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Owner's Guide

2003 Essex

D I E S E L P U S H E R



2003



NEWMAR QUALITY: A WAY OF LIFE

**PRODUCT
WARRANTY
SERVICE SUMMARY**

Welcome to the exciting world of recreational vehicle traveling and the growing family of RV owners.

Congratulations on your purchase of a Newmar product. We sincerely thank you for choosing a Newmar RV. We hope you enjoy many miles of traveling. Your new vehicle was built with care using today's technology and old world craftsmanship. We, at Newmar, strive to build vehicles that are safe, dependable, and comfortable to provide years of care-free, pleasant traveling.

With your new RV purchase, Newmar provides a thirty-six (36) month limited warranty on all of its products, excluding the American Star. Please read the Limited Warranty and all other chassis and component warranties that apply to the equipment installed on your unit.

Carefully read both the instructions in the Newmar Owner's Guide and the booklets supplied by the chassis and component manufacturers for important operation, safety, and maintenance requirements/information. Your dealer should be consulted if you have any questions. If your dealer is unable to answer the questions to your satisfaction he will refer you to our staff for assistance. Our customers are extremely important to us and we will make every effort necessary to ensure your satisfaction.

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. The owner should review the Newmar Corporation Limited Warranty and other manufacturer's limited warranties on all components applicable to this vehicle. Be sure to file the appropriate registration card with the component manufacturer as described in the individual instruction booklet to activate the warranties on the components in your Newmar RV. Again, thank you and welcome to our Newmar family.

NEWMAR CORPORATION

NEWMAR CORPORATION WARRANTY SUMMARY

BASIC VEHICLE LIMITED WARRANTY

Newmar Corporation
(excludes tires, batteries & chassis)

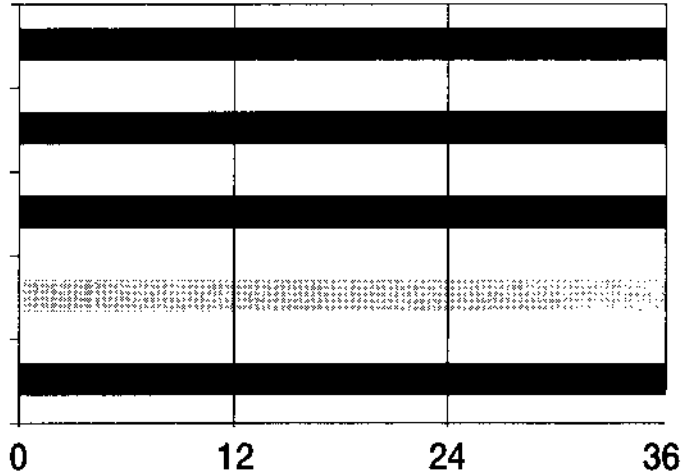
Ford Motor Company

Workhorse Custom Chassis

Freightliner Custom Chassis

Spartan Motors

Warranty Period (in months)



■ 3 Year/36,000 Miles, no deductible, transferable.

□ 3 Year/50,000 Miles, no deductible, transferable.

NOTE: The above is not a statement of Newmar Corporation's Expressed Limited Warranty or any chassis or component manufacturer's expressed warranty, but is provided as general information only. Please refer to the Newmar Expressed Limited Warranty and those provided by the chassis and component manufacturer.

CUSTOMER ASSISTANCE:

NEWMAR CORPORATION	1-800-731-8300
FORD MOTOR COMPANY	1-800-444-3311
FREIGHTLINER CUSTOM CHASSIS	1-800-FTL-HELP
SPARTAN MOTORS	1-800-543-4277
SPARTAN ROADSIDE COMPANION	1-888-890-1741
WORKHORSE CUSTOM CHASSIS	1-877-946-7731

ROUTINE MAINTENANCE

IMPORTANT: Always follow the chassis maintenance guidelines found in the chassis manufacturer owner's manual.

All routine maintenance is the responsibility of the owner and is not covered by the Newmar Limited Warranty. Use the maintenance record found in Chapter 15 of your Newmar Owner's Guide to record all performed maintenance as required. Please note that damage caused by improper or un-applied maintenance is not covered by the Newmar Limited Warranty. Use and conditions may dictate more frequent maintenance than suggested below.

Items supplied by other manufacturers may require specific individual maintenance not listed herein. Please refer to the manufacturers' suggested maintenance guidelines in the Owner's Information Packet.

IMPORTANT: Adjustments and alignments performed within the first three (3) months from date of original purchase are subject to warranty coverage. Thereafter, these items are considered routine maintenance.

MONTHLY

- Check battery water level.

EVERY 3 MONTHS

- Clean range hood exhaust fan filter and blades.
- Check gas lines for leaks with soap solution or leak detector.
- Test smoke alarm, carbon monoxide detector, and LP gas detector.
- Check operation of windows, latches and hinges.
- Clean the roof ducted air conditioner filter(s).
- Clean and inspect all door and window seals; reseal where necessary.
- Inspect and reseal around the tub and shower area, where necessary.
- Lubricate the exterior door hinges and latches with a graphite (silicone) lubricant.
- Check, clean and tighten battery cables and inspect batteries for proper fluid level.

EVERY 6 MONTHS

- Inspect the slide out for proper seal. If realignment is necessary, please contact an Authorized Newmar Service Center.
- Inspect the exterior rubber slide out seals and apply a UV inhibitor, such as 303 Protectant.
- Rotate tires, as recommended by the tire manufacturer.
- Check all gas appliances for proper operation.
- Have the LP system inspected by a qualified technician.
- Lubricate the moveable parts on the entrance step.

ANNUALLY

- Inspection of roof seams and joints should be performed by an Authorized Newmar Service Center. If resealing is necessary, it is the owner's responsibility and is not covered by the Newmar Limited Warranty.
- Sanitize the fresh water system.
- Wax and buff all gel-coat surfaces on the vehicle as described in Chapter 14 of your Newmar Owner's Guide.

THE FOLLOWING IS A LIST OF COMPONENT PART SUPPLIERS AND THEIR PHONE NUMBERS

COMPONENT

MANUFACTURER

ACCESSORIES

Back Up Monitor	Atlanta DTH	770-451-9777
	A. S. A. Inc.	574-266-1886
Back Up Monitor (Panasonic)	Mito	888-433-6486
CB Radio (Cobra)	Tri Star Distributing	800-456-3340
Computer TripTek	River Park, Inc.	800-442-7717
Furniture (Upholstered)	Flexsteel Industries	563-556-7730
	Scope Seating	574-295-6016
	Villa International	714-535-7272
Navigation	Mito	888-433-6486
Roof Vent	FanTastic Vent Corp.	800-521-0298
	Ventline	574-848-4491
Security System	Nagy Fleet Net Inc.	574-262-4479
Stereo AM/FM, Cassette/CD, Wall Mount	Quest Corp.	800-877-0521
Stereo (Audiovox)	A. S. A. Inc.	574-266-1886
Stereo (Pioneer)	C.T.D.	800-777-4856
Stereo (Sony)	River Park, Inc.	800-442-7717
TV Antenna	The Winegard Co.	800-288-8094
Television (Magnavox)	Midwest Sales	574-287-3365
Television (RCA)	Tri Star Distributing	800-456-3340
Television (Sony)	River Park, Inc.	800-442-7717
Television (Zenith)	Quest Corp.	800-877-0521
Television (LCD Monitor)	A. S. A. Inc.	574-266-1886
Satellite Dish	The Winegard Co.	800-288-8094
Satellite Dish (Datron)	A. S. A. Inc.	574-266-1886
Satellite Dish (KVH)	River Park, Inc.	800-442-7717
VCR (RCA)	Collins & Company	574-848-1118
VCR (Sony)	River Park, Inc.	800-442-7717

AIR CONDITIONING

Dash Air	Evans Tempcon	800-354-7088
Roof Air	Dometic	800-544-4881
Basement Air	Suburban Mfg.	800-659-2138

APPLIANCES

Freezers	Norcold	800-543-1219
Ice Makers	U-Line	800-779-2547
Microwave (Dometic)	Dometic	800-544-4881
Microwave (Magic Chef)	Tri Star Distributing	800-456-3340
Microwave (GE)	Collins & Company	574-848-1118
Range	Atwood-Greenbrier	815-877-5700
Range	Magic Chef	515-792-7000
Refrigerator	Dometic	800-544-4881
Refrigerator	Norcold	800-543-1219

THE FOLLOWING IS A LIST OF COMPONENT PART SUPPLIERS AND THEIR PHONE NUMBERS

COMPONENT

MANUFACTURER

APPLIANCES (CONTINUED)

Water Heater	Atwood Mobile Prod.	815-877-5700
Water Heater	Suburban Mfg.	800-659-2138
Water Heater	Vehicle Systems	800-685-4298
Washer/Dryer, 1-piece	Splendide	800-736-4127
Washer/Dryer, 2-piece	Sears	800-359-2000

ELECTRICAL (TIRES AND BATTERIES SEPARATELY WARRANTED)

Batteries - 12 Volt	Interstate	800-872-4100
Batteries - 6 Volt	Interstate	888-772-3600
Converter	IOTA	877-682-4682
Generators	Generac	800-747-1530
Generators	Onan	800-888-6626
Generators	Power Tech	800-760-0027
Inverters	Xantrex	800-446-6180

EXTERIOR

Awning & Hardware	A & E	800-544-4881
	Carefree of Colorado	800-621-2617
	Girard	800-382-8442
Axle & Components	Dexter Axle	574-295-1900
Hitch (CA & DP)	Putnam Hitch	517-369-2165
Hitch (CA & DP)	Hidden Hitch	877-869-6787
Jacks (CA & DP)	H W H Corporation	800-494-3213
Jacks (FW & TT)	Atwood Mobile Prod.	815-877-5700
Rubber Suspension	Mor-Ryde, Inc.	574-293-1581
Steps, Electrical	Kwikkee Products	800-736-9961
Steps, Manual	Hickory Springs Mfg.	501-646-6161
Steps, Manual	Elkhart Tool and Die	574-295-8500
Tires	Goodyear	800-227-1999
	RFD Components	574-295-3939

HEATING

Furnaces	Atwood Mobile Prod.	815-877-5700
Furnaces	Suburban Mfg.	800-659-2138
Furnace, Aqua-Hot	Vehicle Systems	800-685-4298

Please note that your Newmar Limited Warranty is activated only after Newmar has received a signed Warranty Registration Form from your selling dealer. If it has been more than 60 days since the purchase of your new coach and you have not received your Newmar Owner's Warranty Card, please contact your selling dealer or the Newmar Warranty Department at 1-800-731-8300.

Come & Visit the

NEWMAR KOUNTRY KLUB

*The Exclusive Klub for
Newmar Owners*

Come and Relax in our Lounge,
Have a Cup of Coffee,
and Visit the Klub Merchandise Store.

The Kountry Klub Office is located in
Building #2, next to the Corporate Office.

Klub Hours are:
Monday - Friday
8:30 a.m. - 4:00 p.m.



TO OUR VALUED CUSTOMERS

If, for any reason, you have a problem obtaining satisfactory and timely warranty service that may substantially impair the use, value or safety of your Newmar product, please call us on our toll free line at 800-731-8300 so that we may attempt to resolve your concerns.

All of the information contained in this brochure 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. Please refer to the component information literature provided in the Owner's Information Packet for specific warranty details for the components applicable to your recreational vehicle.

**NEWMAR CORPORATION
355 N DELAWARE ST
PO BOX 30
NAPPANEE IN 46550-0030
www.newmarcorp.com**

REVISED 5/02

NEWMAR CORPORATION

OWNER'S GUIDE

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Welcome to the exciting world of recreational vehicle traveling and the growing Newmar family.

Congratulations on your purchase of a Newmar product. We sincerely thank you for choosing Newmar as your recreational vehicle. We hope that you will enjoy many miles of traveling. Your new vehicle was built with care using today's technology and old world craftsmanship. We, at Newmar, strive to build vehicles that are safe, dependable, and comfortable to provide you with years of carefree, pleasant traveling.

With your new RV purchase, Newmar provides a 36-month limited warranty. Please read the Newmar Limited Warranty and all other component warranties that apply to the equipment installed on your unit.

Carefully read both the instructions in this Owner's Guide and the booklets supplied by the component manufacturers for important operation, safety, and maintenance requirements/information. Your dealer should be consulted should you have any questions. If your dealer is unable to answer the questions to your satisfaction he will refer you to our staff for assistance. Our customers are extremely important to us and we will make every effort necessary to ensure your satisfaction.

The limited warranties issued by component manufacturers require periodic service and maintenance, and the owner's failure to provide this service and/or maintenance will result in the loss of warranty coverage. Be sure to file the appropriate registration card with the component manufacturer as described with the individual instruction booklets to activate the warranties on the components within your Newmar RV. This Owner's Guide should be kept in your vehicle for quick reference. Take time to get acquainted with your unit and how it operates.

Again, thank you and welcome to the Newmar family.

Newmar Corporation

This guide, along with the Video Owner's Guide, has been provided by Newmar Corporation solely for the purpose of providing instructions about the operation and maintenance of this vehicle and its components. Nothing in this manual creates any warranty, either expressed or implied. The only warranty offered by Newmar Corporation is set forth in the written limited warranty that applies to this vehicle.

Instructions are included in this manual for operating some of the components that are standard on this vehicle. Instructions are also given for components that are options and may not appear on all vehicles. For more detailed information on components refer to the individual manufacturer's operating instructions contained in the Owner's Information Package.

The limited warranties issued by component manufacturers require periodic service and maintenance, and the owner's failure to provide this service and/or maintenance will result in the loss of warranty coverage. The owner should review the Newmar Corporation limited warranty and other manufacturers' limited warranties of all components applicable to this vehicle. To activate the warranties on the components within your Newmar recreational vehicle, be sure to file the appropriate registration card with the component manufacturer as described with the individual instruction booklet.

Newmar Corporation has compiled the most current information available at the time of publication. If the components in your unit vary significantly from what is described within this manual, then consult the instructions provided by the component manufacturer found in the Owner's Information Package.

Throughout this guide, reference is made to the following terms: Warning, Caution, and Important. These terms indicate important information that must be understood and followed. The definitions of these terms are:

WARNING

Emphasizes an area in which personal injury or even death could result from failure to follow instructions properly. Mechanical damage may also occur.

CAUTION

Failure to observe a caution can cause damage to the equipment or unit. Personal injury is unlikely.

IMPORTANT

Provides additional information to make a step easier or clearer.

