ABS plastic holding tanks and seals.

© 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle.

Waste Water Disposal

This article provides basic instructions for draining the waste water holding tanks.

Both of the holding tanks terminate in a valve arrangement that permits draining each tank separately or together. The valves that open to release the water are called gate valves. The blade that closed the opening in the sewer drain pipes is connected to the T-handle to release the contents of the tank(s) when pulled.

The sewer line must be securely capped during selfcontainment use to prevent leakage of waste material onto the ground or pavement.

Do not pull the holding tank gate valve open, or operate the electric dump valve switch (if equipped) when the protective cap is installed on the pipe. Always drain the tank into an acceptable sewer inlet or dump station.



Keep drain valve closed to minimize the presence of sewer gases. Sewer gases can be present when RV is connected to campground sewage hookup. Can lead to illness or personal injury.

A WARNING

Holding tanks are an enclosed sewer system and must be drained into an approved dump station. Both black and gray water holding tanks must be drained and rinsed thoroughly on a regular basis in order to prevent the accumulation of harmful or toxic materials.



WARNING

When routing the sewer or macerator hose, do not place on or near the Oasis, generator, or engine exhaust pipes. Otherwise, damage may occur.

How to Drain the Waste Water Holding Tanks

The holding tanks should only be drained when they are at least three-fourths full, to provide sufficient water to allow the complete flushing of waste materials in the drain lines and hose. If the tanks are not three-fourths full, add enough water to allow for sufficient flushing. Whenever possible, drain the holding tanks prior to traveling. The carrying capacity of your unit will be reduced if water is left in the black or gray tanks.

To empty the waste water tanks, follow the procedure below, depending on the type of waste system your coach uses. It is recommended to drain the black water tank before the gray water tank. The holding tank valves may be operated via a tank gate valve (t-handle) or an electric dump valve switch (when equipped).

Draining the Waste Water Tanks on a Coach with a Standard Gravity Drain and Dump System

- 1. Connect the adapter to the drain hose.
- 2. Unscrew the drain cap, and connect the hose with the adapter to the drain fitting. Support the hose as needed for optimal flow.
- 3. Open the gate valve all the way by pulling on the T-handle. The tank will start to drain as soon as the T-handle is pulled.
- 4. After you have drained the black water tank, immediately drain the gray water tank, allowing the water from the gray tank to wash the black water residue from the drain lines and hose.
- 5. When both of the tanks are empty, flush them with fresh water before you close the valves. Flush the gray tanks by pouring a couple of gallons of water into a sink drain. The drain outlet is engineered for quick release of the drain hose adapter.
- 6. Always close the gate valves and secure the end cap to prevent leakage while in transit.
- 7. Add a holding tank deodorant to help control the odor and break down the solid waste.

Draining the Waste Water Tanks on a Coach with a Macerator Waste System (Sani-Con)

The Sani-Con macerating waste system provides the following convenient features:

PLUMBING

- Provides a sanitary method for discharging liquid waste from the RV by easily and quickly emptying waste-water from the RV's holding tanks, without relying on gravity.
- The macerating system pumps liquid waste from holding tanks and does not rely on gravity.
- The macerator is designed to process human waste and toilet tissue, making the Sani-Con ideal for black water, as well as gray water, discharges.
- 1. Make sure the black and gray water dump valves are closed.
- 2. Point the hose nozzle upward, and remove the nozzle cap.

MPORTANT

Select coaches equipped with a Sanicon macerator may have a valve to shut off the waste flow to the macerator drain hose. This valve can be shut off when using the

larger gravity drain to prevent pressure and waste in the small hose when not in use or in the event that the small hose develops a leak. However, this valve must be open if you plan to use the macerator drain hose. You must open the valve prior to turning on the macerator.

- 3. Insert the nozzle into the sewer connection.
- 4. Open the gray water dump valve, and run the macerator pump for a few seconds to confirm that the system is operating correctly.

IMPORTANT

If there is a problem with the connection, or if the system is not functioning correctly, the macerator may need to be cleaned or serviced.

- 5. Shut the gray water dump valve, and turn off the pump switch once you have determined that there are no problems.
- 6. Open the black water dump valve, and turn on the macerator pump switch.
- 7. Monitor the tank as it empties. The pump will run louder when the tank is empty.
- 8. Turn off the pump switch once the tank is empty.
- 9. Flush the black tank, and operate the macerator while it is flushing.
- 10. Turn off the flush system, then turn off the macerator
- 11. Close the black water dump valve.
- 12. Add tank chemicals and the amount of water recommended by the chemical manufacturer. If the coach is equipped with two black tanks, add tank chemicals to both via the toilets.
- 13. Drain the gray tank next to help flush out the macerator and sewer hose.
- 14. Open the gray water dump valve.
- 15. Turn on the pump switch.
- 16. Monitor the tank as it empties. The pump will run louder when the tank is empty.
- 17. Turn off the pump switch once the tank is empty.
- 18. Flush the gray tank, and operate the macerator while it is flushing (if equipped).
- 19. Turn off the flush system, then turn off the macerator.
- 20. Close the gray water dump valve.
- 21. Place the cap on the hose and store it.
- 22. Add tank chemicals and the amount of water recommended by the chemical manufacturer.

Camping with Sewer Hook-Up

When camping at parks with sewer hook-up, it is important to keep the black water holding tank gate valve closed at all times, except when dumping. The gray tank can be kept open while hooked to a sewer connection, but the black water tank must be kept closed. This is done so that an ample supply of liquid remains in the tank to provide a smooth flow through the gate and drain valve when dumping.

Sufficient liquid in the tank causes a swirling action that should take any accumulated solid wastes with it. Accumulation of solid wastes in the black water tank can be avoided by keeping the gate valve closed when connected to the sewer hook-up. If the valve is left open, solid wastes may accumulate in the tank. This may eventually result in costly repairs.







SilverLeaf HMS404 Touchscreen Display Guide: Tilt

This article provides a brief overview of the Tilt (Side Tilt Tank Dump Mode) Screen on the SilverLeaf HMS404 Touchscreen Display typically located in the water compartment.

MPORTANT

The SilverLeaf touchscreen is customized by SilverLeaf and Newmar based on the model and year of coach, as well as the available standard and optional equipment. Based on the configuration of the coach, the location of icons, settings, or statuses and corresponding descriptions may vary. Any subsequent images or graphics are examples and may not reflect the exact buttons and settings depicted on your touchscreen display(s).

This feature (when available) temporarily raises the passenger side air suspension so that the coach tilts to the driver side to increase the holding tank slope angle to aid in dumping the holding tanks. This feature was first implemented during the 2023 model year on London Aire, Essex, and King Aire coaches.

For Tilt mode to work, the following conditions must be met:

- Park Brake engaged
- Vehicle ignition on
- Transmission in neutral
- Jacks retracted

If Tilt mode cannot be initiated for one of the reasons listed above, a message will be displayed on the GIC detailing the reason. Once Tilt mode is initiated, adjustments will be made by first lowering any corners that are above the Tilt height settings and then adding air to any corners that are below the Tilt height settings.

Adjustments will continue to be made until one of the following occurs:

- Tilt mode height settings are achieved
- Abort command received via RV-C network
- 10-second timeout on exhaust and 20-second timeout for air-fill

In each of the cases noted above, all adjustments will stop and remain static.

Tilt mode will be exited and the system will revert to standard operation when one of the following occurs:

- Park brake disengaged
- Vehicle turned off
- Transmission no longer in neutral

- Jacks extended
- Travel, leveling, or manual mode is selected via the GIC

Source of Tilt Parameters: Valid Document # VDC00948

Thetford SaniCon Waste Disposal System Quick Start (Model: Turbo 700)

This article provides basic operation instructions for a Thetford SaniCon Waste Disposal System (Model: Turbo 700). For additional information about the waste disposal system installed in a Newmar coach, refer to the "<u>Holding Tank</u> <u>Rinse (No Fuss Flush) Overview</u>" and "<u>Waste Water Disposal</u>" articles in Newgle.

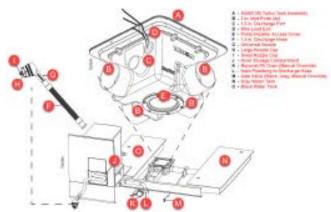
A CAUTION

Flush only organic human waste and toilet issue. Do not flush non-dissolving articles such as feminine hygiene products, paper towels, or moist towelettes, as this will damage the macerator and will void your warranty.

Operation

Thermal Cut-Off Switch

Because SANICON Turbo pumps are designed for intermittent duty, the pump contains a thermal cut-off switch for your safety. Typical run time is 15-20 minutes of operation before the thermal shut-off switch turns the pump off. After 20 minutes, the thermal cut-off switch will reset and allow the pump to run again.





- If the pump is run immediately after a thermal reset, it will run for approximately five to eight minutes.
- If allowed to cool for several hours, it will run the full 20 minutes.

Attach to Pump Station

- 1. Open hose storage compartment (J); pull out hose (F) and nozzle (G) with caps; do not disconnect from coach. Notice: Remove camp (H) for full hose extension.
- 2. Unscrew large nozzle cap (H).
- 3. Attach universal nozzle (G) to dump station.

Empty Black Water Tank

- 1. Ensure universal nozzle (G) is securely attached to dump station! Tip for Cleaner Storage: Emptying the black water tank first, allows gray water to cleanse the system.
- 2. Open black water tank gate valve (M).
- 3. Turn pump on.
- 4. Do not leave unit unattended. Tip: The hose expands as fluid moves to dump station and contracts when tank is empty.
- 5. Turn pump off.
- 6. Close black water tank gate valve (M).

Empty Gray Water Tank(s)

- 1. Ensure universal nozzle (G) is securely attached to dump station! Tip for Cleaner Storage: Emptying the black water tank first, allows gray water to cleanse the system.
- 2. Open gray water tank gate valve (M).
- 3. Turn pump on.
- 4. Do not leave unit unattended. Tip: The hose expands as fluid moves to dump station and contracts when tank is empty.
- 5. Turn pump off.
- 6. Close gray water tank gate valve (M).
- 7. Repeat steps 2-6 for secondary gray tanks. Notice: Gray water bypass is possible if the discharge plumbing does not flow upward.

