

# SUPREME AIRE

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2025



 SupremeAire

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## **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.

## **IMPORTANT**

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.

## **NOTICE**

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.

## **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 the Electronics chapter in this owner's guide.**



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# 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.
2. 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.

### NOTICE

**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.
2. A customer walk-through to familiarize the customer with the vehicle, its systems and components, and its operation.
3. 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** OWNER'S REGISTRATION

**VEHICLE INFORMATION**

Model: \_\_\_\_\_ Year: \_\_\_\_\_

**DEALER INFORMATION**

Dealer Name: \_\_\_\_\_ Dealer Address: \_\_\_\_\_

**PRE-DELIVERY INSPECTION AND ACCEPTANCE DECLARATION**

I, the undersigned, hereby certify that the vehicle and its components have been inspected and found to be in good condition at the time of purchase, and I have received the vehicle in good condition.

**VEHICLE INFORMATION**

Model: \_\_\_\_\_ Year: \_\_\_\_\_

**DEALER INFORMATION**

Dealer Name: \_\_\_\_\_ Dealer Address: \_\_\_\_\_

**PRE-DELIVERY INSPECTION AND ACCEPTANCE DECLARATION**

I, the undersigned, hereby certify that the vehicle and its components have been inspected and found to be in good condition at the time of purchase, and I have received the vehicle in good condition.

# 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 WARRANTIES DO NOT COVER OR INCLUDE:

- 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;
- 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;
- 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;
- 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;
- 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;
- Cosmetic alignment of the slide out(s) and other cosmetic adjustments are considered routine maintenance and are not covered;
- 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 Warranties.;
- 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

## NOTE FROM NEWMAR

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

A black canvas messenger bag with a silver buckle and a red and blue 'NEWMAR' logo. The bag has a top handle and a shoulder strap. The logo is on the lower left, and there is a small rectangular patch on the lower right.

## IMPORTANT

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

- 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.

**⚠ IMPORTANT**

**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.**

[illegible]



## 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 ([newgle.newmarcorp.com](http://newgle.newmarcorp.com)), 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](mailto:newgle@newmarcorp.com).

### NewPar (Parts)

For parts inquiries or purchases, refer to NewPar (ComNet), Newmar's parts catalog ([newpar.newmarcorp.com](http://newpar.newmarcorp.com)) 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](mailto: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](mailto:customerservice@newmarcorp.com), or contact your brand specialist per the chart below.

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

### 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.

### **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.

### **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.

### **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.

### **IMPORTANT**

**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.**

## ⚠ 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.

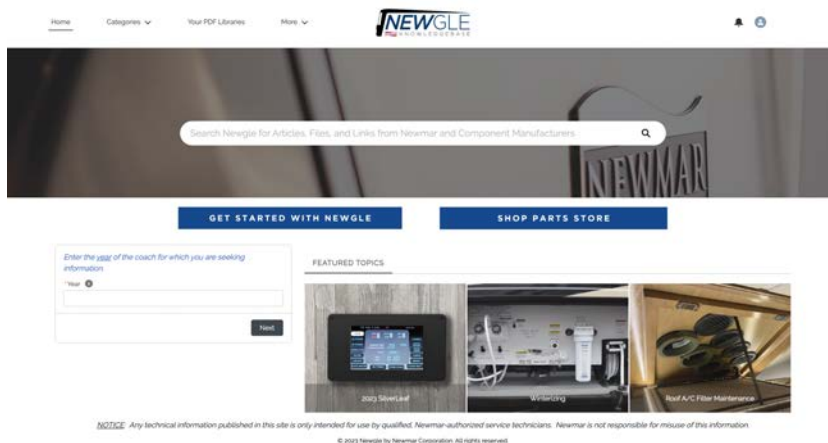
## How do I navigate the website?

### 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](mailto:newgle@newmarcorp.com)
- Email the Customer Service team: [customerservice@newmarcorp.com](mailto: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.

#### ⚠ 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.**

### 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.

#### ⚠ IMPORTANT

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

The screenshot shows the Newgle Knowledgebase interface. At the top, it says "WELCOME TO NEWMAR'S NEWGLE KNOWLEDGEBASE". Below this is a "LOG IN TO AN EXISTING ACCOUNT" section with fields for "Username (Email Address)" and "Password", and a "Log In" button. A link for "Forgot your password?" is also present. Below the login section is a "REGISTER FOR A NEW ACCOUNT" section with a note: "Select the appropriate account type below! You will receive your account credentials via email as soon as your registration has been processed." There are two links: "Coach Owner Account Request" and "Dealer / Service Center Account Request". At the bottom, a "Notice" states: "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."

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-to-date 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 - <https://newgle.newmarcorp.com> -for future access to the site.

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.

### ⚠ IMPORTANT

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.

### ⚠ 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.

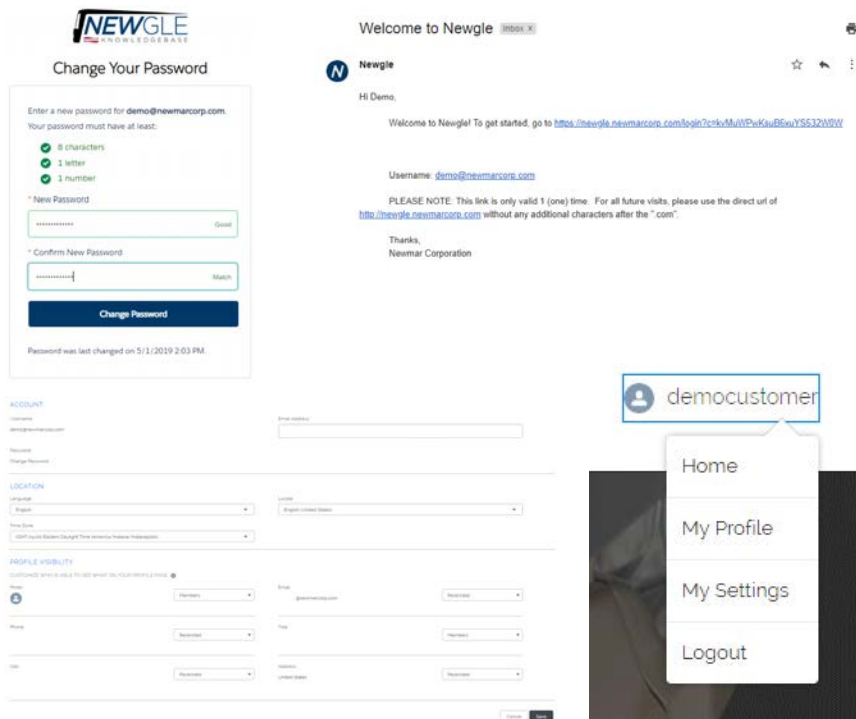
If you have any questions regarding your account, please email the Newgle Team at [newgle@newmarcorp.com](mailto:newgle@newmarcorp.com).

## 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.

### ⚠ IMPORTANT

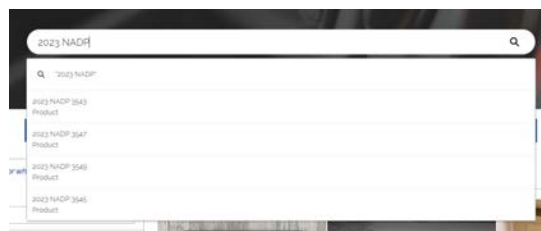
Newgle is an ever-changing knowledgebase. The Newgle Team strives to introduce new features and content regularly to improve the site. The included screenshots and navigational instructions may change without notice. Always refer to Newgle for the most up-to-date version of this content.



## 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:

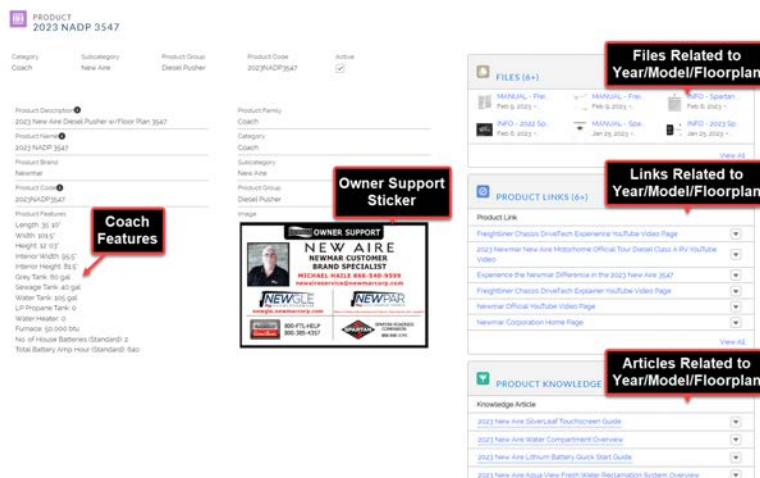
- Chassis Manufacturer Content (Brochures, Specs, Manuals, Contact Info, Videos, etc.)
- Newmar Sales Documentation (Brochures, Videos, Product Specs, etc.)
- Coach CPU Walkthroughs (Year/Model Specific when available)

## 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).

## 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.

## Safety Resources and Compliance Requirements

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

### Resource(s)

- [Recreation Vehicle Safety and Education Foundation \(RVSEF\)](#)
- [Transport Canada \(TC\)](#)
- [National Highway Traffic Safety Administration \(NHTSA\)](#)

## IMPORTANT

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

- [Canada Motor Vehicle Safety Standards \(CMVSS\)](#)
- [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)	<a href="http://www.tc.gc.ca/recalls">http://www.tc.gc.ca/recalls</a>
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)	<a href="http://www.tc.gc.ca/rappels">http://www.tc.gc.ca/rappels</a>

#### United States

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

## Contacting National Highway Traffic Safety Administration (NHTSA)

Mailing Address	Phone	Online
NHTSA Headquarters 1200 New Jersey Avenue SE West Building Washington, DC 20590	800-424-9153 (Hearing-Impaired) 888-327-4236 (Toll free)	<a href="https://www.nhtsa.gov/recalls">https://www.nhtsa.gov/recalls</a>

## 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.

### 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 (<https://www.weather.gov/>) 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.**

### 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.



### **⚠ NOTICE**

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.

### **⚠ IMPORTANT**

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

### **⚠ 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.

### **⚠ IMPORTANT**

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

### **⚠ IMPORTANT**

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.**

### WARNING

**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.

### 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.**

### AVERTISSEMENT

**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.**

DD-94



**⚠ IMPORTANT**

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.

**⚠ WARNING**

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).

**⚠ WARNING**

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

## ⚠ 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.

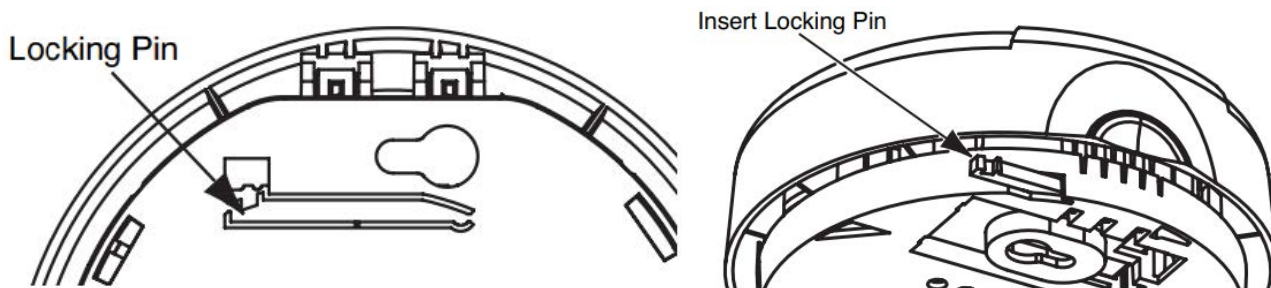
- Test it at least once a week.
- Clean the Smoke Alarm at least once a month; gently vacuum the outside of the Smoke Alarm using your household vacuum's soft brush attachment. Test the Smoke Alarm. Never use water, cleaners or solvents since they may damage the unit.
- If the Smoke Alarm becomes contaminated 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 ([Model: FG250RV, Newmar Part Number: 119606](#))

## 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 article 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.**

#### **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.

#### **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), or 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

<b>Welcome Chirp</b>	Horn chirps and light blinks once when batteries are first connected.
<b>Alarm Receiving Battery Power</b>	Light flashes every minute. Horn is silent.
<b>Low Battery Warning</b>	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.
<b>During Testing</b>	Light flashes RED with the horn pattern (4 beeps, pause, 4 beeps), simulating a CO Alarm condition.
<b>CO Alarm</b>	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!
<b>CO Alarm Requires Service (Malfunction Signal)</b>	The light flashes (RED) and the horn sounds 3 "chirps" every minute. CO Alarm needs to be replaced.
<b>CO Alarm Has Reached End of Life</b>	The light flashes (RED) and the horn sounds 3 "chirps" every minute. CO Alarm needs to be replaced.

### If the CO Alarm Sounds

### 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.
3. 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.**

### WARNING

**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. The 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.

#### 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 -).

#### 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.



## 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.

### ⚠ NOTICE

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.



# 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.

## ⚠ 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.**

## Before Scheduling Service Work for Your Appliance

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

## ⚠ IMPORTANT

**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.



## ⚠ NOTICE

**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.

### ! IMPORTANT

**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)

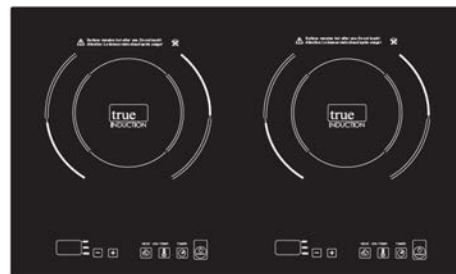
This article provides basic operation instructions for a True Induction 2-Burner Induction Cooktop (Model: TI-2B / S2F3).

### 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.

### ! NOTICE

**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.**

## 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 (Model: TI-2B (S2F3), Newmar Part Number: 145601) or True Induction 1800w 2-Burner Induction Black Landscape Electric Cooktop (Model: TI-2B, Newmar Part Number: 124108)*

# 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.

### IMPORTANT

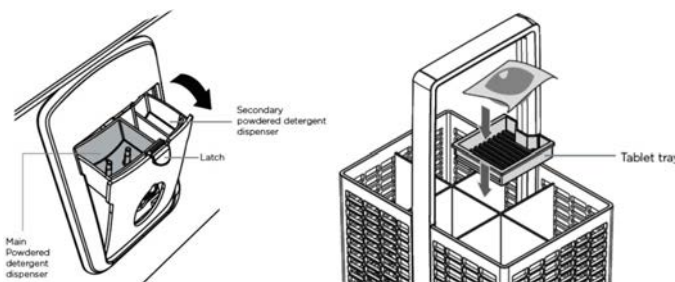
**Do not place liquid detergent or tablets in the detergent dispenser.**

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.
2. 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.
3. 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.

### IMPORTANT

**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.

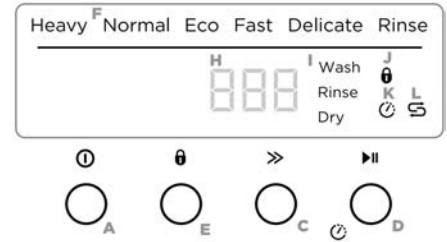
**(H) Display:** Time remaining (minutes). Fault code numbers.

**(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.**

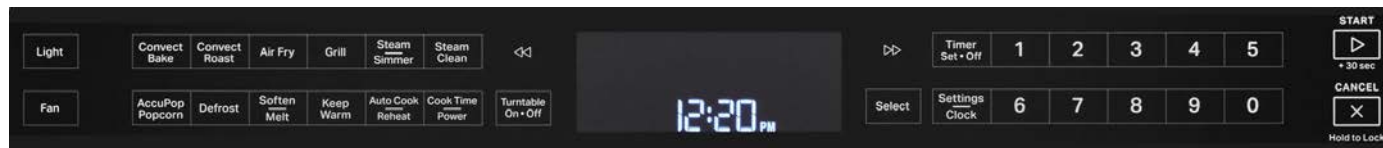
# MICROWAVES AND CONVECTION OVENS

## Whirlpool Convection Microwave with Air Fry Mode Quick Start (Model: YWMH78519LZ)

This article provides basic operation instructions for a Whirlpool Convection Microwave with Air Fry Mode (Model: YWMH78519LZ).

## Operating Your Microwave Oven

### Settings



**Clock:** The Clock is a 12-hour (12:00-11:59) or 24-hour (0:00-23:59) clock. Touch Settings/Clock to reach Clock submenu, and follow the prompts to set the Clock. Clock format (12 hours with AM and PM, 12 hours without AM and PM, or 24 hours) may also be set in the Clock submenu.

**Timer:** With the microwave oven in Standby mode, touch the Timer keypad, enter time, and then touch the Timer keypad or the Start keypad. Cook functions may be entered while the Timer is counting down. To cancel timer, touch Timer keypad while the Timer countdown is active in the display.

**Control Lock:** Activate to avoid unintended start. Touch and hold the Cancel keypad for about 3 seconds until 2 tones sound and Padlock icon appears in the display. Repeat to unlock control.

**Settings/Clock:** Settings/Clock may be adjusted: Set Clock; Scrolling Speed; Sound; Filter Reset; Fan Timer; Light Timer; Calibrate Temp; Demo Mode; Factory Reset.

**Scroll Speed:** Scroll speed of the text may be adjusted. Touch Settings/Clock to reach the Scroll Speed submenu and follow the prompts to set speed.

**Sound (Tones):** Programming tones and signals. Programming tones may be turned off or all tones (including end-of-function signals) may be turned off. Touch Settings/Clock to reach the Sound submenu, then follow the prompts to turn off or on the programming tones or all tones.

**Filter Reset:** If the charcoal filter is used for more than 6 months, from the last time the filter is reset, the 6 month duration will count continuously. If the Filter Alert condition is met, "Change the Charcoal Filter; Reset Alert through Setup or Settings" will shown on the display. Reset the filter status after replacing the charcoal filter. Touch Settings/Clock repeatedly to reach Filter Reset submenu. Touch Select or Start to reset. After reset, another 6 months duration will be resumed.





**Vent Fan:** Various speeds, ranging from high to low, and off. Comes on automatically as cooling fan during any cook function.

**Fan Timer:** Set vent fan to run for exactly 30 minutes or to run for only 30 minutes more (off after 30 minutes). The vent fan may be turned off at any time using the Vent Fan keypad. Touch Settings/Clock to reach the Fan Timer submenu and select the setting.

**Light Timer:** Set the cooktop light to turn on and off at certain times. Touch Settings/Clock to reach the Light Timer submenu and follow the prompts to set the light On time and light Off time in hours and minutes or to cancel Light Timer.

NOTE: Light Timer uses 12-hour clock only.

**Calibration:** The actual convection cooking temperature may be calibrated higher or lower than the displayed temperature. For example, if you want the microwave oven to be a bit hotter, you may try setting the calibration to +10°. Touch Settings/Clock to reach the Calibration submenu. Use number keypads to select temperature variations in degrees Fahrenheit: 1 = ±0° (reset to default), 2 = +5° (+2.8°C), 3 = +10° (+5.6°C), 4 = +15° (+8.3°C), 5 = +20° (+11.1°C), 6 = -5° (-2.8°C), 7 = -10° (-5.6°C), 8 = -15° (-8.3°C) and 9 = -20° (-11.1°C).

**Demo Mode:** Activate to practice using the keypad without actually turning on the magnetron. Touch Settings/Clock to reach the Demo mode submenu, then follow the prompts to activate. The Demo icon will light up in the display. Repeat to deactivate.

**Standby Mode:** When no functions are working (12-hour clock is displayed or if the clock has not been set), oven will switch to Standby Power mode and dim the LCD brightness after 5 minutes. Press any keypad or open/close the door, and display will return to the normal brightness.

## Features

**Convection Element and Fan:** The convection element and fan are embedded in the wall of the microwave oven cavity, behind the metal screen.

**Grill Element:** Depending on your model, the grill element has either one 1,000 W halogen bulb and one 500 W quartz bulb or two 600 W quartz bulbs. The halogen bulb glows very brightly, but the quartz bulb has a very faint glow that might not be visible.

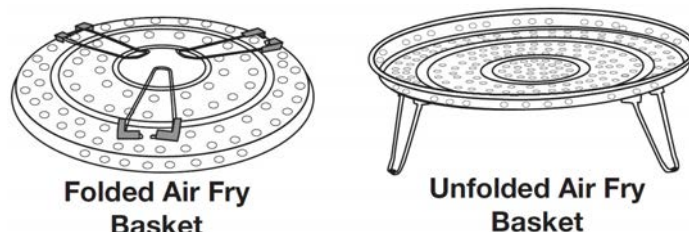
**Turntable On/Off:** Turntable may be turned off for manual cooking only. This is helpful when cooking with plates that are bigger than the turntable or when cooking with plates that are side by side. Turntable cannot be turned off during preset or sensor (on some models) functions.

## Accessories

### Air Fry Basket

Use the provided air fry basket for air frying and grilling. The air fry basket can be folded when cleaning in the dishwasher or storing.

NOTE: When cooking juicy meats, a microwave-safe, ovenproof dish or pan can be placed on the turntable and under the Air fry basket to catch the drippings.

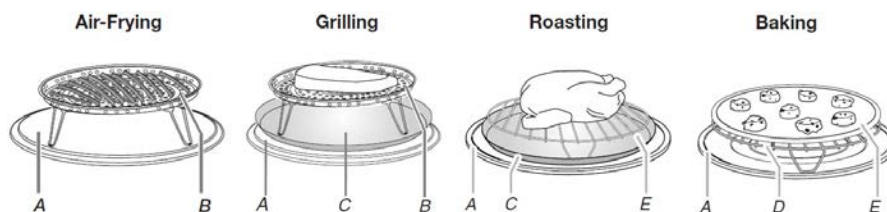


### Convection Rack

Use the short convection rack for convection cycles (baking or roasting). Place cookware directly on rack for bake and for some roast functions. Some roast functions require that the food be placed directly on the rack. Use a microwave-safe, ovenproof dish or pan under the rack to catch the drippings.

### Accessory Configurations

- (A) Turntable
- (B) Air Fry Basket
- (C) Microwave-Safe, Ovenproof Dish (Not Provided)
- (D) Convection Rack



## Microwave Oven Use

### To Cook with Only Microwave Power

Touch Cook Time/Power, touch number keypads to enter time, touch Cook Time/Power (if not 100%), touch number keypads to enter power level (10-90), then touch the Start keypad.

If programming additional stages (up to three), touch Settings/Clock to enter programming for the next stage, then enter the cook time and cook power of each, then touch the Start keypad.

### Sensor Cooking

A sensor in the microwave oven detects moisture released from food as it heats and adjusts the cooking time accordingly.

Make sure microwave oven has been plugged in for at least 1 minute. Use microwave-safe dish with loose-fitting lid or cover microwave-safe dish with plastic wrap, and vent. For optimal performance, wait at least 30 minutes after convection cooking or grilling (on some models) before sensor cooking.

### To Cook with Convection

Use the provided convection rack and a microwave-safe, oven-proof baking dish.

Microwave oven cavity, inside of the door, convection rack, and baking dish will be hot. Use oven mitts to remove the dish and to handle the hot convection rack.

Touch Convection Bake and Select Manual Convection Bake.

Use number keypads to enter a temperature, 250°F (121°C) to 450°F (232°C). Touch Time/Power, and enter time in hours and minutes, up to 4 hours.

Touch Convection Roast and Select Manual Convection Roast.

Use number keypads to enter a temperature, 250°F (121°C) to 450°F (232°C). Touch Time/Power, and enter time in hours and minutes, up to 4 hours. To add microwave power if desired, touch Time/Power, and enter power level, from 10% to 30%.

Touch START to begin preheat. Preheat may be skipped by touching START again. After preheat, place baking dish with food on the convection rack, then touch START to begin cooking.

### Add More Time

At the end of any cycle using less than 100% cook power, "PRESS 0 TO ADD MORE TIME" scrolls in the display. Enter the additional time, if desired, and start the microwave oven. The cook power for all non-sensor cycles will be the same as in the finished cycle but may be changed. If Add More Time is used after a sensor cycle, the cook power will be 100% but may be changed.

### Doneness

Adjust doneness for automatic cooking functions by touching Cook Time/Power repeatedly to scroll through "NORMAL," "MORE DONE," or "LESS DONE" within the first 20 seconds of starting the cook cycle. Doneness cannot be adjusted for Defrost functions.

### Keep Warm

#### WARNING

**Food Poisoning Hazard - Do not let food sit in oven more than one hour before or after cooking. Doing so can result in food poisoning or sickness.**

Hot cooked food can be kept warm in the microwave oven. The Keep Warm function uses 10% cook power. Keep Warm can be used by itself or can be programmed to follow a cooking cycle. Opening the door during Keep Warm will cancel the function.

## Microwave Oven Care

### General Cleaning

#### IMPORTANT

**Before cleaning, make sure all keypads are Off and the microwave oven is cool. Always follow label instructions on cleaning products.**

- To avoid damage to the microwave oven caused by arcing due to soil buildup, keep cavity, microwave inlet cover, cooking rack supports, and area where the door touches the frame clean.
- Clean with mild soap, water, and a soft cloth or sponge or as indicated below.
- Grease filter: Mild soap and water or dishwasher.
  - Door and exterior: Mild soap and water, or glass cleaner applied to paper towel.
  - Control panel: Sponge or soft cloth and water.
  - Stainless steel (on some models): Mild soap and water, then rinse with clean water and dry with soft cloth, or use stainless steel cleaner.
  - Turntable: Mild soap and water or dishwasher.
  - Rack(s): Mild soap, water, and washcloth. Dishwasher cleaning is not recommended.
  - Air fry basket: Mild soap, water and washcloth. It is easy to clean in the dishwasher after folding the legs.
  - Steamer vessel: Mild soap, water, and soft brush or dishwasher.

Installing/Replacing Filters and Light Bulbs

NOTICE

A filter status indicator appears in the display when it is time to replace the charcoal filter. See the “Settings” section to reset filter status.

- Grease filters: Grease filters are on the underside of the microwave oven. Clean at least monthly. Slide the filter away from the tab area and drop out the filter. To Install, place end of the filter into the tab area, slide the other end into the opposite tab area.
- Charcoal filters: The Charcoal filters are behind the vent grille at the top front of the microwave oven. The charcoal filters cannot be cleaned and should be replaced every 6 months as prompted on the display. Remove 3 screws on the vent grille, tilt the grille forward, lift it out, and remove filters. To reinstall, place the filters into their slotted area wire mesh side up, replace vent grille, and secure with screws. After replace the charcoal filters. See the “Settings” section to reset filter status.
- Cooktop light: The cooktop light is located on the underside of the microwave oven and is replaceable. Remove bulb cover screw and open the bulb cover. Replace bulb, close bulb cover, and secure with screw.
- Cavity light: The cavity light bulb is located behind the vent grille at the top front of the microwave oven, under the bulb cover, and is replaceable. Remove three screws on the vent grille, tilt the grille forward, and lift it out. Open bulb cover and replace bulb. Close bulb cover, replace vent grille, and secure with screws.

Source(s): Whirlpool Microwave Hood Combination User Guide (REV W11603630B)  
Product(s): [Whirlpool WMH78519LZ 1.9 Cu. Ft. Microwave with Air Fry Mode \(Model: WMH78519LZ, Newmar Part Number: 166325\)](#)

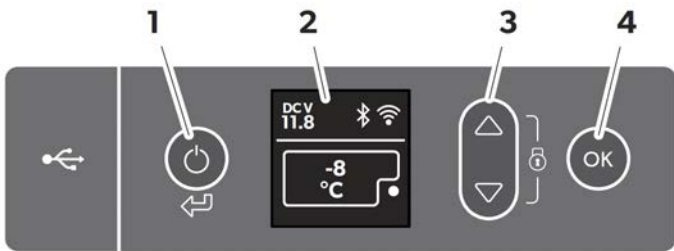
REFRIGERATORS, FREEZERS, AND ICE MAKERS

Exterior Portable Freezers

Dometic Exterior Portable Freezer Quick Start (Model: CFX3-25)

This article provides basic operation instructions for a Dometic Exterior Portable Freezer (Model: CFX3-25).

Operating and Display Elements



Item	Description	Explanation
1		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
2	Display	Shows the information ac : AC power supply is connected dcv: DC power supply is connected : Bluetooth is activated : WiFi is activated : Display is locked : Compressor is working : Ice maker is working (CFX3 55IM only)
3		Press  to navigate upwards or to increase the selected value. Press  to navigate downwards or to decrease the selected value. Press  and  simultaneously for 3 s to lock or unlock the display.
4		Press to select a menu or to save the selected value.



## Using the Cooler

### ⚠ IMPORTANT

**Risk of overheating** - Ensure at all times that there is sufficient ventilation so that the heat that generated during operation can dissipate. Ensure that the ventilation slots are not covered. Make sure that the device is sufficiently far away from walls and other objects so that the air can circulate.

### ⚠ NOTICE

**When operating with the battery**, the display switches off automatically if the battery voltage is low.

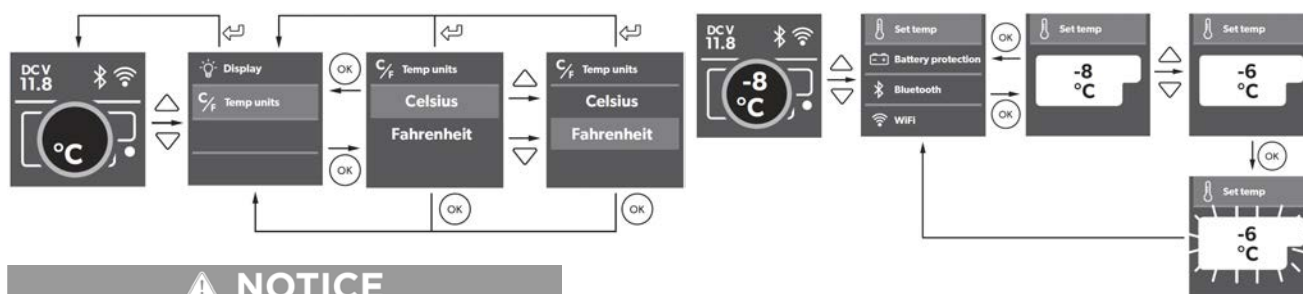
**Navigating Through the Menus:** The highlighted menu is selected. Press the UP arrow to navigate upwards. Press the DOWN arrow to navigate downwards. Press OK to select the required menu.