CHAPTER 1

GENERAL INFORMATION

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DELIVERY

Throughout the manufacturing process your vehicle has been inspected by our 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 is also available to assist you in understanding the limited warranties and completing any necessary forms to activate the warranties for the various appliances and accessories installed in your unit.

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. This is done to familiarize the customer with the vehicle, its systems and components, and their 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's manufacturers within the prescribed time limit.
5. Providing the customer with information regarding warranty and non-warranty work on the vehicle and its separately warranted components whether the customer is in or out of the area.

Customer Responsibilities

The customer is responsible for regular and proper maintenance of the vehicle. Properly maintaining your vehicle will prevent conditions arising from neglect that are not covered by your Newmar limited warranty. The maintenance guidelines in this manual and any other applicable manual should be followed. It is your responsibility and obligation to return the vehicle to an authorized dealer for repairs and service.

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

- a. Read the warranty. Go over it thoroughly with your dealer.
- b. Inspect the vehicle. Do not accept delivery until you have gone through the unit with the dealer. Newmar has provided a check list 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 done this.
NOTE: The sales literature versus actual specifics to the vehicle's measurements, weights, or quantities may vary.
- c. Ask questions about anything that you do not understand concerning your recreational vehicle.
- d. When taking delivery, set an appointment for adjustments. This appointment should be approximately two (2) weeks after you accept delivery.
- e. Responsible Use. Your vehicle is designed to be used for recreational or temporary living purposes. It is not designed to be used as a full-time residence or for commercial use. Commercial use means using as a business asset such as a mobile office or using the vehicle for lease/rental purposes.

Major Equipment Manufacturers

A & E Awnings	800-544-4881
Atlanta DTH, Inc.	770-451-9777
Atwood Mobile Products	815-877-5700
A.S.A. Inc.	574-266-1886
Carefree of Colorado	800-621-2617
Collins & Company	574-848-1118
Dexter Axle	574-295-1900
Dometic, Duo Therm	800-544-4881
Elkhart Tool & Die	574-295-8500
Evans Tempcon	800-354-7088
FanTastic Vent Corp.	800-521-0298
Flexsteel Industries	563-556-7730
Ford Motor Company	800-444-3311
Freightliner Custom Chassis	800-FTL-HELP
Gekotek Electronics (Monitor Panel)	714-738-3551
Generac Generators	800-747-1530
Goodyear Tires	800-227-1999
HWH Corporation	800-494-3213
Hickory Springs Mfg.	501-646-6161
Hidden Hitch	877-869-6787
IOTA	877-682-4682
Interstate Batteries - 12 Volt	800-872-4100
Interstate Batteries - 6 Volt	888-772-3600
KVH Industries	401-847-3327
Kwikkee Products	800-736-9961
Magic Chef	515-792-7000
Midwest Sales & Service	574-287-3365
Mito	888-433-6486
Mor-Ryde, Inc.	574-293-1581
Nagy Fleet Net, Inc.	574-262-4479
Norcold	800-543-1219
Onan Generators	800-888-6626
Pioneer	800-777-4856
PowerTech Generators	800-760-0027
Putnam Hitch	517-369-2165
Quest Corp.	800-877-0521
RFD Components	574-295-3939
Scope Seating	574-295-6016
SeaLand Technology	800-321-9889
Sears	800-359-2000
Sony	800-222-7669
Spartan Motors	800-543-4277
Splendide Washer/Dryer	800-736-4127
Suburban Mfg.	800-659-2138
Thetford Toilet	800-521-3032
U-Line Ice Maker	800-779-2547
Villa International	714-535-7272
Vehicle Systems	800-685-4298
Ventline (Range Hood)	574-848-4491
Winegard Antenna Systems	800-288-8094
Workhorse Custom Chassis	877-946-7731
Xantrex	800-446-6180

RECREATIONAL VEHICLE LIMITED WARRANTY

The Newmar Corporation Limited Warranty was provided to you by your selling dealer prior to purchase. Please refer to this document when inquiring about the Newmar Warranty. To receive an additional copy, please write to: Newmar Corporation, Warranty Department, P.O. Box 30, Nappanee, IN 46550-0030.

Warranty Service Deadline

Warranty service required needs to be completed during the term of the warranty. Service work scheduled or performed after the expiration of the Newmar three (3) year/36,000 mile warranty **WILL NOT** be covered.

Owner's Information Package

Included in this package are valuable documents about your vehicle and its components and systems. The Newmar Owner's Guide does not cover every possible detail of equipment, standard and/or option, installed on or in your vehicle. Consulting the booklets and instruction manuals in this package will help you safely operate, maintain, and troubleshoot these items.

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

CUSTOMER RELATIONS

If you wish to schedule maintenance work, schedule service work, or order parts you should notify your local authorized Newmar Service Center to set up an appointment. If you are unsure of the location of your closest authorized Newmar Service Center, see the listing in the manual. You may also write to:

Newmar Corporation
Warranty Department
P.O. Box 30
Nappanee, IN 46550-0030

REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Newmar Corporation.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer, or Newmar.

To contact NHTSA, you may either call the Auto Safety Hotline toll free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, U.S. Department of Transportation, Washington, DC 20590. You can also obtain other information about motor vehicle safety from the hotline.

SPECIFICATION LABEL

There are two main numbers used to identify the vehicle. The Vehicle Identification Number (VIN) is the legal identification of the completed vehicle. The VIN is the number used by the state for vehicle registration. The Newmar Serial Number (1) is a five or six digit number that is needed whenever making an appointment for service or ordering parts through your Newmar Dealer or Service Center. This number can be found on the placard in the kitchen overhead and on the Customer Care Card received from Newmar. Below is a sample of the placard located in the kitchen.

1. The Newmar Serial Number
2. Last five digits Vehicle Identification Number (VIN)
3. Model Number of the Unit
4. Model Year of the Unit
5. Manufacturer, Model Number, and Serial Number of factory installed appliances

SPECIFICATION LABEL					
SERIAL #	XXXXXXXXXX	VIN #	XXXXXXXXXXXXXXXXXXXX	MODEL #	XXXXXXXXXX
DECOR #	XXXXXX	WOODCOLOR	XXXXXXXXXX	MODEL YEAR	XXXX
HEIGHT	XXXXXXXXXX	DRY WEIGHT	XXXXXX	LENGTH	XXXXXXXXXX
APPLIANCE INFORMATION					
FRONT A/C	620315-421	SERIAL #	XXXXXXXXXX	REAR A/C	620315-421
FRONT TV	XR1901	XXXXXXXXXX	REAR TV	XXXXXXXXXX	XXXXXXXXXX
FRONT FURN.	SF42	XXXXXXXXXX	DASH A/C	XXXXXXXXXX	XXXXXXXXXX
WATER HEATER	SW10DE	XXXXXXXXXX	RANGE	C379P	XXXXXXXXXX
GENERATOR 135H/FA28100N	XXXXXXXXXX	XXXXXXXXXX	AUX HEATER		
FRONT RADIO	EXCD-21	XXXXXXXXXX	REAR RADIO		
WASHER			DRYER		
CB RADIO			VCR		
CONVERTER	T000	XXXXXXXXXX	MICROWAVE	R1850	XXXXXXXXXX
REFRIGERATOR	RM3862	XXXXXXXXXX	BLENDER		
MONITOR	CJ780E	XXXXXX	FREEZER		
ICE MAKER			DISHWASHER		
SAFE			CD PLAYER		

Notes

RECOMMENDED SERVICE CENTERS

ALABAMA

MADISON RV CENTER

1707 JORDAN LANE N.W.
HUNTSVILLE AL 35816
(256) 837-3881 Fax (256) 830-4451

MILICAN RV AMERICA

6550 CR 490
HANCEVILLE AL 35077
(256) 775-8030 Fax (256) 775-8085

MILICAN RV AMERICA

36115 US HWY. 280
SYLACAUGA AL 35150
(256) 249-3773 Fax (256) 249-3958

ALASKA

A & M RV CENTER

2225 E. 5TH AVE.
ANCHORAGE AK 99501
(907) 279-5508 Fax (907) 272-4156

KAREN'S RV SERVICE CENTER

1850 VIKING DRIVE
ANCHORAGE AK 99501
(907) 336-2055 Fax (907) 336-2054

ARIZONA

DESERT LAKES RV

4144 S. HWY. 95
BULLHEAD CITY AZ 86426
(928) 758-8800 Fax (928) 758-8877

ROBERT CRIST RV

2025 E. MAIN STREET
MESA AZ 85213
(480) 834-9410 Fax (480) 834-8238

STAR VALLEY RV

255248 E. HWY. 260
PAYSON AZ 85541
(928) 468-2363 Fax (928) 468-8073

SUN CITY RV INC.

9045 NORTHWEST GRAND AVE.
PEORIA AZ 85345
(623) 979-8585 Fax (623) 979-7121

WORLD WIDE RV

4660 E. MAIN STREET
MESA AZ 85205
(480) 832-5600 Fax (480) 832-5632

ARKANSAS

OUTDOOR LIVING CENTER

HWY. 7 SOUTH
P.O. BOX 1081
RUSSELLVILLE AR 72801
(479) 968-7706 Fax (479) 968-4360

CALIFORNIA

ALPINE RECREATION SLS & SVC

19380 MONTEREY ROAD
MORGAN HILL CA 95037
(408) 779-4511 Fax (408) 779-0754

DAVE ALTMANS RV

1201 BALDWIN PARK BLVD.
BALDWIN PARK CA 9170
(626) 960-1884 Fax (626) 962-6906

DAVE ALTMANS RV

22020 RECREATION ROAD
CARSON CA 90745
(310) 518-6182 Fax (310) 513-0497

DAVE ALTMANS RV

1313 RV CENTER DRIVE
COLTON CA 92324
(909) 422-0311 Fax (909) 422-0450

HAPPY DAZE RV

1199 EL CAMINO AVE.
SACRAMENTO CA 95815
(916) 920-8255 Fax (916) 920-5503

MANTECA TRAILER & CAMPER

1990 E. YOSEMITE AVE.
MANTECA CA 95336
(209) 239-1267 Fax (209) 239-4348

NIEL'S MOTOR HOMES

8646 SEPULVEDA BLVD.
NORTH HILLS CA 91343
(818) 891-0786 Fax (818) 895-1189

PAUL EVERT'S RV COUNTRY

3633 S. MAPLE
FRESNO CA 93725
(559) 486-1000 Fax (559) 237-3298

COLORADO

ALPINE TRAVEL TRAILERS

2487 HIGHWAY 6 & 50
GRAND JUNCTION CO 81505
(970) 242-5898 Fax (970) 242-6882

J D L TRAILER SALES

2734 LAKE AVENUE
PUEBLO CO 81004
(719) 564-8056 Fax (719) 564-0306

MOUNTAIN STATES RV

14300 E. COLFAX AVENUE
AURORA CO 80011
(303) 360-0252 Fax (303) 363-9103

CONNECTICUT

DAVE'S RV CENTER

2 INDUSTRIAL PLAZA ROAD
DANBURY CT 06810
(203) 730-1744 Fax (203) 730-1741

DELAWARE

PARKVIEW RV CENTER

5511 DUPONT PARKWAY
SMYRNA DE 19977
(302) 653-6619 Fax (302) 653-6631

SLICERS CAMPING TRAILERS

773 S. DUPONT HWY.
NEW CASTLE DE 19720
(302) 836-4110 Fax (302) 836-4781

FLORIDA

DICK GORE'S RV WORLD

14590 DUVAL PLACE WEST
JACKSONVILLE FL 32218
(904) 741-5100 Fax (904) 741-4905

FREIGHTLINER OF SO. FLORIDA

1699 N. US 1
FORT PIERCE FL 34950
(561) 466-9424 Fax (561) 466-5102

HARBESON SWANSTON RV

17028 US HWY. 19 NORTH
CLEARWATER FL 33764
(727) 539-8714 Fax (727) 539-1714

INDEPENDENCE RV

12705 W. COLONIAL DRIVE
WINTER GARDEN FL 34787
(407) 877-7878 Fax (407) 877-3806

LAND YACHTS

1414 COMMERCE LANE
P.O. BOX 1840
JUPITER FL 33468
(561) 745-0242 Fax (561) 745-1725

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1490 HWY. 98 WEST
MARY ESTHER FL 32569
(850) 581-0880 Fax (850) 581-2300

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6428 PENSACOLA BLVD.
PENSACOLA FL 32505
(850) 476-6848 Fax (850) 474-6392

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FORT MYERS FL 33905
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OKEECHOBEE FL 34974
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www.traveleasyrv.com

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250 LONGWOOD DRIVE
RICHMOND HILL GA 31324
(912) 756-6606 Fax (912) 756-6627
www.dickgoresrvworld.com

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BODILY RV INC.

203 MAIN STREET
MERIDIAN ID 83642
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COLLIER RV CENTER

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ROCKFORD IL 61112
(815) 332-3322 Fax (815) 332-8388

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776 W. OAKTON ST.
DES PLAINES IL 60018
(847) 437-3421 Fax (847) 437-3459

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HWY. 148 NORTH
ZEIGLER IL 62999
(618) 596-6414 Fax (618) 596-6344

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218 S. LAKE OF THE WOODS ROAD
MAHOMET IL 61853
(217) 586-2055 Fax (217) 586-2382
www.rsrvsales.com

S & S RV'S INC.

I-57 & ROUTE 185
FARINA IL 62838
(618) 245-3533 Fax (618) 245-6185

TAYLOR BROWN

1400 LOCKE DRIVE
BRADLEY IL 60915
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2717-B OAKLAND AVE.
ELKHART IN 46517
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PO BOX 3641
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D J'S RV CENTRE LTD.
THATCHER DRIVE EAST & #1 HWY.
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CHAPTER 2

DRIVING & SAFETY PRECAUTIONS

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SAFETY PRECAUTIONS

WARNING

Prior to towing your vehicle, be sure you have read this entire owner's guide and that you understand your vehicle's equipment completely and how to use the equipment safely.

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 motorhome. Listed below are some safety precautions that must be adhered to while your motorhome 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.

General Warning

WARNING

Portable fuel-burning equipment, including wood and charcoal grills and stoves, shall not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle may cause fires or asphyxiation.

- Seats equipped with seat belts are the only ones to be used while the vehicle is in motion.
- While the vehicle is in motion, all seats should be locked in the forward facing position.
- Passengers should never be allowed to stand or kneel on seats in a moving vehicle.
- All passengers must have seat belts fastened in a low and snug position so that the force exerted by the belt in a collision will be spread across the hip area. Pregnant women should wear the lap-shoulder belt, with the lap belt portion worn low and snug.
- The fire extinguisher should be inspected monthly for proper charge and operating condition. The smoke alarm should also be tested on a regular basis. The label on the detector should be removed when preparing the unit for the first trip. In addition to the recommended inspection, these should also be checked prior to a vacation or extended trip.
- Sleeping facilities are not to be used while the vehicle is in motion.
- Become familiar with the operation of the escape window, but use this window strictly as an emergency exit.