Prepare Hose for Storage

- 1. Ensure pump is off.
- 2. Empty hose (F) by holding at a sloped angle to direct excess water into the dump station. Tip for faster draining: Leave gray gate valve (M) open allowing hose to vent and expediting the process.
- 3. Disconnect nozzle (G) from dump station.
- 4. Install cap(s) (H, I).
- 5. Return hose to coach hose compartment (J); leave hose connected to coach.

Helpful Hints

- Empty the black water first. Use gray water to rinse the hose after emptying the black water.
- Make sure the discharge hose is completely empty before storing.

Source(s): Thetford Sanicon Turbo 700 Owner's Manual (97515 Rev. F - 07/03/2019) Product(s): Thetford Sani-Con Turbo 700 Disposal System (Model: Turbo 700, Newmar Part Number: 133468)

Holding Tank Rinse (No Fuss Flush) Overview

This article provides an overview of the holding tank rinse (no fuss flush) system. The coach may be equipped with a flushing system for the holding tank(s).

Tank Rinse Overview

The basic tank rinse system consists of: a water inlet, a vacuum breaker to prevent water from siphoning back out of the tank and into the hose (normally located in a lavatory cabinet to provide placement above the height of the tank), a fixed sprayer in the tank, and connecting water lines.

Black Tank Rinse

When draining your sewer tank, attach a water hose to the sewer spray hookup. After the tank is drained, leave the gate valve open, and open the water valve to allow water to spray inside the sewage tank.

Allow the water to rinse the tank for a minimum of three to five minutes to ensure it is clean. This should flush the inside of the tank of any debris that may be left inside. Next, disconnect the freshwater hose and close the gate valve.

If there are any solids still left inside the tank, fill the sewage tank with approximately ten gallons of water and holding tank chemical through the stool. As you travel, the agitation of the water should help liquefy any solids left in the tank. You can dump the sewage tank again at your next destination.

Grey Tank Rinse

Select coaches may also have a tank flush on the grey water tank. Follow the same flush procedure by leaving the grey tank gate valve open while flushing.

Tank Rinse Low Point Drain(s)

On coaches equipped with tank rinse low point drain(s), turning the tank rinse drain valve to the "open" position will remove pressure and drain the tank rinse line. When finished using the tank rinse, it is recommended to turn off the water supply to the tank rinse connection. Open the valve, and drain off the pressure in the line before disconnecting the water hose.

A CAUTION

Do not use the same hose for the No Fuss Flush that is used for filling the fresh water tank. The gate valve to the sewage tank must be in the OPEN position while rinsing with the No Fuss Flush system.

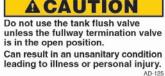
MIMPORTANT

Always drain the sewage/gray tank prior to rinsing. Never rinse a sewage/gray tank that is full. The sewage/gray tank drain must remain open while rinsing the sewage and/or gray tank, and the drain hose must be positioned to drain into an approved sewage dump station. Failure to open the sewage/gray tank dump valve will cause the sewage/gray tank to fill with water, and can cause damage to your coach plumbing and interior.

If you require additional instructions on gray/sewage tank valve operation, refer to the Waste Water Disposal article in Newgle.

Vacuum Breaker

Example







SLIDEOUTS

This chapter provides information about electric flat floor, bedroom, kitchen, wardrobe, and full wall slideouts, as well as hydraulic slideouts.

MIMPORTANT

Before operating any slideout, read and follow the warning labels and operation instructions posted in your coach.

Leveling and Full Wall Slideout Sequence of Operation

This article provides step-by-step instructions for leveling the coach and operating the slideouts.

MIMPORTANT

In the past, Newmar has recommended leveling the coach prior to deploying the slideouts. As of 2015, Newmar makes the following recommendation for the extension and retraction of slideouts. The following sequence of operation relates to ALL coach years and models.

Motorhomes, like all vehicles, flex in travel. Flexing may be different due to terrain and the coach's fulcrums (resting on tires or jacks). As the coach flexes, this movement is more noticeable in the outside reveal on a wider slideout.

Extending the Slideouts and Leveling the Coach

- 1. Park the coach on a reasonably level campsite.
- 2. Leave the coach at ride-height with air in the air bags (if equipped with air suspension) or on normal suspension (coaches without air suspension).
- 3. Plug the coach into shore power (if available) or start the generator to increase the voltage for better slideout operation.
- 4. Look at the "reveal" or "gap" of the two vertical wall trims around the slideouts to make sure there is plenty of clearance so the trim will not rub when extending the slideout. If the gap looks good, then the slideout can be operated. Most often, the gap will look best when sitting on the tires with the air suspension inflated (at ride-height), and not on the jacks.



MPORTANT

In the unlikely occasion that the slideout trim has inadequate clearances, try leveling or repositioning the coach and rechecking the clearances before extending the slideout.

- 5. Close all compartment doors, and verify that the path of the slideout is unobstructed and free from any surrounding objects, both inside and outside of the coach.
- 6. Once the appropriate conditions are met, follow the operating instructions posted in your coach to extend the slideouts (image for example only).
- 7. Dump the air suspension (if equipped). This step is included in the auto-leveling process for most coaches.
- 8. Deploy the leveling jacks.

Retracting the Jacks and Slideouts

- 1. Retract the leveling jacks.
- 2. Start the coach.
- 3. Allow the coach air suspension to fill and return to ride height (units without air suspension will return to normal suspension).
- 4. Turn the engine off.

runoff.)

5. Close all compartment doors, and verify that the path of the slideout is unobstructed and free from any surrounding objects, both inside and outside of the sequence of the coach, including any water or debris that may have collected on the slideout roof or the topper awning. Note: If pooling has occurred after rain, one way to remove water on the slideout roof or topper is to tilt the coach using the leveling system to aid in water

ENERAL IN	STRUCTIONS
1)	On Diesel coach side-out: Park Brake must be engaged before operating the slide-out rooms. The slide-out rooms will not operate when the Park Brake is released.
2)	On Gas exach slide-outs: Ignition key must be turned off or in accessories position before operating the slide-outs. The slide-outs soons will not coence when the lamiton key is in the lamiton ON position.
Ente	ding Slide out Room
	Side-out end windows must be shut before moving room
2	Look for and remove any obstructions before moving room.
1) 2) 3) 4) 5) 6)	CAUTION ON MOTORHOMES: Nove driver seat forward before moving room.
4)	If rooms are equipped with Manual Lock-Arms, be sure to release arms before running room out.
5)	Press and hold the appropriate slide-out switch until the slide-out is fully extended and stops moving.
	Belease the switch. Note: The side-out room movement can be stopped at any time by releasing the switch.
	cting Slide-out Room:
1)	Slide-out end windows must be shut before moving room.
2)	Look for and remove any obstructions before moving room.
2) 3) 4) 5) 6)	CAUTION ON MOTOFHOMES: Move driver seat forward before moving room.
4)	Press and hold the appropriate slide-out switch until the slide-out room is fully retracted and stops moving.
5)	Release the switch. Note: The slide-out room movement can be stopped at any time by releasing the switch.
6)	If rooms are equipped with Manual Look Arms, be sure to engage look arm when rooms are in and before moving coach.
MANU	AL OPERATION OF ROOM:
	Refer to the MANUAL OPERATION INSTRUCTIONS located on the kitchen overhead cabinet.

MPORTANT

Debris left on the roof or topper may prevent the slideout from sealing properly when retracted, as well as prevent the mechanical lock arms from closing properly when the slideout is extended.

For a full wall slideout, visually inspect the front vertical trim for adequate clearance before complete retraction (when the slideout trim spacing can be observed). The spacing should look even from top to bottom (see image for reference).

IMPORTANT

In the unlikely occasion that the slideout trim has inadequate clearances, try leveling, or if necessary, repositioning the coach, and rechecking the clearances before fully retracting the slideout.

- 7. Retract the slideouts. Inspect all slideouts for complete retraction.
- 8. If the coach is equipped with manual lock arms, make sure to lock them.
- 9. Unplug the coach from shore power when you are ready to depart.

ELECTRIC SLIDEOUTS

Electric Slideout Operation

This article provides basic operation instructions for an electric slideout.

Slideout Switches

Electric Flat Floor Slideouts: Newmar pushed the RV industry forward by introducing the first flat floor slideouts. We continue to lead today with our patented flat floor slideout designs. The operating switch for the flat floor slideout is usually located in the overhead cabinet above the driver or passenger chair or the overhead cabinet above the entrance door.

Electric Full Wall Slideouts: Most electric full wall slideouts extend from the living area to the master bathroom in a Newmar coach.



Electric Bedroom Slideouts: The operating switch for the bedroom slideout is usually located on the bedroom wall. If there is a full wall slideout on the driver side of the coach, the switch may be located on the wall that separates the bedroom from the living room.

Electric Kitchen Slideouts: The operating switch for the kitchen slideout is usually located in the overhead cabinet above the driver or passenger chair or the overhead cabinet above the entrance door.

Electric Wardrobe Slideouts: The operating switch for the wardrobe slideout is usually located in the bedroom, on the wall beside the corresponding slideout.

Slideout Safety

WARNING

- Do not allow children to operate the slideout.
- Do not allow any person to place their arms, legs, body or head between any pinch point of the lock arms, slideout fascia, interior walls, exterior walls, objects, or floor as serious injury or death could result.
- Any adjustments, or repairs, must be made only by "Newmar" qualified personnel.
- Always check the interior and exterior of the coach for objects, or persons, that are in the path of the slideout when extending or retracting the room.
- Always check the room to be sure any objects, or debris, are removed before retracting the room.
- Operator must remain continually in control of the slideout room control switch while the room is moving in or out.