**Changing Settings:** The highlighted value or setting is selected. Press the UP arrow to increase the selected value or to choose the previous setting. Press the DOWN arrow to decrease the selected value or to choose the next setting.

**Returning to the Previous Menu:** Press the BACK arrow to return to the previous menu without saving.

**Locking/Unlocking the Display:** Press UP and DOWN arrow simultaneously for three (3) seconds to lock or unlock the display.

## Selecting the Temperature Units and Setting the Temperature



### ⚠ NOTICE

**Damage hazard from excessively low temperature!!!** Ensure that only those objects are placed in the cooler that are intended to be cooled at the selected temperature.

## Using the Battery Protection

The device is equipped with 3-stage battery protection. The battery protection pre-vents excessive discharging when the device is connected to a vehicle starter battery or maximizes the use of a supply battery.

If the cooler is operated when the vehicle ignition is switched off, the cooler switches off automatically as soon as the supply voltage falls below a set level. The cooler will switch back on once the battery has been recharged to the restart voltage level.

### ⚠ NOTICE

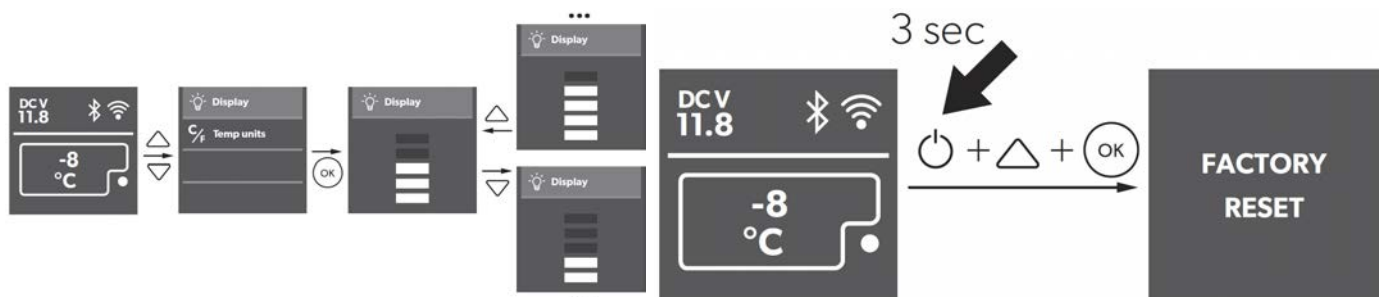
**Damage hazard** - When switched off by the battery protection, the battery will no longer be fully charged. Avoid starting repeatedly. Ensure that the battery is recharged.

### ⚠ NOTICE

**When the cooler is supplied by a starter battery**, select the battery protection mode “MEDIUM” or “HIGH”. If the cooler is connected to a supply battery, the battery protection mode “LOW” is ideal.

## Setting the Display's Brightness or Resetting to Factory Settings

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

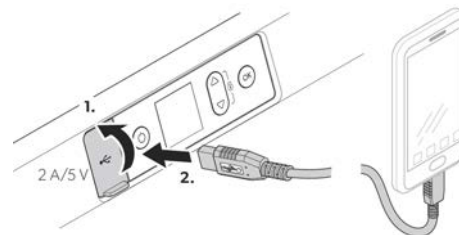


## USB Port for Power Supply

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

### ⚠ NOTICE

**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.

### ⚠ NOTICE

**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: Take out the contents of the cooler. If necessary, place them in another cooling device to keep them cool. Switch off the device. Leave the lid open. Wipe off the defrosted water.

## CFX 3 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. For more information about connecting to the app, refer to the complete operation manual provided by Dometic.

## Cleaning and Maintenance

### ⚠ NOTICE

**Never clean the cooler under running water or in dish water. Do not use abrasive cleaning agents or hard objects during cleaning as these can damage the cooler.**

Occasionally clean the device interior and exterior with a damp cloth. Make sure that the air inlet and outlet vents on the device are free of any dust and dirt, so that heat can be released and the device is not damaged.

*Source(s): Dometic Mobile Cooling CFX3 Compressor Cooler Operating Manual*

*Product(s): Dometic CFX3 25 Exterior Portable Freezer (Model: CFX3 25, Newmar Part Number: 161630)*

## 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.

## Whirlpool French Door Refrigerator with Water Dispenser Quick Start (Model: WRF560SE)

This article provides basic operation instructions for a Whirlpool French Door Refrigerator with Water Dispenser (Models: WRF560SEHZ and WRF560SEYM).

There are two refrigerator compartment doors. The doors can be opened and closed either separately or together. There is a vertically-hinged seal on the left refrigerator door. When the left-hand refrigerator door is opened, the hinged seal automatically folds inward so that it is out of the way. When both doors are closed, the hinged seal automatically forms a seal between the 2 doors.

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Using the Controls

**⚠ IMPORTANT**

**Wait 24 hours for your refrigerator to cool completely before adding food. If you add food before the refrigerator has cooled completely, your food may spoil. Adjusting the refrigerator and freezer temperature controls to a colder than recommended setting will not cool the compartments any faster.**

The recommended setting should be correct for normal household refrigerator use. The controls are set correctly when milk or juice is as cold as you like and when ice cream is firm.

If the temperature is too warm or too cold in the refrigerator or freezer, first check the air vents to be sure they are not blocked before adjusting the controls.

Depending on your model, your refrigerator has either an internal control panel, located at the top of the refrigerator compartment, or an external control panel, located above the external water dispenser. Follow the instructions specific to your model.

The display screen on the dispenser control panel will turn off automatically and enter “sleep” mode when the control buttons and dispenser paddles have not been used for 2 minutes or more. While in “sleep” mode, the first press of a control button will only reactivate the display screen, without changing any settings. After reactivation, changes to any settings can then be made. If no changes are made within 2 minutes, the display will re-enter “sleep” mode. Touch any control button on the dispenser panel to activate the display screen.

Temperature Control

For your convenience, the temperature control is preset at the factory. When you first install your refrigerator, make sure the control is still set to the recommended setting (3 Snowflakes).

Adjusting the Controls

If you need to adjust the temperature in either the refrigerator or freezer compartment, use the settings listed in the following chart as a guide. Press the Temp button to display the desired number of snowflakes from 1 snowflake (least cold) to all 5 snowflakes (coldest).

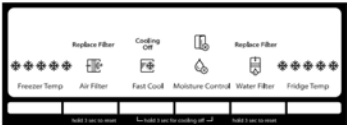
NOTE: Except when starting the refrigerator, do not adjust the control more than one setting at a time. Wait 24 hours between adjustments for the temperature to stabilize.

Condition/Reason	Adjustment
Refrigerator too warm	Fridge Temp: One more snowflake
Freezer too warm or too little ice	Freezer Temp: One more snowflake
Refrigerator too cold	Fridge Temp: One less snowflake
Freezer too cold	Freezer Temp: One less snowflake

Cooling On/Off

Internal Control Panel

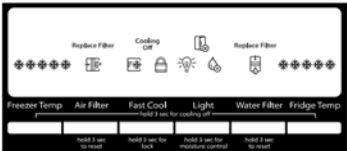
To turn cooling off, press and hold both the Fast Cool and Moisture Control buttons at the same time for 3 seconds. When cooling is OFF, “Cooling Off” will appear on the display screen.



To turn cooling back on, press and hold both the Fast Cool and Moisture Control buttons at the same time for 3 seconds. When cooling is ON, “Cooling Off” will disappear and the previously selected settings will appear on the display screen.

External Control Panel

To turn cooling off, press and hold both the Freezer Temp and Fridge Temp buttons at the same time for 3 seconds. When cooling is off, “Cooling Off” will appear on the display screen.



To turn cooling back on. Press and hold both the Freezer Temp and Fridge Temp buttons at the same time for 3 seconds. When cooling is on, “Cooling Off” will disappear and the previously selected settings will appear on the display screen.

## Additional Features

### Door Open Alarm

The Door Open icon lights up whenever either door is opened.

When either door is open for 5 minutes and cooling is on, an alert tone will sound three times, and the Door Open icon will flash seven times. This pattern will repeat every 2 minutes until all the doors are closed properly. The feature then resets and will reactivate when either door is left open again for 5 minutes.

#### NOTES:

- To mute the audible alarm while keeping the doors open, such as while cleaning the inside of the refrigerator, press any button on the control panel. The alarm sound will be temporarily turned off, but the Door Open icon will still be displayed on the dispenser control panel.
- Both doors must be fully closed to turn off the Door Open icon.

### Fast Cool

The Fast Cool feature assists during times of high refrigerator use, full grocery loads or temporarily warm room temperatures.

Press FAST COOL to set the freezer and refrigerator to the coldest temperature settings. Press FAST COOL again to return to the selected temperature set point.

#### NOTES:

- The Fast Cool icon will be illuminated while the refrigerator is in Fast Cool mode.
- The Fast Cool feature will turn off automatically after 24 hours.

### Moisture Control

The moisture control feature turns on a heater to help reduce moisture on the door hinge seal. Use in humid environments or when you notice moisture on the door hinge seal. The refrigerator uses more energy when Moisture Control is ON.

NOTE: The moisture control icon will light up to indicate the feature is ON. To turn on/off the moisture control feature:

- Internal Control Panel - Press and hold MOISTURE CONTROL for 3 seconds.
- External Control Panel - Press and hold LIGHT for 3 seconds.

### Water Filter Status Light and Reset

The filter reset control allows you to restart the water filter status tracking feature each time you replace the water filter.

Press and hold WATER FILTER for 3 seconds, to reset the water filter status to Good. The water filter icon will turn blue.

### Air Filter Status Light and Reset

The filter reset control allows you to restart the air filter status tracking feature each time you replace the air filter.

Press and hold AIR FILTER for 3 seconds, to reset the air filter status to Good. The air filter icon will turn blue.

### Water Dispenser (on some models)

#### IMPORTANT

**Allow 3 hours for the refrigerator to cool down and chill water. Allow 24 hours to produce the first batch of ice. Discard the first three batches of ice produced. The dispensing system will not operate when the refrigerator door is open.**

### Flush the Water System

Air in the water dispensing system can cause the water dispenser to drip. After connecting the refrigerator to a water source or replacing the water filter, flush the water system. Flushing the water dispensing system forces air from the water line and filter and prepares the water filter for use. Additional flushing may be required in some households.

NOTE: As air is cleared from the system, water may spurt out of the dispenser.

1. Using a sturdy container, depress and hold the water dispenser paddle for 5 seconds.
2. Release the dispenser paddle for 5 seconds.
3. Repeat steps 1 and 2 until water begins to flow.
4. Once water begins to flow, continue depressing and releasing the dispenser paddle (5 seconds on, 5 seconds off) until a total of 4 gal. (15 L) has been dispensed.

## Dispense Water

### IMPORTANT

The dispensing system will not operate when the refrigerator door is open. The display screen on the dispenser control panel will turn off automatically and enter “sleep” mode when the control buttons and dispenser paddles have not been used for 2 minutes or more. While in “sleep” mode, the first press of a control button will only reactivate the display screen, without changing any settings. After reactivation, changes to any settings can then be made. If no changes are made within 2 minutes, the display will re-enter “sleep” mode.

To dispense water, press a sturdy glass against the water dispenser paddle. Remove the glass to stop dispensing.

## Dispenser Light

When you use the dispenser, the light will automatically turn on. If you want the light to be on continuously, you may turn on the light. The light icon will illuminate when the light is ON.

ON: Press LIGHT quickly to turn on the dispenser light. OFF: Press LIGHT quickly to turn off the dispenser light.

### NOTES:

If you unintentionally press and hold the Light button for 3 seconds or longer, you will turn on the Moisture Control feature. If this happens, press and hold LIGHT for 3 seconds again to turn off the Moisture Control feature. The dispenser lights are LEDs that cannot be changed.

## Dispenser Lock

The dispenser can be turned off for easy cleaning or to avoid unintentional dispensing by small children and pets.

NOTE: The lock feature does not shut off power to the refrigerator, to the ice maker, or to the dispenser light. It simply deactivates the controls and dispenser paddles.

- Press and hold FAST COOL for 3 seconds to lock the dispenser.
- Press and hold FAST COOL for 3 seconds again to unlock the dispenser. The lock icon will illuminate when the dispenser is locked.

## Ice Maker

### IMPORTANT

For models with a water filter, after connecting the refrigerator to a water source or replacing the water filter, fill and discard 3 full containers of ice to prepare the water filter for use.

## Turning the Ice Maker On/Off

To turn on the ice maker, simply lower the wire shut-off arm. To manually turn off the ice maker, lift the wire shut-off arm to the OFF (arm up) position and listen for the click.

NOTE: Your ice maker has an automatic shutoff. As ice is made, the ice cubes will fill the ice storage bin and the ice cubes will raise the wire shut-off arm to the OFF (arm up) position. Do not force the wire shut-off arm up or down.

## Ice Storage Bin

1. Wash the ice storage bin with mild soap and warm water.
2. Slide the ice storage bin under the ice maker and push it toward the back as far as it will go.
3. Lower the arm on the ice maker to the ON position.

NOTE: It usually takes approximately 24 hours for the ice maker to begin producing ice. You may notice the ice has an “off-taste.” If so, discard the first 3 batches of ice produced. After that the “off-taste” should be gone.

## Ice Production Rate

The ice maker should produce approximately 8 to 12 batches of ice in a 24-hour period. Allow 3 days to completely fill the ice container.

To increase ice production, lower the freezer and refrigerator temperature. Wait 24 hours between adjustments.

The quality of your ice will be only as good as the quality of the water supplied to your ice maker. Avoid connecting the ice maker to a softened water supply. Water softener chemicals (such as salt) can damage parts of the ice maker and lead to poor quality ice. If a softened water supply cannot be avoided, make sure the water softener is operating properly and is well maintained.

Do not use anything sharp to break up the ice in the bin. This can cause damage to the ice storage bin and the dispenser mechanism.

Do not store anything on top of or in the ice maker or ice storage bin.

Source(s): Whirlpool WRF560 Refrigerator User Instructions

Product(s): Whirlpool Stainless Steel 20 Cu Ft Refrigerator with Water in Door (Model: WFR560SEHZ, Newmar Part Number: 146572) and Whirlpool 19.6 Cu Ft Monochromatic Stainless Steel French Door Refrigerator w/ Thru-the-Door Water Dispenser (Model: WRF560SEYM, Newmar Part Number: 130238)

## 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 (Model: CS-RM, Newmar Part Number: 142013)

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# 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.

### 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 be used to direct waste to the dump station for proper disposal. For more information about draining the waste water holding tanks, refer to the Waste Water Disposal article in Newgle.
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 overflowing the waste water tank.



#### ⚠ 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.**

#### NOTICE

**Remove outside drain cap before operating washing machine.**

NI-12

### P-Traps

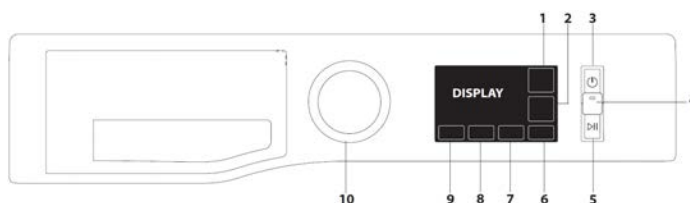
Each of the sink drains, the shower drain, and the washing machine drain (if equipped) has a water trap to prevent holding tank odors from entering the coach. These traps must have water in them in order to trap the odors. While stored, the water may evaporate, allowing an odor to enter the coach. If 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 RINSE 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.)

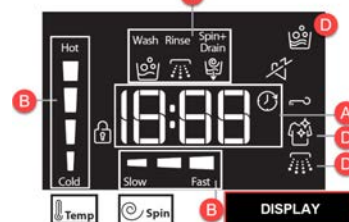
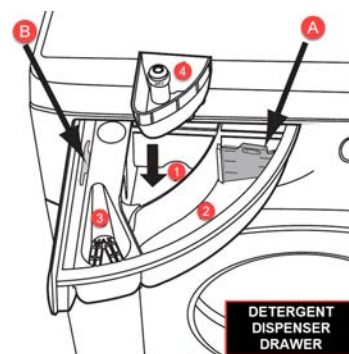
- The fabric softener should not overflow the grid.

**Extra Compartment 4:** Bleach

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 ([Model: WFL1300XD, Newmar Part Number: 156340](#))

## Splendide Tumble Dryer Quick Start (Model: DV6500X)

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

### Control Panel

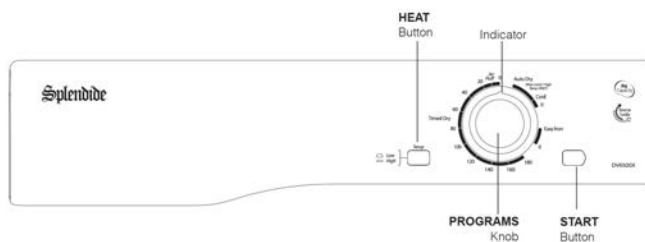
The START button begins drying a selected program.

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.

#### **⚠ WARNING**

**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)

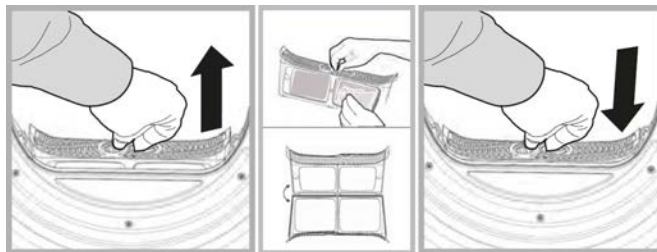
Do not overload the dryer as this could result in reduced drying performance.

## 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): [Splendide DV6500X 120v Dryer \(Model: DV6500X, Newmar Part Number: 162308\)](#)

# MISCELLANEOUS SMALL APPLIANCES

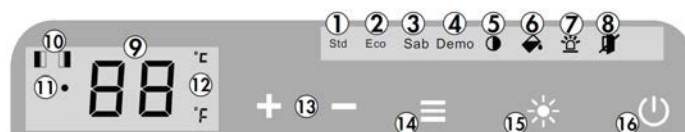
## Silhouette Lorraine 24" French Door Beverage Centre Quick Start (Model: SPRBC047D1SS)

This article provides basic operation instructions for a Silhouette Lorraine 24" French Door Beverage Centre (Model: SPRBC047D1SS).

## Operating Instructions

### Control Panel

1. **Standard mode indicator light**
2. **Energy saving mode indicator light**
3. **Sabbath mode indicator light**
4. **Demo mode indicator light**
5. **Interior light setting indicator light**
6. **Interior light colour setting indicator light**
7. **Alarm indicator light**
8. **Disable door alarm indicator light**
9. **Display panel:** Shows the set temperature.
10. **Left and right chamber indicator lights:** Illuminates to show which chamber setting is being modied.
11. **Power indicator light:** Illuminates when the compressor is running.
12. **Temperature scale indicator lights**
13. **Increase and decrease buttons:** Used to increase or decrease the set temperature in 1° increments.
14. **Mode button:** Press to toggle between standard and energy saving mode. The relevant indicator light will illuminate. The appliance will default to standard mode.
15. **Light Button:** Used to set the light mode.
16. **Power button:** Press to turn the appliance on. Press and hold for 3 seconds to turn the appliance off.



## Interior Light

The interior light will default to turning on and off when the door is opened or closed. Press the light button once to turn the light off while the door is open. The light will resume default functioning when the door is closed. There are four light mode settings:

- L1: The light will turn on and off when the door is opened and closed.
- L2: The light will remain on indenitely at 100% illumination.
- L3: The light will remain on for 120 minutes at 100% illumination and then resume default operation.
- L4: The light will remain on for 120 minutes at 50% illumination and then resume default operation.



To change the light setting, press the light button once to display the current setting. Press the light button repeatedly to choose the desired light setting. The display will flash the chosen setting 5 times to confirm.

## Interior Light Color

The interior light can be set to either white or blue. Press and hold the light button for 3 seconds until the interior light color symbol flashes, then press the light button to toggle between a white or blue light. The interior light colour setting indicator light will flash 5 times to confirm.

## Beverage Zone (left side)

- The default temperature setting is 43°F (6°C).
- The temperature can be set as low as 34°F (1°C) or as high as 50°F (10°C).
- If the inner cabinet temperature is lower than 28.4°F (-2°C) the alarm indicator light will illuminate and an alarm will sound.
- If the inner cabinet temperature remains lower than 28.4°F (-2°C) for more than 30 minutes, the error code "CL" will show on the display, the alarm indicator light will illuminate and an alarm will sound. The appliance will stop functioning to prevent the contents from freezing.

## Beverage Zone (right side)

- The default temperature setting is 54°F (12°C).
- The temperature can be set as low as 41°F (5°C) or as high as 64°F (18°C).
- If the inner cabinet temperature is lower than 32°F (0°C) the alarm indicator light will illuminate and an alarm will sound.
- If the inner cabinet temperature remains lower than 32°F (0°C) for more than 30 minutes, the error code "CL" will show on the display, the alarm indicator light will illuminate and an alarm will sound. The appliance will stop functioning to prevent the contents from freezing.

Actual temperature inside the appliance can vary based on ambient temperature, how often the door is opened and how many warm bottles have recently been added to the appliance.

The default temperature scale is °F. To switch the display between °F and °C, press the increase and decrease buttons simultaneously for approximately 3-5 seconds.

If the inner cabinet temperature in either zone is higher than 73°F (23°C) for one hour, the error code "HI" will show on the display, the alarm indicator light will illuminate and an alarm will sound.

If the appliance loses power, the control panel will remember the set temperature. Once power is restored, the appliance will return to normal functioning automatically.

## Open Door Alarm

If the door is not closed completely for 5 minutes, the alarm indicator light will illuminate and an alarm will sound.

The open door alarm can be silenced temporarily by pressing the power button once. The alarm indicator light will remain illuminated and the interior light will continue to flash until the door is closed.

If the door is closed and the alarm continues to sound, check that the actuator at the bottom of the door is making contact with the switch on the appliance.

## Disable Open Door Alarm

The audible door alarm can be permanently turned off if desired. The alarm indicator light and the interior light will continue to illuminate if the door is left open for more than 5 minutes.

To disable the open door alarm, press and hold the mode button and the light button at the same time for 3 seconds until the disable door alarm indicator light illuminates. In future if the door is left open the alarm indicator light and the interior light will still flash, but the audible door alarm will not sound.

## Sabbath Mode

Sabbath mode can be used to disable all interior lights and sounds from the appliance.

Press and hold the increase button and the mode button at the same time for 5 seconds to enable Sabbath mode. The SAB symbol will illuminate and the display will show "Sb" to indicate that Sabbath mode is active.

Press and hold the increase button and the mode button for 5 seconds to return the appliance to standard mode.



## Energy Saving Mode

Energy saving mode will turn off the interior light, the control panel lights and the display. The energy saving mode indicator light will illuminate.

Pressing the increase or decrease button will cause the display to turn on for 5 seconds before resuming energy saving mode.

## Demo Mode

Demo mode is only intended to be used on the sales floor. It can be used to show how the appliance will look while running without engaging the compressor or the cooling function. The fan will run on low speed but all alarms and beeping will be disabled.

Press and hold the increase button and the power button at the same time for 10 seconds to enable demo mode. The demo mode indicator light will illuminate.

Press and hold the increase button and the power button at the same time for 10 seconds to return the appliance to standard mode.

## Storage Instructions

The maximum capacity of this appliance is 21 (750 ml) wine bottles and 61 (355 ml) cans.

**Wine Compartment (Right):** It will be necessary to position the bottles alternately on the upper six shelves. This will allow for the storage of 4 750ml bottles on the top shelf, 3 bottles per rack on each of the four shelves and 5 bottles on the bottom.

**Beverage Compartment (Left):** It will be necessary to position the cans alternately on the upper three shelves. This will allow for the storage of 17 355ml cans per shelf in each of the top three shelves, and 10 cans on the bottom.

## Shelf Instructions

To remove glass shelves:

1. Lift the back of the shelf up so the shelf pegs are above the lower rail.
2. Slide the shelf out of the unit with the pegs on the upper rail.

To remove wine shelves:

1. Fully extend the shelf you wish to remove.
2. Lift the front of the shelf up.
3. Holding the shelf track, push the shelf in, then up to release from the rear dampers.

### **IMPORTANT**

**Do not cover the gap on the shelves with aluminum foil or any other material that will prevent adequate air circulation within the cabinet.**

## Care and Maintenance

### Cleaning

Ensure the appliance is unplugged before cleaning.

- To clean the inside of the appliance, use a soft cloth and a solution of a tablespoon of baking soda to one quart of water or a mild soap solution or some mild detergent.
- Wash removable shelves in a mild detergent solution, then dry and wipe with a soft cloth.
- Clean the outside with a soft, damp cloth and some mild detergent.
- It is important to keep the area clean where the door seals against the cabinet. Clean this area with a soapy cloth. Rinse with a damp cloth and let dry.

**Note:** Do not use cleaners containing ammonia or alcohol on the appliance. Ammonia or alcohol can damage the appearance of the appliance. Never use any commercial or abrasive cleaners or sharp objects on any part of the appliance.

*Source(s): Silhouette Beverage Center SPRBC047D1SS Owner's Manual (2019.12.17)*

*Product(s): Silhouette Beverage Center (Model: SPRBC047D1SS, Newmar Part Number: 168896)*

# 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.

## ⚠ 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: <http://www.fccrv.com/owners/>
- Email: [fccservice@daimler.com](mailto:fccservice@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 Super C M2 PLUS Instrumentation Control Unit (ICUC) Quick Start Guide

This article provides an overview of the Freightliner M2 PLUS Instrumentation Control Unit (ICUC) installed on Super C coaches beginning with the 2024 model year.

#### Instrumentation Control Unit: ICUC

The instrumentation control unit (ICU) provides the driver with engine and vehicle information. An M2 Plus vehicle will be equipped with an ICUC. This section provides general system and operating instructions for ICUC components.

The instrument cluster unit is comprised of six physical gauges, indicator lamps (telltales), a six inch portrait driver display screen, steering wheel mounted switches, and audible warning systems. Warning and indicator lamps illuminate in red (warning), amber (caution), green (status on), or blue (informational).



The driver display screen provides information on various vehicle systems as well as warnings, cautions, and notifications on systems status.

## Ignition Sequence

When the ignition is turned on, the ICU runs a self-check. Observing the ignition sequence is a good way to ensure the ICU is functioning properly.

### **⚠ WARNING**

**Do not crank the engine until the ICU self-check is complete.**

Note: Air gauges in the ICUC do not complete a sweep of their dials during the ignition sequence.

When the ignition is turned on, the following actions should occur in the ICUC:

- Freightliner and engine logo displays on the driver display until startup is complete
- Speedometer and tachometer complete a full sweep of their dials
- Warning and indicator lamps illuminate, then are extinguished (if not active)
- Audible alert sounds for any active faults
- Active alerts are displayed on the ICUC screen.

If the ICUC receives active fault codes, it displays them one after the other until the ignition is turned off. The alerts are displayed until they are acknowledged. If there are no active faults, the ICUC displays the home screen after the self-check completes.

### **⚠ IMPORTANT**

**If any red or amber warning and indicator lamps do not illuminate during the ICUC self-check or do not go out (if not active) after the self-check completes, take the vehicle to an authorized Freightliner service facility as soon as possible.**

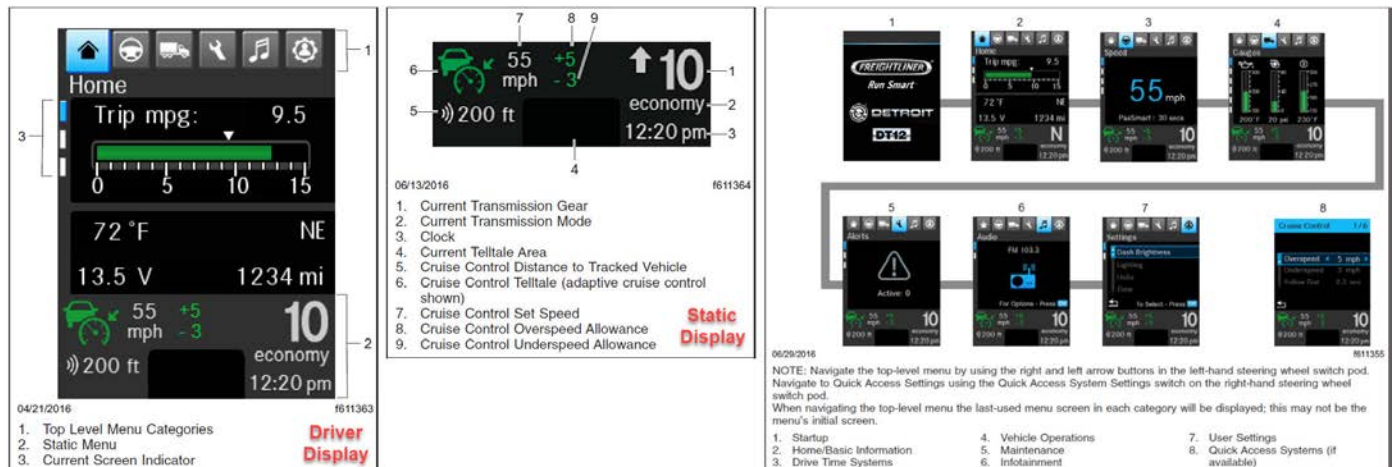
If active faults are present, take the action outlined in "Warnings, Indicators, and Messages" tables in [the Freightliner Business Class M2 PLUS Driver's Manual], then take the vehicle to an authorized Freightliner service facility as soon as possible.

## ICUC Screen Navigation

In the ICUC, the driver display screen is broken up into three areas: a navigable menu at the top of the screen, a static display at the bottom of the screen, and the central display area (with screen indicator dashes to communicate how many display screens are available in the current menu category).

To adjust the brightness of ICUC screen, go to User settings. The ICUC top level menu categories allow a driver to quickly carry out common actions. Top level menu categories are Home, Drive Time Systems, Vehicle Operations, Maintenance, Infotainment, and User Settings.

The static menu display at the bottom of the screen displays the current vehicle speed, transmission gear, cruise control information, a clock, and active telltales.