Before Starting Out

The following is a brief list of procedures that 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 and 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.

Driving

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 rear view mirrors.
- The dashboard may contain several gauges and controls you have not previously used. Become familiar with all of these devices and their operation before starting out.
- 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.
- 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.
- 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. 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. Please refer to your chassis manual for related information.

Notes

LP Gas & Fuel

WARNING

LP gas containers, gasoline or other flammable liquids shall not be placed or stored inside the vehicle because fire or explosion may result. LP gas containers are equipped with safety valves that relieve excessive pressure by discharging gas into the atmosphere.

- While refilling the fuel or LP tank, the engine must be off, all pilot lights must be extinguished, and appliances turned off. Smoking is also prohibited at this time.
- Exhaust gases contain carbon monoxide (an odorless, colorless, and poisonous gas). These gases are produced by burned gasoline, diesel, or LP gas. Items such as the range, furnace, water heater, refrigerator, chassis engine, or generator engine can produce these gases. These fumes should not be inhaled. Inhaling carbon monoxide may produce headaches, dizziness, nausea, or even death.
- An open flame is never to be used to test for LP gas leaks.
- All protective covers and caps must be replaced after filling the LP system.
- Once the valve is closed, securely latch the LP door.
- LP gas and natural gas are not interchangeable. Never connect natural gas to the LP gas system.
- The use of equipment such as wood and charcoal grills and stoves inside this recreational vehicle may cause fires or asphyxiation.

LP GAS SYSTEM

General Information

A warning label has been placed near the LP gas container. This label reads:

WARNING

DO NOT FILL CONTAINER(S) TO MORE THAN 80 PERCENT OF CAPACITY.

Overfilling the LP gas container can result in uncontrolled gas flow, which can cause fire or explosion. A properly filled container will contain approximately 80 percent of its volume as liquid LP gas.

The LP gas system components in your unit have been approved for use in camping vehicles by a nationally recognized testing laboratory. LP gas is a clean-burning dependable fuel when properly handled. The LP gas tank mounted on your unit contains liquid propane gas under high pressure. The liquid gas vaporizes as the fuel is used and passes through the tank valve

to a regulator that automatically reduces the pressure. The low-pressure gas is then distributed to the appliances through the pipe manifold system. Appliance lighting problems are commonly caused by an improperly adjusted gas regulator. Never attempt to reset the regulator yourself. Have an authorized service technician make any necessary adjustments. We recommend that you have the LP gas system checked by an authorized service technician at least once a year and after every extended trip. Although the manufacturer and dealer carefully test for leakage, travel vibrations could loosen fittings. Leaks can be easily found by applying leak detector solution at the connections. If leak detector solution is not available, a soapy water solution made with dish soap can be used. Tightening the fitting usually stops any leaks. If this does not work, shut off the main gas valve at the tank and immediately consult an authorized service technician for repairs. If a leak is suspected, the identifying odor smells similar to rotten eggs (sulfur). Never test for a leak by lighting a match or having an open flame where you suspect leaking gas.

WARNING

Shut off the main gas valve at the tank when the camping vehicle is not in use. Also, shut off the valve when refueling to avoid potential danger from pilot lights igniting fuel fumes. Some appliances, such as the refrigerator, water heater, and furnace, have DSI (direct spark ignition) boards, so it is important that you turn the appliances off when the LP gas is off. The ignition in the appliances will continue to spark even if there is no LP gas available.

LP Regulator

The regulator acts as the heart for the LP gas system. The LP gas in the tank is under high pressure. The regulator reduces the pressure of this gas so that it is safe to use with the various appliances in your unit. If corrosion is noticed, contact a qualified LP gas service technician. Do not adjust the regulator. It is factory preset. Adjustments are to be made by a qualified LP service technician using specialized equipment.

LP gas regulators must always be installed with the diaphragm vent facing downward. Regulators that are not in compartments have been equipped with a protective cover. Make sure that the regulator vent faces downward and that the cover is kept in place to minimize the vent blockage that could result in excessive gas pressure causing fire or explosion.

LP Distribution Lines

The primary manifold is a black steel pipe running the length of your unit. Most secondary lines leading to gas appliances are made of copper tubing with flare fittings. If any of the gas lines rupture, do not attempt to splice them. Always run a new line. We recommend gas distribution work be performed by an authorized service technician. The main valve at the LP tank must be closed when removing or servicing any gas appliance. This will prevent dangerous gas leakage that could result in an explosion and possibly serious injury. If a leak is suspected, have the systems inspected and repaired by a qualified service technician.

Precautions & Recommendations

- Inspect the LP fill valve for foreign materials before refueling.
- Shut the pilot lights off prior to refueling LP gas tanks.
- Never check for gas leaks with an open flame (match, etc.).
- Gas lines should be visually inspected periodically.
- Have the gas system inspected yearly and before and after extended trips.
- The gas system should be inspected and repaired by qualified technicians only.

WARNING

The LP system in your recreational vehicle is designed for liquefied petroleum gas only. Never attempt to connect natural gas or butane gas in this system.

FIRE SAFETY

The possibility of fire exists in all areas of life, and the recreational life-style is no exception. Recreational vehicles are complex machines. They are made up of many materials, some of which are flammable. Like most hazards, the possibility of fire can be minimized, if not totally eliminated. This is done 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.

Fire Extinguisher

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. 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.

Fire extinguishers are mechanical, pressurized devices. Care must be exercised when they are handled. They must be maintained as the operator's manual instructs for proper and safe operation. 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. Doing this will cause a loss of pressure.

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.

Smoke Detector

The battery powered 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. Test the smoke detector after the unit has been in storage, before each trip, and at least once a week during use. 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. The battery should be replaced once a year or when the low battery signal sounds.

Emergency Exit Window

In the bedroom of the unit, there is an emergency exit (egress) window. This window is designed to be used as an additional exit in emergency situations. It can be easily identified by the red color of the handle and the red "EXIT" label. To open the egress window, lift the handle and push outward on the window. The window can be closed by pulling the window closed and lowering the handle to the down or locked position.

WEIGHT INFORMATION

Below is a sample of a weight information label which may appear in your unit.

MOTORHOME WEIGHT INFORMATION		
Newmar Serial Number	XXXXX	VIN # XXXXXXXXXX
GVWR (Gross Vehicle Weight Rating) is the maximum permissible weight of this fully loaded motorhome.		
UVW (Unloaded Vehicle Weight) is the weight of this motorhome as built at the factory with full fuel, engine oil, and coolants.		
SCWR (Sleeping Capacity Weight Rating) is the manufacturer's designated number of sleeping positions multiplied by 154 pounds (70 kilograms).		
CCC (Cargo Carrying Capacity) is equal to GVWR minus each of the following: UVW, full fresh (potable) water weight (including water heater), full LP-Gas weight and SCWR.		
CARGO CARRYING CAPACITY (CCC) COMPUTATION		
		pounds (kilograms)
GVWR.....	XXXXX	(XXXXX)
minus UVW.....	XXXXX	(XXXXX)
minus fresh water of 115 gallons @ 8.3 lb/gal	xxx	(xxx)
minus LP-Gas weight of 32 gallons @ 4.5 lb/gal	xxx	(xx)
minus SCWR of 4 persons @ 154 lb / person	xxx	(xxx)
CCC for this motorhome*	XXXX	(XXXX)
*Dealer installed equipment and towed vehicle tongue weight will reduce CCC		
CONSULT OWNER'S MANUAL FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES.		

Weighing the Unit

The following definitions are given to help in communications of issues of weight and your unit.

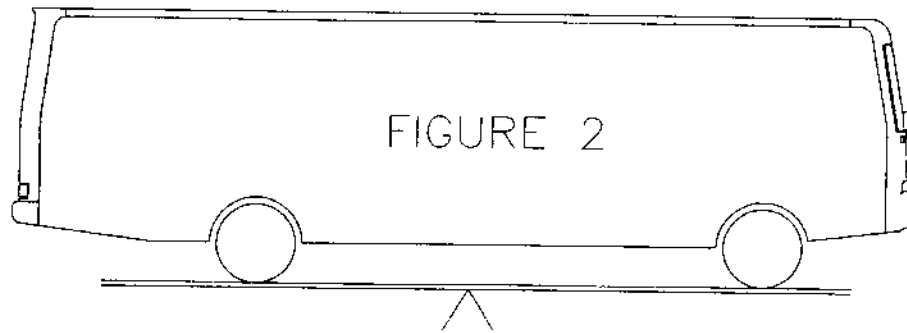
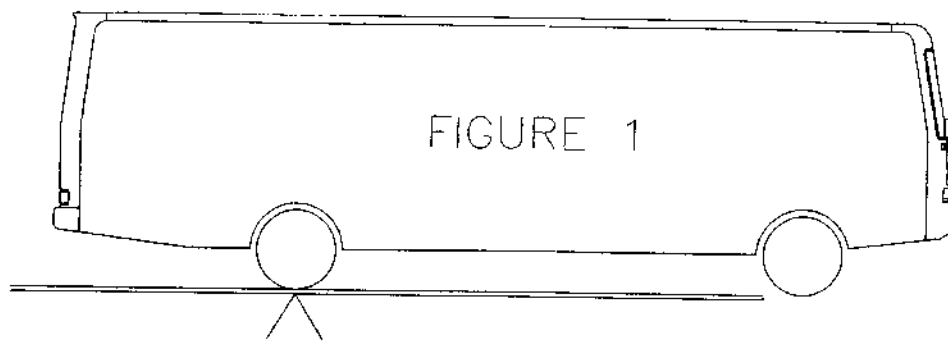
- GAWR: Gross Axle Weight Rating is the maximum permissible weight for an axle. This takes into consideration the weakest link in the tire, wheel, brakes, hubs, axle, springs, and attaching parts. For example, if the axle is rated at 15,000 pounds and the tires are rated at 3,415 pounds each as a dual, the maximum GAWR would be 13,660 pounds with four tires.
- GCWR: Gross Combined Weight Rating is the value specified by the manufacturer of the vehicle as the maximum allowable loaded weight of the vehicle with its towed trailer or towed vehicle.
- GVWR: Gross Vehicle Weight Rating is the maximum permissible weight of this fully loaded motorhome. The GVWR is equal to or greater than the sum of the Unloaded Vehicle Weight plus the Cargo Carrying Capacity.
- UVW: Unloaded Vehicle Weight is the weight of the motorhome as built at the factory, with full fuel, engine oil, and coolants. The UVW does not include cargo, fresh water, LP gas, or dealer installed accessories.
- CCC: Cargo Carrying Capacity is equal to GVWR minus each of the following: UVW, full fresh (potable) water weight (including water heater), full LP-Gas weight and SCWR.
- GVW: Gross Vehicle Weight is the weight of the unit with all items and supplies that are loaded into the unit at any point in time.
- SCWR: Sleeping Capacity Weight Rating is the manufacturer's designated number of sleeping positions multiplied by 154 pounds (70 kilograms).

To assure the accuracy of your weights be sure the unit is always level during weighing.

The unit has been built to comply with the component suppliers recommended limits and gives you 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. 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.

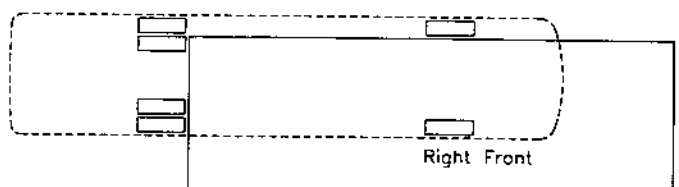
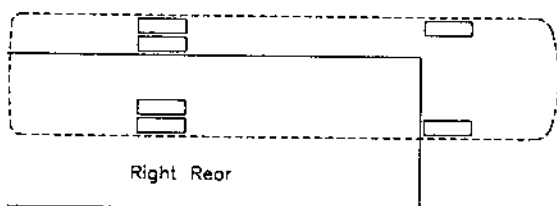
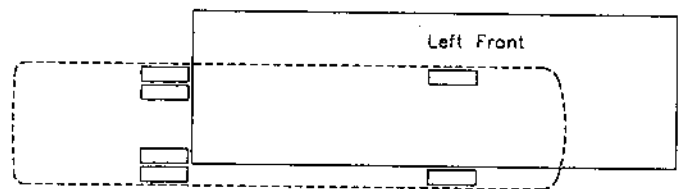
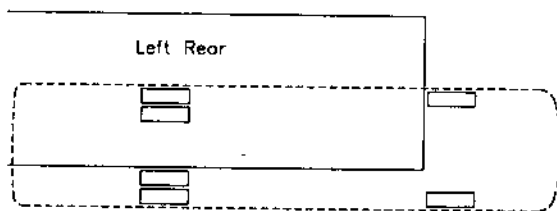
NOTE: The sales literature may give approximates or standards. Each individual unit may weigh differently based on the factory and/or dealer options added.

Notes



1. Pull the unit onto the scales shown in Fig. 2. This is the total weight of the unit. To do this, pull the unit onto the scales so that all of the wheels are on the scale. Record the weight. This is the GVW and should not exceed the GVWR supplied by Newmar for the unit.
2. Move the unit so that the front wheels are off the scales as shown in Fig. 1. Record the weight. This is the total weight of the unit except for the front axle. 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 (1). This amount should not exceed the listed front axle weight rating.

The recommended procedure to weigh a motorhome accurately is on individual corner scales. Since these are not always available, below is a diagram of how to weigh a motorhome on a typical truck scale. **Note:** 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 of weights.



Campsite Parking

If the campground does not have drive-through sites, it is recommended to stop near the site and inspect it for slopes or uneven areas. Back into the site carefully. Watch for low-hanging limbs, posts, large rocks, or other obstacles. Back the unit in so the site is on the driver's left, if possible. This will enable the driver to watch the rear of the unit. Back up slowly using the side mirrors as a guide or with the assistance of another person outside guiding the parking procedure.

Place the vehicle in neutral, set the air park brake, and turn off the ignition. If parked on a steep incline, pre-level the coach by driving the appropriate wheels onto blocks. Finish the leveling process by using the leveling jack system to level and stabilize the unit. Connect the 120 volt shore power to the unit. Open the LP gas valves at the LP tanks. Connect the fresh water supply and sanitize the water systems, if necessary. Connect the waste drain hose to the sewer hook-up. Start the refrigerator, water heater, and furnace, if needed. Light the oven pilot light, if applicable. Remember that the refrigerator will not operate efficiently if the unit is unlevel.