A WARNING

Do not allow children to operate the slide-out. Do not allow any person to place their arms, legs, body or head between any pinch point of the lock arms, slide-out fascia, interior walls, exterior walls, objects, or floor as serious injury or death could result.

Any adjustments, or repairs, must be made only by "NEWMAR" qualified personnel. Always check the interior and exterior of the coach for objects, or persons, that are in the path of the slide-out when extending or retracting the room.

Always check the roof to be sure any objects, or debris, are removed before retracting the room. Operator must remain continually in control of the slide-out room control switch while the room is moving in or out.

Electric Slideout Operation

To operate a slideout with the required voltage levels, batteries should be fully charged, the generator should be powered on, or the coach should be connected to shore power. This maintains the voltage levels required to operate the slideouts.

IMPORTANT

Read entire slideout room instructions posted in your coach before extending or retracting the slideout.

- On diesel coach slideouts: The park brake must be engaged before operating the slideout rooms. The slideout room will not operate when Park Brake is released.
- On gas coach slideouts: The ignition key must be turned off or in the accessory position before operating the slideouts. The slideout rooms will not operate when the ignition key is in the ignition ON position.

WARNING

Be sure that the driver's seat is in the forward position before activating the slideout room.

Extending the Slideout Room

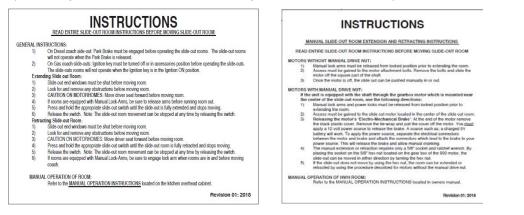
- 1. Slideout end windows must be shut before moving room.
- 2. Look for and remove any obstructions before moving room.
- 3. Caution on motorhomes: Move the driver seat forward before moving room.
- 4. If rooms are equipped with Manual Lock-Arms, be sure to release arms before running room out.
- 5. Press and hold the appropriate slideout switch until the slideout is fully extended and stops moving.
- 6. Release the switch. Note: The slideout room movement can be stopped at any time by releasing the switch.

Retracting the Slideout Room

- 1. Slideout end windows must be shut before moving room.
- 2. Look for and remove any obstructions before moving room.
- 3. Caution on motorhomes: Move driver seat forward before moving room.
- 4. Press and hold the appropriate slideout switch until the slideout room is fully retracted and stops moving.
- 5. Release the switch. Note: The slideout room movement can be stopped at any time by releasing the switch.
- 6. If rooms are equipped with Manual Lock Arms, be sure to engage lock arm when rooms are in and before moving coach.

Manual Operation of Room

Refer to the Manual Operation Instructions located on the kitchen overhead cabinet. The examples provided may not be specific to your exact coach model and/or year. Manual Retraction procedures are also available in Newgle.



Electric Slideout Maintenance

This article provides care and maintenance information for the electric slideout. Electric slideout drive mechanisms do not require lubrication as part of the scheduled maintenance. Some noise is normal during extension and retraction from the various moving parts and seals.

A WARNING

Be sure that driver's seat is in the forward position before activating the slide out room.

NI-043

Chains, Rollers, and Tubes

If a technician determines lubrication is needed on some component(s) such as chains, rollers, or tubes, Newmar recommends using a light coat of LPS 1 Greaseless Lubricant, which provides a dry, thin lubricating film that is resistant to dirt and dust buildup.

MIMPORTANT

Newmar does not recommend the use of grease, silicone, or WD-40 on the slideout tubes or chains, as these products tend to collect dirt and dust.

Seals

If slideout seal lubrication is necessary, the slideout seal provider (<u>Clean Seal</u>) recommends using a silicone-based spray or water-based 303 protectant on the rubber slideout seals. They state this will not hurt the seal. They also stated that baby powder could be used but would need to be applied frequently, as it would wash away. The silicone base spray would last longer and would not need to be applied as often. Newmar recommends bi-annual treatment of slideout seals.

Motor Mounting Bolts

In addition, the torque on all electric slideout motor mounting bolts should be checked annually by an Authorized Newmar Service Center.

Cleaning the Slideout Rollers

This article provides information about when and how to clean the rollers on an electric slideout.

When to Clean the Rollers

IMPORTANT

It is important to clean the slideout rollers under the floor regularly. Dirt and other debris may adhere to the rubber coating on the rollers, which may lead to a dull finish, scratching, scoring, or further damage to the flooring. Such damage is NOT covered under warranty.

There is no set schedule for cleaning the slideout rollers. It will vary based on the cleanliness of the coach, and other factors such as dust, dirt, sand storms, as well as the type and condition of the roads traveled.

The following list provides examples of when the rollers should be cleaned:

- Liquid spills on the roller, floor, or under the slideout
- Fragments from broken glass, pottery, or other sharp objects on the roller, floor, or under the slideout
- Sand or other abrasive materials on the roller, floor, or under the slideout
- Hair wrapped around the roller or shaft
- The roller begins sliding on the floor instead of rolling smoothly

MIMPORTANT

Slideout rollers may leave indentations in the flooring. This condition is normal and does NOT warrant flooring replacement.

How to Clean the Rollers

- 1. The slideout rollers can usually be accessed by extending the slideout half way.
- 2. Blow any remaining debris from under the slideout.
- 3. If possible, clean the ramps for the electric flat floor slideouts.
- 4. If more room is necessary to clean the ramp and rollers, push out on the top of the room and slide a wooden wedge between the floor and the bottom of the slideout in a few different places to create more clearance.
- 5. Clean the rollers one at a time with a soft cloth and a mild cleaner. A wet Swiffer cloth can also be used. Do not use harsh cleaners or solvents that may soften plastics.
- 6. Another alternative is to clean a portion of each of the rollers, then move the room slightly to clean the next portion. Repeat this process until all of the rollers have been cleaned all the way around.

Manually Retracting an R3 or O1 Series Electric Bedroom Slideout with a Square Shaft

This article provides instructions for manually retracting a bedroom slideout with a square shaft if it will not retract on its own.

MPORTANT

If the slideout is stuck in the retracted position, take the coach to an authorized service center for diagnosis and repair. Do NOT attempt any of the following procedures.

IMPORTANT

Prior to proceeding with a manual retraction procedure, make sure the ignition key is in the off position and the park brake is set. Then, try retracting the slideout again, as some controllers require the ignition to be off, and others require the park brake to be set.

WARNING

The manual retraction procedures are for emergency use only. These procedures bypass all normal safety features. It is the responsibility of the person(s) performing the procedure to watch for moving parts and pinch points in order to avoid injury.

Option 1

This option requires the motor and gear box to be operational. This procedure bypasses the slide controller, switch, and the wiring. If battery power is unavailable, or if the motor/gear box is inoperable, move to a different option.

IMPORTANT

This procedure can be performed on any single motor electric slideout.

- 1. Disconnect the red and black wires connected to the motor.
- Using the the wires attached to the motor, connect to a 12 volt cordless battery to retract the slideout. If the wire polarity is reversed, the slideout will extend instead of retract.

IMPORTANT

If the slideout motor has a brake installed, you must also hook one brake wire to the battery with the red slideout motor wire and one with the black slideout motor wire.

This can also be done at the slideout controller's wiring harness by removing the motor's red and black harness plug from controller and jumping a 12 VDC power source at the Molex plug.

1. Disconnect the wire(s) from the cordless battery pack.

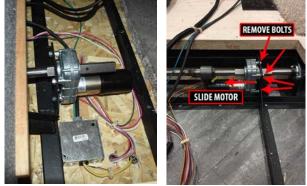
Option 2

If the slideout is stuck in the extended position and option 1 is unavailable or fails:

Remove the four mounting bolts, and move over the slideout motor until it disengages from the square shaft. Manually push the room in or out. Then complete the remaining steps:

Coaches with Mechanical Lock Arms

- 1. Slide the motor back over onto the square shaft, and reinstall the four mounting bolts.
- The motor and brake assembly must be installed (or another way devised) to hold the slideout in the retracted position prior to traveling.
- 3. Take the coach to an authorized service center for diagnosis and repair.





IMPORTANT

This procedure can be performed on coaches with a brake on the slideout motor.

Option 3

If the slideout is stuck in the extended position and option 1 and/or 2 is unavailable or fails, try the following steps to manually retract the slideout by removing the brake and turning the shaft. Only a few tools are necessary to complete this procedure; however, it requires the gear box to be operational.

IMPORTANT

Make sure you do not damage portions of the shaft that will slide through the motor, trantorque, bearing, and cog wheels.



- 1. First, locate the strap that secures the rubber boot on the outside of the motor.
- 2. Remove the strap, and pull off the rubber boot, removing it from the motor.
- 3. Remove the four screws from under the rubber boot on the brake.
- 4. Once the brake is removed, use a wrench to turn the shaft to retract the slideout.
- 5. After the slideout is fully retracted, reinstall the brake.

Manually Retracting a Single Motor Flat Floor or Wardrobe Slideout with a Square Shaft

This article provides instructions for manually retracting a single motor flat floor or wardrobe slideout with a square shaft if it will not retract on its own.

MPORTANT

Prior to proceeding with a manual retraction procedure, make sure the ignition key is in the off position and the park brake is set. Then, try retracting the slideout again, as some controllers require the ignition to be off, and others require the park brake to be set.

WARNING

The manual retraction procedures are for emergency use only. If the slideout is stuck in the retracted position, take the coach to an authorized service center for diagnosis and repair. Do NOT attempt any of the following procedures. These procedures bypass all normal safety features. It is the responsibility of the person(s) performing the procedure to watch for moving parts and pinch points to avoid injury.

Option 1

This option requires the motor and gear box to be operational. This procedure bypasses the slide controller, switch, and the wiring. If battery power is unavailable, or if the motor/gear box is inoperable, move to a different option.

IMPORTANT

This procedure can be performed on any single motor electric slideout.