## ICUC Steering Wheel Switch Pods

To navigate the ICUC menus, use the 'Menu Right' and 'Menu Left' arrows on the left-hand steering wheel switch pod to move between the top-level menus. Use the 'Menu Up' and 'Menu Down' buttons to move from screen to screen within the selected category.

For Quick Access Systems menus press the Quick Access System Settings button in the right-hand switch pod. If Quick Access Systems menus are not available, the button will bring up the home screen.



## Driver Display Overview: ICUC

### ICUC Alert Messages

Alert messages include warnings, cautions, and notices that require the driver's attention. The header text and color indicates the priority of the on-screen message, listed from the highest to the lowest:

- Warning (red)
- Caution (amber)
- Informational (blue, green, white, and grey)

Warnings alert the driver to situations or conditions that may pose a threat to control of the vehicle. Follow all instructions given in the message.

Cautions alert the driver to situations or conditions that may result in damage to vehicle components or a derating of engine power.

Informational notices alert the driver to situations or conditions that may affect vehicle performance.

## Digital Gauges and System Monitors: ICUC

### ICUC Gauges

In the ICUC there are six digital gauges and system screens for the Diesel Particulate Filter (DPF) and Tire Pressure Monitoring System (TPMS).

The six digital gauges under the Vehicle Operations menu of the driver display are:

- Engine Oil Temperature
- Turbo Boost Pressure
- Transmission Oil Temperature
- Front Axle Oil Temperature
- Rear Axle Oil Temperature
- Application Air Pressure

In the ICUC, if a value measured by a digital gauge exceeds the normal range, an amber caution or red danger popup message will appear. However the bar graph color will remain green and the bar graph icons will remain white.

NOTE: The order of ICUC digital gauges and therefore the screen on which they display can be changed under Gauge Settings under Settings.

## Warnings, Indicators, and Messages

### Audible Alerts: ICUC

An audible alert sounds whenever one of the following conditions exists:

- Engine oil pressure falls below the minimum preset value.
- Coolant temperature rises above the maximum preset value.
- Air pressure falls below approximately 70 psi (483 kPa).
- Parking brake is set with the vehicle moving faster than 2 mph (3 km/h).
- System voltage falls below 11.9 volts.
- Door is unlatched with the parking brake off.

Optional audible alert sounds whenever one of the following conditions exists:

- Driver seat occupancy sensor reads someone in the seat with the seat belt not fastened and the parking brake off.
- Key is in the ignition and the door is unlatched.



## Warnings, Indicators, and Messages

Warning and indicator lights (telltales) with icon symbols are displayed on the physical dashboard and on ICU screens. The positions of the telltales and warnings vary, but most telltale symbols are standard. See the below tables for a listing of different warnings and telltales in addition to messages and popup screens.

The colors of telltales and warnings indicate the hazard level: red (warning), amber (caution), green and blue (active status), grey (passive status), white (informational). Blue is currently used to indicate an active phone call, that a software download is available, and that utility lamps and high beams are on.

### **IMPORTANT**

**Depending upon local jurisdictional emissions guidelines, vehicles and/or engines that are domiciled outside of the U.S. and Canada may not be compliant with EPA10 or GHG21 regulations. Noncompliant vehicles may not be equipped with all of the telltales shown in the [...] tables [within the full M2 PLUS Driver's Manual].**

For a list of all telltales, indicator icons, and messages, refer to the complete M2 PLUS Driver's Manual in Newgle.

*Source(s): Freightliner Business Class M2 PLUS Driver's Manual (STI-522-1, 2/10/2023)*

## 2025 Supreme Aire Superior Seating Driver and Passenger Seat Overview

This article provides information about the Superior Seating driver and passenger seat controls on a 2025 Supreme Aire Super C coach.

### Seat Belts

Seat belt assemblies are designed to secure persons in the vehicle to help reduce the chance of injury or the amount of injury resulting from accidents or sudden stops. For this reason, Daimler Truck North America LLC urges that the driver and all passengers, regardless of age or physical condition, use seat belts when riding in the vehicle.

### **WARNING**

**Always use the vehicle's seat belt system when operating the vehicle. Failure to do so can result in severe personal injury or death.**

### **WARNING**

**Inspect and maintain seat belts. When any part of a seat belt system needs replacement, the entire seat belt must be replaced, both retractor and buckle side. Any time a vehicle is involved in an accident, and the seat belt system was in use, the entire vehicle seat belt system must be replaced before operating the vehicle.**

**Do not attempt to modify the seat belt system; doing so could change the effectiveness of the system. Failure to replace worn or damaged seat belts, or making any modifications to the system, may result in personal injury or death.**

### Seat Adjustments

#### **NOTE FROM NEWMAR**

**Unless otherwise noted, all seat adjustments should be made while seated and before the engine is started.**

Due to the high degree of adjustability found in high-back air suspension seats, it is possible to set the seat back recline adjustment and the seat slide adjustment in such a combination that the seat back will come into contact with the rear wall of the cab.

It is the responsibility of the driver to adjust the seat to prevent damage to the seat and the cab interior.

All controls for adjusting air suspension seats are located within easy reach of the occupant. All adjustment controls for a suspension seat are located on the seat base.

Note: Seat operation and design may vary. Switches and controls are developed by several manufacturers including Superior Seating (seat), Freightliner (base), or Lippert (swivel assembly).





The following is a description of adjustments that are available:

## Adjustment Definitions

	COMPONENT(S)	SUMMARY OF FUNCTION AND OPERATION
1	Heater Button	<p>Use the three-position switch to control the heated seat:</p> <ul style="list-style-type: none"> <li>• Middle position: OFF</li> <li>• Up position: High Heat Waves</li> <li>• Down position: Low Heat Waves</li> </ul> <p>Note: If the vehicle has Optimized Idle, the heating function will not operate with the key in accessory mode. Optimized Idle may also turn seat heating off to reduce stress on the batteries.</p>
2	Lumbar Support Switch	On seats equipped with electric lumbar support, press the switch upward to increase lumbar support. Press the switch downward to decrease lumbar support.
3	Height Adjustment Switch	<p>To raise or lower the height of the seat (increases and decreases pressure in the air bag), use the height adjustment switch on the side of the seat.</p> <p><b>⚠ NOTICE</b></p> <p><b>If only a small amount of air has been added to the air bag, the seat may still be able to "bottom out." This would be more likely on rough driving surfaces.</b></p>
4	Backrest Tilt	To tilt the backrest, lean forward slightly to remove pressure from the cushion and hold the backrest tilt lever rearward. Lean backward slowly to the desired position and release the lever to lock the backrest in place.
5	Arm Rest Adjustment Wheel	Rotate the adjustment wheel located under the arm rest to raise or lower the arm.
6	Adjustable Headrest	From the fully-lowered position, lift up on the headrest to extend it. If locked into an extended position, press and release the headrest retainer at the rods of the headrest to move it up and down. The headrest position can also be reversed to provide more clearance if the occupant is wearing a hat or would like a flatter reclined position.
7	Fore/Aft Seat Slide Lever OR Forward/Back Slide Lever	<p>To adjust the fore-and-aft position of the entire seat, move the fore-and-aft seat adjustment lever to the left and slide the seat forward or backward to the desired position. Move the lever back to its original position to lock the seat in place.</p> <p>Some seats may be equipped with a handle-style lever. Pull the lever to unlock the seat and slide it forward or backward. Release the lever to lock the seat in position.</p>
8	Seat Belt Receiver	Fasten the three-point seat belt by pushing the latch into the buckle. Listen for an audible click. Tug on the seat belt to make sure it is securely fastened.
9	Fore/Aft Isolator	If equipped, the isolator adjusts/dampens the forward/rearward seat motion during travel. To engage the isolator, turn the isolator knob rearward to the unlocked position. Turn the isolator knob forward to the locked position when the isolator feature is not desired.
10	Seat Swivel Lever	To swivel the seat, use the lever to release it from the locked position.

*Some of this information is sourced from the Freightliner Business Class M2 PLUS Driver's Manual (02/10/2023)*

## 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.**

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**⚠ WARNING**

**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 [www.P65warnings.ca.gov/diesel](http://www.P65warnings.ca.gov/diesel).

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AD-117



## 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.

**⚠ 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 flames, or intense heat. These could ignite the fuel, possibly causing severe burns.**

## Diesel Exhaust Fluid (DEF) Overview for Super C Coaches

This article provides an overview about the DEF tank installed on Super C Freightliner M2 Chassis.

### Diesel Exhaust Fluid and Tank

Diesel exhaust fluid (DEF) is used in the ATS to lower NOx in the exhaust stream. DEF is colorless and close to odorless (it may have a slightly pungent odor similar to ammonia). It is nontoxic, nonflammable, and biodegradable. It is mildly corrosive to aluminum, but does not affect the strength or structure of the aluminum.

White crystals may be noticeable around components that come into contact with DEF. The crystals are easily removed with water.

DEF consumption varies depending on ambient conditions and vehicle application.



### Freezing Conditions

DEF freezes to slush at around 12°F (-11°C). It is not damaged or destroyed if frozen, and is fully usable when thawed. The DEF in the tank is allowed to freeze while a vehicle is non-operational. At start-up, normal operation of the vehicle is not inhibited if the DEF is frozen; an immersion heater with engine coolant flowing through it warms the DEF once the engine is running, allowing the SCR system to operate.

DEF supply lines with engine model year 2013 and newer are designed to survive freezing conditions while containing DEF, so purging is not required.

## DEF Tank

Engines that are compliant with EPA10 and newer regulations are equipped with a DEF tank located on the driver's side of the vehicle behind the battery box or forward of the fuel tank. The DEF tank has a 19 mm filler neck inlet that prevents the hose from a diesel outlet from being inserted, and has a blue cap for easy identification.

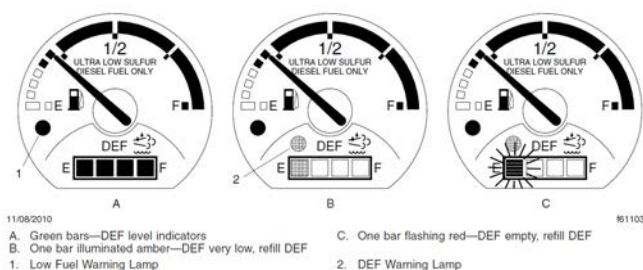
## Fuel/DEF Gauge

The diesel fuel and DEF levels are measured in a dual-purpose gauge.

Fuel level is indicated at the top of the gauge. Below the fuel level, a low fuel warning lamp illuminates amber when the fuel level drops below 1/8th of the capacity.

The lower portion of the gauge has a DEF warning lamp that illuminates amber when the DEF tank is near empty, and a lightbar that indicates the level of DEF in the tank. The DEF light bar illuminates as follows:

- Four bars illuminated green—Between 75% and 100% full
- Three bars illuminated green—Between 50% and 75% full
- Two bars illuminated green—Between 25% and 50% full
- One bar illuminated green—Between approximately 10% and 25% full
- One bar illuminated amber—DEF very low, refill DEF
- One bar flashing red—DEF empty, refill DEF



## DEF Warnings and Engine Limits

### ⚠ IMPORTANT

**Ignoring the DEF warning lights results in limited engine power, with the application of a 5 mph (8 km/h) speed limit after the engine is shut down and started again.**

## DEF Level Low—Initial Warning

When the DEF level is low, the following lamps notify the driver. Refill the DEF tank in order to cancel the warning sequence.

- One bar of the DEF level indicator illuminates amber—DEF very low, refill DEF.
- The DEF warning lamp illuminates solid amber.

## DEF Empty

When the DEF level reads empty, the following lamps notify the driver.

- One bar of the DEF level indicator flashes red—DEF empty, refill DEF
- The DEF warning lamp flashes amber
- The MIL lamp illuminates

Detroit engines: Power is limited, with a 55 mph (90 km/h) speed limit.

Cummins engines: Power is limited with progressively harsher engine power limits applied.

## DEF Tank Empty and Ignored

If the empty warning is ignored and the DEF tank is not refilled, the red STOP engine lamp illuminates in addition to the MIL lamp and CHECK engine lamp (on vehicles with a Cummins ISB or ISC/L engine.)

If the DEF is not refilled, a 5 mph (8 km/h) speed limit is applied after the next engine shutdown or if a fuel refill is detected.

## DEF Contamination and SCR Tampering

### ⚠ NOTICE

**Once contaminated DEF or tampering has been detected, the vehicle must be taken to an authorized service facility to check the SCR system for damage and to deactivate the warning lights and engine limits.**

If contaminated DEF or tampering with the ATS is detected, the DEF warning light ashes and the MIL lamp illuminates to warn the driver. The CHECK engine lamp also illuminates on vehicles with a Cummins ISB or ISC/L engine.

- Detroit engines: Engine power is limited with progressively harsher limits applied. If the fault is not corrected, the STOP engine light illuminates and a 5 mph (8 km/h) speed limit is applied after the next engine shutdown or if a fuel rell is detected.
- Cummins engines: Engine power is limited with progressively harsher limits applied. If the fault is not corrected, the STOP engine light illuminates and a 5 mph (8 km/h) speed limit is applied after the next engine shutdown, or while parked and idling.

Source(s): Business Class M2 Driver's Manual (STI-455-7, 09/20/2021)

## Auxiliary Compressed Air Fitting on Super C Coaches

This article provides a basic overview and typical location for an air connection fitting for customer use.

This air connection is supplied by Freightliner. The pressure is supplied by the air compressor that operates as the engine is running.

The air connection fitting for the Super C coaches is typically located in the driver-side fuel door area. The fitting(s) may be labeled "Aux Air Outlet" or "Aux Air Inlet Brake Release."

This auxiliary input fitting can be used to inflate the air system from an outside source (such as a shop air compressor or tow truck). The auxiliary output fitting can be used to inflate floats, bike tires, or car tires.

If necessary, the auxiliary output 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 auxiliary output 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.

### ⚠ NOTICE

**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.**



## 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.**

### ⚠ WARNING

**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.**

### ⚠ WARNING

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

### ⚠ 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.

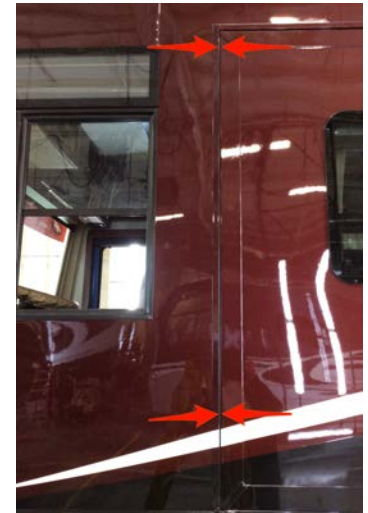
Motorhomes, like all vehicles, flex in travel. Flexing may be different due to terrain and the coach's fulcrums (resting on tires or jacks). As the coach flexes, this movement is more noticeable in the outside reveal on a wider slideout.

### 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 ride-height), and not on the jacks.

### ⚠ IMPORTANT

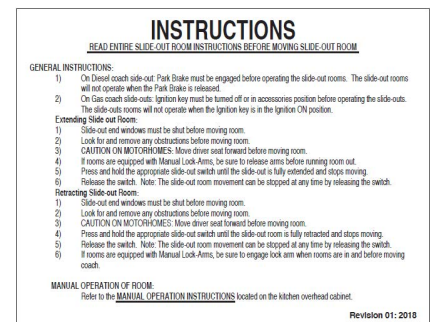
In the unlikely occasion that the slideout trim has inadequate clearances, try leveling or repositioning the coach and rechecking the clearances before extending the slideout.



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.)

### ⚠ NOTICE

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.



- 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.

- Retract the slideouts. Inspect all slideouts for complete retraction.
- If the coach is equipped with manual lock arms, make sure to lock them.
- 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).

### ⚠ IMPORTANT

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.

## 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.

**Auto Store:** Push this button to retract all four jacks at the same time.

**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.

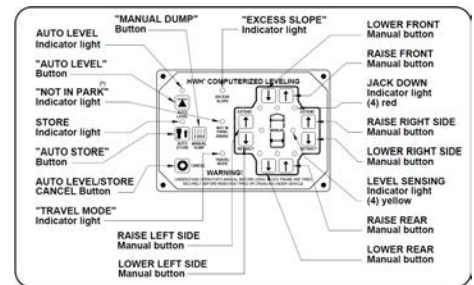
**Warning Lights:** The four red lights surrounding the yellow level indicators are jacks down WARNING lights. They are functional only when the ignition is in the "ON" or "ACC" position, the system is on, and the jacks are extended approximately 1 inch.

**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.

### **NOTICE**

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 off. Turn the ignition to the "Accessory" position.

### **NOTICE**

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.

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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.

### **IMPORTANT**

**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.

### **NOTICE**

**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.

### **IMPORTANT**

**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 06OCT20\*\***

## 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.

### ⚠ NOTICE

**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.**

### ⚠ IMPORTANT

**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\*\***

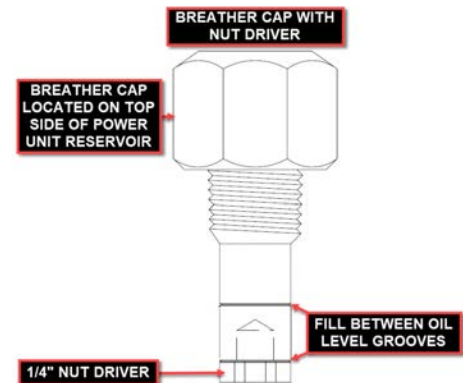
## Maintenance

### 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.



### ⚠ NOTICE

**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)

## HWH Hydraulic System Troubleshooting Tips

This article provides troubleshooting tips for the following components:

- HWH hydraulic slideouts
- HWH hydraulic entrance steps
- HWH hydraulic generator slideouts
- HWH hydraulic leveling jacks

If any, or all, of these HWH hydraulic components are not functioning, follow the troubleshooting steps before contacting Newmar or HWH.

If the pump runs for an accumulative time of approximately three minutes while operating the HWH jacks, slideout(s), generator slideout, or the step, the system will turn off and the pump will stop running. This only applies to coaches equipped with an HWH step. If for some reason the pump doesn't run for any HWH equipment, it might be necessary to reset the HWH system. If this time lockout occurs, power for the HWH control system must be removed before any system components will function.

### Coaches Equipped with HWH Reset Switch

Current coaches equipped with an HWH step system also have an HWH reset switch installed in the main control panel, allowing the user to reset the HWH control board. Press and hold the momentary contact switch for approximately five seconds to reset the system.

Source(s): HWH Computer-Controlled 725 Series Operator's Manual (ML56701)



## Freightliner M2 Super C Chassis Suspension Dump Switch Overview

This article is intended to clarify the operation (dump and inflate procedure) of the Freightliner Air Bag Dump Switch located on the dash of Super Star and Supreme Aire coaches after the HWH leveling System is installed during the Newmar production process.

### ⚠ NOTICE

**Do not operate the vehicle over uneven ground such as ramps, speed bumps, curbs, etc. with the air springs deflated. Doing so may lead to air bag separation from the piston, preventing the suspension air springs from re-inflating.**

### ⚠ NOTICE

**Never exhaust air from the suspension while driving. When the air is exhausted, the suspension will not absorb road shocks, and components may be damaged.**

The suspension dump switch is a two-position guarded rocker switch. It allows the air in the vehicle air suspension to be quickly exhausted, lowering the rear of the vehicle. This makes it easier to connect to, or disconnect from, a trailer.

To lower the rear of the vehicle quickly, press the upper half of the rocker momentarily (at the LED). To raise the suspension to its normal height, press the upper half of the rocker switch again.



### NOTE FROM NEWMAR

**If the HWH leveling jacks have been deployed, the air bags will be dumped as part of this process. The dash suspension switch will be inoperable until the HWH leveling jacks are stored and the air bags have re-inflated as part of the auto-store process. The dash suspension dump switch should not be used for any part of the coach leveling process.**

When the panel lights are on, the tractor icon is backlit in green.

### ⚠ IMPORTANT

**The suspension dump switch is guarded to prevent unintentional switch activation. This switch does not have a diagnostic blink function when inactive.**

When the suspension dump switch is pressed, three responses are possible: a normal response, a slow response, and an abnormal response.



## Normal Response

The LED in the switch blinks while the suspension is deflating or filling. When it is completely deflated, the LED comes on steady and stays illuminated. In normal operation, the suspension may dump or fill so quickly that the blinking of the switch is barely noticeable. If operation of the switch is not possible for any reason (vehicle is moving faster than 5 mph, ignition is turned off, etc.), the LED will stop blinking and turn off.

## Slow Response

If operation of the switch is slowed for any reason (by cold weather, low air pressure, etc.), the switch will continue to blink until the suspension completes a dump or fill. As in the normal response, the LED comes on steady and stays illuminated when the suspension is fully deflated.

## Abnormal Response

If the LED blinks for more than 10 seconds, the suspension dump mechanism may not be operating properly. Bring the vehicle to an authorized Freightliner service facility for testing. If the ignition is turned off while the vehicle is in dump mode, the power to the dump solenoid is cut off to prevent battery drain, and the suspension system will autofill the rear air springs. The suspension will also autofill if the vehicle is operated with the suspension dumped, and the speed is over 5 mph (e.g. -- driver forgot to inflate the bags or there was a system failure).

*Source(s): Freightliner Business Class M2 Driver Manual (with added Note from Newmar)*

# 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.

### 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.

### ⚠ NOTICE

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.

### ⚠ 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.

### ⚠ 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.

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.

295/60R22.5 J											
PSI	85	90	95	100	105	110	115	120	125	130	Maximum load & pressure on sidewall
kPa	590	620	660	690	720	760	790	830	860	900	
LBS	Single	5260	5505	5750	5990	6230	6465	6700	6930	7160	7390 S
	Dual	9650	10100	10550	10990	11430	11880	12290	12720	13140	13560 D
KG	Single	2385	2495	2610	2715	2825	2930	3040	3145	3230	3350 S
	Dual	4375	4580	4785	4985	5185	5380	5575	5770	5960	6150 D

Example of a Tire Inflation Chart

### ⚠ 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.

### ⚠ NOTICE

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.**

## ⚠ 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.**

AD-06

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.

### IMPORTANT

**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.





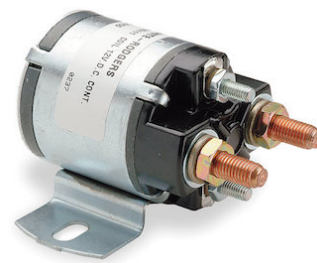
## Charge Bridge Solenoid

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.

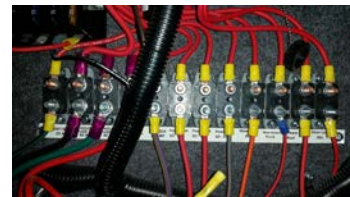
For more information on your coach's TM102 module, refer to the SilverLeaf Functional Guide in Newgle.



## 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:



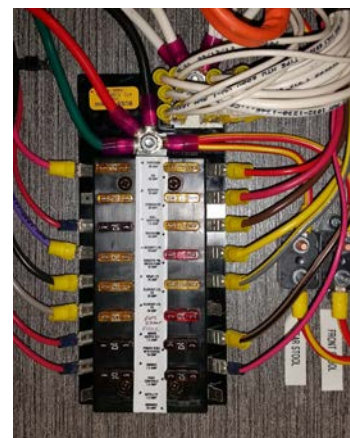
### Interior

- 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)

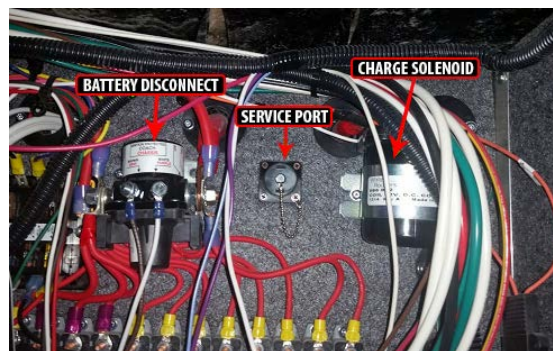
There are also some circuits that are protected with an inline fuse. Some fuse blocks have fixed relays integrated on a board. The fuses, mini breakers and relay board pictured are examples of the type of components that may be found in or near the the power cord compartment.



## 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

#### ⚠ IMPORTANT

**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



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.

### ⚠ 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.



### ⚠ IMPORTANT

**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





**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.



## Stacker Trailer 50 Amp 240 Volt Outlet Overview

This article provides basic operation instructions for a Stacker Trailer 50 Amp 240 Volt Outlet. This information relates to coaches equipped with option L400.

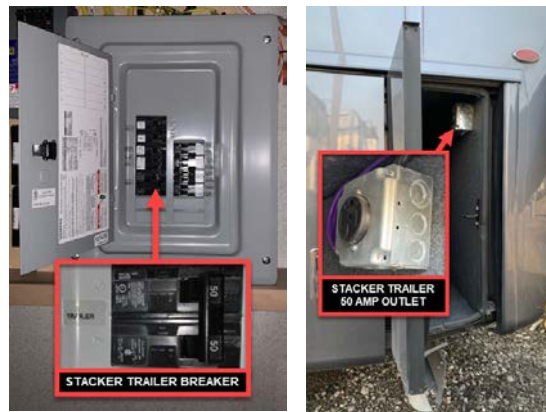
The optional stacker trailer outlet is typically located in the driver side rear compartment with a cord hatch.

The outlet power is on a 50 Amp breaker in the main electrical box and will have power available when the coach is connected to shore power or operating via the generator.

If no power is available, check the "Trailer" breaker in the main panel, and reset if necessary.

If the coach is operating via the generator, also check the breaker located on the generator.

*Source: 2022 ECO 174*



# 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).

**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.

### ⚠ 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.

### ⚠ CAUTION

**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.

### ⚠ 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.

### ⚠ 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.**

## 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.

## Battery State/Voltage Chart (AGM, Lead Acid)

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

### IMPORTANT

**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.



CHASSIS BATTERY BANK EXAMPLE

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.

### ⚠ 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 Supreme 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 Supreme Aire coach.

### Lithium General Information

1. 640 AMP HOURS / 8192 WATT HOURS (TOTAL SYSTEM, 1 PACK Standard with Lithium option).
  - Option expandable to add 1- 320AH pack
  - 320 AMP HOURS / 4096 WATT HOURS (per pack).
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.
 

The Lithium can be ran down to a RESERVE CAPACITY shutdown SoC, two times.
8. At the FIRST RESERVE CAPACITY shut down, the battery will turn off but can be restarted by pressing and holding
9. the blue button on the side of the Battery Management System (BMS) or in the front overhead cabinet.

### ⚠ IMPORTANT

**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.

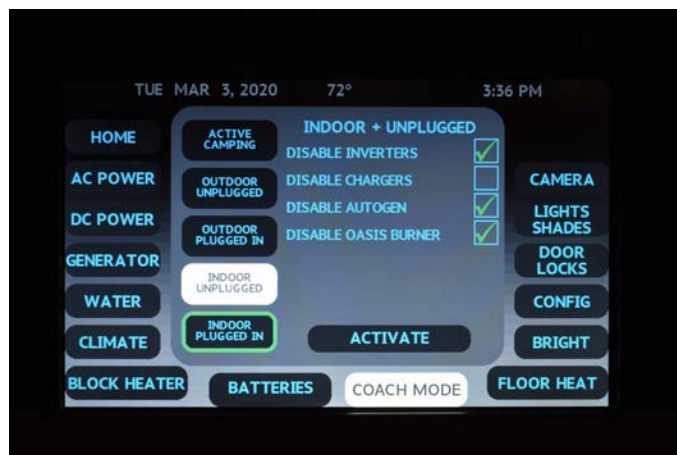


## Storage Temperature and Relative Humidity (RH)

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.



### NOTICE

**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

### NOTICE

**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 Lithium batteries are off due to draining to reserve capacity, press and hold the blue button on the side the of 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.

### NOTICE

**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)

### 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.**

1. If internal temp of the batteries are not below -4° F (-20° C), turn ON both Lithium packs.
2. 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))

### 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.**

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.

### ⚠ 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.



## 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.

### ⚠ 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).

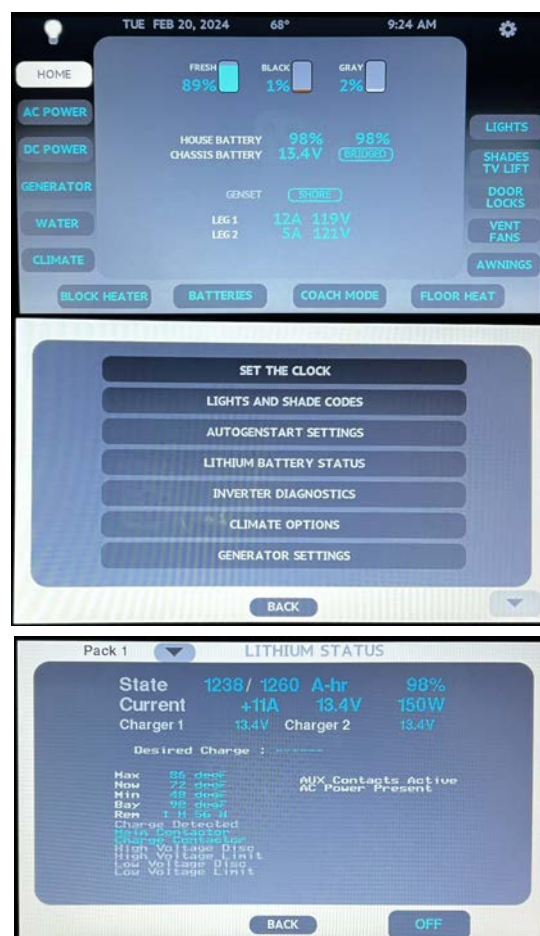
**Pack 1 and Pack 2:** Refers to the two Lithium Ion (L-Ion) battery packs.

**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.

**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.

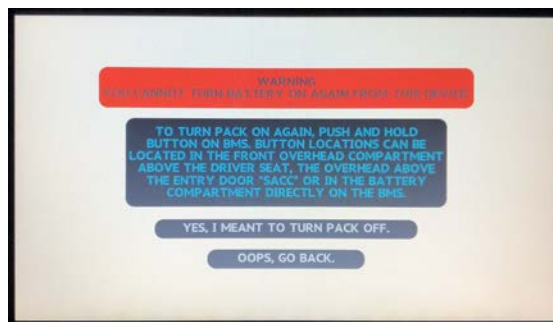
**High Voltage Limit:** Highlights when the voltages are out of the set parameter range and displays the reason for shutdown.