CAUTION

Do not lift the wheels of the unit off the ground at any time during this process. The unit can roll forward or backward when the weight of the unit is on the jacks.

Car Towing Hitch

The motorhome is equipped with a 10,000 pound hitch and wire connector. Two extra 14 gauge wires are also included with the car towing hitch for your use. Your unit is designed for use as a recreational vehicle and is intended for towing light loads. The instructions for towing are listed in the chassis manufacturer owner's manual provided with your unit. The total weight of the motorhome and any vehicle towed by it must not exceed the GCWR. When weighing the motorhome, be sure to take passenger locations into consideration. The towed vehicles must have adequate active brakes. The wire connector installed is the standard seven-pin connector. Chapter 7 of this guide will have more information regarding this connector.

Notes

CHAPTER 3

AIR CONDITIONING & HEATING

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AIR CONDITIONER(S)

The two air conditioners installed on your coach will operate only when the unit is supplied with 120 volt AC power from the power cord or the generator. The air conditioners circuit breaker must be in the ON position to work.

To assist the air conditioners in cooling the coach, park in the shade and keep the drapes or blinds closed. Set the thermostat to the desired temperature.

Air conditioners can use a large portion of the available electric power. RV parks may experience low voltage on days with high heat or humidity. This is commonly referred to as a "brown out." A "brown out" may trip the air conditioner circuit breaker. The circuit breaker protects your air conditioner from damage and is necessary during low voltage conditions. The tripped breaker is not a fault in your electrical system.

The cool air from the air conditioners is ducted throughout the coach through ceiling air ducts. Below is the thermostat that controls the air conditioners. It also controls the furnace. Simply select the desired temperature. The blower will cycle automatically, or you may choose low, medium, or high fan settings. Both air conditioners must be in the same mode. Please consult the air conditioner manufacturer's owner's manual for further assistance.

Step One: Move power switch to ON.

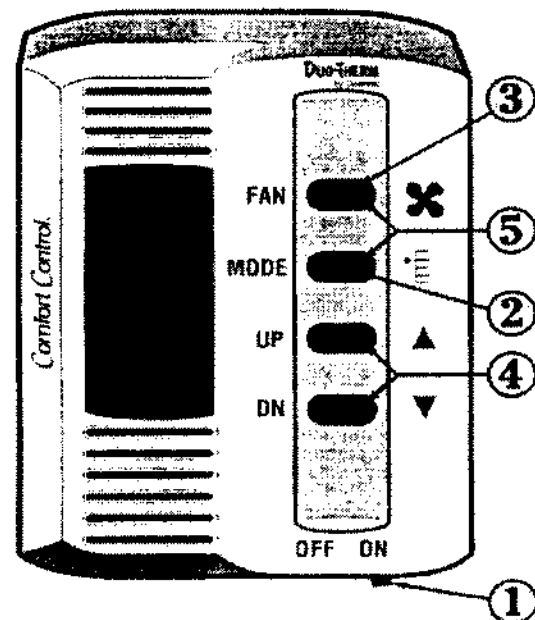
Step Two: Press MODE button to select function. (COOL*, FURNACE, FAN ONLY, etc.)

* There is an approximate 2-minute time delay after selecting cooling function for refrigerant compressor to start.

Step Three: Press FAN button to select fan speed or automatic operation.

Step Four: Press UP or DN button to set your desired temperature for the zone.

Step Five: If your vehicle contains more than one zone, depress FAN and MODE simultaneously to select zone 2, and repeat procedures from step 2 above. Repeat entire procedure for each additional zone.



Shutdown: If you turn the Comfort Control off or if there is a power interruption for any reason, the system will resume operation on the last settings when power returns.

FURNACE

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 furnace installed in your coach is a Hydronic Zone Heating System. This type of furnace provides hydronic 'radiator' type of heating. The furnace operates on 120 volt electricity when connected to shore power or diesel fuel from the vehicle fuel tank when shore power is not available.

To operate the furnace, first set the thermometer zone to the FURNACE mode. Then select the desired temperature by using the UP or DOWN arrows. Next press the ZONE button to toggle to the next zone or letting the thermostat sit idle for a few seconds will store the temperature setting in the thermostat memory. This process should be done for each zone. Prior to furnace operation with diesel fuel, the diesel burner must be ignited. This is done by pressing the AQUA HOT DIESEL BURNER switch that may be located in the passenger overhead control panel.

There are five heat exchangers located throughout the living area of this unit. They are located in the bedroom, bathroom, kitchen, under the dash, and in the water works compartment. Remember, the heat exchanger under the dash is not a part of the chassis air-conditioning/heating system. Each heat exchanger operates as an individual furnace. A separate temperature setting can be selected for each one. The hydronic heat exchangers in the living areas are controlled by the air conditioner wall thermostat. There are three zones of heating, two of which are in the living area. The zones are listed below:

- Zone 1 Heat Exchanger under the dash, in the kitchen, and air conditioner.
- Zone 2 Heat Exchanger in the bedroom area.
- Zone 3 Heat Exchanger in the bathroom area and in the water works compartment.

As mentioned above, there is a heat exchanger located in the waterworks compartment. This heat exchanger is controlled by a separate thermostat located in the compartment area. Also, to assist in heating your motor home, a dash heating system with automatic climate control has been installed.

IMPORTANT

When setting the thermostat, remember that ALL ZONES MUST BE IN THE SAME MODE FOR PROPER OPERATION. This means when heating the unit with the furnace, each zone must be in the FURNACE mode.

WARNING

Portable fuel burning appliances are not safe for heating inside the recreational vehicle. Asphyxiation or carbon monoxide poisoning can occur.

LP TANK

This unit is equipped with an ASME (American Society of Mechanical Engineers) approved LP tank. This tank is controlled with an automatic pressure regulator. The LP tank contains liquid petroleum gas under high pressure. As the fuel is used, the liquid gas vaporizes and passes through the tank valve to a regulator that automatically reduces the pressure. The low-pressure gas is then distributed to the appliances throughout the pipe manifold system. Improperly adjusted regulators are the major cause of appliance lighting problems. Never attempt to reset the regulator. This is to be done by a qualified service technician. While in high altitudes or extreme cold weather a gas shortage may be experienced. Running one appliance at a time can help adjust to this problem.

It is recommended to have the LP system inspected by an authorized service technician at least once a year and after every extended trip. This system is tested by both the manufacturer and the dealer. Leaks can be caused by travel vibrations; therefore routine inspections are recommended.

The primary gas supply manifold is a black steel pipe running the length of the unit. Most secondary lines leading to the gas appliances are made of copper tubing with flare fittings. If any of these lines rupture, do not attempt to splice them. Always have a new line run. Gas distribution work must be performed by an authorized service technician. When removing or servicing any gas appliance, close the main gas valve at the LP tank. This will prevent dangerous gas leakage that could result in an explosion and possible serious injury. If a gas leak is suspected, have the system inspected and repaired by a qualified service technician as soon as possible.

WARNING

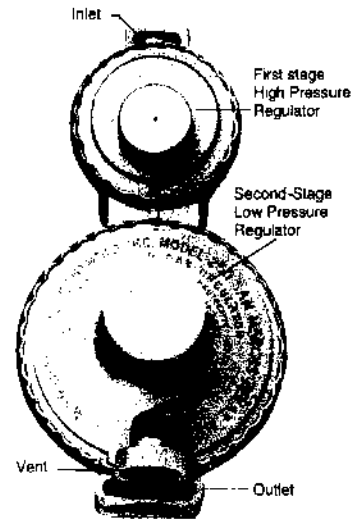
The main gas valve must be shut when the vehicle is not in use. Shut the valve off when refueling to avoid potential danger from pilot lights igniting fuel fumes. Gas valves on appliances with direct spark ignition (DSI) should also be in the off position. Do not store LP, gasoline, diesel, or other flammable liquids inside the vehicle. Fire or an explosion could be the result of ignoring this warning.

LP Tank Filling

Do not fill the tank to more than 80 percent of capacity. The unit must be level when filling the LP tank. If unlevel, overfilling may occur. Fire or explosion may be the result of uncontrolled gas flow from an overfilled tank.

LP Regulator

The regulator is the heart of the LP system. The regulator reduces the pressure of the gas so it is safe to use with various appliances. Regulators are equipped with a vent. In the event excess pressure builds up in the body of the regulator, a relief mechanism vents it to the atmosphere. It will vent until the pressure returns to the normal range. The vent must be kept clean and clear of obstructions or corrosion. A clogged vent could cause the failure of components. Contact a qualified LP technician if corrosion or obstruction is noticed.



The presence of moisture in LP fuel causes the regulators to freeze. The moisture will pass through the cylinder valve and into the regulator where freezing occurs. To help prevent the regulator from freezing, always keep the tank control valve closed when not in use, even when the tank is empty, to prevent moisture from collecting on the inside.

If moisture becomes a problem, consult an authorized LP service center for assistance.

The regulator must always be installed with the diaphragm vent facing downward. Please refer to Chapter 2 of this manual for further LP gas safety information.

LP Leak Detector

WARNING

Never check gas lines for leaks with an open flame. Do not check for leaks using ammoniated or chlorinated household type detergents. These detergents can cause cracks to form on the metal tubing and brass fittings. Take the unit to a qualified LP gas service technician to find and repair the leak. Keep the tank valve closed and all of the appliances turned off when the unit is stored. If any of the LP gas valves do not close leak-tight by hand, consult a service technician.

Liquid Propane (LP) gas is heavier than air and will settle to the lowest point of the room, which is generally on the floor of your coach. Because of this, the LP detector installed in your coach is located near the floor. The detector is also sensitive to other fumes, such as hair spray, which contain butane as the propellant. Butane, like propane, is heavier than air and will settle to the floor level where it may be detected. When this occurs, press the reset button to stop the alert sound for 60 seconds.

CHAPTER 4

APPLIANCES & ACCESSORIES

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MAJOR APPLIANCES

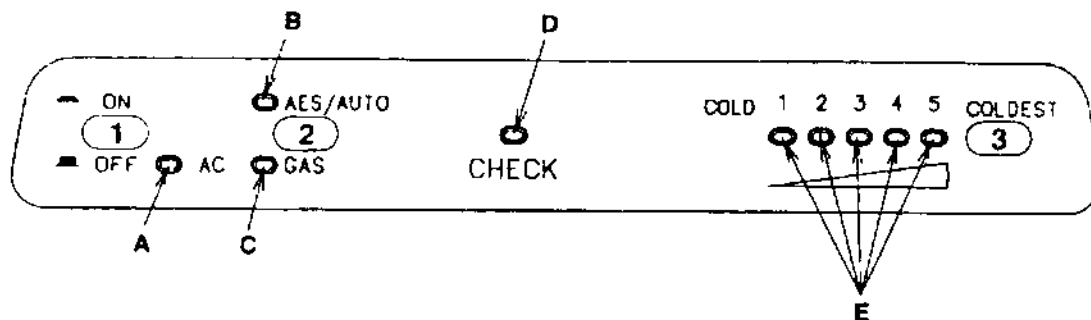
Refrigerator

Before starting the refrigerator, verify that the main LP gas valve is in the on position. The refrigerator is equipped with a semi-automatic energy selector (AES) control system. It can be set to select either 120 volt or LP gas operation, automatically, if desired.

WARNING

Most LP gas appliances used in recreational vehicles are vented to the outside of the vehicle. When parked close to a gasoline pump it is possible that the gasoline fumes could enter this type of appliance and ignite the burner flame causing a fire or explosion. Use caution when refueling.

A 12 volt power supply must be available for the electronic control panel to function. The shore line must be plugged in, or the optional generator running, to operate in the 120 volt mode. The main LP gas valve must be open for operation in the LP mode. To start the refrigerator, press the main power ON/OFF button to the ON position.



LEGEND 2-WAY AES Model

1. Main Power Button ON/OFF
2. AES/AUTO/GAS Mode Selector Button
3. Temperature Selector Button

- A. AC Mode Indicator Lamp
- B. AES/AUTO Mode Indicator Lamp
- C. GAS Mode Indicator Lamp
- D. CHECK Indicator Lamp
- E. Temperature Indicator Lamps

To use the 2-way Auto Mode, push the AUTO/GAS mode selector into the ON position. If 120 volt is available, the AC mode indicator light will be illuminated designating AC operation. If 120 volt is not available, the gas mode indicator light will be illuminated. The control system will automatically switch to gas operation. To operate on gas only, push the AUTO/GAS mode selector until the gas indicator light has lit. After 45 seconds the burner should be ignited and operating normally. The initial start up may take longer than 45 seconds in order to allow the air to be purged from the gas line. If the gas does not ignite within 45 seconds, the check indicator light will illuminate and the gas mode light will go off. If the check indicator light illuminates and the gas mode indicator light is off, then the controls have failed to ignite the burner in the gas mode. When the check indicator light is on, press the main power ON/OFF button to the off position to reset. Do not continue to reset the gas operation if the check indicator light continues to illuminate after several tries.

The thermostat on the refrigerator controls the gas and electric operation. This eliminates the necessity of resetting the temperature each time a different energy source is used. Press the temperature selector button until the light at the desired setting is illuminated. After the initial start up, the thermostat should be moved from the coldest setting to the desired setting, which is usually mid range.

Microwave

The microwave installed in your coach may be a 30" convection microwave. All microwaves operate on 120 volt electricity. The microwave's control panel is the touch pad type. Simply enter the temperature, mode, and cooking time desired. The microwave can be plugged into the electrical outlet through an optional surge protector. This will help protect the microwave in case of an electrical surge. For instructions on how to operate any of the special features on the microwave oven, please refer to the microwave owner's manual in your Owner's Information Package.

Range Hood

A range hood may be incorporated into the microwave. The microwave's control panel operates the range hood functions. This range hood has both a fan and a light for your convenience. The fan has two speeds which are low and high. Simply select the desired setting from the microwave's control panel. For further detailed information on the hood operation, refer to the microwave Owner's Manual.

Range

Installed in your unit may be a two burner recessed cooktop range. There is no pilot light for the range. The burners may be controlled by an electronic ignition. There are different models used in the Newmar product line with different types of controls. To light the burners on some models, turn the control knob to turn the gas on. Wait a couple of seconds, then push the red spark button until a flame appears. On other models turn the spark control knob until a flame appears. All burner controls operate counter clockwise and have to be pushed inward in order to turn.