- 1. Disconnect the red and black wires connected to the motor.
- 2. Using the the wires attached to the motor, connect to a 12 volt cordless battery to

retract the slideout. If the wire polarity is reversed, the slideout will extend instead of retract. If the slideout motor has a brake installed, you must also hook one brake wire to the battery with the red slideout motor wire and one with the black slideout motor wire. This can also be done at the slideout controller's wiring harness by removing the motor's red and black harness plug from controller and jumping a 12 VDC power source at the Molex plug.

3. Disconnect the wire(s) from the cordless battery pack.



Option 2

If the slideout is stuck in the extended position and option 1 is unavailable or fails, try the following steps to manually retract the slideout by removing the brake and turning the shaft. Only a few tools are necessary to complete this procedure; however, it requires the gear box to be operational.

- 1. First, locate the strap that secures the rubber boot on the outside of the motor.
- 2. Remove the strap, and pull off the rubber boot, removing it from the motor.
- 3. Remove the four screws from under the rubber boot on the brake.
- 4. Once the brake is removed, use a wrench to turn the shaft to retract the slideout. **Make sure you do not damage portions of the shaft that will slide through the motor, trantorque, bearing, and cog wheels.** On slideout motors equipped with the 5/8" reduction gear nut, it can be turned to retract the slideout.
- 5. After the slideout is fully retracted, reinstall the brake.



Option 3 - Wardrobe Slideout Motor with Square Shaft

MPORTANT

This procedure can be performed on coaches with a brake on the slideout motor.

If the Slideout is Stuck in the Extended Position

Remove the four mounting bolts, and move over the slideout motor until it disengages from the square shaft.

Manually push the room in or out, or use a wrench to rotate the shaft. Make sure you do not damage the shaft with the wrench.

with Manual Lock Arms

- 1. Lock the room with manual lock arms (if equipped).
- 2. Take the coach to an authorized service center for diagnosis and repair.

with Mechanical Lock Arms

- 1. Slide the motor back over onto the square shaft, and reinstall the four mounting bolts.
- The motor and brake assembly must be installed (or another way devised) to hold the slideout in the retracted position prior to traveling.
- 3. Take the coach to an authorized service center for diagnosis and repair.



Depending on the year, model, and floorplan of the coach, the exact slideout motor(s) location may vary. Generally, they may be accessed from under the slideout in the compartment area. Some motors may also be located in the wheel well area under a cover.

HYDRAULIC SLIDEOUTS

HWH Hydraulic Slideout Operation

This article provides basic operation instructions for a HWH hydraulic slideout.

Read the HWH Operation manual for your slideout and follow all safety warnings and notices.

A CAUTION

When operating the HWH Hydraulic Flat Floor Slideout, the coach must be plugged into shore power or operating on generator power with full voltage, or damage could occur to the coach.

The operating switch for the Hydraulic Flat Floor Slideout is usually located in the overhead control panel.

Read entire slideout room instructions posted in your coach (example below) before extending or retracting the slideout.

NEWMAR

SLIDEOUT

IN

OUT

Slideout Safety

WARNING

- Do not allow children to operate the slideout.
- Do not allow any person to place their arms, legs, body or head between any pinch point of the lock arms, slideout fascia, interior walls, exterior walls, objects, or floor as serious injury or death could result.
- Any adjustments, or repairs, must be made only by "Newmar" qualified personnel.
- Always check the interior and exterior of the coach for objects, or persons, that are in the path of the slideout when extending or retracting the room.
- Always check the room to be sure any objects, or debris, are removed before retracting the room.
- Operator must remain continually in control of the slideout room control switch while the room is moving in or out.

Due to the slideout safety feature commonly referred to as 'ignition lockout', the operation of your slideout will be prohibited under one or more of the following conditions:

- Total slideout operation is prohibited when the ignition switch is in either the accessory or run position.
- Total slideout operation is prohibited when the park brake is not set.

The disabling of the slideout is based on the individual slideout control module programming and the ignition switch circuit signal.

Hydraulic Slideout Operation

Once the appropriate safety feature conditions are met and the path of the slideout is unobstructed both inside and outside of the coach, follow the operating instructions posted in your coach.

During normal operation of the room, do not reverse direction of the room until the room is fully extended. If necessary, the direction of the room may be reversed, but watch for binding of the room. If the direction of the room has been reversed, do not re-extend the room until the room has been fully retracted, as the room may not drop to the level out position.



NEWMAR

IN

DOORSIDE

SLIDEOUT

OFF DOORSIDE

SLIDEOUT

Do not allow children to operate the slide-out. Do not allow any person to place their arms, legs, body or head between any pinch point of the lock arms, slide-out fascia, interior walls, exterior walls, objects, or floor as serious injury or death could result.

Any adjustments, or repairs, must be made only by "NEWMAR" qualified personnel. Always check the interior and exterior of the coach for objects, or persons, that are in the path of the slide-out when extending or retracting the room.

Always check the roof to be sure any objects, or debris, are removed before retracting the room. Operator must remain continually in control of the slide-out room control switch while the room is moving in or out.

IMPORTANT

Do not hold the 'in' or 'out' switch for more than ten seconds after the room has stopped moving from the fully retracted or fully extended position. If at any time the slideout stops or is in a bind, release the slideout switch immediately. Do not force the room or reverse directions. Contact Newmar Customer Service for assistance.

- · On diesel coach slideouts: The park brake must be engaged before operating the slideout rooms. The slideout room will not operate when Park Brake is released.
- On gas coach slideouts: The ignition key must be turned off or in the accessory position before operating the slideouts. The slideout rooms will not operate when the ignition key is in the ignition ON position.

A WARNING

Be sure that the driver's seat is in the forward position before activating the slideout room.

Extending the Slideout Room

- 1. Slideout end windows must be shut before moving room.
- 2. Look for and remove any obstructions before moving room.
- 3. Caution on motorhomes: Move the driver seat forward before moving room.
- 4. If rooms are equipped with Manual Lock-Arms, be sure to release arms before running room out.
- 5. Press and hold the appropriate slideout switch until the slideout is fully extended and stops moving.
- 6. Release the switch. Note: The slideout room movement can be stopped at any time by releasing the switch.

Retracting the Slideout Room

- 1. Slideout end windows must be shut before moving room.
- 2. Look for and remove any obstructions before moving room.
- 3. Caution on motorhomes: Move the driver seat forward before moving room.
- 4. Press and hold the appropriate slideout switch until the slideout room is fully retracted and stops moving.
- 5. Release the switch. Note: The slideout room movement can be stopped at any time by releasing the switch.
- 6. If rooms are equipped with Manual Lock Arms, be sure to engage lock arm when rooms are in and before moving coach.

Manual Operation of Room

Refer to the Manual Operation Instructions located on the kitchen overhead cabinet. The examples provided may not be specific to your exact coach model and/or year. Manual Retraction procedures are also available in Newgle.

How to Manually Lift an HWH Hydraulic Slideout

This article provides instructions for manually lifting a hydraulic flat floor slideout.

A CAUTION

Contact Newmar Customer Service (1-800-731-8300) prior to manually lifting or retracting your Hydraulic Flat Floor Slideout.

IMPORTANT

These brief operation instructions are for quick reference only and should not take the place of the complete manual(s) provided by this product's manufacturer. Refer to the corresponding links and files in Newgle for more details about your product.

INSTRUCTIONS READ ENTIRE SLIDE-OUT ROOM INSTRUCTIONS BEFORE MOVING SLIDE-OUT BOOM

GENERAL INSTRUCTIONS

- On Diesel coach side-out: Park Brake must be engaged before operating the slide-out rooms. The slide-out rooms 1) will not operate when the Park Brake is released.
- On Gas coach slide-outs: Ignition key must be turned off or in accessories position before operating the slide-outs. 2) The slide-outs rooms will not operate when the Ignition key is in the Ignition ON position.
- Extending Slide out Room: 1) Slide-out end windows must be shut before moving room.
- Look for and remove any obstructions before moving room. CAUTION ON MOTORHOMES: Move driver seat forward before moving room.
- 4)
 5) If rooms are equipped with Manual Lock-Arms, be sure to release arms before running room out. Press and hold the appropriate slide-out switch until the slide-out is fully extended and stops moving
- 6) Release the switch. Note: The slide-out room movement can be stopped at any time by releasing the switch
- Retracting Slide-out Room:
- Slide-out end windows must be shut before moving room.
- Look for and remove any obstructions before moving room. CAUTION ON MOTORHOMES: Move driver seat forward before moving room.
- Press and hold the appropriate slide-out switch until the slide-out room is fully retracted and stops moving. Release the switch. Note: The slide-out room movement can be stopped at any time by releasing the switch
- 5) 6) If rooms are equipped with Manual Lock-Arms, be sure to engage lock arm when rooms are in and before moving coach

MANUAL OPERATION OF ROOM

Refer to the MANUAL OPERATION INSTRUCTIONS located on the kitchen overhead cabinet

Revision 01: 2018



Be sure that driver's seat is in the forward position before activating the slide out room.

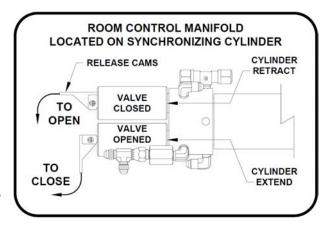
NI-043

Manual room lift procedures must be done before manual room retraction procedures.

 Determine which synchronizing cylinder controls the room. Manually open the valve release cams for the extend and retract solenoid valves by moving the cams to the "valve opened" position as shown.

🛦 IMPORTANT

Release cam might be rotated to any direction on the valve. Make sure to move the release cams in the correct direction. Incorrect movement of the cams can damage the valves.



If the pump manifold is equipped with an auxiliary hand pump, you may be able to retract the room by opening only the room retract valve (as labeled by the wiring harness) and operating the hand pump, refer to the "Auxiliary Hand Pump Operation" page (in your HWH Operator's Manual) for instructions on the use of the hand pump and valves equipped with a release cam. If the room cannot be retracted with the hand pump, it will be necessary to use the lift bolts and room retract screws.