**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(s) located in the battery compartment.



### ! IMPORTANT

**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!**

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## 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.

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 M2/M2 PLUS Super C Chassis Battery Overview

This article provides an overview of the Freightliner (M2) Super C chassis battery bank on a front diesel coach.

Freightliner chassis batteries are sealed, non-serviceable batteries. They are provided with the chassis and warranted through the chassis manufacturer (Freightliner).

The type and brand of chassis battery may vary depending on the coach year, make, and model. Chassis batteries may need to be disconnected and removed from the coach to perform routine battery maintenance. To access the chassis batteries, remove the cover located under the driver's door.



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 M2 PLUS Super C Chassis Battery Disconnect Overview

This article provides basic operation instructions for a Chassis Battery Disconnect on Freightliner M2 PLUS Super C coaches beginning with the 2024 model year.

### Smart Battery Shut-Off (PWR OFF) Switch

#### ⚠ IMPORTANT

**The key switch should be in the OFF position before turning the smart battery shut-off switch on or off.**

The smart battery shut-off switch is a red switch located inside the cab on the outboard side of the driver's seat. A vehicle in daily use has the smart battery shut-off switch turned on, indicated by a red LED in the switch.

Turning the smart battery shut-off switch OFF minimizes the power draw on the battery, preserving battery life and the ability of the vehicle to start after being parked for a number of days. Set the smart battery shut-off switch to off if the vehicle is going to be parked for more than two days.

To avoid accidental activation, the smart battery shut-off switch must be pressed and held for two seconds when turning it on or off.



Source(s): Freightliner Business Class M2 PLUS Driver's Manual (STI-522-1, 2/10/2023)

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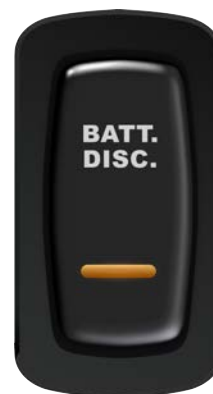
## House Battery Disconnect Overview for Super C Coaches

This article provides basic operation instructions for a house battery disconnect switch on a Super C coach (2020 and newer Super Star and Supreme Aire).

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 overhead control panel. 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. The Battery Disconnect Switch is normally located in the overhead control panel.

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.



### 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 Inspection, Safety, Care, and Maintenance

This article provides information regarding the inspection, care, and maintenance for coach batteries.

Battery maintenance is an important issue often overlooked by many RV owners and technicians. As batteries age, their maintenance requirements change. This means longer charging time and/or higher finish rate (higher amperage at the end of the charge). Usually older, serviceable (unsealed) flooded batteries need to be watered more often, as their capacity decreases over time.

### Safety Guidelines

#### ⚠ WARNING

**Prior to handling or working with a lead-acid battery, consult your battery owners' manual for instructions and safety precautions.**

#### ⚠ CAUTION

**Disconnect the 120 volt electrical power cord and the negative terminal from the coach batteries, and make sure all power sources are disable (ignition, generator, shore power, inverter) before working on the electrical system.**

#### ⚠ WARNING

**Remove rings, metal watch bands, and other metal jewelry before working around batteries. Use caution when using metal tools. If a tool contacts a battery terminal or metal connected to it, a short circuit could occur, which could cause personal injury, explosion, or fire.**

Lead-acid batteries contain hydrogen-oxygen gases that may be explosive and sulfuric acid that may cause severe burns. To avoid injury, observe these precautions when handling or working with a lead-acid battery:

- Wear ANSI (American National Standards Institute) approved safety glasses or goggles, as well as a face shield.
- Wear proper clothing to protect your face, hands, and body.
- Work in a well-ventilated area.
- Never lean over a battery while boosting, testing, or charging.
- Keep all ignition sources away from the battery. Cigarettes, flames, or sparks could cause a battery to explode.
- Always shield eyes and face from the battery.
- Do not charge or use booster cables or adjust post connections without proper instructions and training.
- Keep vent caps tight and level.
- In the event of an accident, flush eyes or skin with water, and call a physician immediately.
- Keep out of reach of children.

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## Common Causes of Premature Battery Failure

- Deep discharges (leaving your lights on)
- Misapplication
- Replacement using an undersized battery not meeting Newmar's OEM specifications
- Loss of electrolyte due to overheating or overcharging
- Undercharging or loose alternator belt
- Excessive vibration (due to loose clamp or hold down on battery)
- Corrosion
- Freezing (A fully-charged vehicle battery will not freeze until the temperature is -75° F. Frozen batteries are not warrantable.)
- Failure to charge a battery during a period of six months or more (Inactivity can be extremely harmful to all lead acid batteries.)

## Cleaning the Batteries

Check the vent plugs and replace them if they are cracked or broken. Keep the battery clean. Accumulations of acid film and dirt may permit current flow between the terminals, which could drain the battery.

To clean, wash the batteries with a diluted solution of baking soda and water to neutralize any acid present. This should be a mixture of a couple of tablespoons of baking soda per pint of water. Rinse thoroughly with clean water. Foaming around the terminals or on top of the battery is a sign that acid is being neutralized. Avoid getting the baking soda solution in the battery. Secure all vent caps.

Both house and chassis battery cable connections need to be cleaned and tightened, as battery problems are often caused by dirty and loose connections. Dry the battery cables and terminals to prevent corrosion. Do not use grease on the bare metal inside the cable terminals. Grease can act as an insulator, and electricity will not flow through it. A plastic ignition spray will protect the terminals after they have been cleaned.

### WARNING

**Do not allow the battery fluid to contact your skin, eyes, fabric, or painted surfaces. The fluid could cause serious personal injury or property damage. Wear eye protection when working with any battery.**

## Storing the Batteries

Remember that when batteries are not used for an extended period of time, they may lose their charge. Periodic charging of the batteries during storage of the unit will increase the life of the battery. Check the external condition of the battery periodically. Look for cracks in the cover.

The batteries should be removed and stored in a warm place when not using your motorhome for an extended period of time. This will prevent unnecessary drain and corrosion of the batteries. The coach batteries are 6 volt RV/Marine deep cycle batteries. Mark the cables, positive and negative, for easy identification. Batteries are not to be stored on concrete floors.

## Preventing Corrosion

Newmar sprays the battery connections once they are tightened with a battery protector and sealer to help prevent corrosion. When performing battery maintenance, you should reseal the battery terminal connections. The following measures may also prevent future corrosion:

Use a small bead of silicone sealer at the base of the post where it meets the battery case. Place a felt battery washer over the post and into the bead of silicone. Coat the washer with high temperature grease or petroleum jelly (Vaseline), then place the cable on the post and tighten. Coat the exposed cable end with the grease. The gas condensation on metal parts of the battery cause most corrosion issues.

## 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.

### ⚠ 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.

### ⚠ IMPORTANT

**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.

Periodically inspect the exterior jacket of the power cable for nicks or cuts. If your power cable is dirty, any cleaner should be compatible with the outer jacket material of the power cable.].

Source(s): Cablemaster CRR-50 Manual: Installation and Operation Instructions

Product(s): Glendinning Cablemaster 50 Amp Power Cord Reel w/50' Power Cord ([Model: CRR-50, Newmar Part Number: 116690](#))

## FUSE PANELS

### House and Chassis Fuse Panel Overview (Freightliner M2 Super C)

This article provides information and the location of the house and chassis fuse panels on Freightliner Super C coaches.

#### Inside the Coach

##### House Fuse Panel

On Super C coaches, the house fuse panel, which controls most of the components and appliances inside the coach, is located in the bathroom, in the front overhead next to the 120 volt breaker panel, or inside 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.

An additional fuse panel is located under the carpeted floor access panel between the driver and passenger seats and/or carpeted cover behind the driver seat. It may also be located under a removable dash panel on the passenger side of the cab.



#### 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, and LP detector. In this same location, 12 volt circuit breakers provide power to the house fuse panel, slideout motors, and power awnings.

##### Chassis Fuse Panel

Additional chassis circuit fuse panel(s) are located under the hood of the coach. The Freightliner chassis manual contains detailed information on what fuses are located under the hood.





# GENERATORS

## Generator Compartment Overview

This article provides basic information about the generator compartment.

### ⚠ 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.**

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 ¼ 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.

#### 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.



⚠ DANGER	⚠ DANGER
<p>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.</p> <p>The flammable liquids used to power these items can cause a fire or explosion, which can result in death or serious injury.</p> <p>To reduce risk:</p> <p>a) Do not ride in the vehicle storage area when vehicles are present.</p> <p>b) Do not sleep in the vehicle storage area when vehicles are present.</p> <p>c) Close doors and windows in walls of separation (if installed) when any vehicle is present.</p> <p>d) Run fuel out of engines of stored vehicles after shutting off fuel at the tank.</p> <p>e) Do not store, transport, or dispense fuel inside this vehicle.</p> <p>f) Open the windows, openings, or air ventilation systems provided for venting the transportation area when vehicles are present.</p> <p>g) Do not operate propane appliances, pilot lights, or electrical equipment when motorized vehicles are present.</p>	<p>Les véhicules et l'équipement propulsés par un moteur à combustion interne placé dans un véhicule de camping peuvent causer un empoisonnement au monoxyde de carbone ou l'asphyxie, ce qui pourrait entraîner des blessures graves ou la mort.</p> <p>Les liquides inflammables utilisés pour propulser ces machines peuvent causer un incendie ou une explosion, ce qui peut entraîner des blessures graves ou la mort.</p> <p>Pour réduire le risque:</p> <p>a) Ne pas circuler dans l'aire de rangement du véhicule si des véhicules s'y trouvent.</p> <p>b) Ne pas dormir dans l'aire de rangement du véhicule si des véhicules s'y trouvent.</p> <p>c) Fermer les portes et fenêtres qui se trouvent dans les cloisons (le cas échéant) si au moins un véhicule est entreposé.</p> <p>d) Épuiser le carburant contenu dans les moteurs des véhicules entreposés après avoir coupé l'alimentation en carburant au réservoir.</p> <p>e) Ne pas entreposer, transporter ou distribuer de carburant à l'intérieur de ce véhicule.</p> <p>f) Ouvrir les fenêtres, ouvertures ou systèmes de ventilation d'air fournis pour ventiler la zone de transport des véhicules s'y trouvent.</p> <p>g) Ne pas faire fonctionner d'appareils au propane, de veilleuses ou d'équipement électrique en présence de véhicules motorisés.</p>



## 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

1. 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.

### ⚠ IMPORTANT

**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.**

### ⚠ CAUTION

**Failure to turn off the 120 volt appliances when starting or stopping the generator may damage the transfer switch and/or electrical appliances.**

### ⚠ NOTICE

**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.



### ⚠ IMPORTANT

**Lower the television lift completely for travel to prevent damage to the television and surrounding equipment.**

### ⚠ NOTICE

**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).

### ⚠ 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.

**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.
3. 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.

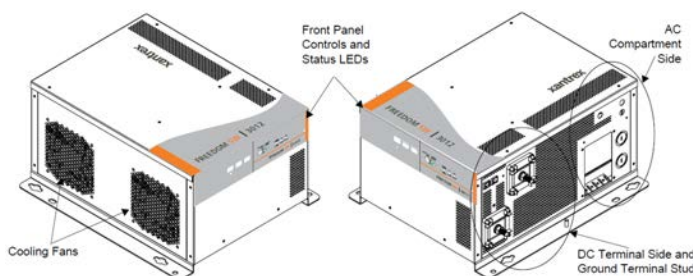
## Xantrex Freedom SW 3,000 Watt True Sine Wave Inverter Quick Start (Model: FSW3012)

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.
2. 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.
5. 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.
6. 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.
  1. 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.
8. 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 ([Model: FSW3012, Newmar Part Number: 125516](#))



## 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.

### ⚠ 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 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

### **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.

### **NOTICE**

**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**

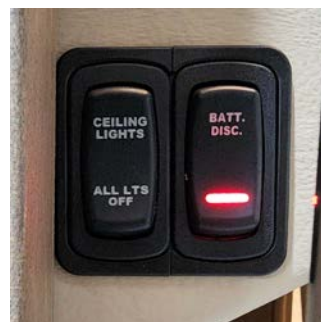
**Always check the operation of all headlights, turn signals, and clearance lights prior to traveling.**

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.

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.



### ⚠ NOTICE

**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
- BATHROOM LTS
- BEDROOM LTS
- WALL LTS
- MIRROR LTS
- VANITY LTS
- ACCENT LTS
- COURTESY LTS
- ALL LIGHTS ON
- ALL LIGHTS OFF

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.



## 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.

### ⚠ 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).**

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## 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.

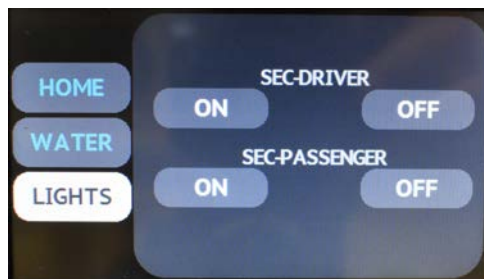


### ⚠ IMPORTANT

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 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.

### ⚠ 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.

### IMPORTANT

**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.

### IMPORTANT

**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.**

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## 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.

### WARNING

**The GFCI will not reduce the shock hazard if the short is between a neutral and hot wire or two hot load wires.**

## 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.

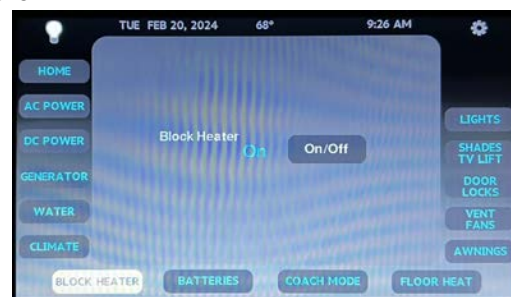


## 2025 SilverLeaf Touchscreen Guide: Block Heater

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.

### 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 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 Super C Coaches (Model: Flex-10-HB)

This article provides basic information about Dometic GoPower! 10-watt solar panels that began being installed on select Super C 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 located beneath the metal chassis battery cover. 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.

### 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



## 2025 SilverLeaf Touchscreen Guide: Solar

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).

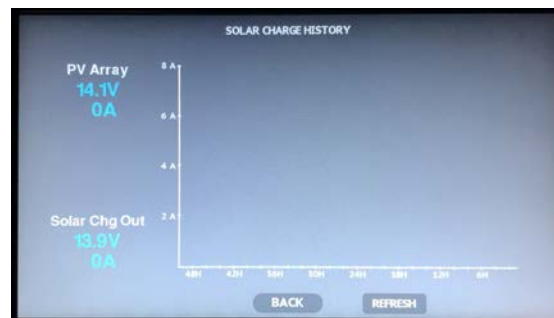


If a 2025 coach (New Aire, Supreme Aire, Mountain Aire, London Aire, Essex, or King Aire) is equipped with a factory-installed Victron Solar controller, the DC Power page will include a History button. When pressed, the Solar Charge History screen will appear, which will show the 'PV Array' voltage and 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.

#### 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: 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."
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 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)

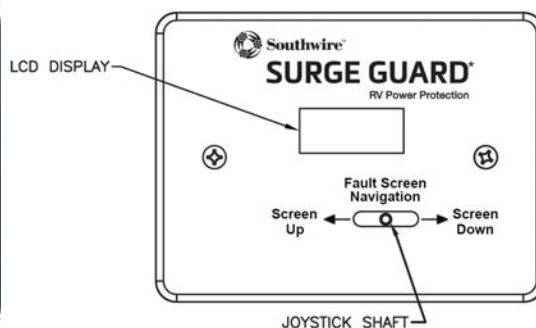
## Surge Guard Automatic Transfer Switch Remote LCD Display Quick Start (Model: 40299)

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.

L1 LO	Line 1 voltage is low (below 102 VAC)
L1 HI	Line 1 voltage is high (above 132 VAC)
L2 LO	Line 2 voltage is low (below 102 VAC)
L2 HI	Line 2 voltage is high (above 132 VAC)
REV POL	Reverse polarity condition (hot wire and neutral are swapped)
OPEN NEUTRAL	Neutral wire connection is missing or mis-wired
L1 OPEN	Line 1 connection missing or mis-wired
L2 OPEN	Line 2 connection missing or mis-wired
SHORE	RV connected to Shore Power
GEN	RV connected to Generator Power
DELAY	Delay mode waiting for power to come back on
SINGLPH	Connection at 110V instead of 220V
POWER REM	Power has been removed due to fault
OPEN GND	Open ground fault condition (ground wire missing or miswired)
HI FREQ	AC line frequency high (more than 60Hz)
LO FREQ	AC line frequency low (less than 60Hz)

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.*

# 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.

## ⚠ 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.

## DASH INFOTAINMENT SYSTEMS

### Xite Infotainment System with Single 12.3" Touchscreen Quick Start (Model: G4 S12.3 SDHD and G4 S12.3 HD360 + SD)

This article provides basic operation instructions for an Xite Infotainment System with Single 12.3" Touchscreen (Model: G4 S12.3 SDHD and G4 S12.3 HD360 + SD).

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.

## ⚠ IMPORTANT

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.

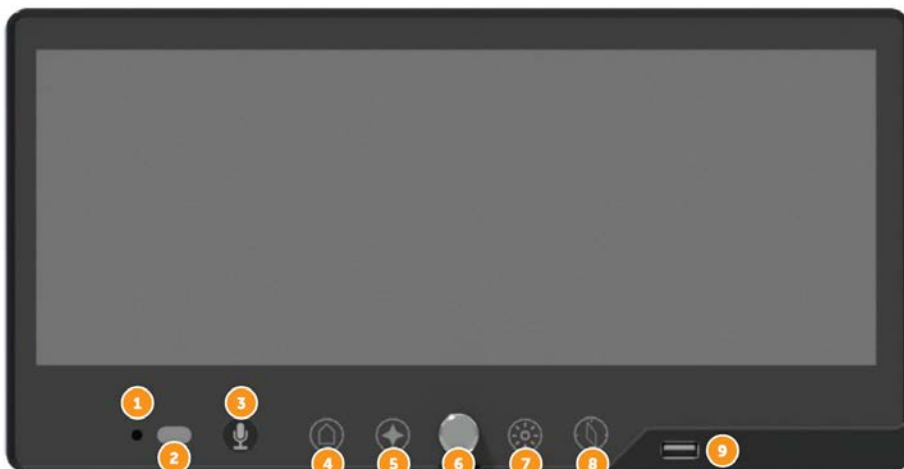
**(3) Siri Button:** Press to activate the voice command.

**(4) Menu:** Press this 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.

**(5) 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.

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.



**(6) 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.

**(7) DIM:** Changes the screen brightness.

**(8) 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.

**(9) USB Input:** To access and use iPod compatible devices or iPhone with CarPlay, please connect your iPod/iPhone device first with the USB cable that came with your device. USB drives with compatible media may also be plugged in here for use with the Media Center.

Note: When in standby mode, Infotainment Center consumes power. To completely turn the system off, remove the ignition key and/or ensure any auxiliary battery power to the system is turned off.

## 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) 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.

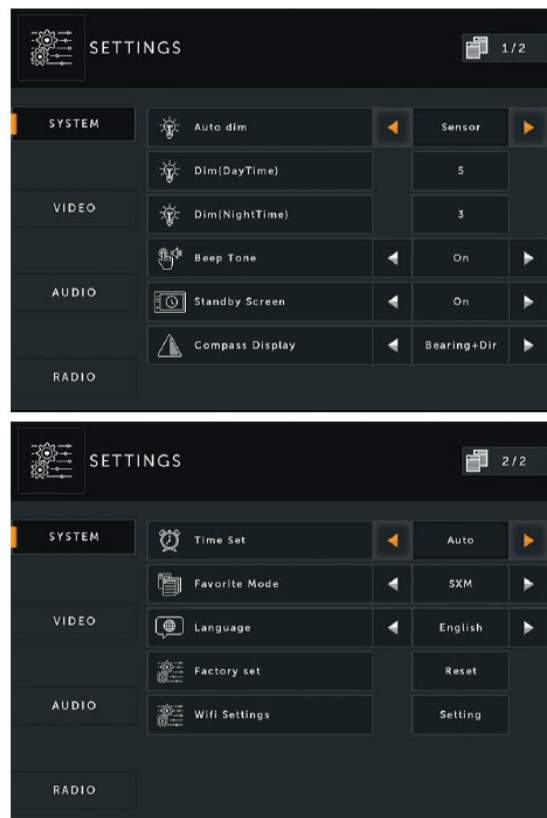
**Factory Set:** Select Factory set to reset the Infotainment Center to factory settings.

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, Camera, Bluetooth operation, Navigation, and SiriusXM radio, refer to your Xite User Manual in Newgle.**



Source(s): XiteSolutions Infotainment User Manual G4 S12.3 SDHD General Information and Setup Guide (240418.01) and XiteSolutions Infotainment User Manual G4 S12.3 HD360 + SD General Information and Setup Guide (240506.01)

## 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.

**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.



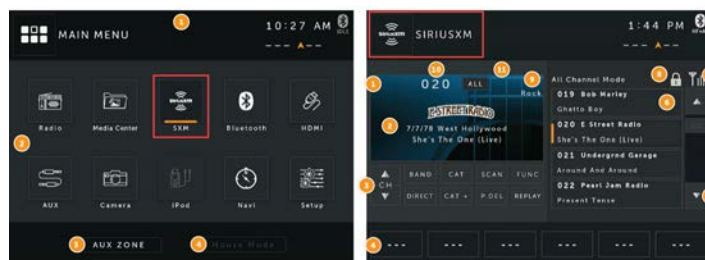
Source(s): CarPlay Setup & General Use Manual V220105.01

**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](http://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.
2. 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 <http://www.siriusxm.com/activatenow> or call SiriusXM Listener Care at 1-866-635-2349. For Canadian Subscriptions, please contact: Visit [www.siriusxm.ca/activatexm](http://www.siriusxm.ca/activatexm) 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 notification 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	X
Right Midship	X	X	X	X	X
Front	X	X	X	X	X
Rear Normal	X	X	X	X	X
Rear Horizon	X	X	X	X	X
Rear Hitch	X	X	X	X	X
Interior	X				
Dual View	X	X	X	X	X
Tri View	X	X	X	X	X
Quad View	X	X	X	X	X
360 View	X	X	X	X	X
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.

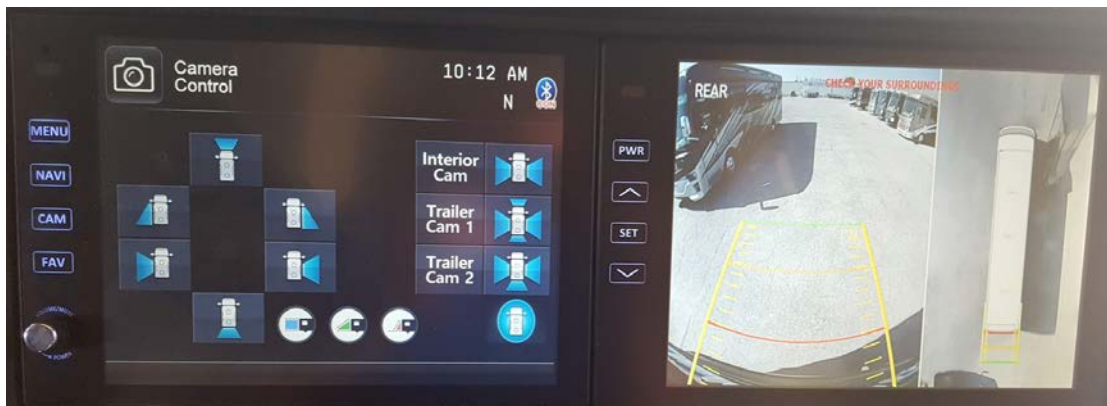
**Standard Definition vs. High Definition Cameras:** The left turn, right turn, interior, trailer 1, and trailer 2 (if equipped) cameras are standard definition cameras. These are the only standard definition cameras in the system. The rest of the views are from the HD Xite side of the system.

**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.

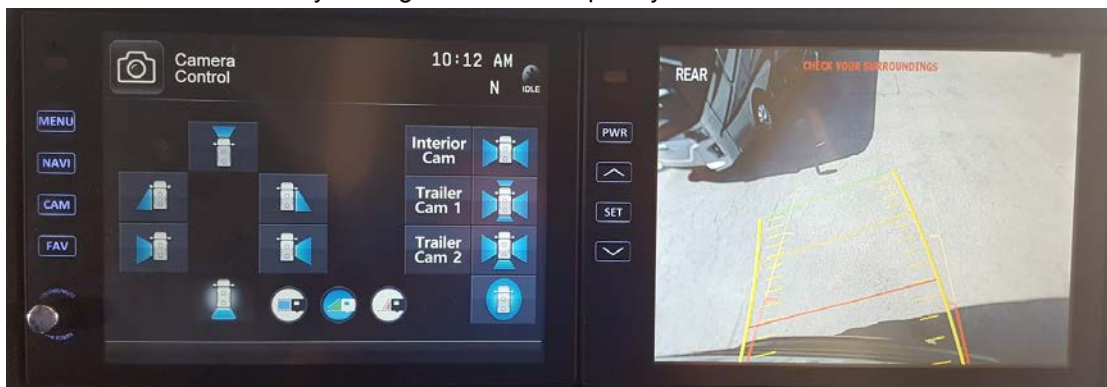
The DPGL will only show up when the coach is in reverse.



The DPGL can be seen on two views: REAR NORMAL and 360 VIEW.

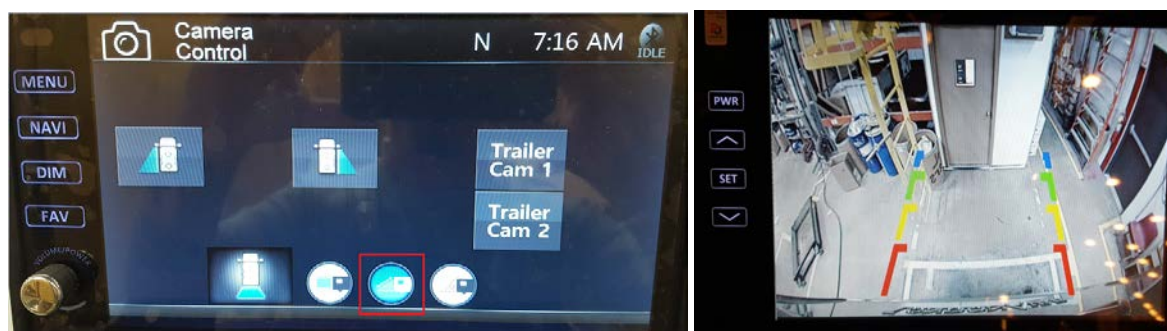


The DPGL can be tested by turning the wheel completely in both directions.



### Static Parking Grid Lines (SPGL)

- 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.

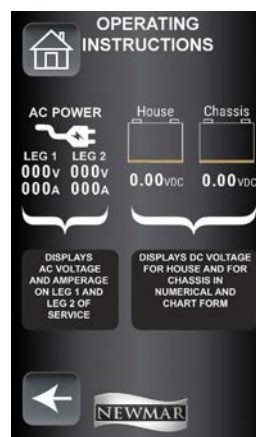
### ⚠ IMPORTANT

**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.





## 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).

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.



**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.

**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.

### ⚠ 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.

### ⚠ 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

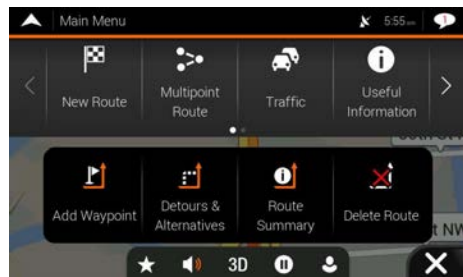
The following sections describe the functionality and use of buttons, sliders, and other screen controls in the program.

### 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.

## NOTICE

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.

## NOTICE

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.

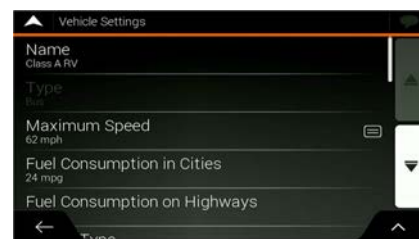
**Truck:** Maneuver restrictions and one-way streets are taken into account when planning a route. Roads are used only if access for trucks is allowed. Private roads, resident-only roads, and walkways are excluded from routes. U-turns are excluded from routes (turning back on a divided road is not considered 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.

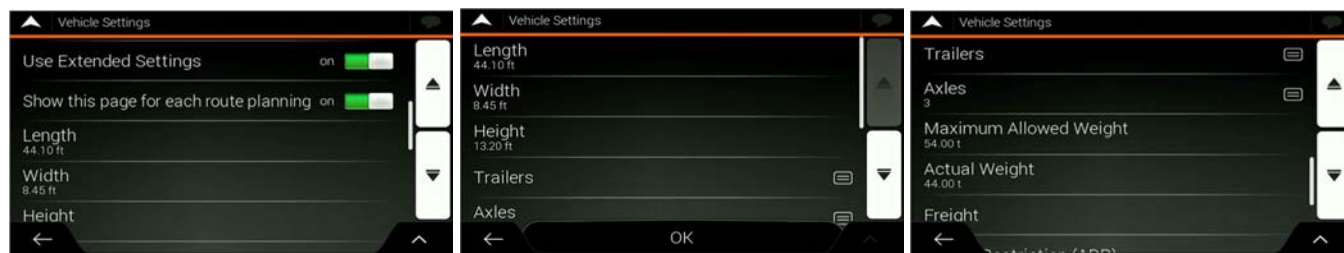
Here the following basic options can be changed:

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.



## 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.

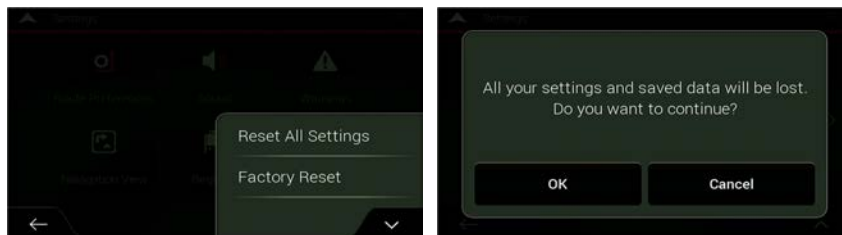
For some of the Alert Points, the enforced or expected speed limit is available. For these points, the audio alert can be different if you are below or above the given speed limit.