Your range may be equipped with a bifold range 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 in the full upright and folded position, preventing the cover from falling on the range top during cooking. Never close the cover while the burners are in use and do not use the cover as a griddle. Never use the range while the RV is moving and remember to close the bi-fold cover when the range top is not in use.

For further instructions, please refer to the oven manufacturer owner's manual in your Owner's Information Package.

The following warning label has been placed in the cooking area to remind the user to provide an adequate supply of fresh air for combustion:

WARNING

It is not safe to use cooking appliances for comfort heating. Cooking appliances need fresh air for safe operation. Before operation:

1. Open overhead vent or turn on an exhaust fan.
2. Open a window.

Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle. Proper ventilation when using the cooking appliance(s) will avoid dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.

The following label has been placed in the vehicle near the range area:

If You Smell Gas:

1. Extinguish any open flames, pilot lights, and all smoking materials.
2. Do not touch electrical switches.
3. Shut off the gas supply at the tank valve(s) or gas supply connection.
4. Open doors and other ventilating openings.
5. Leave the area until the odor clears.
6. Have the gas system checked and leakage source corrected before using again.

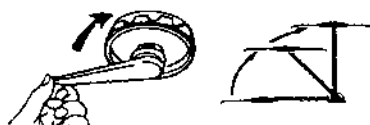
TELEVISION OPERATION

Television Antenna

The TV antenna in your coach is designed for reception of all color and black-and-white channels. If the reception is poor, you should verify that the power switch is in the "ON" position and that all of the connectors are tight. If poor reception still occurs, consult your authorized dealer.

To raise the antenna into the operating position, turn the elevating crank (clockwise) in the "UP" direction, about 13 turns, or until some resistance to turning is noticed. On the power booster, turn the switch to "ON" in order to amplify the signal being received. Once in the "UP" position, rotate the antenna to receive the best picture. This is done by pulling down on the directional handle with both hands until it disengages from the ceiling plate and then rotating it until reception has improved. The antenna must be lowered before moving the vehicle. To lower, rotate the directional handle until the pointer is aligned with the pointer on the ceiling plate. Turn the elevating crank

RAISING ANTENNA TO OPERATING POSITION



ROTATING ANTENNA FOR BEST PICTURE



LOWERING ANTENNA TO TRAVEL POSITION



(counter-clockwise) in the "DOWN" direction, about 13 turns, or until some resistance to turning is noticed. The antenna is now locked and in the travel position.

CAUTION

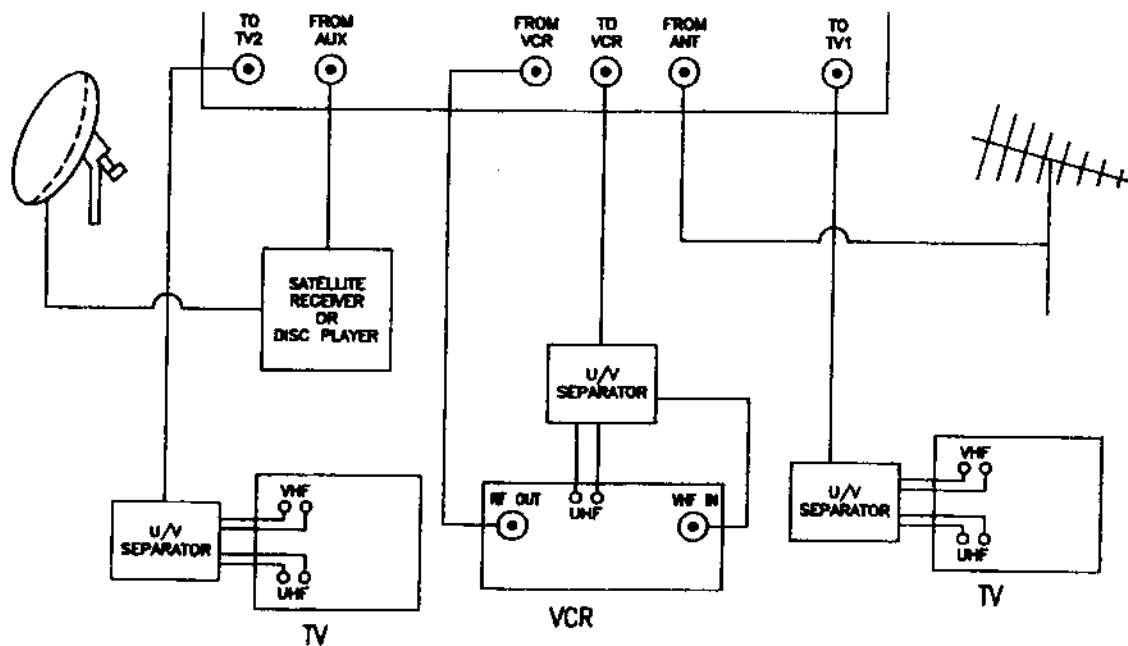
Under no circumstances should you lower the antenna in any position except the travel position.

Television

The coach is cable ready, and may have a 24" flatscreen color television in the dash overhead. A 20" flatscreen color television may also be installed in the bedroom. The televisions are powered by 120 volt electricity. Your coach must be plugged into shore power, or the generator running, in order for the television to work. For more information on this, see Chapter 7 of this manual. The television operation is similar to most televisions used in the home. The main unit has the basic ON/OFF, VOL(ume) UP and DOWN, CH(annel) UP and DOWN, and Menu buttons. The remote control has these in addition to many other function keys. Please consult your television owner's manual for further information. Your unit may also be equipped with a DVD/CD player and subwoofer and is pre-wired for a satellite system. Your unit is also equipped with two interior television jacks and an exterior television jack located on the door-side of the coach.

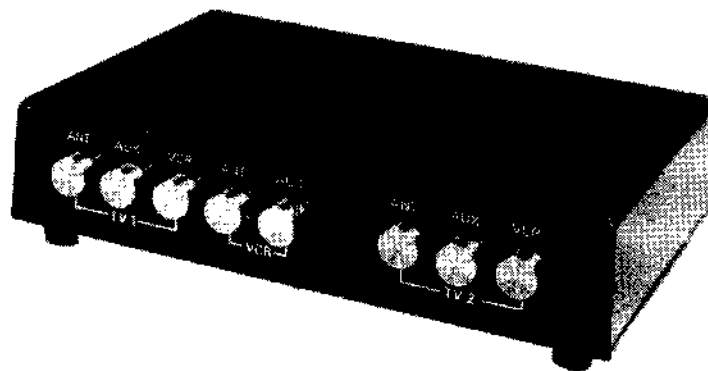
Video Control Center

An Audio Video Control Center (AVCC) may be installed in your vehicle. The AVCC will direct the signal to one or two televisions and one VCR. Simply push a button to select what is viewed and where. To control what is being viewed on the front television use the selections for "TV 1." To control what is being viewed on the bedroom (and outside television, if desired) use the selections for "TV 2." Each television is capable of viewing different programming at the same time. For example, by selecting "ANT" for "TV 1" you are able to watch your favorite network broadcast on the front television, while a movie from the VCR is being watched in the bedroom or outside, after selecting the "VCR" button for "TV 2." This control center is capable of receiving three sources of input. They are "FROM ANTENNA," "FROM VCR," and "FROM AUX." The "FROM AUX" selection is used for cable input. It will also accommodate video game systems or a satellite dish.



Video Cassette Recorder

A video cassette recorder (VCR) may be installed in your coach as standard equipment. It may be in the living room entertainment center. The controls are on the face of the VCR and on the remote control. For more detailed information regarding the VCR functions consult the VCR operator's manual in the Owner's Package. The video switch will assist you in directing the VCR signal to the television of your choice.



Cable & Telephone Jack

An exterior cable jack and receptacle may be standard features on this coach. If installed, they may be located in the compartment beside the entrance door. Another standard feature on this coach may be a telephone hook-up. This will allow the user to connect the coach to a telephone cable, if the park is so equipped. This feature includes the connector for the incoming telephone line and two telephone outlet inside the coach.

Stereo

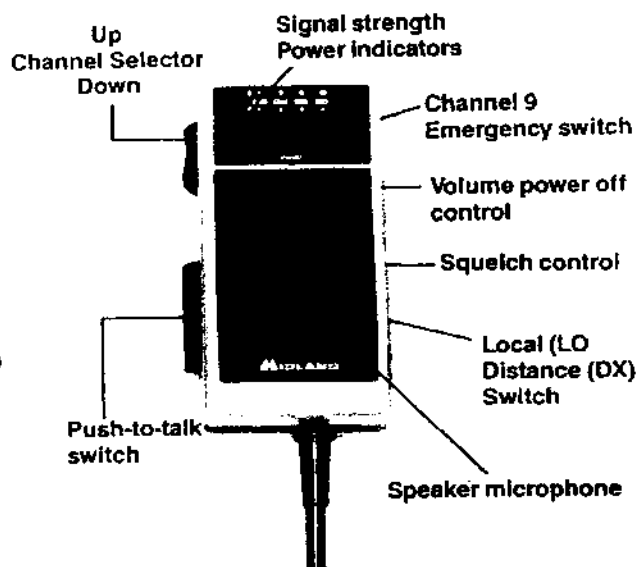
The standard dash stereo installed in your coach is an AM/FM/XM stereo with a compact disc player that includes a remote disc changer and subwoofer. Also included in the dash stereo is a combination rear view color monitor system. The stereo operates on 12 volt electricity from the coach batteries. The operation of this stereo is similar to that of many car stereos. First press the MODE button to select the desired band you wish to listen to. Your choices should be FM1, FM2, or AM. Next, press the SEEK/AMS control up or down to tune in the station that you wish to listen to. There are speakers located throughout the coach for your listening pleasure. If you wish to listen to a CD, insert the CD and playback will start automatically. For further information on the different operation features of the stereo, CD player, or rear view monitor system, please consult the manufacturer owner's manual in the Owner's Information Package. In the bedroom, you may find a radio with a CD player and alarm clock.

This coach has been equipped XM ready. An XM tuner and XM antenna have been integrated with the dash radio. Activating the service will be required to receive programming. This can be done over the phone or online. First, select XM on the dash radio and then tune to channel (0) to display the XM radio hardware ID. Record the ID. Please check the ID code carefully. There is no "I", "O", "S" or "F" used. Next, call 1-800-852-9696 or go online at www.xmradio.com to activate your radio XM programming.

Note: If you have a Sony dash radio installed in your unit it is important to know how to properly turn off the LED display to prevent premature failure. To turn off the LED display, press the OFF button and hold it down for at least two seconds. If the OFF button is pressed and released immediately, the backlighting and advertising routines will continue as long as the radio has power connected. This may result in premature failure of the radio display.

CB Radio (Optional)

This coach may be equipped with a citizens band (CB) antenna. The CB radio is an optional feature. This radio can be used to communicate with other travelers on the road. The model installed is a remote type. The hand held microphone/speaker contains the power, volume, and channel controls. Simply turn on using the power/volume control. Then select the channel you wish to monitor. Press the "Push-to-Talk-Switch" to transmit and release to receive. For more information regarding the operation of this CB radio, please consult the radio manufacturer's Owner's Manual.



Air Horns

Air horns may have been installed on this coach. These air horns are in addition to the horn installed on the chassis. A switch located on the dash allows you to choose either the chassis horn or the air horn. To operate either horn, press the center of the steering wheel.

Freezer (Optional)

The installation of a 100 pound freezer in an exterior storage compartment may be an optional feature on this coach. This freezer operates on 12 volt and 120 volt electrical power. The freezer is on slides to move easily in for storage while traveling or out for pre-travel packing or campsite unloading. For detailed instructions on the operation and maintenance of this freezer, please consult the freezer manufacturer owner's manual in the Owner's Information Package provided with this coach.

Icemaker

Depending on the floorplan of your unit, an icemaker may be installed. The icemaker operates on 120 volt electricity. For detailed information, consult the icemaker manufacturer owner's manual in the Owner's Information Package provided with your new coach.

Washer/Dryer (Optional)

The plumbing and other preparations for the installation of a compact washer and dryer may be a standard feature on this coach. However, to have a compact or two piece washer and dryer factory installed is an option. The washers and dryers used by Newmar function as those in a home, operating on 120 volt electricity. For more detailed information on the operating instructions, read the appliance owner's manual in the Owner's Information Package.

CAUTION

The gray tank valve must be in the "open" position when operating the washing machine.

Safe

For your safety and the safety of your belongings, this coach is equipped with a safe. For operation of the safe, refer to the manufacturer owner's information in the Owner's Information Package.

Carbon Monoxide

Carbon monoxide is a colorless, tasteless, odorless gas. It is a by-product of the burning of fossil fuels (gasoline, LP gas, diesel fuel, etc.). The chassis and generator engines, furnaces,

water heater, LP gas refrigerator, and range produce carbon monoxide constantly while they are operating. Carbon monoxide is DEADLY. Please read and understand the following precautions to protect yourself and others from the effects of carbon monoxide poisoning.

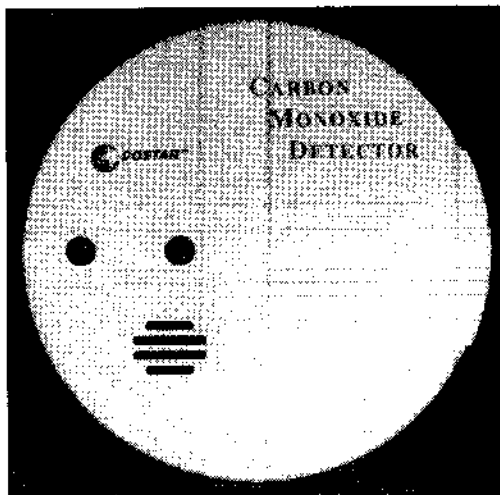
WARNING

Exhaust gases are deadly. 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.

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

WARNING

UNDER NO CIRCUMSTANCE SHOULD YOU OPERATE ANY ENGINE WHILE SLEEPING. When you are sleeping you will not be able to monitor outside conditions to assure that engine exhaust does not enter into 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.



The detector is equipped with a "sensor activation strip." This strip 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.