- 2. Locate the lift cylinder covers, like the examples shown. Some coaches may have an additional rubber cover installed over the ABS cover to protect the lift from the outside elements.
- Do not remove the screws on the flat side of the cover. Instead, remove the screws on the side of the cover, allowing the entire cover to be removed. Depending on the location, some covers may be sealed with foam or another sealant.









The lift bolt assembly may be mounted vertically or horizontally but will function the same way. Horizontally-mounted lift bolts may not have a cover, depending on the location within the coach.

There may be more than one platform lift cylinder assembly. There is a manual lift bolt for each assembly. All lift bolts must be used to lift the room.

4. Use a 13/16 wrench or socket to rotate the lift bolt(s) clockwise until they are seated in the

ROOM EXTENDED AND DOWN LIFT BOLT SHOWN IN STORED POSITION RECEIVER BLOCK LIFT BOLT RECEIVER BLOCK LIFT BOLT RECEIVER BLOCK LIFT BOLT C

receiver block. Continue to turn the bolt(s) until the room is completely lifted. When there are multiple lift bolts, alternate evenly between all lift bolts, turning each bolt two or three complete turns each time. Turning one lift bolt without alternating may cause the room to bind.



MPORTANT

Do not use an impact wrench to turn lift bolts.

5. Leave the valves opened and refer to the "Manual Retract" article for room retract procedures.

MPORTANT

If at any stage something is not understood, or if the room begins to bind, do not force the room. Contact Newmar Customer Support for assistance.

IMPORTANT

Do not retract lift bolt until you read the 'Extending Room After Service' section of the 'Manual Retract' article.

Source(s): HWH Computer-Controlled 725 Series Leveling System Operator's Manual Product(s): This source is associated with more than one product. Refer to Newgle for more information about the product(s) offered for your coach's model year.

How to Manually Retract an HWH Hydraulic Slideout

This article provides instructions for manually retracting an HWH hydraulic slideout.

A CAUTION

Contact Newmar Customer Service at 1-800-731-8300 (select the appropriate menu option) prior to manually lifting or retracting your Hydraulic Slideout.

IMPORTANT

These brief operation instructions are for quick reference only. Any quick start instructions provided should not take the place of the complete Operation Manual provided by this item's manufacturer.

Manual room lift procedures must be done before manual room retraction procedures on a HWH Flat Floor/Level-Out Room Extension. Manual lift procedures are not necessary for other HWH slideouts that do not drop down when extended.

NOTICE

To access the threaded plates, refer to the vehicle manufacturer's instructions below].

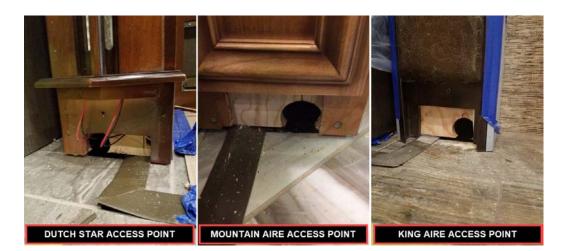
MPORTANT

The HWH hydraulic slideout emergency retraction threaded rods are shipped loose in a baggage compartment. If you do not keep these rods with the coach at all times, you may not have access to them in the event of an emergency. The following photo is an EXAMPLE of loose components, which vary based on the year, model, and floorplan of the coach. Select floorplans may have two sets of rods varying in length (based on depth of slideouts).

Some Newmar coaches may require removal of the interior vertical fascia, but current coaches are built with removable magnetic pieces or a sliding insert for easy access to the hole and plates. Coaches with lower cabinets secured to the fascia may have a removable access plug. In some cases, this access point may not align with the HWH threaded plate. In these instances, removal of the lower cabinet may be necessary to gain access to the plate.

1. Start both threaded rods until resistance is met one for the front and one for the rear mechanism should be provided.

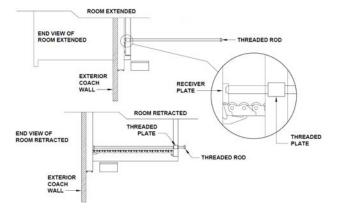




🔺 IMPORTANT

Do not use an impact wrench.

- 2. Using the wrench provided, a personal wrench, or a tire iron with a 1-1/8" opening, rotate either mechanism's threaded rod clockwise six complete turns.
- 3. Move to the other room extension mechanism, and rotate the threaded rod clockwise 12 complete turns.
- 4. Return to the first room extension mechanism, and rotate the threaded rod clockwise 12 complete turns.
- 5. Repeat steps three and four, alternating from mechanism to mechanism, rotating each threaded rod 12 complete turns until room is sealed. Do not exceed 15 ft. lbs. Make sure the room does not bind.



MPORTANT

If at any stage something is not understood, or if the room begins to bind, do not force the room. Contact Newmar Customer Support for assistance.

Leave the solenoid valves open, the lift bolts and threaded rods in place until the room has been serviced.

Extending Room After Service

1. Room lift bolts should not be retracted yet. Push and hold the room switch to "retract" for five to ten seconds.

MIMPORTANT

Do not extend the room until the room has been serviced. Any solenoid valves left open should be closed. The threaded rods should be completely removed before room is fully extended. If there is not enough room to remove both threaded rods completely, alternate backing the threaded rods out and slightly extending the room. Be careful to not extend the room so far that the threaded rods impact the coach wall or the mechanism.

- 2. Push the room switch to "extend" until the room is within one inch of being fully extended. Threaded rods should be completely removed at this time. Do not allow room to bind.
- 3. Retract all lift bolts completely. If room starts to drop, alternate between lift bolts evenly while turning lift bolts.
- 4. After lift bolts are retracted, push room switch to "extend" until room is fully extended and down. If room dropped while retracting lift bolts, push room switch to "extend" for five to ten seconds.
- 5. Retract room with room switch.

IMPORTANT

If at any stage something is not understood, or if the room begins to bind, do not force the room. Contact Newmar Customer Support for assistance.

Source(s): Universal Platform Level-Out Room Extension Mechanism Manual Room Lift Procedures and http://www.hwh.com/ml55155.pdf as adapted for Newmar Corporation v.09NOV15.

CARE AND MAINTENANCE

This chapter includes information about required and recommended maintenance, inspection of components, as well as other maintenance items to help retain the coach's dependability, safety, visual appearance, and resale value.

IMPORTANT

Read and follow all maintenance schedules to meet warranty requirements. Preventive maintenance and scheduled maintenance items are not warrantable. Damage caused by improper or unapplied maintenance is not covered by your Newmar Limited Warranty.

How to Weigh a Coach

This article provides the Newmar-recommended procedure for weighing the coach. Below are some samples of the weight information labels that may appear in your coach.

IMPORTANT

The sales literature may give approximates or standards. Each individual unit may weigh differently based on the factory and/or dealer options added.

Weight Descriptions

The following definitions are provided to help with communication issues with weight and your coach.

Gross Axle Weight Rating (GAWR): The maximum permissible weight for an axle.

Gross Combination Weight Rating (GCWR): The value specified by the manufacturer of the vehicle as the maximum allowable loaded weight of the motorhome and any towed trailer or towed vehicle.

Gross Vehicle Weight Rating (GVWR): The maximum permissible weight of the fully-loaded motorhome. The GVWR is equal to or greater than the sum of the UVW plus the CCC. (GVWR UVW + CCC)

Unloaded Vehicle Weight (UVW): The weight of this motorhome as built at the factory with full fuel, engine oil, and coolants. The UVW does not include cargo, fresh water, propane gas, or dealer-installed accessories.

Cargo Carrying Capacity (CCC): The weight equal to GVWR, minus each of the following: UVW, full fresh (potable) water weight (including water heater), full propane gas weight, and SCWR. (CCC = GVWR - UVW - Water Weight - Propane Weight - SCWR)

Gross Vehicle Weight (GVW): The weight of the unit with all items and supplies that are loaded into the unit at any point in time.

Sleeping Capacity Weight Rating (SCWR): The manufacturer's designated number of sleeping positions multiplied by 154 pounds (70 kilograms).



	MOTOR HOME OCCUPANT AND CARGO CARRYING CAPACITY
	VIN: ####################################
THE COMI	BINED WEIGHT OF OCCUPANTS AND CARGO SHOULD NEVER EXCEED
	XXX kg or XXX lbs
	Safety belt equipped seating capacity: XXX
	CAUTION:
A full load	of water equals XXX kg or XXX lbs of cargo @ 1 kg/L (8.3 lb/gal) and the tongue
	weight of a towed trailer counts as cargo
Fig	ure 1 - Motor Home Occupant and Cargo Carrying Capacity Label

Weighing Your Coach

IMPORTANT

To ensure the accuracy of your weights, make sure the unit is always level during weighing.

The unit has been built to comply with the component suppliers' recommended limits to provide you with a realistic CCC. When loading the unit, distribute the items so that not all of the weight is added to one area of the unit.

CARE AND MAINTENANCE

Gross Vehicle Weight (GVW)

If you have questions as to what the weight of the unit is after it has been loaded, take the unit to a drive-on scale or use individual wheel scales, and verify that the weights are within the limits of those specified for the unit.

When weighing the unit, follow these instructions. Failure to follow these instructions may give an erroneous weight reading.

To find the total weight of the unit, pull the unit onto the scales so that all of the wheels are on the scale as shown. Record the weight. This is the GVW and should not exceed the GVWR supplied by Newmar for the unit.

Gross Vehicle Weight (GVW) Minus Front Axle

To find the total weight of the coach, except for the front axle, move the unit so that the front wheels are off the scales as shown. Record the weight.

This weight should not exceed the total rating of the axles remaining on the scales. The front axle weight is determined by subtracting this weight from the GVW that was obtained in step one. This amount should not exceed the listed front axle weight rating.

Alternate Weighing Procedure

The recommended procedure to accurately weigh a motorhome is on individual corner scales. Since these are not always available, this diagram shows how to weigh a motorhome on a typical truck scale.