- **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.

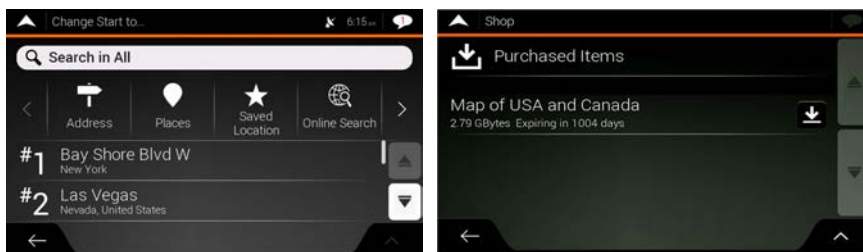


## Updates

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.



### 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.

### IMPORTANT

**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.



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

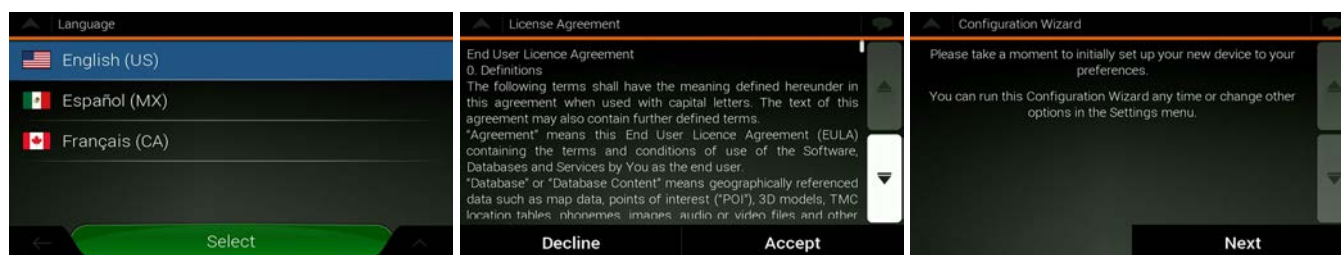
This article provides a quick step-by-step guide on how to select the appropriate vehicle profile in the [Xite G4 NavNGo] Navigation software to ensure the correct routing.

- System: XSG4NA generation
- System OS: All
- Navigation: NNG

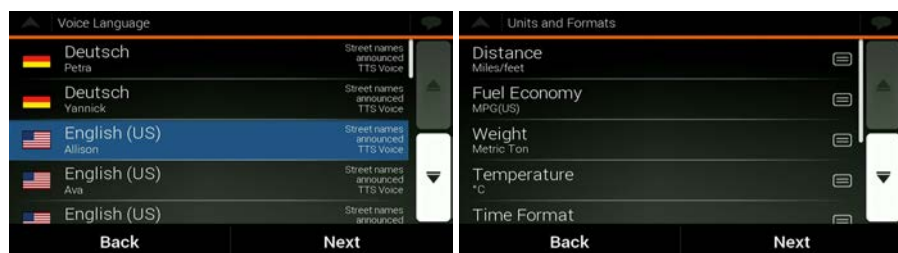
The first time the Navigation software is used, it will present a setup wizard to guide you through the basic settings:

### Configuration Wizard

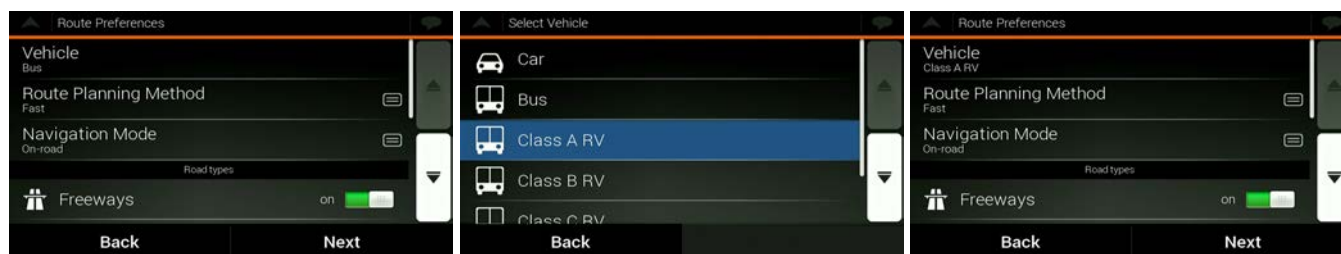
- Select the appropriate language for the user interface. When the correct language is highlighted, press the “Select” button at the bottom of the page to continue to the next step.
- Accept the license agreement by pressing “Accept.”
- Proceed to the configuration wizard by pressing the “Next” button at the bottom of the page.



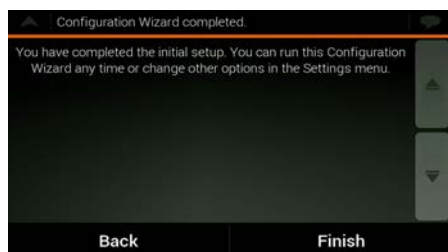
- Select the desired voice profiles. When the selection is made and highlighted, press “Next.” Note that during this step, the normal audio from the G4 will be suppressed.
- This page will allow you to change the units and formats used by the Navigation software to show you that information. By pressing the icon at the end of the line, you can change that specific setting.



- 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.



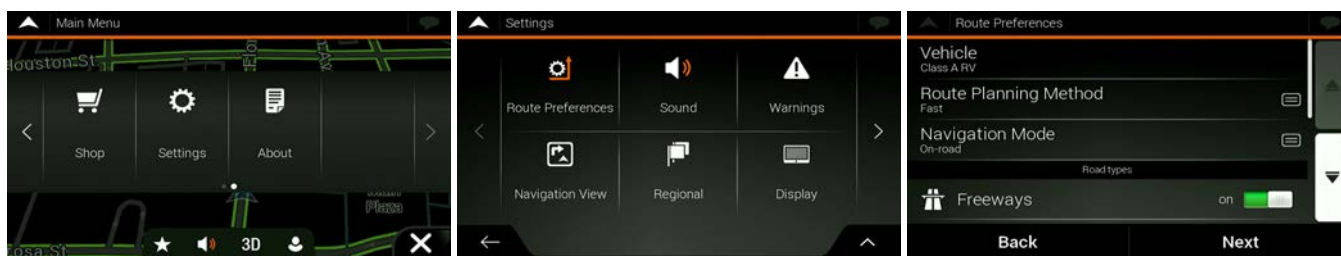
- The configuration wizard is completed. Press the “Finish” button to complete the configuration and start the navigation program with your selected settings and options.



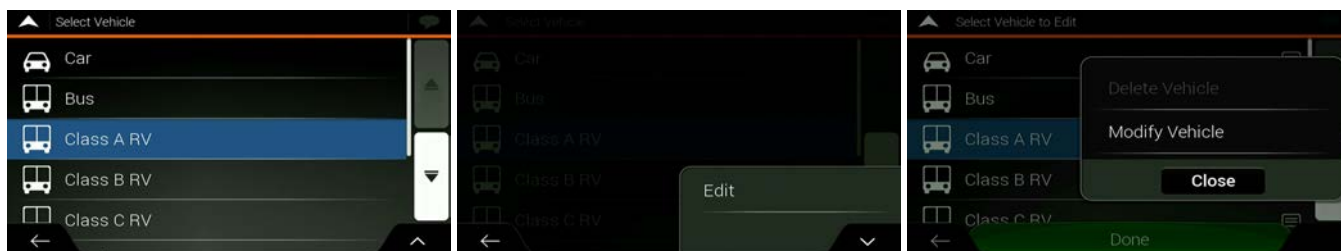
## Manual Changes

Changes can be made later on as well, if needed, to update the routing preferences or the vehicle specific variables.

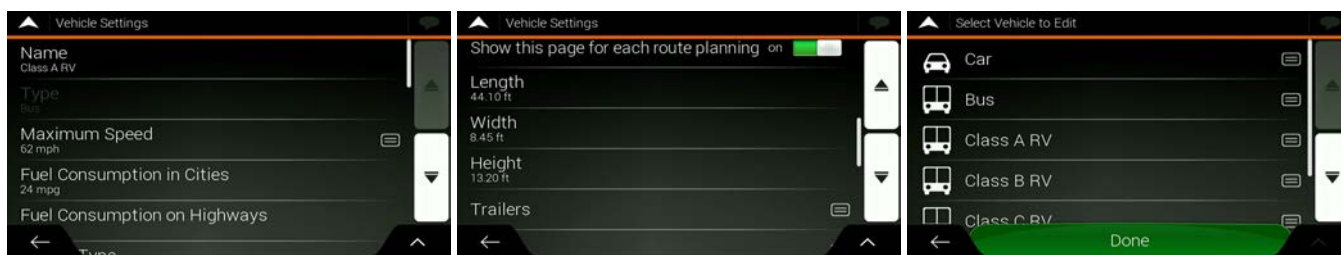
- Open the main menu and select the “Settings” page. When in the settings page, select the “Route Preferences” option.
- In the Route Preferences menu, you can select the Vehicle line to access the vehicle profile selections.



- 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.



- 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.



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.





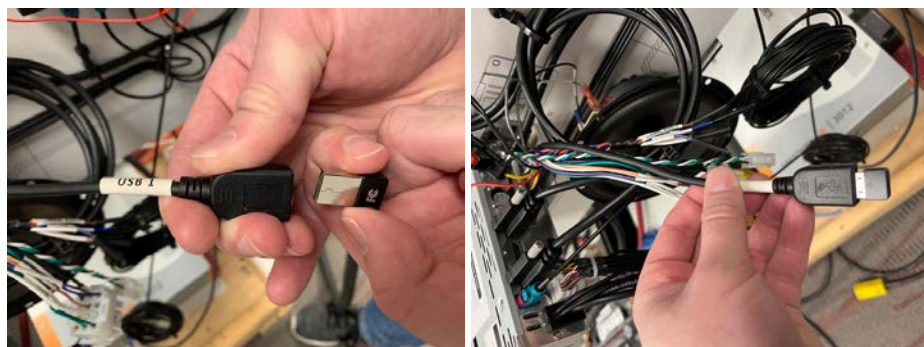
From the Xite G4 display, go to the Main Menu. Press the Settings/Setup button. Press the System button. Press the WiFi Settings button. Press Setting to enter WiFi setup menu. Refresh the screen to view the list of available WiFi hotspots. Select the WiFi hotspot you wish to use, and enter the WiFi password for that network.



Follow the on-screen prompts as if you are connecting to a WiFi network on a smartphone.

### ⚠ NOTICE

**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 [NavNGo Navigation System Operation via Xite Infotainment System](#) 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.



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.

### **! 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™.



### **! 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.
3. 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 Toll Roads and Bridges, refer to the [RV Toll Pass website](#).

## **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: [RV Toll Pass](#)



# 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.

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

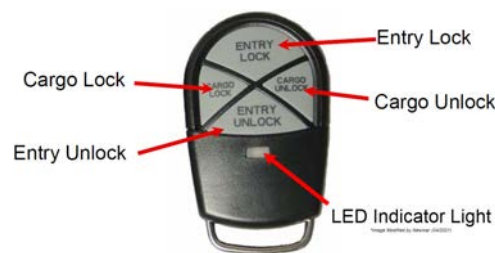
While the engine is running, only the entry unlock function of the e-FOB remains activated — other functions are deactivated.

### 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 "[Trimark Keyless Entry Reset Switch](#)" article in 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.

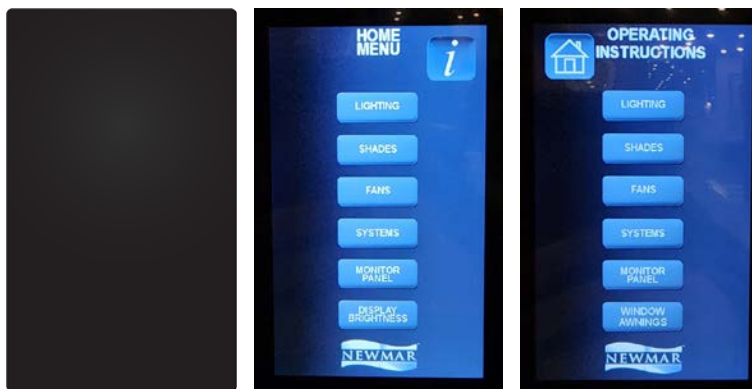
#### IMPORTANT

**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.**

## 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.

**Systems:** 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.

### 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).**

### 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.
2. **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.

### 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 AGM 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.

### ⚠ 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).

### 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.

#### DC House Voltage /Chassis Battery Charge Levels:

The house battery (house batt) and chassis battery (chassis batt) 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.

**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.

**Configuration/Settings:** Press the Settings button (cogwheel icon) to access numerous functional controls (when equipped), such as: Set the Clock, Lights and Shade Codes, AutoGenStart Settings, Inverter Diagnostics, Climate Options, Generator Settings, Warnings Configuration, AutoFill Configuration, Tablet WiFi / Rozie Settings, Entry FOB Status, 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.

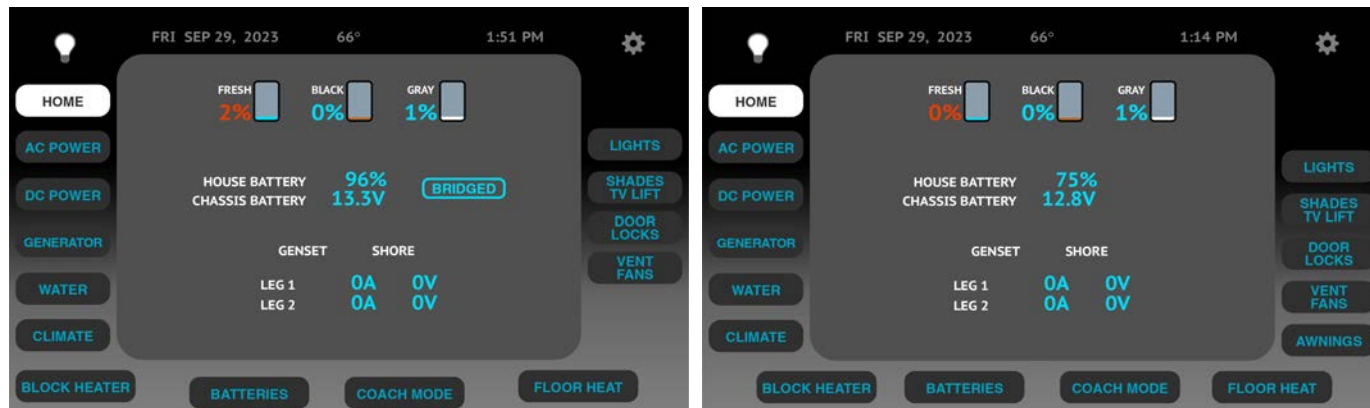
**Light Bulb/Brightness:** Press the light bulb icon to control the brightness of the touchscreen display. A dim bedroom display screen may be preferable at night so it does not inhibit sleep.

## 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.

### ! 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).



## 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.

### 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).

## ⚠ 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
- Inverter - AC Power
- Oasis - Climate All
- 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.

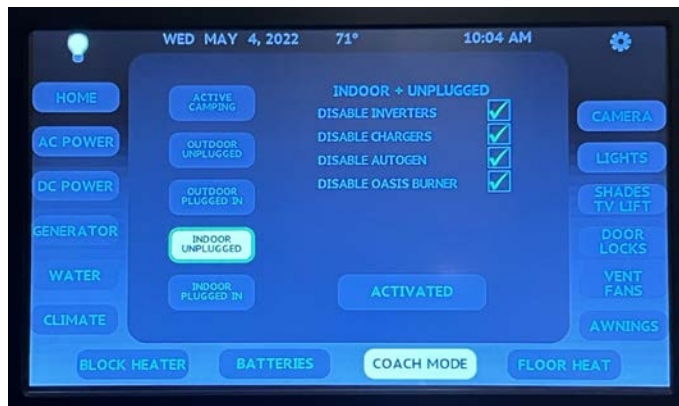
**Outdoor Unplugged:** When the motorhome is stored outdoors while unplugged, press the Outdoor Unplugged button, followed by the Activate button. This will automatically provide a list of items that should be enabled or disabled.

**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.

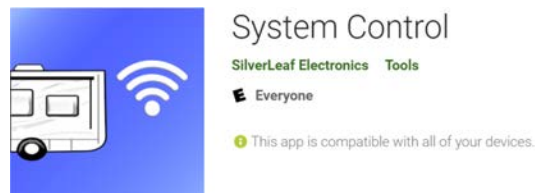




## SilverLeaf LR125/LR130 Module with System Control App for Personal Devices Overview

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.



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 [WiFi Server](#).*

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. WFR\_\_Poplar.\_\_\_ \_\_ \_\_ \_\_  
 Pvt. WFR\_\_Denali.\_\_\_ \_\_ \_\_ \_\_      Pvt. WFR\_\_Spruce.\_\_\_ \_\_ \_\_ \_\_  
 Pvt. WFR\_\_Everest.\_\_\_ \_\_ \_\_ \_\_      Pvt. WFR\_\_Aspen.\_\_\_ \_\_ \_\_ \_\_

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](http://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 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

### Carrier: VERIZON

- Not Officially Supported  
(Cannot guarantee Verizon data plans at this time.)

### Carrier: MILLENICOM

- **Consumer:** 800.996.1285
- **Business:** 800.996.1285
- millenicom.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.
  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

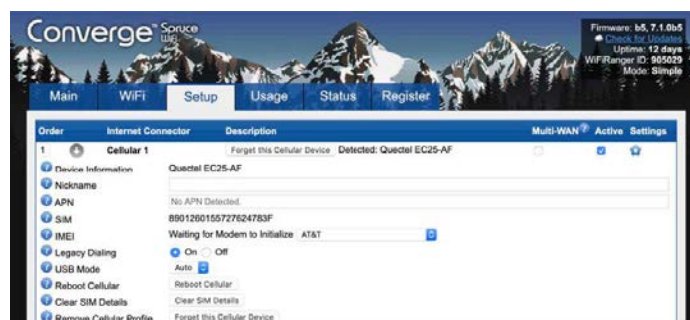
If you've changed the SIM card in your WiFiRanger modem and need to refresh the SIM number, follow the steps below:

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

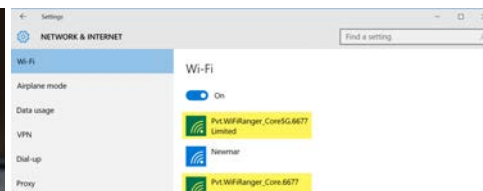
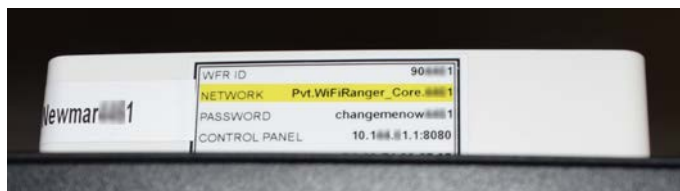
Unique APN on your Cellular account (only if applicable). Click "Save Changes."

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).



### NOTE FROM NEWMAR

**The electronic device can connect to either a standard or 5G core signal.**

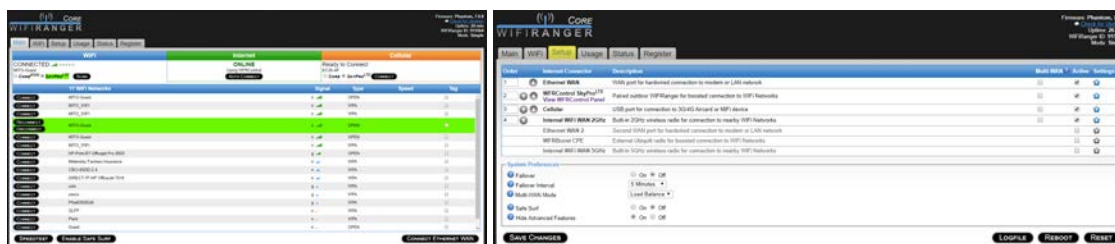
When prompted, enter the password listed on the router (this is the factory default setting).



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.



This will open the WiFi Ranger control panel. Select the [Setup] Tab.



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

**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.

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. 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.

⚠ 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

⚠ NOTICE

These instructions are intended for WiFi Ranger (WFR) GO2 and CONVERGE (Teton/Poplar, Denali/ 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.
  - 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:

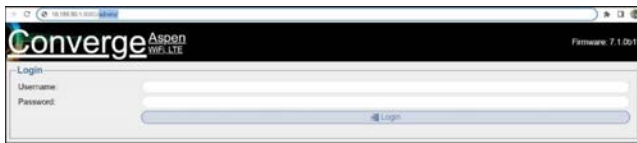
- WFR ID #: 778XXX
- Model: King Aire Diesel Bus
- Serial #: 530XXX

Customer WiFi Signal	
Example ID	778XXX
SSID Broadcast	NewmarXXYY
WPA Key (Password)	KGDB530XXX

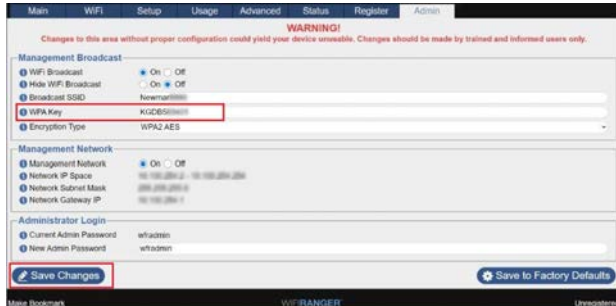


3. After connecting to the coach network, open an internet browser and type in 'MYWIFIRANGER.COM' in the address bar to connect to the WiFi Ranger control panel.
4. In the address bar of the internet browser, remove any text following ":8080" and then type in '/admin' after the ':8080'.
  - a. Example: 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





7. 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.

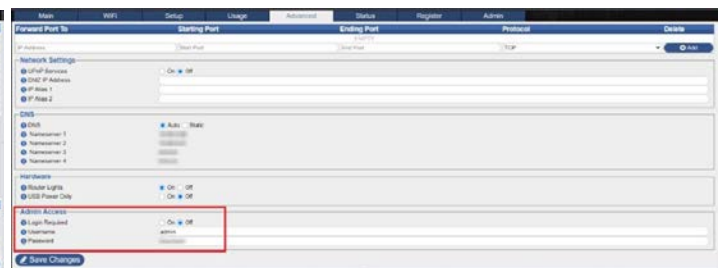
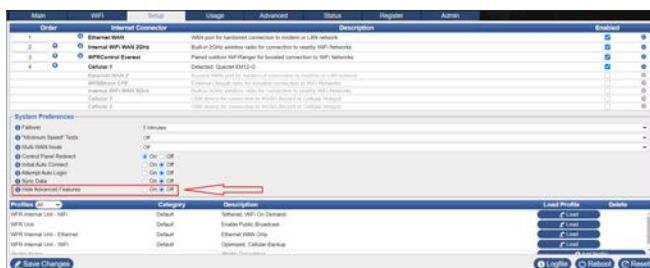


9. Once the settings have been changed, reconnect to the network using the new password.
10. Set up is complete!

## 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.
2. 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.



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

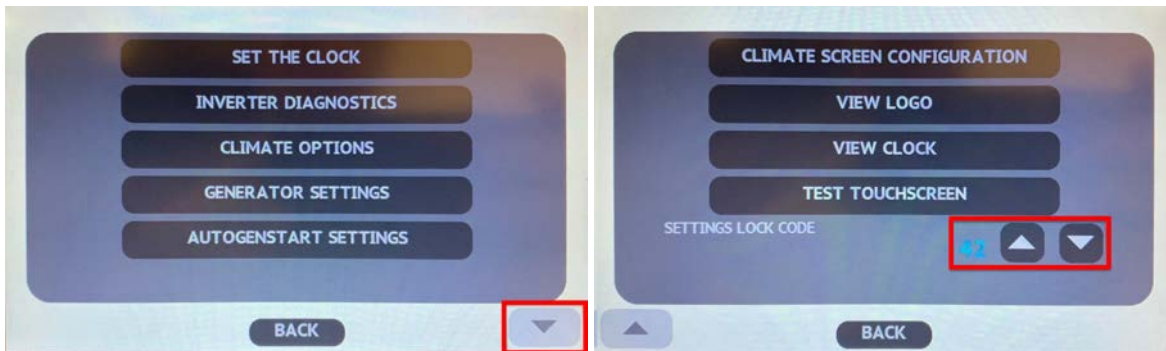
### IMPORTANT

**DO NOT change the SilverLeaf password unless you have FIRST changed the password on the WiFi Ranger.**

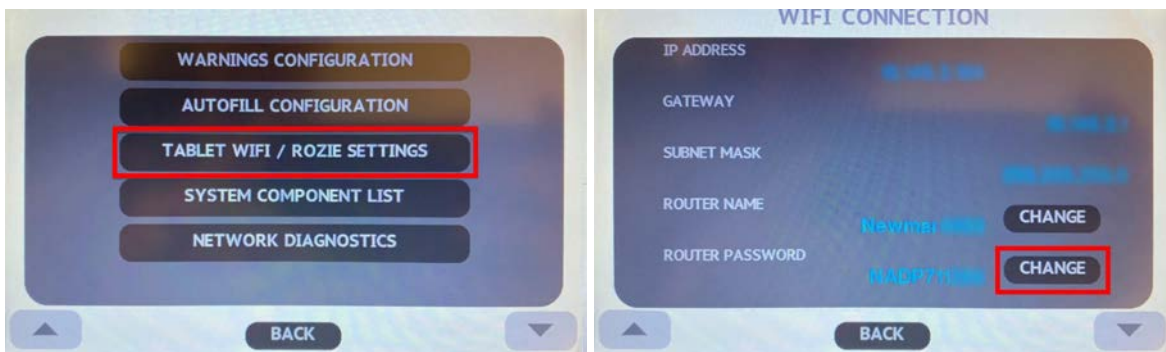
1. Start on the SilverLeaf Home screen.
2. Press the CONFIG button on the lower right-hand side of the Home screen on older coaches or the settings gear icon in the top right corner on newer coaches.



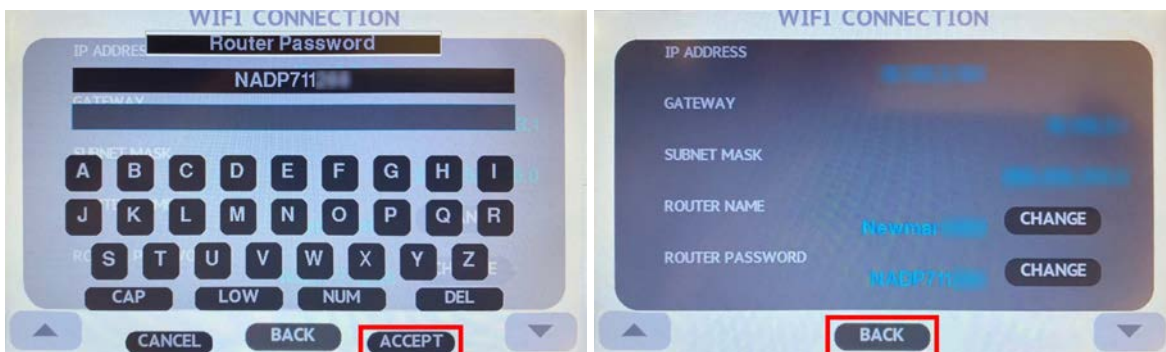
3. Scroll to the last page using the down arrow on the lower right-hand side of the CONFIG/Settings screen.
4. Change SETTINGS LOCK CODE using the up or down arrows, setting this number to "42."



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.



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.
10. Using the down arrow, scroll to the last page of the MONITOR CONFIGURATION screen. Then select the REBOOT button.



After REBOOT is selected, the SilverLeaf monitor will return to the HOME screen, and your new password is saved.

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# 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.

## ⚠ 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.



**⚠ IMPORTANT**

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.

**⚠ IMPORTANT**

Failure to turn off the power booster switch to the antenna while using the park cable system may cause poor picture quality.

### Antenna Mode

When the Control panel is powered on by pressing the On/Off button, the LEDs will flash and begin their power-on process. At this time the antenna amplifier is powered on and TV antenna signals will be passed. Initially, GREEN "Positional LED(s)" will be lit to indicate the direction the antenna is positioned.

### 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.

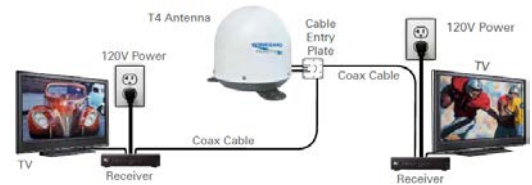
Once the dish begins its search, it pauses on signals long enough to determine which satellite it has found. The antenna may move off the signal in an effort to verify the signal and should return shortly.

**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 [www.winegard.com/support](http://www.winegard.com/support).

**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.

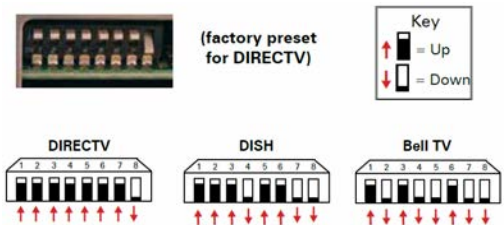
**Satellite Coverage:** The antenna will locate and toggle between satellites 101° and 119°. The RoadTrip® T4 antenna will not operate in all areas where satellites 101° and 119° are available. The T4 antenna is not compatible with 110° or KA-band satellites 99° and 103°. Satellite coverage maps are 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 (Model: RTT-20B, Newmar Part Number: 135606P)



# 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.

**⚠ NOTICE**

**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)

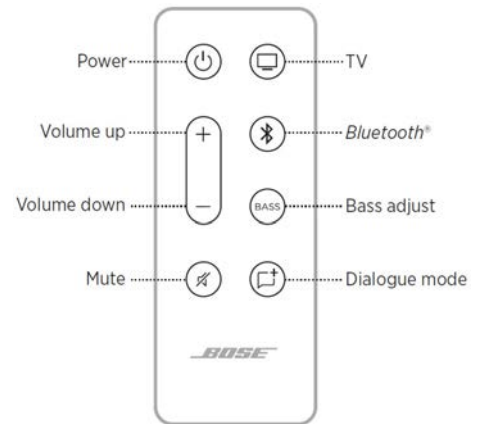
This article provides basic operation instructions for a Bose TV Speaker (Model: 838309-1100).