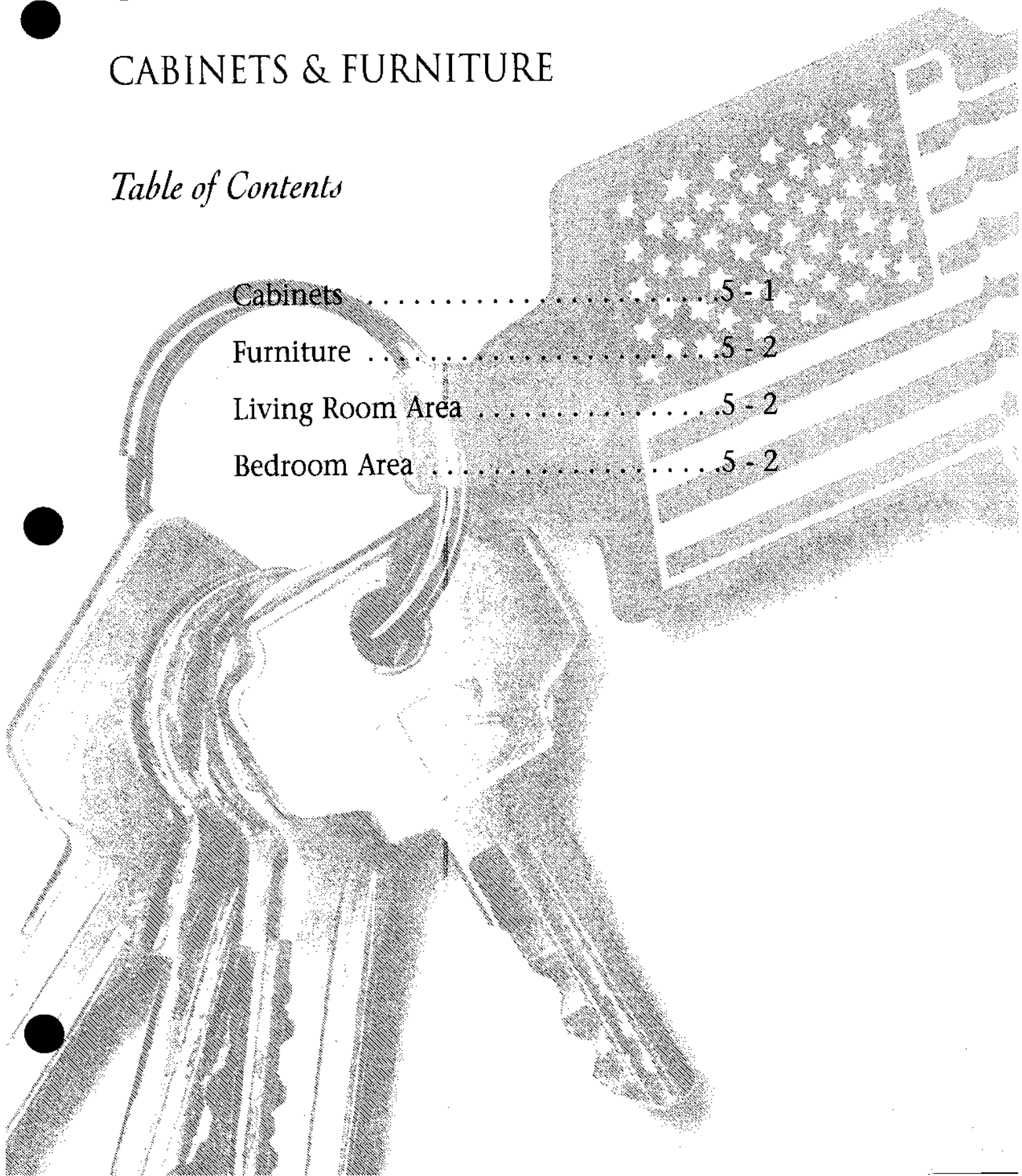
Please consult your carbon monoxide detector User's Guide for more detailed information.

CHAPTER 5

CABINETS & FURNITURE

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CABINETS

The cabinets in this unit are constructed on site at the Newmar production facility. Oak hardwood cabinets with raised panel double arched doors may be standard throughout the unit. The decor options that are available include cherry hardwood cabinets, pecan maple hardwood cabinets, and summer maple hardwood cabinets. All of the cabinetry can be easily cleaned with any commercial furniture cleaner or polish. 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. All decors have brass door and drawer handles. These give the interior an added touch of class.

Storage is an important factor to all RV owners. Keeping this in mind, the cabinetry is structured to provide as much storage as possible. Adjustable pull out pantry boxes may be standard in the kitchen. The silverware drawer may contain a molded silverware divider tray for added storage. In the bedroom, the bed platform lifts to provide an additional, convenient storage area. A strap is provided to help raise the bed. Once the bed platform is lifted, it is held open by pressurized struts to allow hands-free access.

A countertop with a color coordinated edge is installed in the kitchen. To clean, wipe with a damp cloth and for "dried on" spots or rings, wipe with a damp cloth and a mild liquid soap. Strong chemicals and solvents may damage the surface and should be wiped up immediately, then rinse the surface with water.

Avoid cutting directly on the countertop surface, avoid excessive heat, and keep harmful chemicals away to avoid countertop surface damage.

On most floor plans, the "drawer" directly in front of the kitchen and lavatory sink does not pull out, but rather flips down. This provides a storage tray for dish cloths, sponges, etc.



Metal drawer guides may be standard on all of the drawers. These guides provide a smooth opening and closing of the drawers. To open a drawer, lift up slightly and pull open. The way this mechanism works will prevent the drawers from unintended opening while traveling.

The backsplash is coated with a protective clearcoat to provide a durable, virtually maintenance free finish. When cleaning becomes necessary, simply use a common non-abrasive liquid household cleaner. To provide additional shine, the manufacturer recommends using a no wax floor cleaner. Abrasive cleaners can damage the backsplash tiles. Prolonged contact with cleaners containing ammonia or bleach may damage the finish, so be sure to wipe away soon after application. Do not use scouring pads, steel wool, or sandpaper to clean your backsplash or you may scratch the surface. For more information, see the manufacturer's literature in your Owner's Information Package.

FURNITURE

Living Room Area

Standard in the kitchen area you will find a dinette table with a Corian top with two folding and two fixed chairs. The chair seats and backs are designed with a coordinating upholstery fabric to match your decor.

The standard sofa in your unit may be an Easy Bed sofa with a storage drawer. As an option, a Magic Bed may be installed. If you have any questions regarding the warranty on this sofa, contact the manufacturer.

Depending on the model of your unit, the standard living room chair may be a leather/vinyl lounge with an incliner. As an option, you may have the sofa be made of leather/vinyl and you may also get a leather/vinyl euro recliner with an ottoman and table.

The driver and passenger seats are equipped with three-point seat belts. These should be used whenever the vehicle is in motion. Standard are the leather/vinyl front seats with eight-way power lumbar support. The control switch is located on the left-hand side in front of the power base controls. Pushing the switch forward will inflate the support while pushing back will deflate it. An oversized passenger seat with is also standard.

Bedroom Area

As previously stated, the bed platform lifts for added storage. The decor coordinating bedspread included as part of this unit's standard package may include a quilted bedspread with a reverse sham, a matching bedskirt, and accent pillows. For best results, it is recommended that the bedspread be DRY CLEANED ONLY. A luxurious pillow top mattress may also be a standard feature in this unit. Depending on the floorplan of your unit, a king size bed may be optional.

On each side of the bed you may find wardrobe closets that are lighted for your convenience. On the side wall of one wardrobe closet cedar paneling may be added.

CHAPTER 6

STRUCTURE FEATURES

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CHASSIS FEATURES

The chassis that this motorhome was built on is warranted by the original chassis manufacturer. The operating instructions are included in the chassis owner's manual provided with this unit. Please read the Chassis owner's manual before driving the unit. If you have any questions about the chassis, please contact to the chassis manufacturer.

An anti lock braking system, a back-up alarm, cruise control, tilt and telescope steering wheel, polished aluminum wheels, and recessed fuel fills with a crossover feature may also be included on your chassis.

ALIGNMENT

The motorhome you have purchased has been aligned prior to shipment. During the first 10,000 miles, due to your loading of the vehicle, the chassis suspension will 'settle in.' Re-alignment prior to the first 10,000 miles is usually not necessary. However, it is recommended to have the alignment checked after the first loading of the vehicle. If you feel a serious steering concern exists, please contact your chassis manufacturer or call Customer Service at 800-731-8300.

Notes

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CHAPTER 7

ELECTRICAL FEATURES

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Batteries

The chassis batteries on your motorhome are installed and warranted by the chassis manufacturer. The four 6 volt coach (house) batteries on your motorhome are installed by Newmar Corporation, but are warranted by the battery manufacturer. These coach batteries are used to operate the 12 volt items that are not a direct part of the chassis. They are located on a pull out tray in an outside compartment.

CAUTION

Do not use the motorhome with the coach batteries disconnected.

The coach and chassis batteries are recharged by the vehicle's electrical system whenever the engine is running. 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. This prevents the chassis batteries from being drained by the interior 12 volt equipment, allowing ample voltage for engine ignition.

Battery Boost Switch

The battery boost switch is located on the dash. This switch briefly connects the coach batteries to the chassis batteries. This allows the chassis batteries to borrow power from the coach batteries to assist in starting the engine. If the chassis batteries cannot turn the engine over in the normal mode, hold down the battery boost switch and attempt ignition. By using the battery boost switch while trying to start the chassis engine, a jump start situation is created between the coach and chassis batteries. If the battery boost switch is required to start the engine on a regular basis, ask your dealer to check the chassis batteries and charging system.

Battery Inspection & Care

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.

CAUTION

Disconnect the 120 volt electrical power cord and the negative terminal from the coach batteries before working on the electrical system.

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 and case. 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. 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. 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.

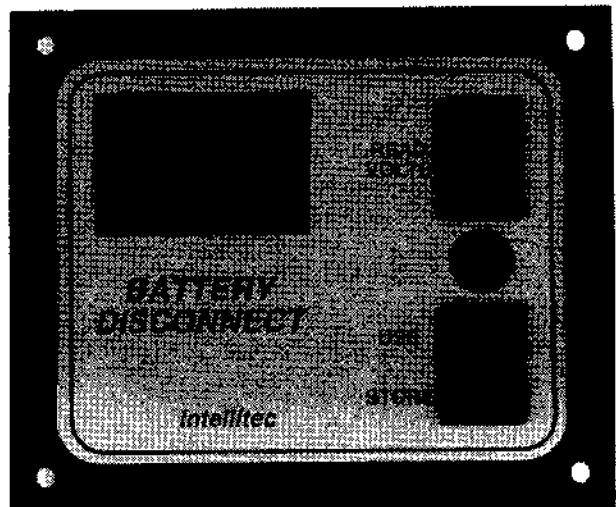
WARNING

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.

The batteries should be removed and stored in a warm place when not using your motorhome for an extended period of time. Mark the cables, positive and negative, for easy identification. Batteries are not to be stored on concrete floors. The batteries require periodic charging during storage. If the motorhome is to be stored for a long period of time, it is recommended that all of the batteries inside the unit be removed from clocks, radios, smoke alarms, etc. This will prevent unnecessary drain and corrosion of the batteries. The coach batteries are 6 volt RV/Marine deep cycle batteries. This type of battery consumes water and must be filled periodically. **Please be sure to check the battery water level on a regular basis.** Consult the owner's manual supplied by the battery manufacturer. This can be found in the Owner Information Package received with this unit.

Battery Disconnect Panel

The battery disconnect panel may be located above or near the entrance door. There are two switches on the panel. The top switch is used to measure the battery voltage. The lower switch is used to disconnect the battery when the unit is stored for any period of time. Pressing downward disconnects the coach batteries, not the chassis batteries. This is done to prevent the coach batteries from being drained during storage. It disconnects all of the 12 volt circuitry from the batteries, with the exception of the LP detector. When taking the unit out of storage, press upward to re-connect the batteries. This will make the 12 volt system ready for use.



Depending on the chassis of the coach, some diesel pusher motorhomes may be equipped with a second disconnect switch strictly for the chassis batteries. If equipped, this "Master Kill Switch" may be located in the rear engine compartment. This switch disconnects all power to the coach so that it cannot be started. It is used to prevent accidental ignition when the engine is being serviced.

12 Volt Receptacles

Your unit may be equipped with two 12 volt receptacles located on the dash. These 12 volt receptacles can be used for items such as cellular phones or personal computers.

120 Volt Receptacles

For your convenience, there are 120 volt receptacles located throughout the interior of the unit. These receptacles require three-pin plugs that provide proper grounding to protect you from electrical shock. 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. Never operate the camping vehicle with an electrical short. An electrical short may cause the exterior of the unit to shock you when touched. If you feel even the slightest shock, disconnect the unit from the 120 volt power source. It is usually a break in the grounding circuit. The grounding circuit must be continuous from the frame to the distribution panel, to the power cord, and to the earth ground.

Ground Fault Circuit Interrupt Receptacles

The 120 volt electrical outlets in the kitchen and bath area are ground fault circuit interrupt (GFCI) protected receptacles. The electrical outlets located in the slide out are wired through the kitchen GFCI. The exterior electrical outlets are wired through the bathroom GFCI. If an item plugged into a slide out or outside receptacle is not working, check for a tripped GFCI in the kitchen or bathroom. These outlets protect the user from ground faults between a hot wire and ground. The GFCI will not reduce the shock hazard if the short is between a neutral and hot wire, or two hot load wires.

The GFCI should be tested at least once a month. The 120 volt electrical system must be on in order to test the GFCI. The reset button needs to be pushed in all of the way before starting the test. Push the test button. This will cause the reset button to pop out which means that the protected circuits have been disconnected. Push the reset button back in until a click is heard. This will reactivate the protected circuit. If the GFCI is working properly the reset button will remain in the "IN" position.

ICC Flasher

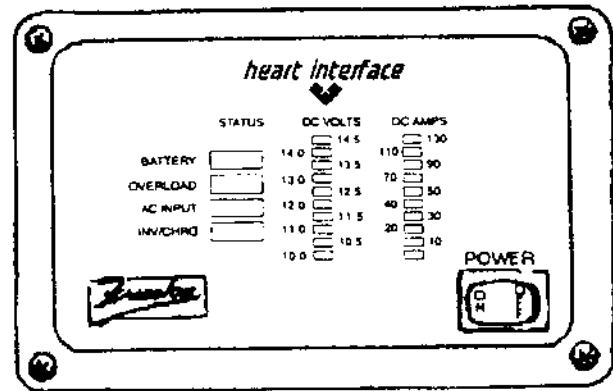
On the dash you may have a switch labeled "ICC Flasher." This switch is a momentary type of switch. This means it is only active while the switch is being pressed. It enables the driver to communicate with other traffic by flashing the clearance and side lights of the coach. If the lights are on, it will turn them off. If the lights are off, it will turn them on.