Since only one corner can be weighed at a time, the remaining three corners need to be as close to the scale as possible without being on the scale, and the unit needs to be as level as possible.

Remember, wind and rain can cause inaccuracies in weights.

MPORTANT

Your coach has been aligned at the factory as part of the production process. To provide optimum tire longevity and offer the best handling characteristics, Newmar recommends you have your unit re-aligned after loading your belongings. Though highly recommended, this alignment is not mandatory, and as such, is not warrantable by Newmar or the chassis manufacturer.

Washing and Drying a Coach

This article provides the BASF/Newmar-recommended procedure for washing and drying the coach.

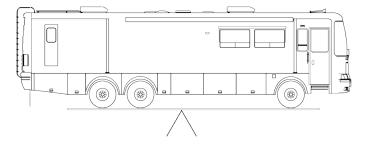
MPORTANT

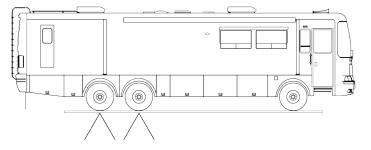
Damage caused by inappropriate or unapplied maintenance is not covered under warranty as expressed in the Newmar Expressed Limited Written Warranty.

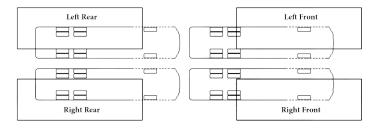
Washing the RV

Following these procedures can provide a long-lasting, high-gloss finish to your RV. These same procedures can also be applied to your everyday automobile, producing the same long-lasting results.

The clear coat used on all painted Newmar RVs is similar to the technology used by automotive manufacturers. The painted surface is baked in our state-of-the-art bake booths which cures the clear coat finish. The end result is a Masterpiece Finish which is the highest quality in the industry. The same care needs to be performed and maintained on the RV exterior surface as on an automobile finish.







Make sure the coach's surface temperature is under 90 F. Never wash the vehicle in direct sunlight, [while the vehicle is hot, or with hot water].

Rinse the entire coach to remove all loose dirt and grime. Never hold a pressure washer close to the surface. Use a fan type spray nozzle, making sure that the water coming out of the gun has a fan and not a single straight stream.

NOTE FROM NEWMAR

Keep the stream at least 18 inches from the edge of any decals, as high pressure water may cause the decals to loosen and peel.

Most automotive stores offer mild car wash shampoos that are safe for clear coat finish. We recommend using baby shampoo as it will not leave a film on the painted finish. Adding ½ of a cup of food-grade vinegar to the water will boost the cleaning ability of any cleaner and also soften the water. This also helps to minimize water spots.

IMPORTANT

Do not use dish soap, detergents with degreasing agents, or industrial cleaners as they can cause damage to the finish.

NOTE FROM NEWMAR

Do not use solvents such as acetone, MEK, toluene, etc. on the decals. Any solvent including alcohol may soften or smear colors. Do not use lacquer thinner on the paint or decals. Do not overcoat the decals with clear paint. Do not allow gasoline or other fuels to drip or stay on the decals for any length of time. If this occurs, immediately flush the area with water.

Use 100% cotton or lambs-wool pad or wash mitt for washing the painted surface of the RV. Use a different mitt for washing the wheels and undercarriage. Change water in the wash bucket often or place a "dirt guard" in the bottom of the bucket to keep the cleaning pad or wash mitt free of dirt and debris.

The following products may assist you when cleaning your coach, and may be purchased through the Newmar parts department:

- Lambswool Pad (Newmar part #018461A)
- 4-way Swivel Pad Holder (Newmar part #018461)
- Lambswool Mitt (Newmar part #018464)
- Extension Pole (Newmar part #018463)
- EZE Squeegee (Newmar part #016462)

IMPORTANT

Absolutely no brushes should be used on the painted surface. Use of these on your RV's painted surface will cause damage to the finish, as it would an automobile finish. Newmar does not support using of any style, type, or material of brush, even though it may be marketed as 'RV Safe' or 'Approved.

NOTE FROM NEWMAR

The use of any cleaning products outside of Newmar's recommendation is at the customer's discretion. However, Newmar and BASF take no responsibility for any scratches, swirls, or damage to the finish of the coach caused by the use of non-recommended products.

Drying the RV

Drying the RV is just as important as washing it. Today's tap water and well water contains many chemicals that could leave water stains on the finish. After washing, dry the RV with EZE Squeegee (Newmar part # 018462) or a clean 100% leather chamois.

IMPORTANT

You can also use fresh microfiber towels for drying. Please use caution, as these towels are made partially with polyester (which is plastic), which can break down over time from extended use and washing, eventually causing damage to the clear coat finish.

Source(s): BASF Recommended procedures for a long-lasting, high-gloss finish, AD6622 REV 11.2021 Product(s): <u>BASF Finishes</u>

Waxing and Polishing a Coach

This article explains the BASF/Newmar-recommended benefits and suggestions for using waxes and polishes to maintain your coach's finish.

The coating on your RV is a state-of-the-art base coat/urethane clear coat. This means that what you wash and polish is a clear coating designed to protect the colored base coat. The clear coat needs to be maintained especially in harsh environments. Clear coats will appear to fade or lose gloss as the surface becomes contaminated by the environment. A finish that is dull or low in gloss is a result of contamination. Occasional washing alone will not adequately remove some forms of contamination and will require polishing of the finish.

Polishes and waxes primarily serve to:

- Remove minor surface imperfections caused by water spots and acid rain.
- Remove minor scratches by filling them and leveling the surface.
- Seal the pores of the finish creating an easier-to-clean surface.
- Beautify the paint finish appearance with more depth and high gloss.
- Protect the paint finish from the elements.

MPORTANT

Do not use products that contain harsh abrasives such as rubbing compounds. These products should be used by an experienced technician with proper training and equipment.

Most polishes and waxes are designed to clean and polish in one application, whether by hand or machine. A machine-applied polish will last longer than one applied by hand because the high RPMs of the buffing wheel create heat, resulting in a deeper film with higher gloss. However, a hand-applied polish or wax will offer outstanding performance and protect the RV's finish. When applying the polish or wax, do so in a shaded area making sure the RV surface is at the specified temperature according to the polish manufacturer's recommendations.

NOTE FROM NEWMAR

Apply polish or wax while the coach is parked in a shaded area so the coach's surface is at the specified temperature according to the polish manufacturer's recommendations.

Due to the variations of polishes and waxes, incorporate the following:

- Condition the polishing pad by rubbing a slight amount of polish on it.
- Use only the amount of polish specified in the label directions.
- Work a small area at a time.
- Rinse off and remove dried polish from crevices, trim and moldings.

NOTE FROM NEWMAR

The exterior finish of your coach will require a routine waxing. When water will not bead and roll off a freshly washed vehicle, a new coat of wax is needed. Wax not only improves the appearance of the vehicle, but it also protects the finish against oxidation and corrosive materials. The recommended type of wax is one that is compatible with painted or gel-coated fiberglass finishes, and contains a UV (ultra-violet) inhibitor. Buffing with a polishing compound will improve a dull or discolored finish.

NOTE FROM NEWMAR

When using a polishing compound that does not contain a wax preservative, reapplying a coat of hard wax after polishing is recommended.

IMPORTANT

Refrain from waxing or polishing for at least 90 days from [the coach's] date of manufacture.

Source(s): BASF Recommended procedures for a long-lasting, high-gloss finish, AD6622 REV 11.2021 Product(s): <u>BASF Finishes</u>

After

How to Clean Exterior Chrome

This article provides the Newmar-recommended procedure for maintaining your exterior chrome accessories.

Before

Before

Removing Tarnish and Water Spots

Wash chrome items with soap and water the same way you wash the exterior paint. If the chrome still has some tarnish and water spots on it, clean it with a soft cloth and vinegar. Add a little baking soda to the rag if you need a stronger cleaner.

Removing Rust/Oxidation

Rust is not a warranty issue, as it is a common occurrence (especially in southern states where there is a lot of humidity) and requires frequent maintenance. Most exterior chrome can be cleaned, even the plastic, except for the side marker light bezels. To clean oxidation/rust off of the chrome, complete the following steps:

- Regularly clean chrome with WD-40 using a white or blue Scotch Brite pad or very fine steel wool. Test it in an inconspicuous area to ensure no damage is occurring while using the pad or steel wool.
- 2. Then use a chrome polish to help maintain the finish and make it last longer.

IMPORTANT

The more often the chrome is cleaned, the easier the cleaning process. Coaches exposed to salt spray from the road or ocean air should be cleaned more often to maintain the best appearance.

Refore Fried Contract of the second sec

How to Winterize a Coach

This article provides the Newmar-recommended step-by-step instructions for winterizing a coach. Follow the winterizing instructions to reduce the risk of leaks caused by cracks from freezing pipes.

A WARNING

Winterizing is the responsibility of the consumer. Make sure you have protected the complete water system any time your coach is in freezing temperatures. Failure to complete the winterization process may result in extensive damage to the water system, appliances, and coach. Damage caused by the fresh water system freezing can be extensive and costly to repair.

If a new coach has been winterized before leaving the production factory, it may be equipped with the following label: "This fresh water system has been protected with non-toxic anti-freeze. Please flush and drain lines before using."

MPORTANT

Once water has been introduced into the system, it is no longer protected and must be winterized again any time the coach may be subjected to freezing temperatures. This fresh water system has been protected with non-toxic anti-freeze. Please flush and drain lines before using.

The following instructions are generic to Newmar coaches and are NOT specific to your coach. They should only be used as a reference guide for this process. Appliances, drain locations, and plumbing components may vary by coach. The following images are for example purposes only. Your coach may or may not be equipped with the same components as shown.



When to Winterize a Coach

Although great care has been taken to build a well-insulated unit, recreational vehicles are not intended for extended use in sub-freezing weather without special precautions. When the outside temperature drops below freezing, the furnace must be turned on to keep the coach warm. Continued use in cold weather will require the coach to be winterized.