### 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.

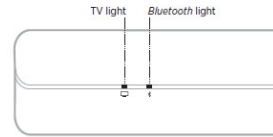
The TV and Bluetooth lights on the speaker glow to show the current bass setting. Press BASS. The speaker saves the current bass setting.

#### 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.

## Bluetooth

On the remote, press the Bluetooth button. The Bluetooth light slowly pulses blue.



LIGHT ACTIVITY			SYSTEM STATE
Bluetooth light slowly pulses blue	■	➔	Ready to connect
Bluetooth 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
- **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)

## Bose Smart Soundbar Quick Start (Model: 900)

This article provides basic operation instructions for a Bose Smart Soundbar (Model: 900).

## Soundbar Controls

The soundbar controls are located on the top of the soundbar and on the remote.

TIP: You can also control your soundbar using the Bose Music app.

## Remote Functions

Use the remote to control the soundbar, Bluetooth connections, and presets.

**Power On/Off:** On the remote, press the Power button to power the soundbar on/off.

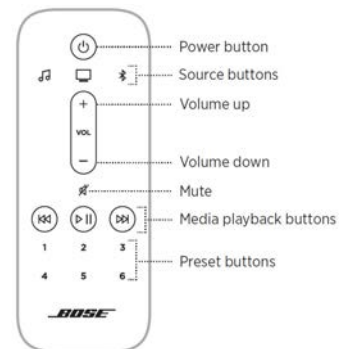
When powered on, the soundbar defaults to the last active source. When you plug the soundbar into an AC (mains) outlet, the soundbar automatically powers on. You can still access your voice assistant when the soundbar is powered off. You can also use Voice4Video™ to power the soundbar on/off.

**Auto-Wake (Optical Connection Only):** You can set the soundbar to power on whenever a sound signal is received. To toggle between auto-wake and default power settings, press and hold I for 10 seconds until you hear a tone and the light bar pulses white twice. You can also control auto-wake using the Bose Music app. You can access this option from the Settings menu.





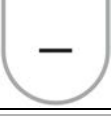

**Sources:** You can control your TV, Bluetooth connections, and Bose Music app audio using your remote. To select a source, press the appropriate button (Bose Music app, TV, or Bluetooth) on the remote. You can also use Voice4Video™ to select your Bluetooth source. You can also use the Bose Music app to select a source.

**Presets:** The soundbar includes 6 presets that you can set to play audio from your favorite music services. Once set, you can access your audio, at any time, with a simple touch of a button on the remote or using the Bose Music app.

## Media playback and volume





SYMBOL	WHAT TO DO
	<b>Play/Pause</b> Press the Play/Pause button. When audio is paused, two lights in the center of the light bar glow solid white until audio resumes. You can only play/pause audio when the Bose Music app or a Bluetooth connection is your source.
	<b>Skip Forward</b> Press the Skip Forward button.
	<b>Skip Backward</b> Press the Skip Backward button.
	<b>Volume Up</b> Press +. To quickly increase the volume, press and hold +.
	<b>Volume Down</b> Press -. To quickly increase the volume, press and hold -.
	<b>Mute/Unmute</b> Press the Mute button. When audio is muted, the left end of the light bar glows solid white until audio resumes. You can also press + to unmute audio.

**Voice Assistant Controls:** You can use the Action button and Microphone off button to control Google Assistant or Amazon Alexa (refer to complete manual for more information).

## Preset Personalization

You can control presets using the Bose Music app or the remote.

**NOTE:** You can't set presets when your source is a Bluetooth connection.

**Set a Preset:** Stream music using the Bose Music app. On the remote, press the Bose Music button. Press and hold a preset button until you hear a tone.

**Play a Preset:** Once you personalize presets, press a preset button on the remote to play music.

**Connect a Mobile Device:** On the remote, press the Bluetooth button. The light bar pulses blue. On your mobile device, turn on the Bluetooth feature. The Bluetooth menu is usually found in the Settings menu.

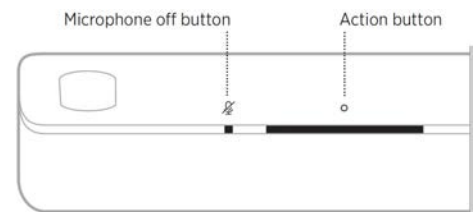
Select your soundbar from the device list. Look for the name you entered for your soundbar in the Bose Music app. If you didn't name your soundbar, the default name appears. Once connected, you hear a tone, and the light bar glows solid white then fades to black. The soundbar's name appears in the mobile device list.

**Disconnect a Mobile Device:** Use the Bose Music app to disconnect your mobile device. You can also use Bluetooth settings on your mobile device. Disabling the Bluetooth feature disconnects all other devices.

**Reconnect a Mobile Device:** On the remote, press the Bluetooth button. The soundbar tries to connect with the most recently-connected devices. Make sure the Bluetooth feature is enabled on your mobile device. The device must be within 30 ft (9 m) and powered on.

**Connect an Additional Mobile Device:** You can store up to eight devices in the soundbar device list. You can play audio from only one device at a time. On the remote, press and hold the Bluetooth button until the light bar pulses blue. On your mobile device, select your soundbar from the device list. **NOTE:** Make sure the Bluetooth feature is enabled on your mobile device.

**Clear the Soundbar Device List:** On the remote, press and hold I for 10 seconds until the light bar pulses white twice then fades to black. The light bar pulses blue. Delete the soundbar from the Bluetooth list on your device. All devices are cleared, and the soundbar is ready to connect.



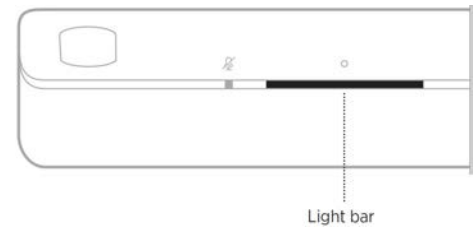
## Soundbar Status

The LED light bar located on the front of the soundbar shows the soundbar status.

NOTE: The light bar displays one status at a time of the selected source.

- **Wi-Fi Status:** Shows the Wi-Fi connection status of the soundbar.
- **Bluetooth Status:** Shows the Bluetooth connection status of mobile devices.
- **Voice Assistant Status:** Shows the status of your voice assistant.

For more information about status lights, refer to the complete manual.



## Care and Maintenance

Wipe the outside surfaces of the soundbar with a soft, dry cloth.

### ⚠ CAUTION

- **Do NOT allow liquids to spill onto the soundbar or into any openings.**
- **Do NOT blow air into the up-firing speakers or soundbar.**
- **Do NOT use a vacuum to clean the up-firing speakers or soundbar.**
- **Do NOT use any sprays near the up-firing speakers or soundbar.**
- **Do NOT use any solvents, chemicals, or cleaning solutions containing alcohol, ammonia, or abrasives.**
- **Do NOT allow objects to drop into any openings.**

Source(s): Bose Smart Soundbar 900 Owner's Guide (2021)

Product(s): Bose Smart Soundbar (Model: 900, Newmar Part Number: 161021)

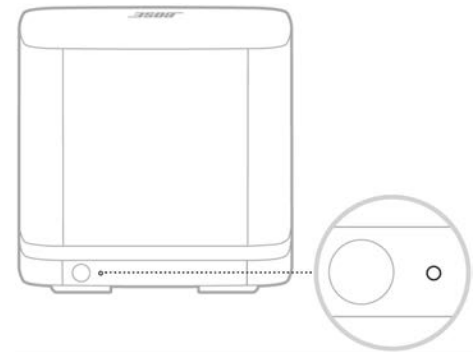
## Bose Bass Module Quick Start (Model: 500)

This article provides basic operation instructions for a Bose Bass Module (Model: 500).

### Status

The light on the back of the module shows system status.

- **Solid White:** Connected to the soundbar
- **Blinking White:** Downloading a software update
- **Solid Amber:** Network standby (wireless connection)
- **Blinking Amber:** Ready to connect to the soundbar
- **Off:** Power-saving mode (wired connection)
- **Blinking Red:** Error - contact Bose customer service



### Choose Your Connection Method

The way you connect the bass module depends on your soundbar. Choose your connection method:

**Bose Soundbar 500 or Bose Soundbar 700:** Connect using the Bose Music app. If you can't access or have trouble connecting using the Bose Music app, refer to the Troubleshooting section in the Bose Owner's Guide.

**SoundTouch 300 Soundbar:** Connect using your soundbar's remote.

**Connect Using the Bose Music App:** In the Bose Music app, from the My Bose screen, select your soundbar. Tap the soundbar image in the bottom-right corner of the screen. Tap Settings > Accessory Speakers > Add Bose Accessory Speakers. Follow the app instructions.

**Connect Using the SoundTouch 300 Remote:** On your soundbar's remote, press the SoundTouch button. Press and hold 7 until the connectivity light on the soundbar blinks white. Once connected, you hear a tone. The light on the back of the bass module and the connectivity light on the soundbar glow white. Connecting may take several minutes.

### Choose Your Bass Adjustment Method

The way you adjust the bass depends on your soundbar. Choose your bass adjustment method:

**Bose Soundbar 500 or Bose Soundbar 700:** Adjust the bass using the Bose Music app

**Bose SoundTouch 300 Soundbar:** Adjust the bass using your soundbar's remote. For optimal sound quality for dialogue-only programs, such as news and talk shows, enable dialogue mode.





































**Adjust the Bass Using the Bose Music App:** You can only adjust the bass using the app if your bass module is connected to the Bose Soundbar 500 or Bose Soundbar 700. In the Bose Music app, from the My Bose screen, select your soundbar. Tap the soundbar image in the bottom-right corner of the screen. Tap Adjustments to adjust the bass.

**Adjust the Bass Using the SoundTouch 300 Remote:** On the SoundTouch 300 remote, press BASS. The lights on the soundbar glow according to the current bass setting. Adjust the bass by doing one of the following: Press Volume up button to increase the bass. Press Volume down button to decrease the bass. Press BASS. The soundbar saves the current bass setting.

**Reset the Bass:** On your remote, press and hold BASS until the SoundTouch light on the soundbar blinks twice. The bass setting resets to original factory settings.

Source(s): Bose Base Module 500 Owner's Guide

Product(s): Bose Base Module 500 ([Model: 796145-1100, Newmar Part Number: 151757](#))

+4	    
+3	    
+2	    
+1	    
0 (default)	    
-1	    
-2	    
-3	    
-4	    

## 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

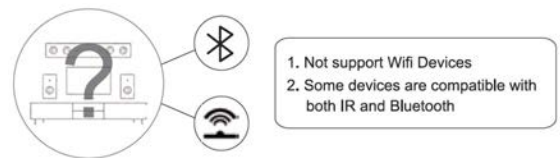
- Load battery.
- Download "SofaBaton" App.
- Connect remote.



### Add Device

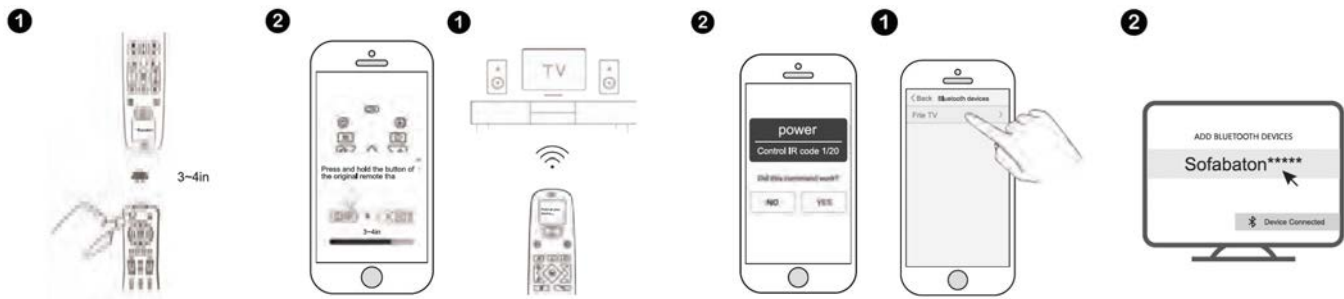
(Determine if your devices support IR or Bluetooth.)

**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]



**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]

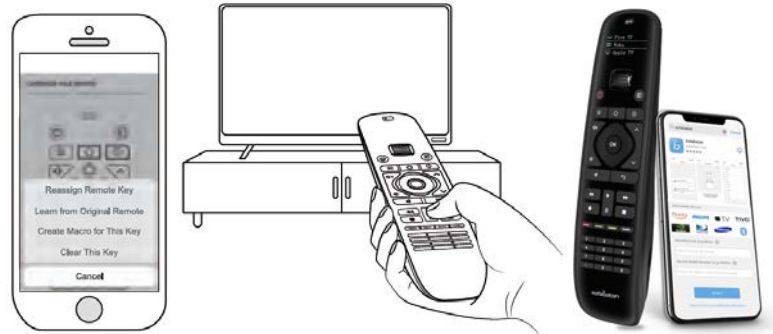
**Via Bluetooth Mode:** If you add a new Bluetooth device, the App would be disconnected from your U1 first. Meanwhile, you can connect your U1 with your phone to complete the remaining steps of adding a new device. [3rd set of graphics]



## Start Using

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.

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.

### ⚠ 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.



### ⚠ IMPORTANT

**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.**



## 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, smartphone, 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.

### IMPORTANT

**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.

1. Navigate to Menu.
2. Select Settings.
3. Select All Settings.
4. Select Support.
5. Select Open e-Manual.



### 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-my-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.

### ⚠ NOTICE

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.

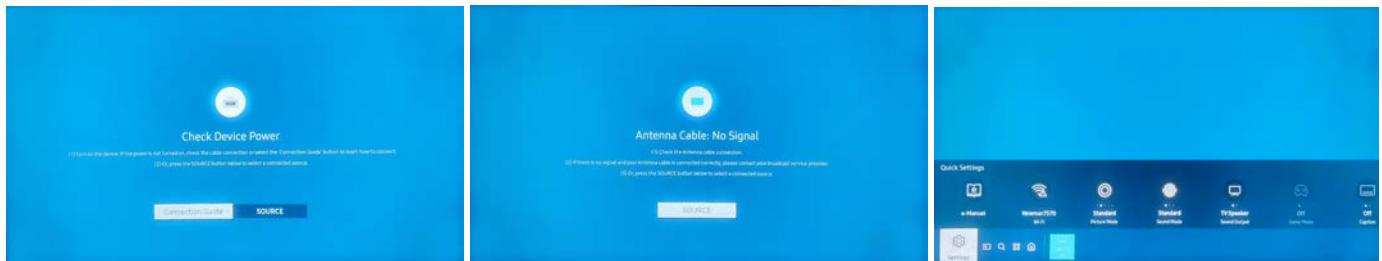
## Connect a cable or antenna and scan for channels

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!

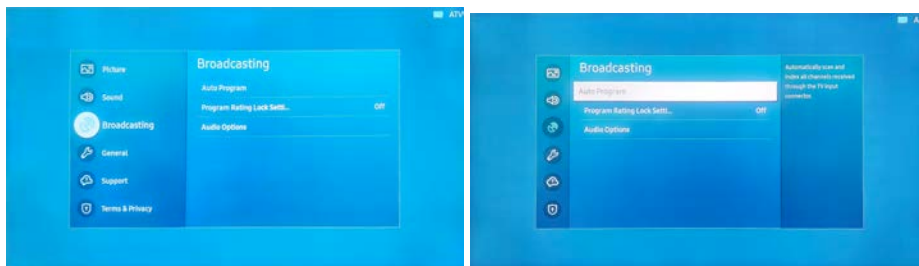
First, make sure you have an antenna or a cable box already installed and set up to go. Change the source on your TV to "TV." There are a few ways to do this.

- 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)**.

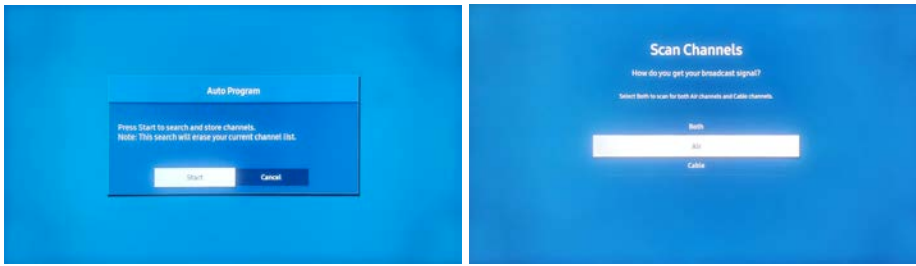


Select **Broadcasting**, and then select **Auto Program**.



Select **Start** to begin auto-programming, and then select either **Air** or **Cable**.

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## Both

### NOTE FROM NEWMAR

From the "Scan Channels" screen, do not select the **BOTH** option, as you can only receive signal from over-the-air **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.
2. 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)

## Skyworth LED HD TV/DVD Combo Quick Start (Model: SLC-1921A)

This article provides basic operation instructions for a Skyworth LED HD TV/DVD Combo (Model: SLC-1921A).

## Controls

### (01) SPEAKER

(02) **POWER INDICATOR**: Green - In power on mode. Red - In standby mode.

### (03) REMOTE CONTROL SENSOR

(04) **SOURCE**: Change and select the desired mode (TV, AV, Component, DVD, HDMI, PC, USB).

(05) **MENU**: Press to see an on-screen menu of your TV's features.

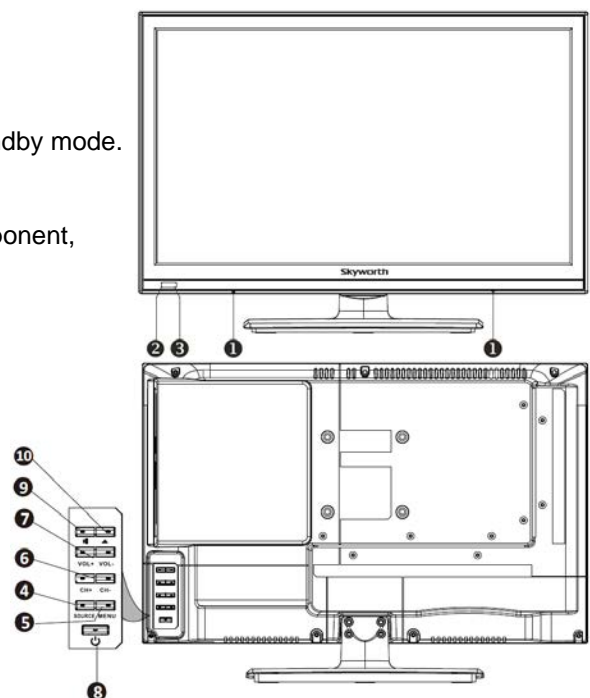
(06) **CH +/-**: Press to change channels. In the on-screen menu, use the CH +/- as up/down arrow buttons.

(07) **VOL +/-**: Press to increase or decrease the volume. In the on-screen menu, use the VOL +/- buttons as left/right arrow buttons.

(08) **POWER (STANDBY)**: Press this button to turn on/off the TV.

(09) **PLAY/PAUSE**: After you load a disc, press to play the disc, and press twice to pause.

(10) **EJECT**: Press the Eject button when the power is on to eject the disk. Press it again to load the disc automatically.



## Input Options

**(01) EARPHONE:** Connect a set of headphones for private listening.

**(02) POWER (DC 12V) INPUT**

**(03) HDMI:** Connect a device with a HDMI output.

**(04) VGA/PC IN:** Connect your PC.

**(05) PC AUDIO:** Audio input for external devices.

**(06) COMPOSITE VIDEO:** Video input for external devices, such as a camcorder or VCR.

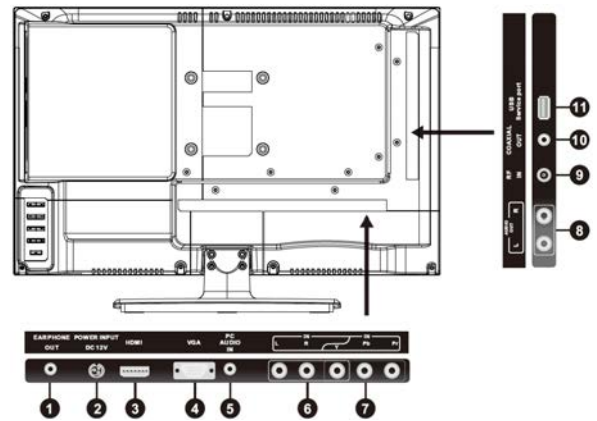
**(07) COMPONENT:** Connect Component video.

**(08) L/R AUDIO OUTPUT:** Audio outputs for external devices. **(09)**

**RF:** Connect to an antenna or cable NTSC & ATSC.

**(10) COAXIAL:** Connect to a Digital Audio device.

**(11) USB:** Service port.



## Remote Control

**(01) POWER:** Press this button to turn the TV on or into standby ode.

**(02) MUTE:** Press this button to mute the sound.

**(03) SLEEP:** Press this button to set the sleep timer. The sleep timer values are: OFF, 5, 10, 15, 30, 45, 60, 90, 120, 180, or 240 minutes.

**(04) OSD:** Press this button once to show main playback information on TV screen and press it again to show playback time. Press this button at the fifth time and then the display will be cancelled.

**(05) SOUND:** Press this button to select desired sound mode.

**(06) PICTURE:** Press this button select desired picture mode.

**(07) RECALL:** This button is used to return to the previous channel. Go To: Press this button to go to desired position; the player provides three search modes. hen the items are showed on LED screen, you can input number to locate desired selector, then press PLAY to commence play. The number you input is invalid if it is beyond the track's capacity.

**(08) DISPLAY:** Press this button to display the information on current input.

**(09) AUDIO:** When playing DVD, press this button to change the audio language form the one selected at the initial settings to a different language, if available. MTS: When stereo program is received, press this button to switch sound system between mono and stereo. When SAP program is received, press this button to switch sound system between mono and SAP. When stereo and SAP program is received, press this button to switch among mono, stereo, and SAP.

**(10) CC:** Press to turn ON/OFF closed captions.

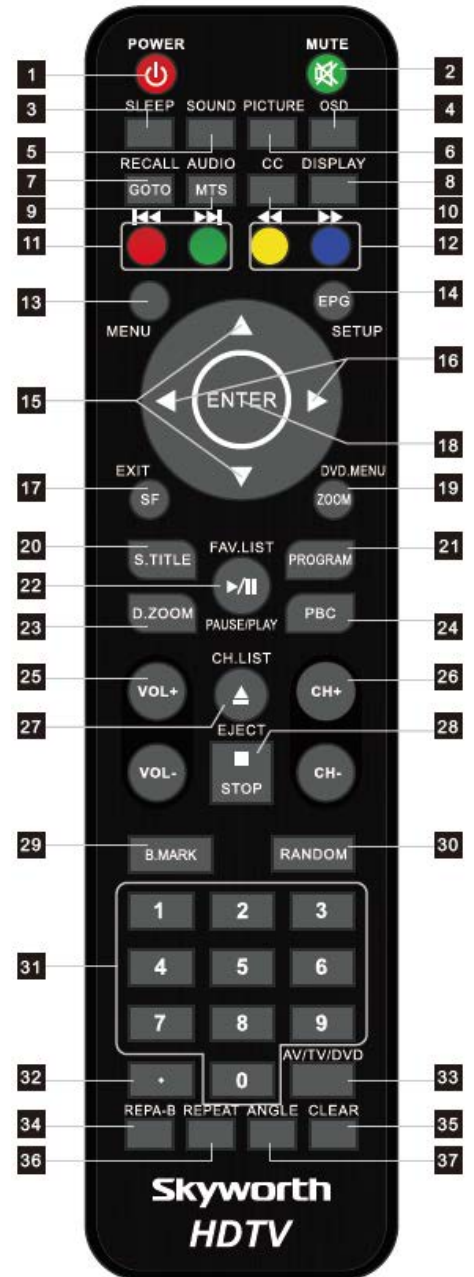
**(11) PREV/NEXT:** Press these buttons to go to the previous/next chapter (DVD). When playing CD disc, press button twice to select previous song.

**(12) FR/FF:** These buttons allow skipping ahead/back at 5-level speeds. Press the Play button to return to normal playback.

**(13) MENU:** Press this button to enter the menu mode for various optional adjustable settings or quit from current menu.

**(14) ELECTRONIC PROGRAM GUIDE (EPG):** Press this button to call up the Electronic Program Guide. Setup Button: Press this button to get the setup menu you can select the desired settings.

**(15) UP/DOWN:** Press these buttons to select the desired items in the menu.





- (16) LEFT/RIGHT:** Press these buttons to select the desired items in the menu, or enter the selected.
- (17) EXIT:** Press this button to escape from the current operation. SF button: Press this button to play the disc slow Forward.
- (18) ENTER:** Press this button to enter the selected item.
- (19) ZOOM:** Press this button to Zoom pictures. DVD Menu: If playing some DVD discs, press this button back to root menu screen. If playing DVD, you can use the function of MENU, PROGRAM, and RANDOM.
- (20) S. TITLE:** Press this button you can change the subtitle language from the one selected at the initial settings to a different language if available.
- (21) PROGRAM (PROG):** When you want to play only partial tracks/chapters of a disc "DVD" or to arrange the tracks/chapters playback order, you need to program the following. Press PROGRAM button, then PROGRAM will appear on TV screen. Press the track number in the order you want. For example, if the track numbers you want to play are 1, 3, and 8, just input in the order of 1-3-8. You can press the CLEAR button to cancel and input again if you miss input track numbers. Now you can press the "four-directional arrow button" and "OK" button to select "START" option and enjoy the desired tracks.
- (22) FAVORITE LIST (FAV.LIST):** Press this button to start playback. Press this button again to pause playback.
- (23) D.ZOOM:** Press this button during normal zoom in or zoom out playback mode. This player can magnify a picture at three levels. Press this button to magnify picture and use the "four-directional arrow" button to select desired part of the zoomed picture.
- (24) PBC:** Press this button to return to the menu of the disc and play the disc from the first track.
- (25) VOL +/- :** Press these buttons to increase or decrease the volume.
- (26) CH+ / CH- :** Press these buttons to select channels in ascending or descending order.
- (27) CH.LIST:** Press this button to display the channel list in TV mode.
- (28) STOP:** When this button is pressed once, the unit records the stopped point from where playback will resume (resume function) if PLAY is pressed afterwards. But if STOP button is pressed again instead of the PLAY button, there will be no resume function.
- (29) B.MARK:** When playing DVD disc, press this key to mark the place where you want to replay again.
- (30) RANDOM (DVD ONLY):** Random mode allows you to play tracks randomly by pressing this button. Pressing again will cancel random playback.
- (31) NUMBER (0-9):** Enter digits for channel selection or password setting.
- (32) BLACK DOT:** For sub-channel selection.
- (33) AV/TV/DVD:** Press this button to display the input source. Using UP/DOWN button to select and RIGHT or ENTER button to confirm.
- (34) A-B REPEAT (REP A-B):** You can repeatedly play a given portion by operating as follows: Press this button once to define the portion head (start). Press this button again to define the portion toe (end). Then the portion will be played repeatedly. Press this button again to return to normal playback.
- (35) CLEAR:** Press this button to cancel the numbers you input, just like an eraser.
- (36) REPEAT:** Press this button to repeatedly play a chapter (DVD). You can repeatedly play a title (DVD). You can also repeatedly play the whole disc (DVD) and cancel the repeat function.
- (37) ANGLE:** Some DVDs contain several scenes taken at the same time in different angles. Press this key to select a different angle (if the disc supports this function).

### NOTICE

If an universal remote is used to control this TV, please program the universal remote using the Philips code.

## Basic Operation

**DVD Operation:** Press the Eject button on the side panel or on the remote. After placing a disc in the disc tray, press the Play/Pause button to play the disk, and press the Play/Pause button twice to pause the disk.

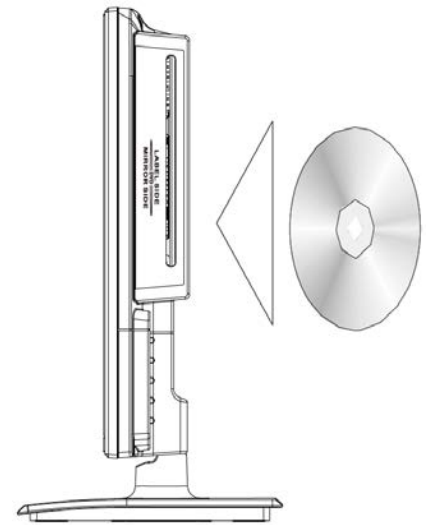
**Turning the TV on or off:** After attaching cable to either an antenna or a cable service, insert the power cord plug into a polarize AC outlet. Press the POWER button on the LED TV. The normal picture will be displayed on the screen after six seconds. If no signal, "No Signal" will display on the screen. If temporary POWER of is required, press the POWER button on the LED TV. If you want to completely switch off the power for this unit, unplug the power cord plug. After switching off the unit, you should turn on the TV again at least five seconds later.

**Status Indication Lamp:** Green: In power on mode. Red: In standby mode.

**Auto Power Off:** If there is no signal input in any mode, the TV will automatically access the standby state after approximately 15 minutes.

**Memory before turning TV off:** The settings of picture and the preset channels will be memorized at turning off the unit. When it is started up again, the unit will work according to the mode set before being turned off.

Source(s): Skyworth LED HD TV/DVD Combo User's Manual



## 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.

#### NOTICE

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.



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# 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.

## ⚠ 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.

## AIR HORNS

### Super C Air Horn Operation

This article provides basic operation instructions for an Air Horn installed on Super C coaches.

## ⚠ NOTICE

**It is possible to have both the electric and the air horn installed on one vehicle.**

Single and dual air horns are available as options. The air horn is controlled by a wire lanyard hanging down just inboard on the driver's door. Pull downward on the lanyard to sound the air horn.