Spotlight (Optional)

The optional spotlight may be installed on the roof of this unit and is controlled by the toggle switch on the dash. The light can be turned on or off and can be moved in various directions.

Inverter/Converter

When 120 volt power is not available, either from the power cord or the generator, the inverter/converter may be used. The control panel for the inverter is located above or near the entrance door. Once turned on, the inverter transforms 12 volt power to 120 volt power for the operation of lights, appliances, televisions, etc. The 120 volt power that is generated from the inverter is routed to the electrical sub-panel located next to the main breaker box in the cabinet above the bed.



The breakers in the sub-panel are labeled to explain where the 120 volt power is routed. It generally supplies power to the microwave, kitchen, bath, and selected receptacles. The inverter is equipped with an automatic transfer switch. This allows automatic switching from inverter to converter. When you are connected to an outside power source or running the generator, the converter (in the inverter) will automatically switch on to charge the 12 volt batteries. For more detailed information consult the manufacturer Owner's Manual located in the Owner Information Package.

Daytime Running Lights

This unit may be equipped with the daytime headlight system. This feature will cause the headlights to activate automatically when the ignition is on. The headlights are on, but dimmer than normal. At dusk, the driver is required to turn the headlights on by using the headlight switch. This will allow the driver to control the bright or dim capabilities of the headlights.

Generator

This unit may be equipped with a generator with an automatic changeover feature. The generator is generally located in an outside compartment in front of the motorhome. It is mounted on slides for easy access. The slides for the generator must be unlocked before free movement is allowed. Prior to starting or stopping the generator, make sure all of the 120 volt appliances are turned off. After the generator has started, wait until the transfer switch has connected before turning on any of the appliances. The generator can be started from either the remote start switch located on the dash or directly at the generator itself. The hour meter installed on the generator calculates the number of running hours of the generator motor. This is used for maintenance schedules.

CAUTION

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

Consult the manufacturer owner's manual for detailed operating instructions.

Automatic Transfer Switch

Your unit may be equipped with an automatic transfer switch. When the generator is turned on, this switch automatically transfers from shore power to generator power. 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 the outside power source, a click will be heard in the transfer switch box. The sound is normal and indicates that the unit is changing over to the outside power source.

Automatic Generator Start

The Automatic Generator Start (AGS) is a feature that has been incorporated into the five-button Comfort Control Center. The AGS is a standard feature on your unit that will start the generator if there is no 110 VAC present when the thermostat calls for cooling. For example, if you have the A/C selected on the thermostat, but the unit is sitting where it is not connected to shore power (or if shore power fails), the AGS circuit will start the generator so the A/C's will function, and will run the A/C's until the thermostat is satisfied. At that point it will shut the genset off until the thermostat calls for cooling again. In order for this to work, there is a separate circuit board that controls the AGS circuit, and a dipswitch on the main A/C circuit board that must be tripped to "activate" the AGS function in the CCC display.

Consult the manufacturer owner's manual for detailed operating instructions.

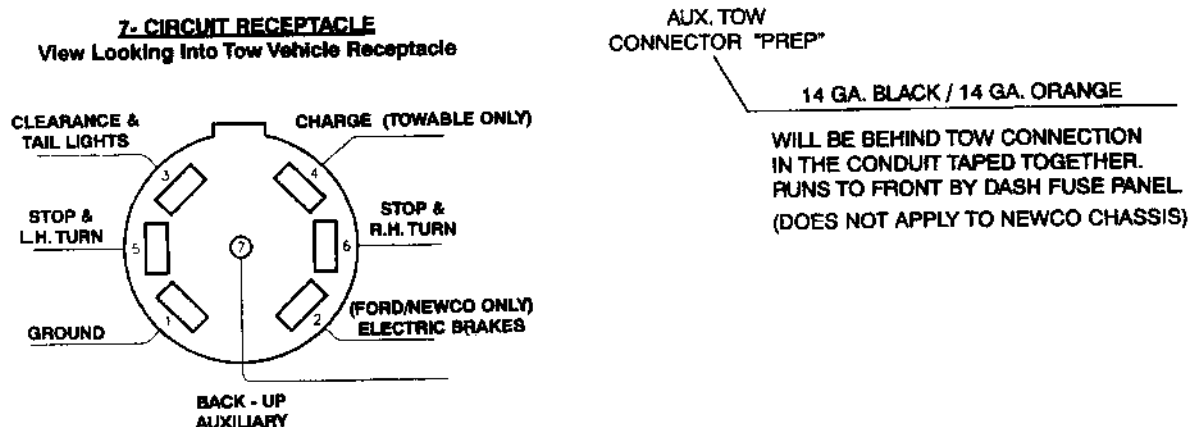
Notes

Wiring Connector

Standard on all Newmar motorhomes is the class three, 5,000# rating car towing hitch. This hitch also includes two extra 14 gauge wires for the customer's use. The hitch allows the consumer the capability of towing their passenger car while traveling. Also installed with the hitch is the wiring pigtail to connect tail lights, brake lights, turn lights, etc. of the towed vehicle with that of the motor home. The pigtail used is the standard seven-pin connector. The color scheme for the pigtail is as follows:

Stop & Left Turn SignalRed	Stop & Right Turn Signal . . .Brown	GroundWhite
Clearance & Tail LightsGreen	BrakesBlue	
Aux. Tow Connector Prep . . .Black	Back-up LightsYellow	

Below is the diagram of the tow plug. This view is looking into the tow vehicle receptacle. As stated above, this is a standard seven-pin pigtail.



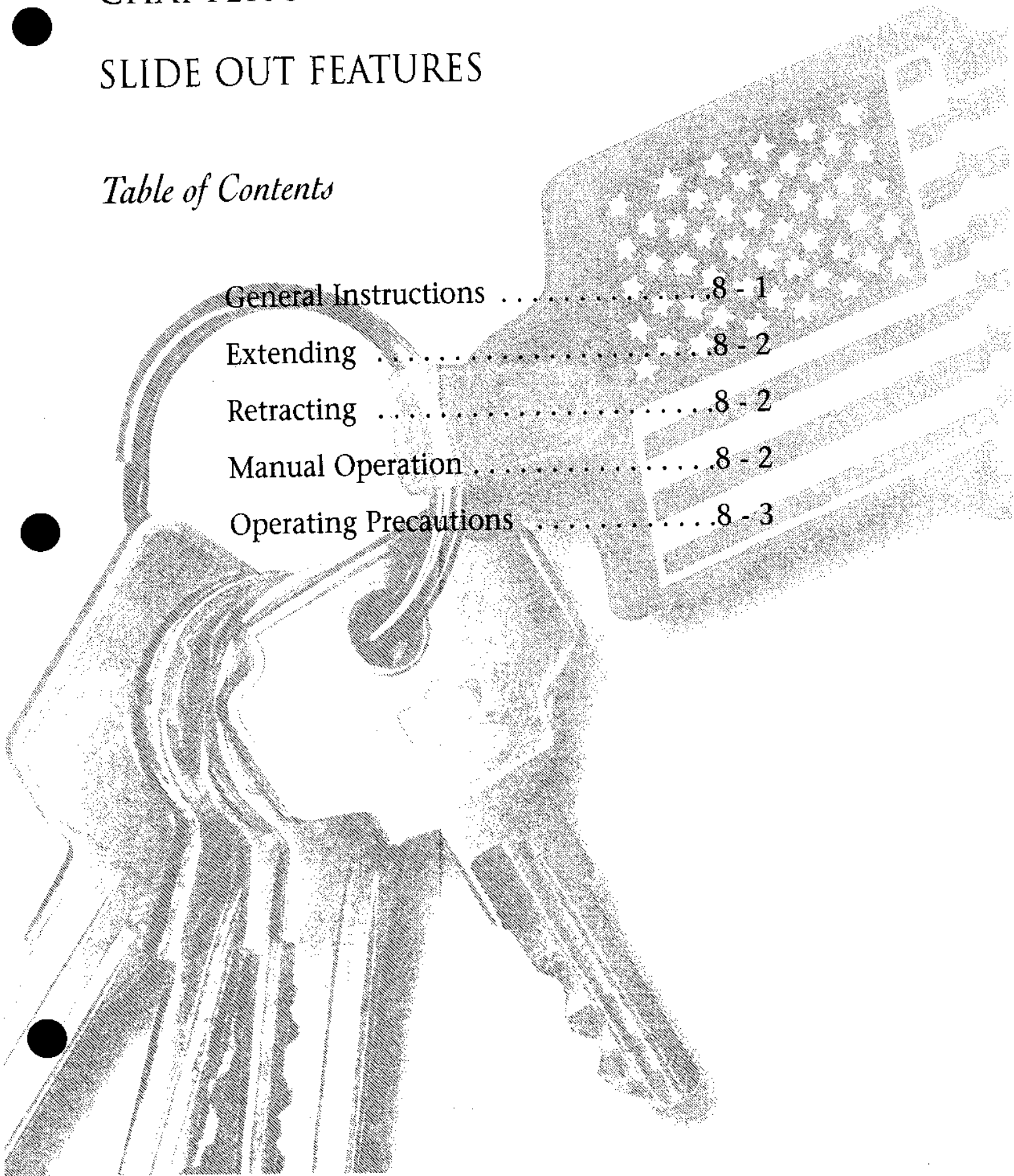
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CHAPTER 8

SLIDE OUT FEATURES

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WARNING

READ THE FOLLOWING SLIDE OUT ROOM INSTRUCTIONS BEFORE ACTIVATING THE SWITCH.

CAUTION

The leveling jacks must be extended and the unit level before operating the slide out.

GENERAL INSTRUCTIONS

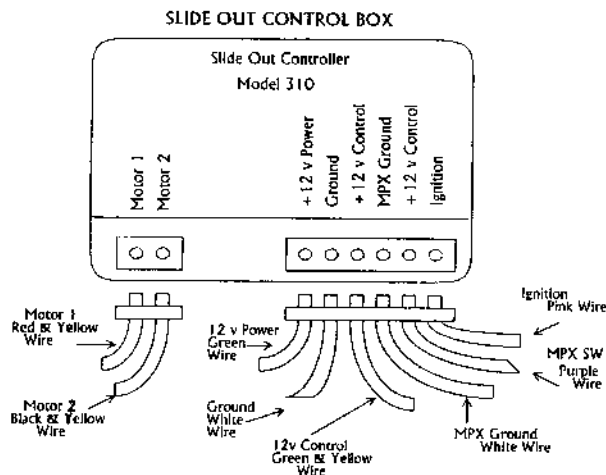
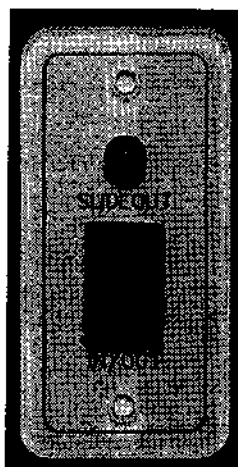
IMPORTANT

The slide out room should be inspected for alignment every six (6) months. If alignment is necessary, have the room adjusted.

1. The slide out room can be stopped at any time by activating the slide out switch. The room will reverse directions each time the switch is activated.
2. If the slide out room stops before reaching the full "OUT" or "IN" position, the slide out controller may need adjustment.
3. To adjust the slide out controller, turn the adjustment screw clockwise to increase the power and counter-clockwise to decrease the power.

CAUTION

Move the adjustment screw in small increments. Try moving the slide out room again. Use caution. There is a potential for component or structural damage if the screw is adjusted too high.

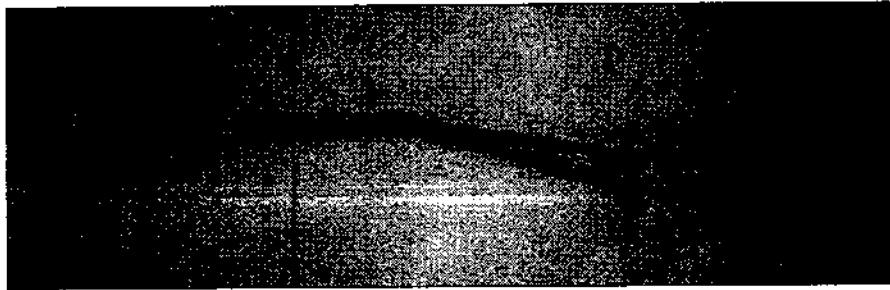


IMPORTANT

This screw does not adjust the slide out room speed. It sets the amount of power required to move the room against the mechanical stops.

Extending the Slide Out Room

1. The windows on the end of the slide out room must be closed before moving the room in either direction.
2. Before extending or retracting the room, look for and remove any obstructions.
3. Move the driver's chair forward before moving the slide out room in either direction.
4. Disengage the lock arms by pulling down on the center of the arm using the lock arm release tool, as required.
5. Activate the slide out switch. Once fully extended, the room will automatically stop. The indicator light will be lit while the room is traveling.



Retracting the Slide Out Room

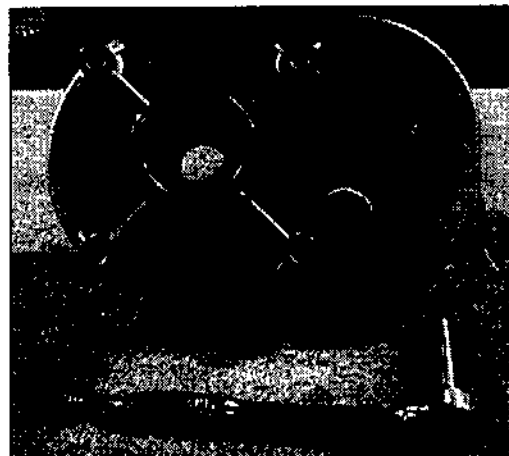
1. Activate the slide out switch. When fully retracted, the room will automatically stop. The indicator light will be lit while the room is traveling.
2. Before moving the coach, engage the lock arms by pushing the arm up into the locked position using the lock arm tool, as required.

Manual Extension & Retraction

SHAFT END-MOUNTED MOTORS

If the motor is mounted on the ends of the slide out shaft, use the following directions:

1. Access must be gained to the TRANS-TORQUE bushing coupling at the end of the slide out gear motor.
2. Using a $\frac{1}{2}$ " drive – $1\frac{1}{2}$ " open end wrench and a $\frac{1}{2}$ " drive ratchet wrench, loosen the $1\frac{1}{2}$ " nut. This will require approximately $1\frac{1}{2}$ turns. The nut is a standard right hand thread. After the initial release, the nut will turn for a partial turn, then will release again as you turn the wrench. This second release is required to loosen the TRANS-TORQUE bushing from the shaft.