It is critical to winterize the plumbing in your coach when storing it in temperatures below freezing or using it in extremely cold conditions. If subjected to these conditions without being properly winterized, the heating system may be unable to keep the coach and its compartments above freezing temperatures.

MPORTANT

A regulated compressed air supply is needed to properly complete this procedure. The pressure should be regulated between 40 and 60 PSI (pounds per square inch). Higher pressures may cause damage.

How to Winterize a Coach

- 1. Drain the black and grey tanks. If equipped, also empty the macerator hose.
- 2. Drain the fresh water tank. Open the tank drain valve located in the driver-side water bay.
- 3. Turn off the switch(es) to the water heater or the hydronic heating system, including the burner and the 120 Volt element, depending on your coach's equipment.
- 4. Turn on the refrigerator.
- 5. While the tank is draining, remove all of the water filters. Install a bypass or the filter canister, including the whole house, refrigerator, and drinking water filters (whether standard or UV), if your coach is equipped.
- 6. For units with a tank-style water heater instead of a hydronic heater:
 - a. Close the valves to the water heater, and open the bypass valve, which is normally located at the back side of the water heater. Depending on your particular floor plan, access to the back of the water heater may be located in a cabinet, the closet, or in an exterior compartment.



b. Remove the drain plug at the bottom of the water heater tank on the exterior of the coach.

IMPORTANT

The 120 Volt water heater element must be turned off by flipping the switch near the water heater's drain plug.

For units with a tankless water heater, do NOT put the water heater in by-pass mode. Instead, blow it out, and install the antifreeze as directed for a hydronic heater.

IMPORTANT

On coaches equipped with a Truma AquaGo water heater mounted above the floor line of the coach, open the low point drain located in the hot water recirculation loop between the shower loop and the water heater. The exact location will vary, but the low point drain is typically located in the basement area at or near the lowest point in the loop and may be marked with a low point drain label.

- 7. Open the low point drains by turning the valve to the "open" position or by pulling up on the handle if the coach is equipped with T-Handle valves. There should be one drain for hot and one for cold, and they are normally located in the water compartment.
- 8. Connect the regulated air supply to the inlet of the hose from the hose reel (if equipped) or the city water fill inlet using a blowout plug. Air will flow out of the low point drains.
- Cycle all faucets and the auto fill or tank fill valve (whichever the coach is equipped with) to all possible positions for a minimum of 10 seconds at each position. Do not forget the hot water spigot with low point drain next to the generator (if equipped).
- 10. Cycle the tank fill valve to all positions in order to purge water out of the lines and valve assembly. © 2024 Copyright Newmar Corporation. All rights reserved. For the most up-to-date version of this content, and for more product-specific information, please refer to Newgle

MPORTANT

On coaches equipped with Aqua View Showermi\$er Fresh Water Reclamation System, cycle the valve to the bypass position to purge the water out of the line back to the fresh water tank while pressurized air supply is connected. Then place the valve back to normal flow mode to the shower head, and then purge the shower. Do not leave the valve in bypass mode when running antifreeze in the line because it will allow antifreeze into the fresh tank.

- 11. After blowing the water out of the system with pressurized air, disconnect the hose, and pour approximately one cup of antifreeze into the hose. Hook the hose back up to the pressurized air, and blow the antifreeze through the hose and hose reel to protect it.
- 12. Close the low point drains. This must be done prior to pumping antifreeze through the lines, or the antifreeze will be pumped onto the ground.
- 13. Remove the whole house filter canister, and dump any remaining water, and reinstall.
- 14. Locate the winterizing valves marked "A" & "B" located in the water compartment.
- 15. Close valve "A" by rotating the valve clockwise. Open valve "B" by rotating the valve counter clockwise.
- 16. Remove the plug at the end of the clear winterizing hose.
- 17. Insert the hose into a jug or bucket of antifreeze.
- 18. Replace the empty jugs, or refill the bucket as needed to complete the entire process.
- 19. Turn on the water pump by activating water pump switch. Red antifreeze will start flowing through the clear hose into the water lines.
- 20. Run cold water from the kitchen faucet until the red potable antifreeze is detected. Run hot water from the kitchen faucet until the antifreeze is detected.

MPORTANT

Make sure you run enough antifreeze through each faucet to fill each P-trap.

21. Proceed to the next faucet, and repeat process for each faucet, including the lavatory, shower sprayers, and outside shower faucet. If equipped, repeat the process for the instant hot water, drinking water dispensers, and hot water spigot with low point drain (next to the generator).

MPORTANT

For coaches equipped with a sink or shower connected to a Saniflo Sanivite lift pump, the lift pump must be completely emptied, or enough RV antifreeze must be poured down the drains to allow the lift pump to cycle until the antifreeze concentration is sufficient for freeze protection. Pour at least one liter of antifreeze down the drain connected to the lift pump. Make sure the pump cycles at least once, then pour another liter down the drain. Wait for the lift pump to cycle again; then the remaining liquid in the lift pump should have an adequate antifreeze concentration at this point.

- 22. Flush each toilet until the red antifreeze is detected. If the toilet is equipped with a sprayer, activate and flush it until the antifreeze flows from the sprayer.
- 23. Run the dishwasher through a cycle to winterize the water inlet plumbing, as well as the pump and drain line.
- 24. If the coach is equipped, turn on the washing machine. Select a wash cycle setting that uses warm water to activate both the hot and cold inlet valves. Allow the washing machine to fill for approximately two minutes. Press the "cancel" and "drain" selection to begin draining the machine. This will winterize the pump and drain, as well as the washing machine's P-trap.
- 25. Depress the refrigerator's external water dispenser while holding a container to catch the fluid. Continue to let the fluid flow until the red antifreeze is detected.

The red antifreeze may not appear instantly, as most refrigerators have a reserve for cold water. However, if you did not remove the water filter in the refrigerator in Step 5, the fluid will run clear for a long time.

26. Make sure the ice maker is turned on. Once it reaches the proper temperature, it will attempt to make ice cubes, which will become pink in color. This may take several hours. Once they become pink, turn off the ice maker and the refrigerator. Empty the ice cube tray, and clean out the ice maker and freezer area.

If the coach is equipped with an Oasis hydronic heating system, it will automatically be winterized as the antifreeze circulates through the coach's fresh water system.

- 27. Turn off the water pump. Close the winterizing valve "B", and open valve "A".
- 28. Insert the plug into the clear hose, and stow the winterizing hose.
- 29. If the coach is equipped, winterize the macerator by turning it on and emptying the black and gray holding tanks, allowing the macerator and macerator hose to fill with antifreeze. If there is no macerator in the coach, use the sewer hose to drain the black tank, followed by the gray tank.

How to De-Winterize a Coach

This article provides the Newmar-recommended step-by-step instructions for de-winterizing a coach.

- 1. Connect your water hose to a fresh potable water supply.
- 2. Set the auto fill or tank fill valve for city water supply.
- 3. Run water through each faucet, toilet, and shower on both hot and cold settings.
- 4. Run the dishwasher and the washing machine through a complete cycle before using.
- 5. Depress the refrigerator water dispenser while holding a container to catch the fluid being dispensed. Continue until clear water is dispensed.
- 6. Install the refrigerator filter (if equipped).
- 7. Turn off the water supply drain pressure from the system using low point drains. Install all filters in the system.



Newmar recommends installing clean filters unless the sanitization process will also be completed at this time.

- 8. Close the low point drains.
- 9. Turn on the ice maker, allowing it to run through multiple cycles. Throw away any ice with antifreeze. Clean out the ice maker and the tray until clear ice is available.
- 10. If the coach is equipped with a water heater, install a drain plug. Open the water heater valves, and close the by-pass valve on the back side of the water heater.
- 11. Turn on the fresh potable water supply.
- 12. Open the hot water faucet until the water heater is filled and flows through the faucet without air.
- 13. Flip the water heater switch to the "ON" position. This is located near the drain plug (if equipped with a water heater).
- 14. Check the tank level, and dump if necessary.
- 15. The coach is now ready to use.

How to Sanitize the Water System

This article provides the Newmar-recommended step-by-step instructions for sanitizing a complete water system.

A NOTICE

The following instructions are generic to Newmar coaches, and are NOT specific to your coach. They should only be used as a reference guide for this process. Appliances, drain locations, and plumbing components may vary by coach.

Follow the sanitizing instructions to reduce the risk of fresh tank contamination. All of the water should be drained from the fresh water system when the coach is not in use for more than one week. Whenever possible, drain the fresh water tank before traveling or only carry what you



will need to get to your destination. Water in the tank will reduce the carrying capacity of the coach.

When to Sanitize the Water System

Newmar recommends sanitizing your water system under the following scenarios to discourage organic growth and contamination:

- Purchasing a new or used coach
- After your coach has been in storage for a lengthy amount of time
- At least once per year for proper maintenance
- If an unpleasant odor arises from your water

The Fresh Water System may need to be sanitized more often depending on the source of the water supplied to the coach.

How to Sanitize the System

- 1. Drain the fresh water tank by turning the tank drain valve to the open position.
- 2. Drain the water heater (if equipped) by removing the drain plug.

Do not attempt to drain the water heater when the water is hot or the system is pressurized, as scalding may occur.

While the tank is draining, remove all of the water filters, including the refrigerator and drinking water filters (standard or UV), if your coach is equipped, and install a bypass. Not all filters have a "bypass," so it may be necessary to install the canister without the filter.

- 3. Remove the main (whole house) filter housing.
- 4. Remove the filter, and pour household bleach (1/4 cup per 15 gallons, as determined by your tank capacity) into the filter housing. For example: 1.75 cups of bleach for coaches equipped with a 105 gallon fresh water tank or 1.25 cups of bleach for coaches equipped with a 75 gallon fresh water tank. This will approximately be a 50 ppm (parts per million) bleach solution.

For any coaches not equipped with a whole house filter, skip these steps. Instead, use a funnel to pour bleach into the hose before connecting the coach to a potable water supply.