*Source(s): M2 Freightliner Chassis Driver's Manual*



## 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.

## ⚠ 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.

### **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.**

### **CAUTION**

**Awnings should be retracted during accumulating rains. Pooling water on the awning can result in damage to the awning hardware and/or fabric.**

### **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.**

### **NOTICE**

**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.

### **CAUTION**

**Never leave awning(s) extended without AC power available to retract awning(s) via the motion/wind sensor.**

## How to Operate the Awnings

### **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.**

### **IMPORTANT**

**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

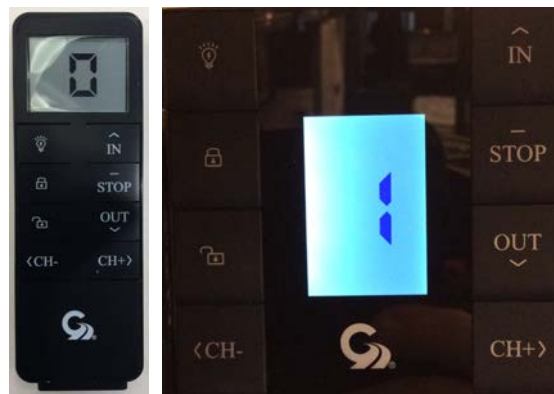
To operate the awnings, change the channel until the visual indicator displays next to the channel you wish to select:

- 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.

### ⚠ 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 ([Model: NOVA](#), [Newmar Part Number: NovaAwning](#))

Source(s): G-2000 Patio Awning G-1500 Door Awning Installation, Operation, Adjustment, and Repair (REV. 01272016)

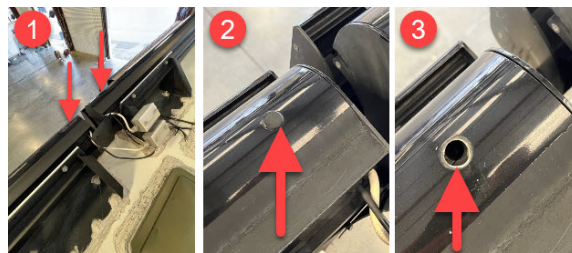
Product(s): Girard G Series Awning ([Model: G2000](#), [Newmar Part Number: G2000](#))

## Manually Retracting a Girard Patio Awning

This article provides manual retraction instructions for a Girard patio awning. 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:

1. 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.**



# 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.**

### ⚠ 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.

### ⚠ NOTICE

**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).



# 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.

### 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.



## 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.

### NOTICE

**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 Door Lock Switch Overview

This article provides an overview about the Entry Door Lock Switch, which may be labeled "ENTR LOCK" or "ENTR 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.



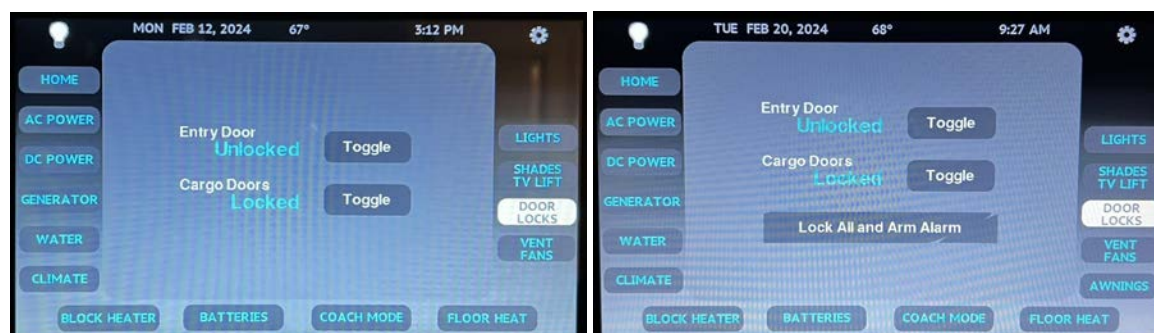
## 2025 SilverLeaf Touchscreen Guide: Door Locks

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.

### 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).**

- **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).



## ENTRANCE STEPS

### HWH Hydraulic Entrance Step Quick Start (Model: 725 Series)

This article provides basic operation instructions for an HWH Hydraulic Entrance Step (Model: 725 Series).

## Operation



**⚠ WARNING**

**Always make sure step is properly extended before exiting or entering the vehicle. Serious injury can occur if step is not properly extended.**

The step will function with the ignition on or off. Any step operation, extend or retract, will interrupt the operation of the leveling system, HWH slideouts or the HWH generator slide. Operation of these systems, including automatic leveling or store, will continue when the step operation is complete.

**⚠ WARNING**

**Keep people and objects clear of step while step is operating. Serious injury can occur.**

If the step is retracted, the step will extend anytime the door is opened. The step will retract anytime the door is closed unless the master door switch is off and the park brake is set.

The only time the step will stay extended is if the door is open or if the door is closed with the park brake on and the master step switch off.

**NOTE FROM NEWMAR**

**The exterior switch can be turned off once the step is extended. This will prevent the step from opening and closing each time the door is opened or closed. The step will extend one time after it has retracted with the switch in the off position.**

**NOTE FROM NEWMAR**

**It is normal for the pump to run for a short time after the step is retracted.**

## Shin Guard and Curb Feeler

There is a shin guard sensor strip mounted to the front of the bottom step and a curb feeler sensor strip mounted to the bottom of the bottom step. If either sensor comes into contact with a person or object while extending, the step will stop moving. The step will NOT retract.

**NOTE FROM NEWMAR**

**The curb feeler is mounted to the bottom of the lowest step; however, newer coach models may have a bump-stop switch in lieu of the curb feeler.**

To fully extend the step, the obstruction must be cleared, the vehicle may need to be moved, the master step switch must be on and the door must be closed. The step will retract. When the door is re-opened, the step will extend.

During automatic leveling, if the curb feeler comes into contact with the ground or an object, the leveling process is canceled. The suspension is returned to the travel mode so the air bags can fill, but the jacks are not retracted. If the step was extending, the step will stop extending. The obstruction must be cleared or the vehicle may need to be moved. The master step switch must be on and the door must be closed. The step will retract. When the door is re-opened, the step will extend.

If the leveling process is canceled, the leveling process will have to be restarted. Make sure the coach is positioned to allow ample room for the step to extend and the coach to be leveled. If it is necessary to move the coach, make sure the jacks are fully retracted first.

**⚠ CAUTION**

**Do not sit or stand on the step when the door is being closed, as it retracts when the door switch is activated.**

**⚠ WARNING**

**Do not sit or stand on the step with the ignition on if the parking brake is going to be released. The step may retract automatically regardless of the door or on /off switch position.**

**⚠ CAUTION**

**HWH does not recommend spraying the step assembly with high pressure water, as damage to the curb and/or the shin guard sensors may occur.**

## Override Switch

When equipped, this switch is located in the passenger side console or wall just inside the entry door.

### ⚠ IMPORTANT

**Do not use the override switch unless the door is open.**

The step override switch can be used to extend the step in the case of a shin guard or curb feeler switch failure. The override switch can be used with the ignition ON or OFF. The override switch is a momentary switch. The step will stop moving when the switch is released. The pump will run until the switch is released.

### ⚠ NOTICE

**Anytime the step is fully extended or stops moving, release the override switch. The pump will NOT shut off automatically when the step is fully extended.**

### ⚠ IMPORTANT

**It is the operator's responsibility to make sure any people or objects are clear of the step and that there is ample room to fully extend the step before using the step override switch.**

Use of the override switch will interrupt any leveling procedure or room extend/retract procedure. Those procedures will resume when the override switch is released. If suspension air was dumped, the ignition is on and the curb feeler switch comes on while pushing the override switch, the leveling system will return to the travel mode and the suspension can return to ride height if there is adequate air supply.

### NOTE FROM NEWMAR

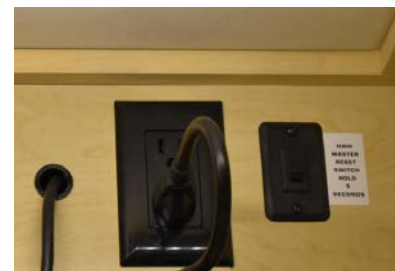
**Make sure the path of the step is clear. Pressing the override switch disables the curb and shin guard sensors. Stop the step before it contacts any objects or the ground. Failure to do so may result in severe damage to the step or contacted objects. Using the override switch will extend the step during switch activation at any time unless the park brake is released. Releasing the park brake will disable the override switch.**



## Reset Switch

When equipped, this switch is located in the overhead cabinet (may be above the main control panel) and is labeled "HWH Master Reset Switch." In the event the HWH system is inactive, press and hold the reset switch for five seconds. Then release the switch, and attempt system operation again.

*Source(s): HWH Computer-Controlled 725 Series Step Mechanism Operator's Manual*



## HWH Hydraulic System Troubleshooting Tips

This article provides troubleshooting tips for the following components:

- HWH hydraulic slideouts
- HWH hydraulic entrance steps
- HWH hydraulic generator slideouts
- HWH hydraulic leveling jacks

If any, or all, of these HWH hydraulic components are not functioning, follow the troubleshooting steps before contacting Newmar or HWH.

If the pump runs for an accumulative time of approximately three minutes while operating the HWH jacks, slideout(s), generator slideout, or the step, the system will turn off and the pump will stop running. This only applies to coaches equipped with an HWH step. If for some reason the pump doesn't run for any HWH equipment, it might be necessary to reset the HWH system. If this time lockout occurs, power for the HWH control system must be removed before any system components will function.

## Coaches Equipped with HWH Reset Switch

Current coaches equipped with an HWH step system also have an HWH reset switch installed in the main control panel, allowing the user to reset the HWH control board. Press and hold the momentary contact switch for approximately five seconds to reset the system.

*Source(s): HWH Computer-Controlled 725 Series Operator's Manual (ML56701)*



# 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.

### ⚠ IMPORTANT

**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

**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.**



# 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.



## Flagpole Safety

### ⚠ 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.

### ⚠ 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.

### ⚠ IMPORTANT

**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.

### ⚠ NOTICE

**Do not place items on the roof for transportation. The roof was not designed to support the transportation of luggage or other items.**

## Super C Roof Drains and Gutter Maintenance

This article provides cleaning recommendations and instructions for roof drains and gutters on Super C M2 coaches. Note: This is standard on Super C lines, including Super Star and Supreme Aire.

For Super C coaches, the rear drain pipes are located on the passenger side under the rear cap, and the front drain pipes are located on the driver and passenger sides under the coach near the junction of the cab and coach body.

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 of the main cabin area. There are typically two drain pipes on the passenger side of the rear cap and one on each side of the front cap.



## 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.

### IMPORTANT

**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 [Diamond Shield's website](#). Using unapproved sprays, cloths, or waxes may cause damage to the film, which may not be covered under warranty.

## WINDOWS AND WINDSHIELDS

### 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.



## Freightliner M2 PLUS Super C Driver and Passenger Power Window Overview (2024 and Newer)

This article provides instructions for operating the driver and passenger power window on a Freightliner M2 PLUS Super C coach (2024 and newer).

Power windows are standard on M2 Plus vehicles. With power windows, the driver's door has switches mounted in the top of the door that separately control the driver and passenger windows. Additionally, the passenger door has a switch mounted in the top of the door that controls the passenger-side power window.

### ⚠ CAUTION

**There is no anti-pinch protection when the window is almost closed. Be sure to clear all objects from the window before closing.**

The window switches have three positions: lower window, neutral, and raise window. Press forward on the switch to lower the window. Hold the switch down in the forward position for approximately one second to activate the express function; the window will continue to roll down after the switch is released. Press the switch in the rearward position to raise the window.



Source(s): Freightliner Business Class M2 PLUS Driver's Manual (2/10/2023) Section 5.7

## 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.

### **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

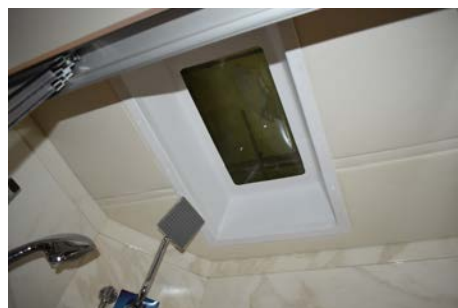
When replacing a windshield, Newmar highly recommends purchasing the new windshield through the Newmar Parts department to ensure proper windshield fit. Customers and dealers have experienced many size and installation issues when attempting to use aftermarket windshields. If your windshield needs replaced, make sure that your dealer or glass replacement company purchases the replacement windshield directly from Newmar.

## Skylights Overview

This article provides basic information about the skylight installed in the coach.

For improved lighting and headroom, a skylight may also be installed in the bathroom over the shower. The opening provides additional light during daylight hours, and the skylight is tinted to provide privacy and reduce glare.

The skylight should be inspected with the roof and components, and the sealant should be maintained. Some sealants are not compatible with the skylight material. Newmar recommends using Surebond SB-140 butyl sealant around the skylight. Periodic cleaning using a mild detergent or cleaner specifically designed for plastics (such as Novus No. 1) is necessary; cleaning frequency may depend on the surrounding conditions while driving, parking, or storing the coach.



### **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.**

## 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) [parts catalog](#) or contact the parts department at **1-800-731-8300 (select the appropriate menu option)**. This will help ensure the proper wiper fit.



# 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, 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.

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Urea-formaldehyde is used in the production of particle board, hardwood plywood, and most paneling. Urea-formaldehyde resin may release formaldehyde vapors into the air, which may cause headaches, and in some people, eye, 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.

## 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.

NI-151

## 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.

NI-151

## 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.

NI-13

### IMPORTANT NOTICE

Certain of our forest product suppliers have advised that urea-formaldehyde is used in the production of particle board, hardwood plywood or paneling which they supply us and which we utilize in our finish product. These suppliers have requested that we communicate this to our customers.

For your information, we are reproducing samples of statements which have been provided to us by our suppliers.

**WARNING:** THIS PRODUCT CONTAINS A UREA-FORMALDEHYDE RESIN AND MAY RELEASE FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS. FORMALDEHYDE CAN BE IRRITATING TO THE EYES AND UPPER RESPIRATORY SYSTEM OF ESPECIALLY SUSCEPTIBLE PERSONS SUCH AS THOSE WITH ALLERGIES OR RESPIRATORY AILMENTS. PROPER VENTILATION SHOULD REDUCE THE RISK OF SUCH PROBLEMS. IF SYMPTOMS DEVELOP, CONSULT YOUR PHYSICIAN.

Adorn, Inc.

**WARNING: IRRITANT:** THIS PRODUCT CONTAINS A UREA-FORMALDEHYDE RESIN AND MAY RELEASE FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS. FORMALDEHYDE CAN BE IRRITATING TO THE EYES AND UPPER RESPIRATORY SYSTEM OF ESPECIALLY SUSCEPTIBLE PERSONS SUCH AS THOSE WITH ALLERGIES OR RESPIRATORY AILMENTS. PROPER VENTILATION SHOULD REDUCE THE RISK OF SUCH PROBLEMS. IF SYMPTOMS DEVELOP, CONSULT YOUR PHYSICIAN.

Woodbridge, Inc.

**WARNING:** THIS PRODUCT CONTAINS A UREA-FORMALDEHYDE RESIN AND MAY RELEASE FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS. FORMALDEHYDE 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 Plywood Corp

Ventilation is important in maintaining a comfortable environment and we direct your attention to the discussion of ventilation contained in your Owner's Manual.

## 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).

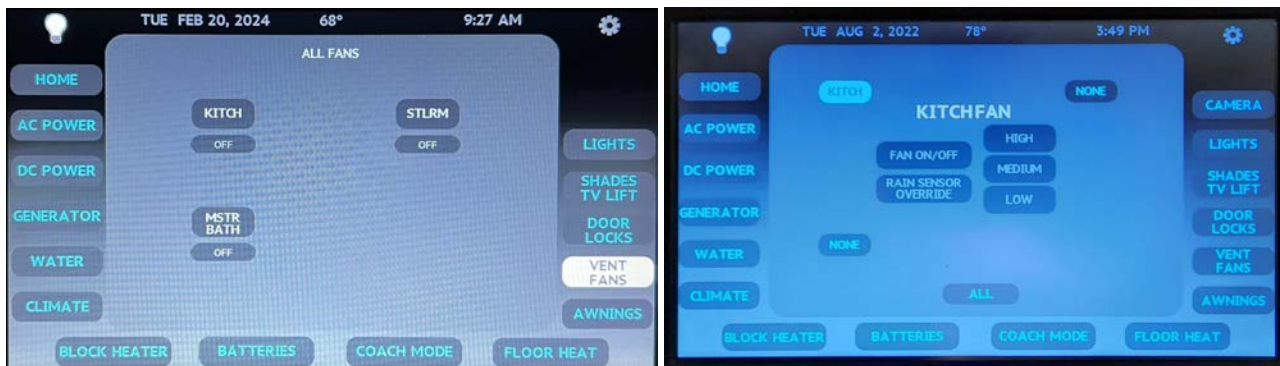
### ! IMPORTANT

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.

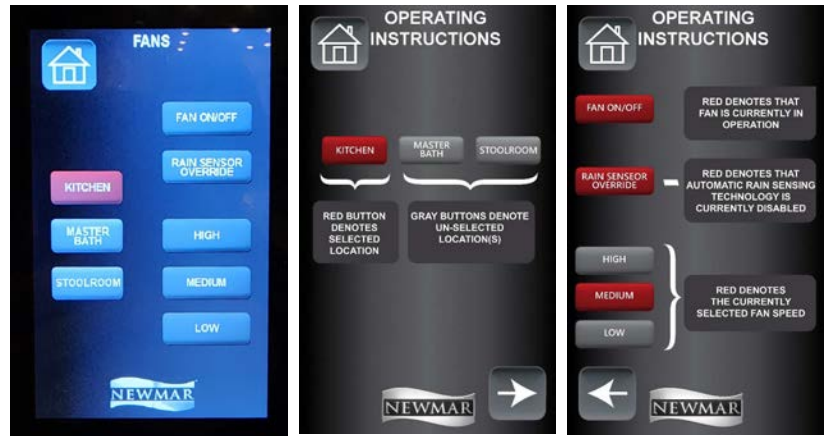
## ⚠ IMPORTANT

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.



## ⚠ NOTICE

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 Convector:** 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 Convector:** 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 Convector:** 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.



OASIS BASEMENT HEAT EXCHANGER



OASIS DUAL FAN (BASEMENT HEAT EXCHANGER)



OASIS BI-METALLIC THERMOSTAT

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

## ⚠ IMPORTANT

In the event of a fault in the Oasis system, the system will need to be reset.

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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.**

### **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.

### **NOTICE**

**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.**

### **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).

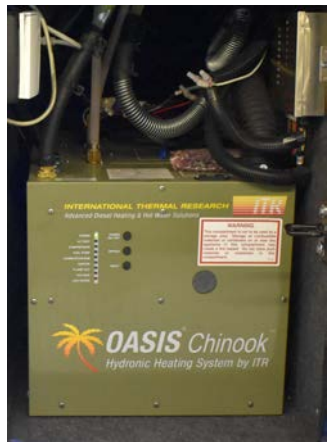
**AC Heat LED (Green):** The AC Heat LED (Green) turns ON when 120VAC is connected to the unit and the system has not yet reached the set point operating temperature.

**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.

**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.

#### NOTICE

**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

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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.

#### ⚠ 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 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)

#### ⚠ 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.

### ⚠ 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 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.



# 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

## ⚠ IMPORTANT

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

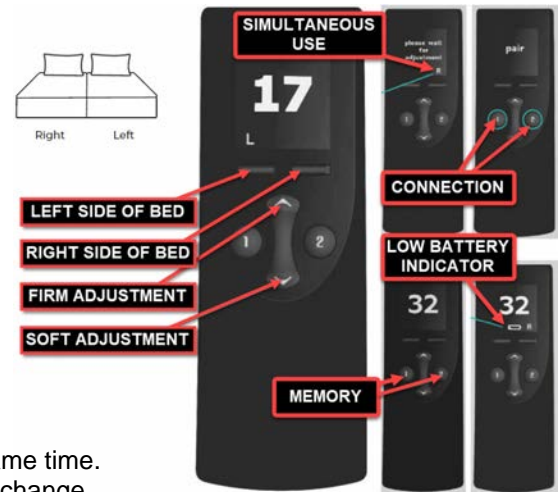
- Set favorite setting or recall (1 or 2)
- Press and hold 5 seconds to record current (1 or 2)
- Press once to recall stored setting (1 or 2)
- Two memory settings for each side

#### 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 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): [Personal Comfort Bed \(Model: A5, Newmar Part Number: 165925, 165926, 165927, 165928\)](#)*

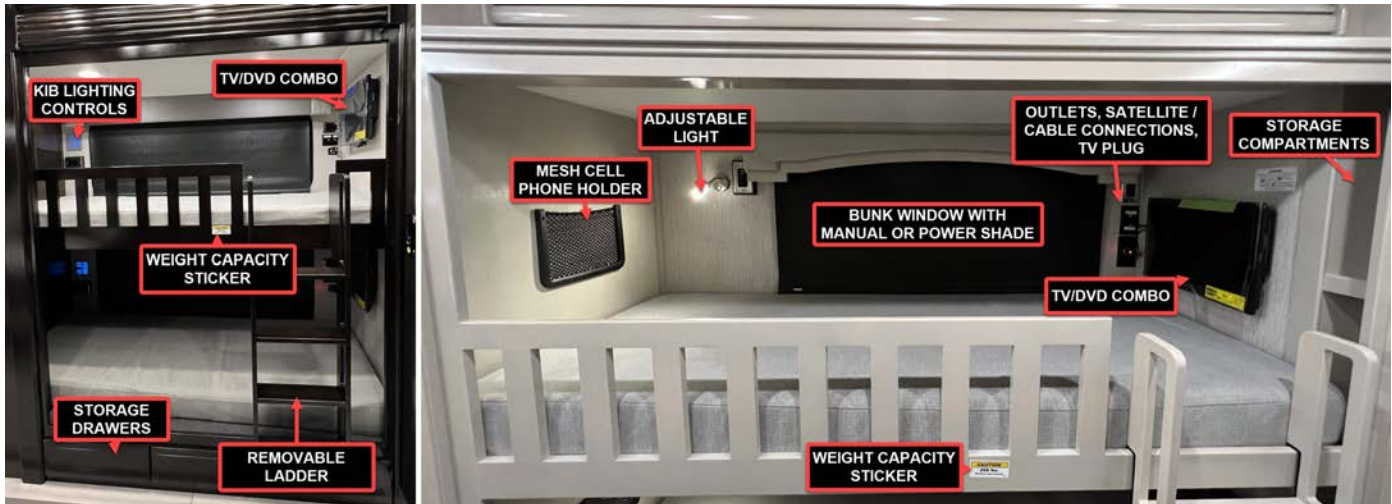


## Fixed Bunk Beds Overview

This article provides a basic overview of a fixed bunk bed that is installed on select coaches.

### Features

Depending on the coach year, model, and floorplan, bunk features may vary. Most bunk beds have removable ladders, storage drawers or compartments, windows with manual or power shades, and necessary electrical components. Some bunk areas also feature adjustable lights, cell phone holders, televisions (with built-in DVD player), and outlets for additional entertainment equipment (satellite systems, cable/antenna, USB inputs, etc.).



### Weight Capacity and Removable Ladder

Coaches equipped with a bunk bed may have labels adhered to a surrounding area to provide special instructions or weight capacities. Acknowledge and follow all warning labels to prevent any damage to equipment or personal injury. The following labels are examples only. Actual instructions and weight restrictions may vary. In most cases, the upper bunk has a maximum load (weight) capacity of 250 pounds.

To use the top bunk, hang the bunk ladder, making sure all four hooks are securely mounted over the bed frame. When not in use, store the ladder on top of the bunk mattress, in a wardrobe, or inside of the bedroom's bed base.



## 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.

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 feature 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.

## Care and Maintenance

The cabinetry should be wiped down with furniture polish to sustain the natural beauty and luster of the wood.

### ⚠ NOTICE

**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.**

### ⚠ IMPORTANT

**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.

### ⚠ IMPORTANT

**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.**

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### 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.

NI-151

### 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.

NI-151

### 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.

NI-13

### IMPORTANT NOTICE

Certain of our forest product suppliers have advised that urea-formaldehyde is used in the production of particle board, hardboard plywood or paneling which they supply us and which we utilize in our finish product. These suppliers have requested that we communicate this to our customers.

For your information, we are reproducing samples of statements which have been provided to us by our suppliers.

**WARNING:** THIS PRODUCT CONTAINS A UREA-FORMALDEHYDE RESIN AND MAY RELEASE FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS. FORMALDEHYDE CAN BE IRRITATING TO THE EYES AND UPPER RESPIRATORY SYSTEM OF ESPECIALLY SUSCEPTIBLE PERSONS SUCH AS THOSE WITH ALLERGIES OR RESPIRATORY ALLEGMENTS. PROPER VENTILATION SHOULD REDUCE THE RISK OF SUCH PROBLEMS. IF SYMPTOMS DEVELOP, CONSULT YOUR PHYSICIAN.

**WARNING:** IRRITANT. THIS PRODUCT CONTAINS A UREA-FORMALDEHYDE RESIN AND MAY RELEASE FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS. FORMALDEHYDE CAN BE IRRITATING TO THE EYES AND UPPER RESPIRATORY SYSTEM OF ESPECIALLY SUSCEPTIBLE PERSONS SUCH AS THOSE WITH ALLERGIES OR RESPIRATORY ALLEGMENTS. PROPER VENTILATION SHOULD REDUCE THE RISK OF SUCH PROBLEMS. IF SYMPTOMS DEVELOP, CONSULT YOUR PHYSICIAN.

**WARNING:** THIS PRODUCT CONTAINS A UREA-FORMALDEHYDE RESIN AND MAY RELEASE FORMALDEHYDE VAPORS IN LOW CONCENTRATIONS. FORMALDEHYDE 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 Wood Plywood Corp  
Ventilation is important in maintaining a comfortable environment and we direct your attention to the discussion of ventilation contained in your Owner's Manual.



## 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.

#### 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.

#### IMPORTANT

**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.

#### IMPORTANT

**Always use a heat pad or trivet to protect the surface from heat that may mar or damage the surface.**

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## 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.

### IMPORTANT

**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.

### IMPORTANT

**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.

### IMPORTANT

**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.

## 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.

**⚠ IMPORTANT**

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.

**⚠ IMPORTANT**

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.

### ⚠️ 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.

## 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.

### ⚠️ CAUTION

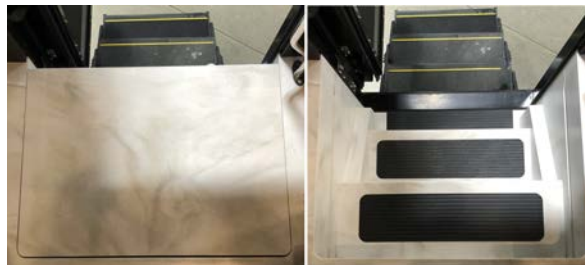
For safety purposes, keep your steps clear of debris and other personal objects.



#### 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.

### ⚠️ 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).

#### 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.

### **IMPORTANT**

If you write down your combination, you must keep this information in a secure place, away from children, not inside the safe.

### **IMPORTANT**

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

### ⚠ NOTICE

You can store your Key #, Serial # and Combination on Stack-on's SECURE website - [stackon.com](https://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://stackon.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.

#### ⚠ 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 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 is 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.

### 2025 SilverLeaf Touchscreen Guide: Shades and TV Lift

The Shades and TV Lift screen displays the controls for the shades and the televisor (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).

## 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 televisor. Press the Back button to return to the previous screen.



## 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.



## Super C Power Sky Window Shade Overview

This article provides basic operation instructions for a Power Sky Window Shade. This pleated shade is located above the front cab of the Super C coaches and can be used to block out unwanted sunlight or offer additional privacy.

To operate the power sky window shade, press and hold the Shade switch on the dash. The pleated shade can be operated at any time, including during travel, and the switch can be released at any time to stop the shade in any desired position.



## Super C Windshield and Window Privacy Cover Overview

This article provides an overview of the windshield and window privacy covers available in Super C coaches (beginning at the end of the 2024 model year).



These removable covers can be placed individually across the windshield and over the driver and passenger windows. When installed, the covers can be used to block out unwanted sunlight and/or offer additional privacy.

To install the covers, simply match the shape and size to the appropriate window or windshield, then put them into place, allowing the support rods to hold them securely.

### WARNING

**Do not attempt to drive or operate the coach while the windshield privacy drape is fully or partially installed.**

To remove the covers, simply pull them away from the window or windshield. If desired, fold and store the privacy covers in the provided bag.



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# 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.

## ⚠ 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.

## ⚠ 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 Supreme Aire Water Compartment Overview

This article provides a general breakdown of the components installed in a 2025 Supreme Aire Super C 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.

## ⚠ IMPORTANT

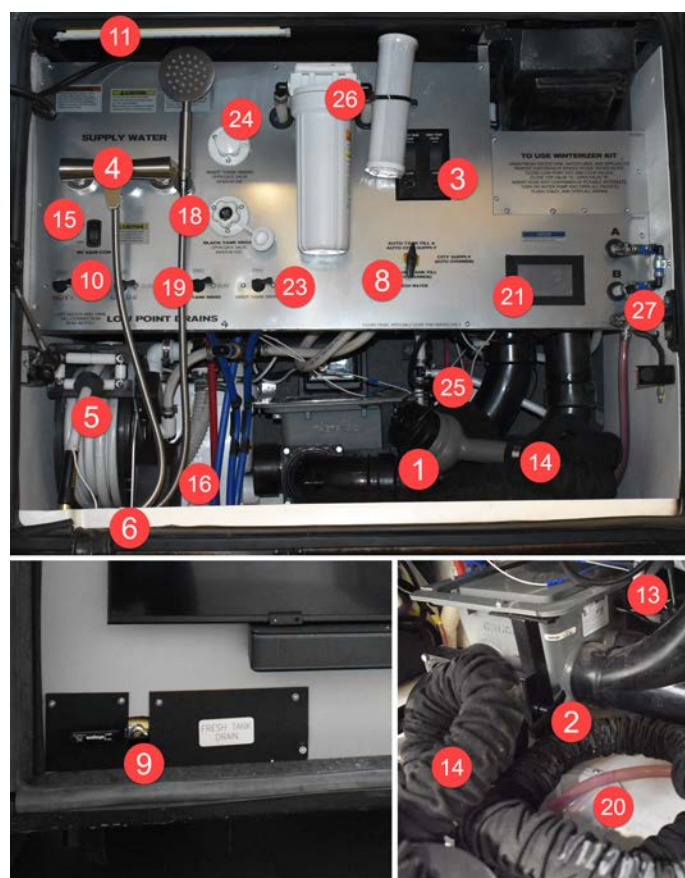
Some plumbing components may be located in other compartment(s) and may not be mentioned in this article or labeled in the graphic. The following information is generic for the 2025 Supreme Aire. Components installed may vary by floorplan or optional equipment.