- 5. Reinstall the housing and the water heater drain plug after it has drained completely.
- 6. Hook up the water hose from the hose reel (if equipped), or hook up a drinking water-safe portable hose to a potable water source.
- 7. Turn the valve to 'tank fill' or 'manual tank fill.'
- 8. Turn on the potable water source, and fill the water tank. (This will flush the bleach/water solution from the filter housing [Step 4] into the water tanks.)
- 9. Turn off the tank fill valve (on non-auto fill coaches).
- 10. Turn on the water pump.
- 11. Run water out of one faucet on both hot and cold settings until a strong bleach smell becomes evident.
- 12. Repeat this for all faucets, as well as the refrigerator, dishwasher, washing machine, toilets, low point drains, etc.

Top off the water tank so that the sides and top of the tank are sanitized as well.

- 13. Turn on the refrigerator and the ice maker. Depending on your refrigerator model, the ice maker may have a flip lever or an ON/OFF switch. Let the ice maker run until the bleach/water solution is detected. This may take a few cycles. One cycle consists of the ice maker filling the trays with water, freezing the water, and then dumping the ice into the ice bin. This cycling process will occur automatically if the refrigerator, the ice maker, and the water pump are all turned on.
- 14. Disconnect the water hose, and dump out some water.
- 15. Pour one ounce (1 oz.) of bleach into the water hose, and reconnect it to the potable water supply.
- 16. Turn on the water for a brief moment to flush the bleach through the water hose, allowing it to mix in the hose reel or the portable hose used for potable water.
- 17. Turn off the water supply, and disconnect the water hose.
- 18. Cap the end of the hose.
- 19. Let the bleach water sit in the system for a minimum of four hours. However, for best results, allow the solution to sit overnight or up to 12 hours.
- 20. Drain the fresh tank using the drain valve.
- 21. Fill the fresh tank with clean potable water.
- 22. Run water out of each faucet on both hot and cold settings until the bleach smell is no longer evident.

If the bleach smell is still noticeable, repeat steps 21-22 to flush the system again.

MPORTANT

If algae or slime is detected in the fresh water system, it may be necessary to repeat the entire process until the system is flushed clean.

Once the system is flushed, Newmar recommends replacing the water filters. Do not re-use the contaminated filters, as this will greatly reduce the effectiveness of the sanitization process.

A NOTICE

Sanitizing through the winterization process will not sanitize the fresh tank or all of the water lines.

Newmar-Recommended Routine Maintenance Checklist

This article provides a basic checklist for Newmar-recommended routine maintenance.

MPORTANT

All routine maintenance is the responsibility of the owner and is not covered by the Newmar Limited Warranty. Please note that damage caused by improper or unapplied maintenance is not covered by the Newmar Limited Warranty. Cosmetic adjustments and alignments must be performed within the first three (3) months from the date of the original purchase for warranty consideration. Thereafter, these items are considered routine maintenance.

RV Maintenance

Weekly

• Test the smoke alarm, carbon monoxide detector, and propane gas detector.

Quarterly

- Clean the range hood exhaust fan filter and blades.
- Inspect and clean slideout rollers on each slideout.

Bi-Annually

- Check all gas appliances for proper operation.
- Check and replace the water filters.
- Check the operation of windows, latches, and hinges.
- Clean and inspect all door and window seals, and reseal where necessary.
- Lubricate the exterior door hinges and latches with a graphite (silicone) lubricant.
- Inspect the slideouts for proper seals. If realignment is necessary, please contact an authorized Newmar service center.
- Clean the roof ducted air conditioner filters (quantity of filters varies by ceiling style and number of air conditioners installed).

Annually

- Check exterior lights, including the tow plug.
- Test and lubricate the entry step.
- Perform generator maintenance per manufacturer's recommendations.
- Perform refrigerator maintenance per manufacturer's recommendations.
- Sanitize and flush the fresh water system and add treatment to waste tanks.
- Clean the roof drains.
- Replace the cabin (dash) AC filter (when applicable).

As Needed

• Wash and wax coach (as needed).

For more information, refer to the Newmar Factory Service Center Routine Maintenance Schedule file in Newgle.

Chassis Maintenance

For more information, refer to the chassis manufacturer's documentation, or the RV Maintenance Sheet, Spartan-Freightliner Chassis Service, and Ford Chassis Service files in Newgle.

How to Prepare A Coach for Storage

This article provides general steps and recommendations to prepare a coach for storage.

The following information is not intended to provide detailed instructions relating to any specific year, model, or floorplan of the coach. Some of the general statements may not apply to a coach, depending on its installed equipment and/or options. Whether stored for one month or even longer, there are several things you can do to help ensure the coach is ready to go after the downtime.

Pre-Storage Steps

Make sure the fuel tank is full. You can also add a fuel stabilizer appropriate to your type of fuel. Run the engine long enough to distribute the stabilizer. It is also recommended to have engine and generator oil changes before storing for a few months or more. Refer to your chassis owner's manual for recommended products.

If the coach is being stored for winter, please refer to the "How to Winterize A Coach" article for additional information.

Choose a Good Spot for Storage

- The best option is indoor storage. The second best option is under a carport or other shelter. The last option is outdoor storage. Store away from machinery, heat sources, and areas that generate noxious fumes.
- If storing outside, avoid parking near trees or where weeds and grass can grow tall. This will help protect the coach from damage from limbs, moisture, and other hazards.

Newmar recommends leaving your coach plugged into shore power during storage, so parking in a location where this option is available would be best. This will help maintain the battery charge. Newmar's recommended best practice is to store the coach while plugged into 50 amp or 30 amp shore power. If you choose to store plugged into 20 Amp, refer to the Newgle article titled "Can I store My Coach While Using 20 Amp Service?" for more information.

Prepare the Coach's Interior

- Remove any kitchen or bath items that are perishable, including food, beauty items, and anything that can freeze. Defrost the refrigerator and put a carton of baking soda inside. Leave the doors propped open for air circulation.
- Put out insect and/or mouse bait to help eliminate any vermin that might enter the coach.
- Make sure all the lights are off, including the storage and exterior areas. Turn off the breakers to all appliances that you do not want to operate during storage (i.e. the refrigerator, stove, etc.).

Inspect and Clean the Coach Exterior

- Inspect roof and window sealant for cracks that might admit water. Reseal any cracks with the appropriate sealant for the surfaces. Allow any sealant to cure before washing the exterior.
- Inspect the underside of the coach. Block or seal any gaps that are big enough to admit mice or other vermin.
- Inflate the tires to the maximum recommended pressure, which is noted on the tire.
- Thoroughly wash the exterior and clean the interior of the coach. Make sure the exterior is completely dry, including fabric awnings before storing inside or using an RV cover.

Prepare the Batteries

- If the batteries are liquid lead-acid, top off the cells with distilled water.
- Make sure the batteries are fully charged, which will protect them from freezing and sulfation.
- Make sure all other battery types are charged before storing the coach.

MIMPORTANT

Owners who decide not to follow Newmar's recommendations to keep the coach plugged into the appropriate outlet (shore power 50 amp or 30 amp) during storage will need to do very frequent checks on the coach to check/maintain and charge batteries.

Prepare the Generator

- If you are storing the coach inside and your coach has auto gen start (AGS), disable this function.
- If stored outside, the AGS can be enabled to help maintain battery charge if and when shore power is not available.

Inverter Power

Depending on your unique situation, you may want to power off the inverter to prevent it from providing 120 volt power, which will drain batteries that are not being charged. Some coach owners may want to leave the inverter powered on to keep the refrigerator cold in case of power loss. This applies to coaches that are typically plugged in during storage and checked frequently (depending on the length of storage time and shore power availability).

Turn off or disable the inverter if you do not wish to provide 120 volt power during storage. When shore power is not available and if the inverter is not off or disabled, the battery bank will be drained. If left drained, unattended dead batteries in a cold climate may result in frozen and/or damaged batteries that may require replacement.

Some inverters may have the ability to turn the charger section on or off. When shore power is available, it is recommended to leave the charger on or enabled to charge the batteries as needed. For additional information about inverter(s)/charger(s), refer to the product page(s) in Newgle for your installed component(s).

When Ready to Store

- If storing outside, pull onto blocks to help protect the tires from direct contact with the ground. These give the tires some defense against changes in ground temperature. Make sure the block is large enough so that the tires fully rest on them and do not touch the ground at all.
- Plug the coach into shore power, if available.
- Finally, if storing the coach outside, covering the tires and the coach with breathable covers will help protect them from the sun and other elements.

Checks While in Storage

- Check the batteries weekly if not plugged into shore power and monthly if plugged into shore power, and charge them if below 12.5 volts. Plug the coach into shore power or use a portable charger to top off the batteries to their full charge, as needed.
- If the coach is stored outside, do a visual check for damage, leaks, rodents, etc., every month.
- The leveling system should be cycled at least once a month to keep the system in operating condition.
- If the coach will be stored for more than three months, move the coach slightly every three months to rotate the tires and help prevent flat spots. Top off the air in the tires, if needed.

Maintenance and Service Record

Use this chart to keep track of all service work performed on the coach. For additional pages, refer to Newgle.

Date of Service	Service Center / Dealer Name and Address	Description of Service Work Performed	Cost

		CARE AN	D MAINTENAN
1	<u>1</u>		

Fuel, Oil, and MPG Record

Use this chart to keep track of all odometer mileage, fuel, oil, and average MPG for the coach. For additional pages, refer to Newgle.

Date	Odometer Mileage	Fuel (Gallons)	Oil (Quarts)	Average MPG	Cost

 	1	CARF	AND MAINTENANCE



WHEN YOU KNOW THE DIFFERENCE.

NEWMAR CORPORATION | 355 N DELAWARE ST | PO BOX 30 NAPPANEE, IN 46550-0030 | 574-773-7791 | FAX 574-773-2895 NEWMARCORP.COM

2025 NEW AIRE