#### Example of a Water Compartment and Component Definitions

**(1) Drain Outlet and Cove** 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.

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**(3) Electric Dump Switches for Waste and Sewage Tank Valves:** Used on coaches with electrically-operated dump valves, the switches open and/or close the holding tank dump valve(s). In an emergency (if there is an issue with the electrically-operated dump valves), the dump valves can also be operated by disengaging and manually operating the t-handles on the gate valves. The location of the t-handles may be dependent on the floor plan but is typically located between the tank and drain connection (may even be above the frame rails).

**(4) 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.

**(5) 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.

**(6) Fresh Water Hose Channel:** This channel prevents the compartment door from crushing the potable water hose when the door is closed.

**(7) 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.

**(8) 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.

**(9) 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.

**(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 (Not Shown):** 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) Saniflo Lift Station Pump:** Certain floorplans may use a lift pump in locations where plumbing drains are too low or too far away for gravity drains to effectively reach the waste water holding tanks. The design is a small collection tank with an inlet from the sink or shower with a submersible pump to push the water out of the discharge to the holding tank. The pump starts automatically (if 120 volt power is being supplied) as soon as the bath, shower, or sink begins to drain. It shuts down when the water has been drained.

Note: Only select floorplans are equipped with lift station pumps, which may or may not be located in the water compartment.

**(17) 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.

**(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 Rinse Low Point Drain:** On coaches equipped with gray (waste) 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.

Note: Not all coaches are equipped with gray tank rinse.

**(24) 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.

**(25) 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.

**(26) 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.

**(27) 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.

### **⚠ 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).

### Oasis Hydronic Heating Basement Heat Convactor(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 DUAL FAN (BASEMENT HEAT EXCHANGER)



OASIS BASEMENT HEAT EXCHANGER



### 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.

### **⚠ IMPORTANT**

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.



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).

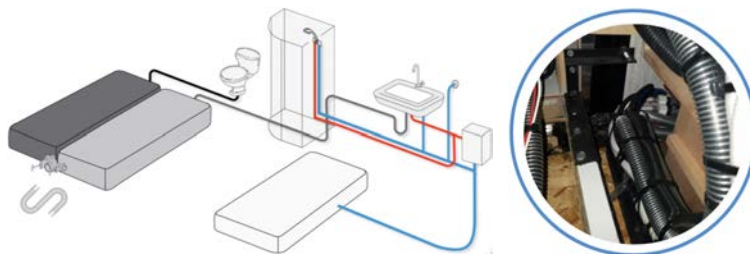
To disconnect from the city water supply, close the valve from the water supply. Release the pressure by rotating the fresh water valve to the tank fill position. Remove the hose from the city water supply, and store it in the water compartment. Once the pressure is relieved, rotate the fresh water valve 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.



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.

### ⚠ IMPORTANT

**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.**

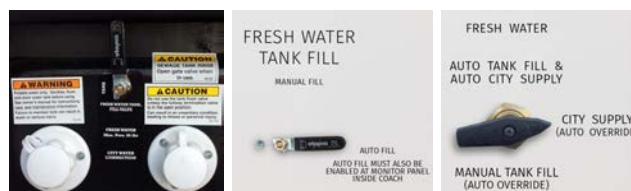
To drain the fresh water tank, open the low point drain valve located near the fresh water tank. The following images are example fresh water tank drain configurations.



## 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.



### IMPORTANT

**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.

### IMPORTANT

**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 Supreme 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 Supreme Aire Super C 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 can 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.

### CAUTION

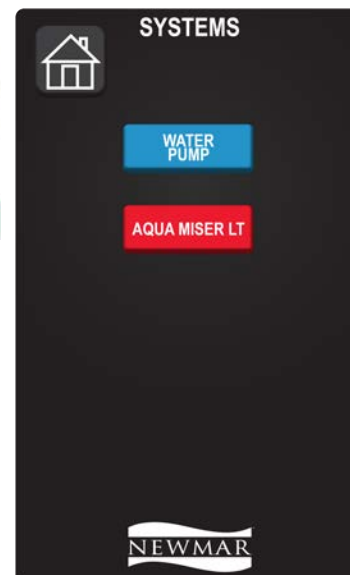
**If the coach is connected to a pressurized water source while the diverter valve is in the recycle position, this may cause the fresh water tank to overflow.**



## Aqua View Operation

To shower while dry camping, follow these steps:

1. 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.
2. 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 (large lever on faucet) until the desired temperature has been reached.
5. Use the output selector (small lever at the bottom of the faucet) to select the preferred water output, such as the shower head or the hose wand.



## Aqua View and Auto Fill

### ⚠ IMPORTANT

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.

### ⚠ NOTICE

Ensure shower miser valve is not set to recirculate to potable water tank before winterizing.

### ⚠ IMPORTANT

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
<b>BTU</b>	50,000	85,000	50,000
<b>Maximum Water Temperature (at incoming water temperature of 60°F)</b>	120°F	120°F	120°F
<b>Gallons Per Minute (GPM)</b>	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.

### 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)
  - 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.

### ⚠ NOTICE

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).



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.

### ⚠ 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).**

### 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.

### 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.**

## Supreme Aire Hot Water Outlet Overview

This article provides an operational overview of the hot water outlet in the compartment above the fuel tank in Supreme Aire Super C coaches (Option # P230).

To use the hot water spigot above the fuel tank:

1. Make sure the fresh water tank has water in it.
2. Make sure the water pump is turned on or the coach is connected to a pressurized potable water source.
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.
5. Do not forget to winterize this line while following the directions in Newgle for winterizing the coach.



# 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.

### Overview<sup>1</sup>

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.

### ⚠ 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.

## <sup>1</sup>Winterizing 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): <sup>1</sup>Water 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.

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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.

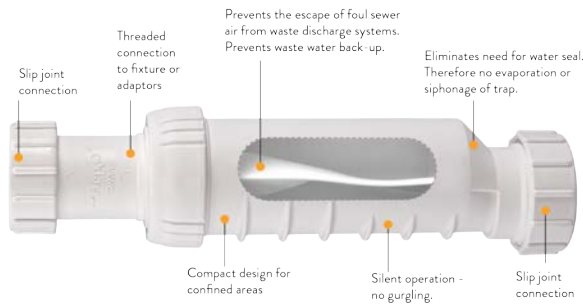
#### NOTICE

Remove the waterless trap before using mechanical drain-cleaning devices. Waterless trap can be damaged.

AD-123

#### ⚠ 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.**



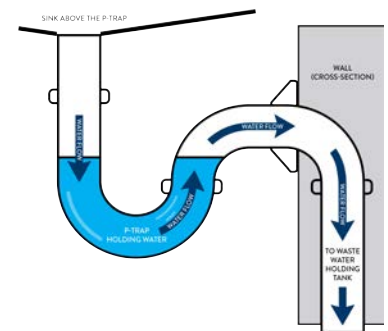
#### ⚠ IMPORTANT

**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.**

### 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*

## SFA Saniflo Lift Station Pump Quick Start (Model: Sanivite)

This article provides basic operation instructions for a SFA Saniflo Lift Station Pump (Model: Sanivite).

### Overview

Certain floorplans may use a lift pump in locations where plumbing drains are too low or too far away for gravity drains to effectively reach the waste water holding tanks. The design is a small collection tank with an inlet from the sink or shower with a submersible pump to push the water out of the discharge to the holding tank.

Note: Lift pumps operate on 120 volt power. The coach must be plugged into shore power or using the generator, or, when dry camping, the batteries must be charged and the inverter must be operational. Some coaches may have a separate small inverter just to operate the lift pump; however, most will share the inverter with other inverted circuits.



### NOTE FROM NEWMAR

**On floorplans with lift pumps, follow proper winterization instructions to prevent the system from freezing.**

### Operation

After storage and/or winterization, run the water from the bathroom or from the kitchen appliance connected to the pump. Check to make sure connections are water tight and that the pump starts and stops correctly.

The pump starts automatically as soon as the bath, the shower, or the sink begins to drain. It shuts down when the water has been drained.

Note: The pump may cycle on and off several times as it discharges the drain water.

*Source(s): SFA SaniVite Installation Instructions and Technical Data*

*Product(s): SFA Saniflo Lift Station Pump ([Model: 8-59925-00208-4, Newmar Part Number: 125332](#))*

## 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.

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## 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.

### ⚠ 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.

### ⚠ IMPORTANT

Before adding water, consult the toilet manufacturer's owner's manual for the specific procedure relating to your system.

### ⚠ NOTICE

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 every 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, a 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 overflow 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).

**WASTEWATER  
HOLDING TANK**  
AD-38

#### 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.

**SEWAGE  
HOLDING TANK**  
AD-39

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.

**⚠ IMPORTANT**

Be careful not to spill the chemical on your hands, clothing, or the carpet as it may cause a permanent stain.

## 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 self-containment 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.

**⚠ 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:

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**⚠ 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.**

- 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.

**⚠ IMPORTANT**

**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.

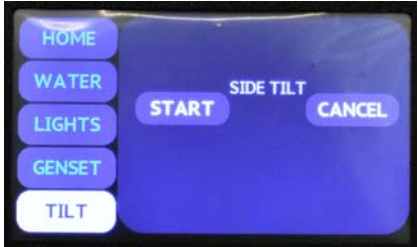
## ⚠ IMPORTANT

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).

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
- Transmission in neutral
- Vehicle ignition on
- 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 ["Holding Tank Rinse \(No Fuss Flush\) Overview"](#) and ["Waste Water Disposal"](#) articles in Newgle.

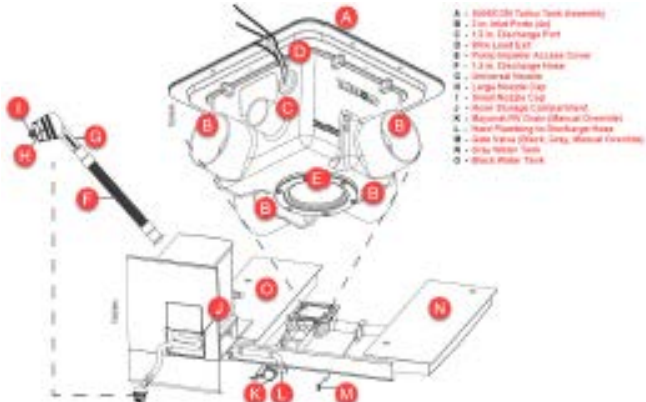
## ⚠ CAUTION

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 cap (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.

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## 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.

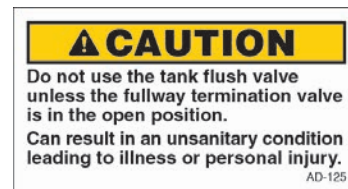
Allow the water to rinse the tank for a minimum of three to five minutes to ensure it is clean. This should flush the inside of the tank of any debris that may be left inside. Next, disconnect the freshwater hose and close the gate valve.

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.

### 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.**

### IMPORTANT

**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.



# SLIDEOUTS

This chapter provides information about electric flat floor, bedroom, kitchen, wardrobe, and full wall slideouts, as well as hydraulic slideouts.

## ⚠ IMPORTANT

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.

## ⚠ 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 ride-height), and not on the jacks.

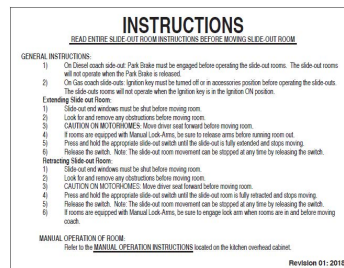
## ⚠ IMPORTANT

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.

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.
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.

- 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.

- Retract the slideouts. Inspect all slideouts for complete retraction.
- If the coach is equipped with manual lock arms, make sure to lock them.
- 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.

**⚠ 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.

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## 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.**

### ⚠ WARNING

**Be sure that driver's seat is in the forward position before activating the slide out room.**

NI-043

## 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.

**INSTRUCTIONS**

READ ENTIRE SLIDE-OUT ROOM INSTRUCTIONS BEFORE MOVING SLIDE-OUT ROOM

**GENERAL INSTRUCTIONS:**

- 1) On Diesel coach slide-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 coach slide-outs: Ignition key must be turned off or in accessories position before operating the slide-outs. The slide-out 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.
- 2) Look for and remove any obstructions before moving room.
- 3) **CAUTION ON MOTORHOMES:** Move 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.
- 6) Release the switch. Note: The slide-out room movement can be stopped at any time by releasing the switch.

**Retracting Slide-out Room:**

- 1) Slide-out 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 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 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

**INSTRUCTIONS**

MANUAL SLIDE-OUT ROOM EXTENSION AND RETRACTING INSTRUCTIONS

READ ENTIRE SLIDE-OUT ROOM INSTRUCTIONS BEFORE MOVING SLIDE-OUT ROOM

**MOTORS WITHOUT MANUAL DRIVE INT:**

- 1) Manual lock arms must be released from locked position prior to extending the room.
- 2) Access must be gained to the motor attachment bolts. Remove the bolts and slide the motor off the square part of the shaft.
- 3) Once the motor is off, the slide out can be pushed manually in or out.

**MOTORS WITH MANUAL DRIVE INT:**

If the unit is equipped with the shaft through the gearbox motor which is mounted near the center of the slide-out room, use the following directions:

- 1) Manual lock arms and power locks must be released from locked position prior to extending the room.
- 2) Access must be gained to the slide out motor located in the center of the slide out room.
- 3) Releasing the motor's "Electro-Mechanical Brake": At the end of the motor remove the black plastic cover. Remove the tie-wrap and put the cover off the motor. You must apply a 12 volt power source to release the brake. A source such as a charged 9V battery will work. To apply the power source, separate the electrical connectors between the motor and brake and attach the connectors which lead to the brake to your power source. This will release the brake and allow manual cranking.
- 4) The manual extension or retraction requires only a 5/8" socket and ratchet wrench. By placing the socket on the 5/8" hex nut located on the gear box of the 900 motor, the slide-out can be moved in either direction by turning the hex nut.
- 5) If the slide-out does not move by using the hex nut, the room can be extended or retracted by using the procedure described for motors without the manual drive nut.

**MANUAL OPERATION OF INRV ROOM:**  
Refer to the MANUAL OPERATION INSTRUCTIONS located in owners manual.

Revision 01: 2018

## 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.

## 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.

### IMPORTANT

**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 ([Clean Seal](#)) 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

#### IMPORTANT

**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.

### ⚠ IMPORTANT

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.

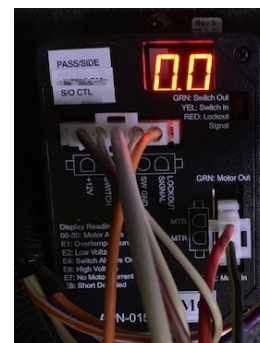
### Option 1

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.
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.



### ⚠ 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.

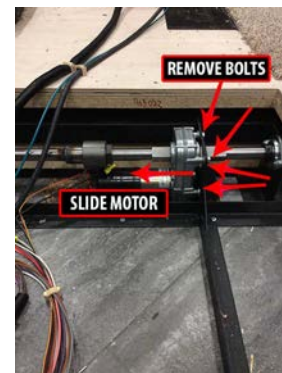
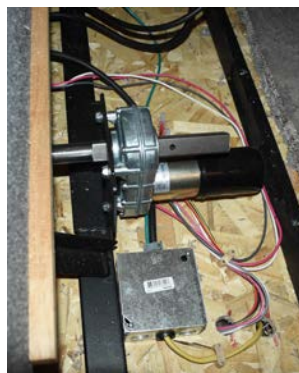
### Option 2

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.
2. 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.

**⚠ 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. 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.

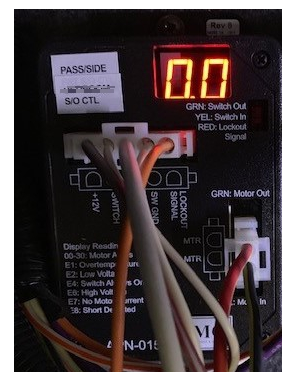
**Option 1**

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

### ⚠ IMPORTANT

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.
2. 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.



### ⚠ NOTICE

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.

## Manually Retracting a Dual Motor Electric Full Wall or Kitchen Slideout with Square Shaft

This article provides manual retraction procedure options for a dual motor electric full wall or kitchen slideout with a square shaft.

Due to the dual motor setup, manual retraction using a separate battery or 12V source is not recommended since motors run at different speeds. This may increase the risk of binding the room and/or causing extensive damage to the drive assembly.

### Option 1

#### IMPORTANT

**This procedure can be performed on coaches with a brake on the slideout motor.**

If the slideout is stuck in the extended position, try the following steps to manually retract the slideout by removing the brakes from each motor and turning the shaft. Only a few tools are necessary to complete this procedure; however, it requires the gear box to be operational and the person(s) retracting the room to keep the slideout from binding. This can be done by alternating moving each side in small increments or by turning each side simultaneously with a person at or near each motor or shaft assembly.

1. First, locate the strap that secures the rubber boot on the outside of the motors.
2. Remove the strap, and pull off the rubber boot, removing it from the motors.
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, bearing, and/or 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 2

Remove the four mounting bolts, and move each slideout motor until it disengages from the square shaft.

Manually push the room in or out, or use a wrench to rotate the shafts. Make sure you do not damage the shafts with the wrench and keep the room in sync to prevent binding.

### Coaches with Mechanical or Scissor Lock Arms

1. Slide the motors back over onto the square shaft, and reinstall the four mounting bolts at each motor.
2. 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.

#### NOTICE

**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.

### ⚠ WARNING

Read the HWH Operation manual for your slideout and follow all safety warnings and notices.

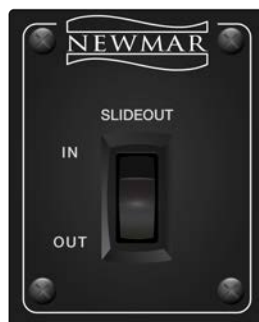
### ⚠ CAUTION

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.

### ⚠ IMPORTANT

Read entire slideout room instructions posted in your coach (example below) before extending or retracting the 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.

### ⚠ 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.

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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.

### ⚠ NOTICE

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.



**⚠ 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.

**⚠ 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.

**⚠ 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 ROOM

**GENERAL INSTRUCTIONS:**

- 1) On Diesel coach slide-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 coach slide-outs: Ignition key must be turned off or in accessories position before operating the slide-outs. 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.
- 2) Look for and remove any obstructions before moving room.
- 3) CAUTION ON MOTORHOMES: Move 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.
- 6) Release the switch. Note: The slide-out room movement can be stopped at any time by releasing the switch.

**Retracting Slide-out Room:**

- 1) Slide-out 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 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 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

**⚠ WARNING**

Be sure that driver's seat is in the forward position before activating the slide out room.

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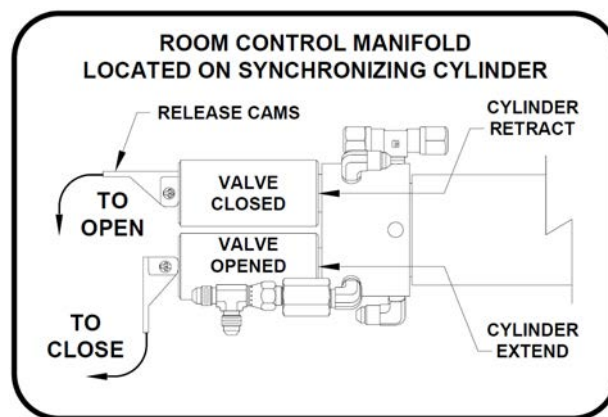
## ⚠ NOTICE

**Manual room lift procedures must be done before manual room retraction procedures.**

1. 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.
3. 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.

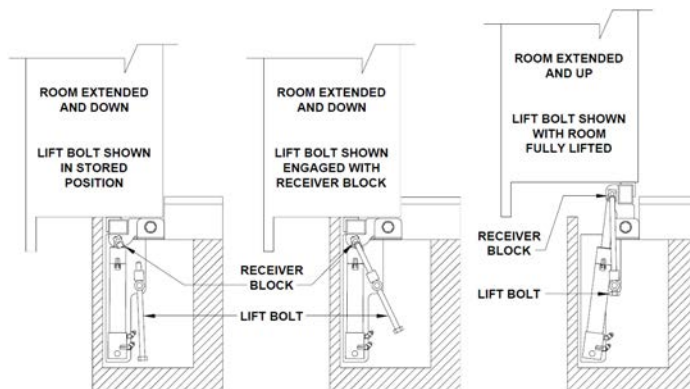


The lift bolt assembly may be mounted vertically or horizontally but will function the same way. Horizontally-mounted lift bolts may not have a cover, depending on the location within the coach.

## ⚠ NOTICE

**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 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.



**⚠ IMPORTANT**

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.

**⚠ 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.

**⚠ 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.

**⚠ 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.

**⚠ NOTICE**

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].

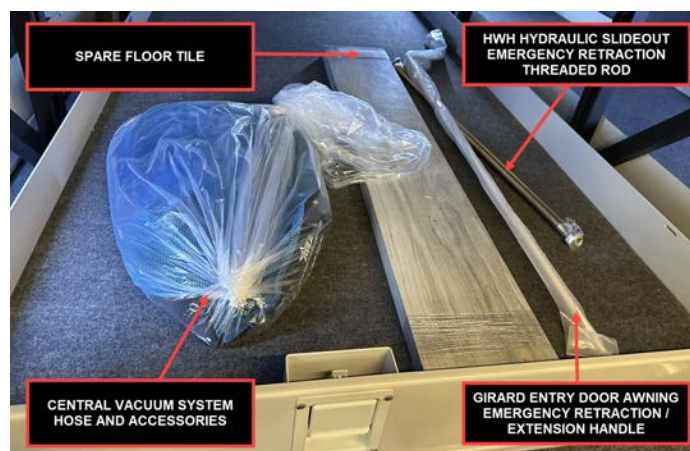
**⚠ IMPORTANT**

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).

**⚠ NOTICE**

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.

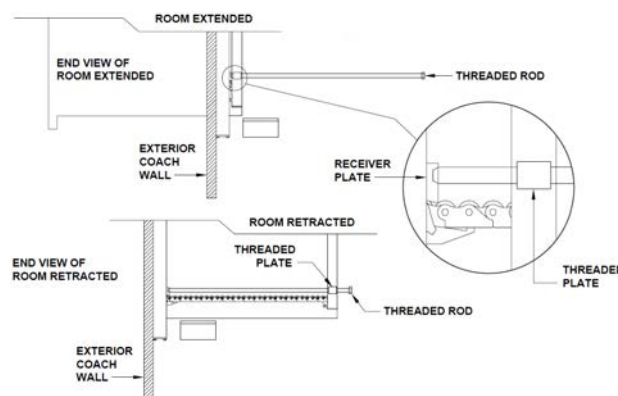




### ⚠ IMPORTANT

**Do not use an impact wrench.**

- 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.
- Move to the other room extension mechanism, and rotate the threaded rod clockwise 12 complete turns.
- Return to the first room extension mechanism, and rotate the threaded rod clockwise 12 complete turns.
- 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.



### ⚠ 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.**

### ⚠ NOTICE

**Leave the solenoid valves open, the lift bolts and threaded rods in place until the room has been serviced.**

## Extending Room After Service

- Room lift bolts should not be retracted yet. Push and hold the room switch to "retract" for five to ten seconds.

### ⚠ IMPORTANT

**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.**

- 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.
- Retract all lift bolts completely. If room starts to drop, alternate between lift bolts evenly while turning lift bolts.
- 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.
- 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.

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## HWH Hydraulic System Troubleshooting Tips

This article provides troubleshooting tips for the following components:

- HWH hydraulic slideouts
- HWH hydraulic generator slideouts
- HWH hydraulic entrance steps
- HWH hydraulic leveling jacks

If any, or all, of these HWH hydraulic components are not functioning, follow the troubleshooting steps before contacting Newmar or HWH.

If the pump runs for an accumulative time of approximately three minutes while operating the HWH jacks, slideout(s), generator slideout, or the step, the system will turn off and the pump will stop running. This only applies to coaches equipped with an HWH step. If for some reason the pump doesn't run for any HWH equipment, it might be necessary to reset the HWH system. If this time lockout occurs, power for the HWH control system must be removed before any system components will function.

### Coaches Equipped with HWH Reset Switch

Current coaches equipped with an HWH step system also have an HWH reset switch installed in the main control panel, allowing the user to reset the HWH control board. Press and hold the momentary contact switch for approximately five seconds to reset the system.

*Source(s): HWH Computer-Controlled 725 Series Operator's Manual (ML56701)*

*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.*





# 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).

MANUFACTURED BY / FABRIQUE PAR:		DATE:	
GVWR/PNEU	KG (LB)	TIRES/PNEU	RIMS/LIANTE
CAMPT/PAGE	KG (LB)		
FRONT/AVANT	KG (LB)		COLD INFL. PRESS./PRESS. DE GONFL. À FROID
			SPN - SINGLE DUAL
			PSI/KG/LB
INTERM/INTERM	KG (LB)		SPN - SINGLE DUAL
			PSI/KG/LB
REAR/ARRIÈRE	KG (LB)		SPN - SINGLE DUAL
			PSI/KG/LB

THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.  
 THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE. - CE VÉHICULE EST CONFORME À TOUTES LES NORMES QUI LOI SONT APPLICABLES EN VERTU DU RÈGLEMENT SUR LA SÉCURITÉ DES VÉHICULES AUTOMOBILES DU CANADA EN VIGUEUR À LA DATE DE SA FABRICATION.

VIA/IN/EX: TYPE/TYPE:

**MOTOR HOME OCCUPANT AND CARGO CARRYING CAPACITY**  
 VIN: #####  
**THE COMBINED 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

Figure 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.**

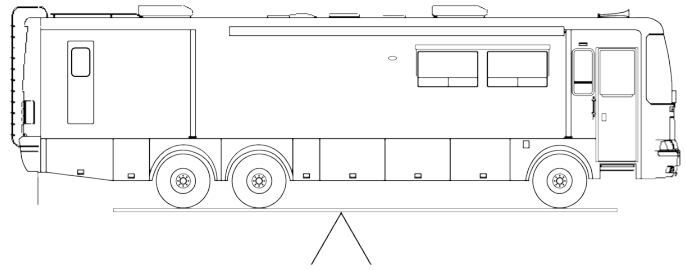
The unit has been built to comply with the component suppliers' recommended limits to provide you with a realistic CCC. When loading the unit, distribute the items so that not all of the weight is added to one area of the unit.

## 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.

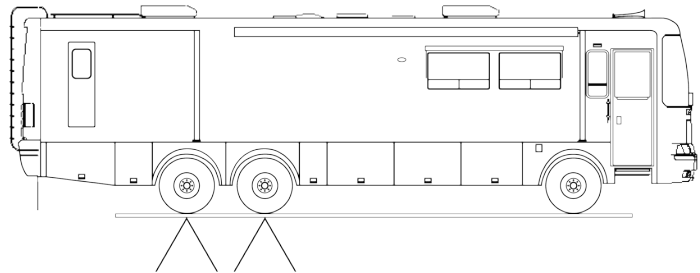
To find the total weight of the unit, pull the unit onto the scales so that all of the wheels are on the scale as shown. Record the weight. This is the GVW and should not exceed the GVWR supplied by Newmar for the unit.



## 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.

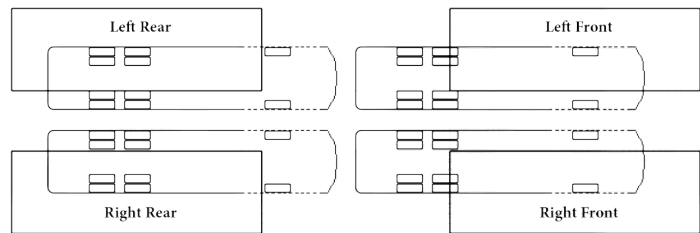


## Alternate Weighing Procedure

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.



### IMPORTANT

**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.

### IMPORTANT

**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): [BASF Finishes](#)

## 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.

### IMPORTANT

**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): [BASF Finishes](#)



## How to Clean Exterior Chrome

This article provides the Newmar-recommended procedure for maintaining your exterior chrome accessories.

### 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:

1. 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.



## 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.

#### 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."

#### IMPORTANT

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.

#### 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. The following images are for example purposes only. Your coach may or may not be equipped with the same components as shown.

**This fresh water system  
has been protected with  
non-toxic anti-freeze.  
Please flush and drain  
lines before using.**

AD-70



## 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.

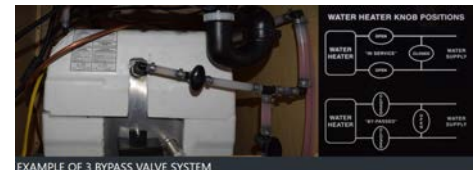
It is critical to winterize the plumbing in your coach when storing it in temperatures below freezing or using it in extremely cold conditions. If subjected to these conditions without being properly winterized, the heating system may be unable to keep the coach and its compartments above freezing temperatures.

### **IMPORTANT**

**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.**

### **NOTICE**

**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.
9. 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.

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**⚠ IMPORTANT**

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.

**⚠ IMPORTANT**

**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).

**⚠ IMPORTANT**

**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.

**⚠ NOTICE**

**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.

**⚠ NOTICE**

**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.

### NOTICE

**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.

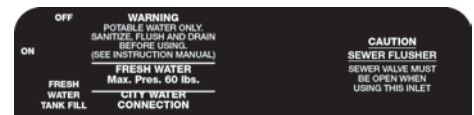
## How to Sanitize the Water System

This article provides the Newmar-recommended step-by-step instructions for sanitizing a complete water system.

### 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.

### NOTICE

**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.

### NOTICE

**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.

### NOTICE

**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.

### NOTICE

**If the bleach smell is still noticeable, repeat steps 21-22 to flush the system again.**

### IMPORTANT

**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.

### 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.

### IMPORTANT

**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.

#### **IMPORTANT**

**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.



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