SHAFT CENTER-MOUNTED MOTORS

If the unit is equipped with the K-900 slide out motor which is mounted near the center of the slide out room, use the following directions:

1. Access must be gained to the slide out motor located in the center of the slide out room.
2. The manual extension or retraction requires only a $\frac{5}{8}$ " socket and ratchet wrench. By placing the socket on the $\frac{5}{8}$ " hex nut located on the gear box of the K-900 motor, the slide out can be moved in either direction by turning the hex nut.
3. If the slide out does not move by using the hex nut, the room can also be extended or retracted by using the procedure described for the SHAFT END-MOUNTED MOTORS. If the room is moved using this method, the correct torque on the $1\frac{1}{2}$ " TRANS-TORQUE nut is 125 foot pounds MAXIMUM.



Slide outs with either the center or end mounted motors can be moved by pushing the room the full length of its travel in either direction. This method will require the assistance of at least two people.

IMPORTANT

The TRANS-TORQUE bushing must be re-tightened to re-couple the slide out gear motor before moving the coach. This will hold the slide out room in place. The correct torque on the $1\frac{1}{2}$ " TRANS-TORQUE bushing is 110 foot pounds maximum. The correct torque on the $1\frac{1}{2}$ " TRANS-TORQUE bushing of the K-900 motor (center shaft motor) is 125 foot pounds maximum.

Operating Precautions

Before extending the slide out, make sure that the unit is level.

WARNING

Before extending the slide out, make certain that there is a minimum of five (5) feet of clear space on the slide out side of the unit. Prior to extending the room, be sure to unlock the slide out locking arms.

Make sure there are no obstructions either inside or outside the unit that may interfere with the slide out extension. Tree branches, bushes or telephone poles can cause extensive damage to the exterior of the unit.

CHAPTER 9

EXTERIOR FEATURES

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EXTERIOR FEATURES

Hitch

On the rear of this unit you will find a 10,000 pound car towing hitch. This hitch includes two extra 14 gauge wires for the customer's use. This is installed for towing passenger cars to be used when the vehicle is parked. The wire connector installed with this hitch is a standard seven-pin connector. For more information on the connector, please see Chapter 7 of this guide.

Exterior Sides

The exterior sides of this unit are constructed of gel-coated fiberglass. Clean the fiberglass material with a mild cleanser and warm water. Use only soft cloths. Using stiff bristle brushes may cause scratches in the fiberglass surface. Please note, Newmar is NOT responsible for weathering/oxidation of gel-coated surfaces. Fully painted exterior graphics with a clear coat finish are also standard on this unit.

Lighted storage compartments are located on the exterior sides of your unit. These compartments provide additional space for your belongings while you are traveling.

Security Lights

Standard on your coach is one security light installed on each side of your unit. The switch for these lights is located inside the entrance door. As an option, two security lights may be installed on each side of your unit.

Roof

This unit is manufactured with a gel-coated fiberglass roof and top wrap. Proper care and routine maintenance of your roof is necessary for trouble-free performance. See chapter 14 for cleaning instructions. A roof rack and ladder are standard features. The ladder will assist you in gaining access to the roof for routine inspections and maintenance.

Hydraulic Leveling Jacks

WARNING

If the vehicle is equipped with a slide out, do NOT operate any room extension until the leveling and stabilizing procedure is complete. Do NOT retract the leveling system until the slide out room has been retracted. NEVER operate the leveling system when the slide out is extended.

This unit is equipped with hydraulic leveling jacks with automatic control and air dump features. These jacks can be operated by the fully automatic method or the manual method. In either case, the jacks work in pairs: front, right side, left side, and rear. Before extending,

using either method, the engine must be off, the ignition switch must be in the "ACC" position, and the transmission must be in park. The park brake needs to be set, either manually or automatically.

CAUTION

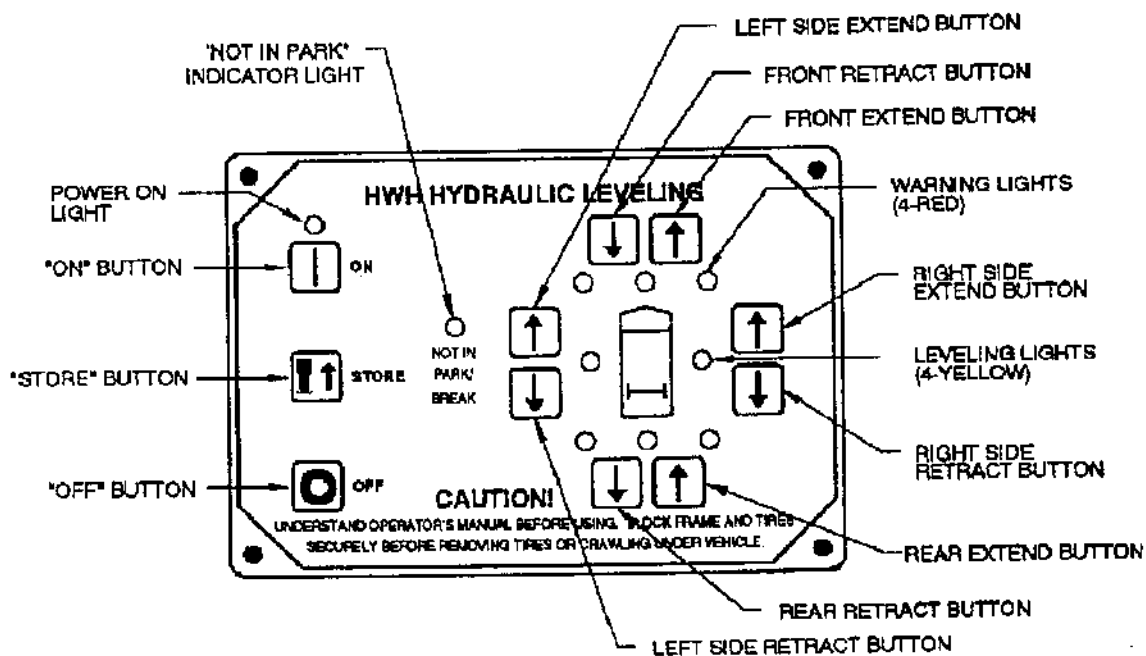
Do not lift the wheels off the ground when leveling. The unit can roll forward or backward when supported only by the jacks.

IMPORTANT

If the hand/auto park brake is not set, the "NOT IN PARK/BRAKE" light will come on when the "ON" button is pushed. The panel will turn on, but the system will not operate.

Automatic Method

To extend, press the "HYD" button on the HWH control panel. The indicator light will illuminate. By pressing the "HYD" button a second time, the indicator light will flash. The coach will level automatically. Once leveled, the system will shut off. To retract the jacks, start the engine and allow the air pressure to build. Press the "HYD" button once. The indicator light will illuminate. Press the store button and the store indicator light will flash as the jacks retract. Once the travel light is on, the coach may be moved. Again, the system will automatically shut off. It is recommended to visually verify that the jacks have raised and are not on the ground prior to moving the vehicle.



Manual Method

To extend, press the "HYD" button on the HWH control panel. The indicator light will illuminate. Press the "DUMP" button and continue holding the button until the air is dumped from the system. On the right hand portion of the touch panel note the outline of the coach and the various up and down arrows touch buttons. Press the respective up arrow button to raise the respective side or end of the coach. A yellow light to the front, side, or rear of the coach outline indicates which side or end is low. The down arrow buttons will lower the coach.

Electric Steps

This unit may be equipped with electric double entrance door steps. If these steps are installed, the switch to operate them may be located in an overhead cabinet above the entrance door. When the power switch for the steps is in the on position, simply open the door and the steps will open. Detailed operation for the electrical entrance door steps is as follows:

1. Turn the step power switch on.
2. Close the door. The step should retract and lock into the up position.
3. Open the door. The step should extend and lock into the down position.
4. Turn the step power switch off. The step should remain in the extended position with the understep light off when the door is closed. Turning off the power with the step retracted will hold the step in a retracted position as well.
5. With the step extended, turn the step power switch off and close the entrance door. Turn the vehicle ignition on. The ignition override system will go into effect, and the step will automatically retract.

CAUTION

If the vehicle is driven with the step in the extended position, there is the possibility of causing major damage to both the step and the vehicle.

6. Turn the vehicle ignition off and open the door. The step will extend and lock in the down position.

CAUTION

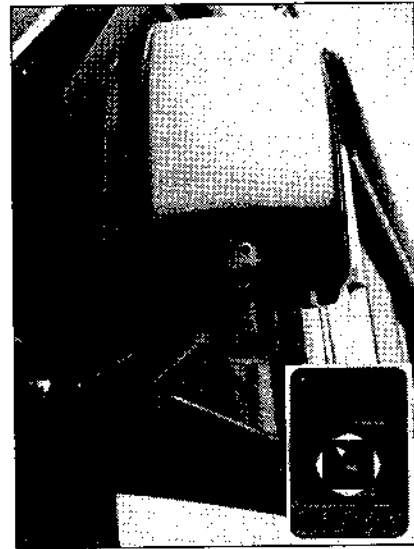
If the door is opened and closed without allowing the step to fully extend and lock in the 'DOWN' position, the step will retract and lock in the 'UP' position. When the door is reopened, the step will not extend. The power switch must be turned on for the step to extend.

7. This feature is only operative the first time that door is opened after the vehicle ignition is turned off. When the ignition is on, the step will always activate with the door movement, regardless of the step power switch position.

MIRRORS

This vehicle may be equipped with remote powered convex exterior chrome rear view mirrors. Remember to always adjust the mirrors for maximum rear visibility prior to driving. Also, make sure the seat is positioned for proper vehicle control.

The mirrors are adjusted by using a multiple directional switch located on the driver's door. Select the mirror to be adjusted by pointing the arrow in the direction of that mirror. Move the control in the direction of movement desired to obtain the best view. The adjustment control moves the top half of either mirror.



The bottom half of the mirrors are convex mirrors. They will need to be manually adjusted from outside the unit. Before adjusting the lower mirrors, you will need to loosen the set screws with an Allen wrench. If the mirror is moved without loosening this screw, the mirrors may break.

The mirrors also contain heating elements to defrost or de-ice the mirror glass during cold weather operation. The ON/OFF switch for this feature is located by the adjustment control.

Also part of your unit's standard package is an interior rear view mirror electronic compass and temperature display feature.

IMPORTANT

Objects viewed in convex mirrors appear smaller and farther away than they actually are.

Notes

CHAPTER 10

INTERIOR FEATURES

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INTERIOR FEATURES

Bedsread

All units have a decor matching fitted bedsread enclosed as part of the standard package. The recommended cleaning instructions for this spread are DRY CLEAN ONLY. The materials that make up the spread may have been treated, and dry cleaning will preserve this treatment.

Flooring

The floor covering in the living room and bedroom of the unit is filament nylon carpeting with scotchguard stain release. In the kitchen you will find a decorative area rug. In the Owner's Information Package you will find literature supplied by the carpet manufacturer. This information will be helpful in maintaining and extending the life of the carpet. Please refer to this information for the carpet care and cleaning instructions. The standard floor covering in the kitchen, bath, and entry area may be ceramic floor tile. For everyday cleaning on this flooring, simply vacuum to remove loose dirt and debris. Mop occasionally, using a minimal amount of water. For more thorough cleaning, mop with a mixture of soap-free household cleaner and water (vinegar and ammonia both work well). Be careful not to saturate the floor with water; this could damage the flooring. Abrasive cleansers and scouring pads can scratch and damage the surface also. The optional floor coverings in the kitchen and bath areas is ceramic tile or 12" marble-look floor tile.

Ceiling

The ceiling in this unit is covered with a padded vinyl ceiling headliner. The recommended cleaning instructions are a soft cloth and mild detergent.

Window Treatment

The window treatment throughout this unit, except in the kitchen, is lined day/night pleated window shades and lambrequins. These shades have two sections. The first section visible when closing the shade is the "DAY" section. This material is translucent. Sunlight passes easily through the material into the unit. The second visible section is the "NIGHT" section. This material is a heavier, more opaque material. Very little to no light passes through it. It is generally used in the evening or when more privacy is desired. If any curtains are installed in this unit, cleaning instructions are DRY CLEAN ONLY. Water-based products are not recommended for cleaning fabrics. Water-based products may cause excessive shrinkage or fading. The kitchen and bathroom windows are equipped with a mini-blind. Sun shades are also installed on the driver and passenger side windows.

CHAPTER 11

PLUMBING & BATH FEATURES

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FRESH WATER SYSTEM

Kitchen Sink

In the kitchen you will find a Corian countertop with integrated sink bowls. The unit may have two sink covers to provide additional counter space when the sink is not in use. Cleaning care consists of washing with mild detergents and a soft cloth. Avoid using "S.O.S." type cleaning pads because they may scratch the surface. The faucet in the kitchen may be a single-handle high rise faucet with a waterfall spout.

Bath Sink, Shower & Accessories

In the bathroom you will find a Corian lavatory countertop with an integrated bowl. Use care when cleaning to prevent scratching the surface. The brass bathroom accessories include a towel bar, a towel ring, a tissue holder, and a robe hook. The shower installed is a fiberglass tub/shower with a glass shower door. The tub faucet with shower head, hose, and bracket may be decor coordinates with the sink faucet. As an option, an assist handle can be installed in the tub/shower.

Monitor Panel

The monitor panel allows you to check the approximate levels in the fresh, gray, and black water holding tanks, as well as the battery condition. The monitor panel is generally located above or near the entrance door. Simply press the button of the item to check its status. The empty indicator light will always light when the button is pressed. If the tank is full, all of the lights will be on. Lights are sequential and indicate the level in approximately $\frac{1}{4}$ tank increments. For example: If the tank selected is approximately $\frac{1}{2}$ -full, then the indicator lights E, $\frac{1}{4}$, and $\frac{1}{2}$ will be lit. On the right hand side of the monitor panel is the water pump switch. This switch controls the power going to the water pump, turning it either on or off.

Monitor Panel Calibration

The monitor panel comes to you factory calibrated for accuracy and should not need to be adjusted. In the event that the system does not read accurately, then re-calibration may be necessary. The procedure for re-calibration is simple: First, fill the tank to be re-calibrated. Second, using the adjustment tool enclosed in the Owner's Package (or any small flat-bladed screw driver), simultaneously push the button for that tank and rotate the adjustment screw located above the button and behind the face plate counter-clockwise until some of the lights turn off in sequence. Then slowly rotate the adjustment screw clockwise until the full light is completely on. Repeat this procedure as necessary for the remaining tanks. The system is now calibrated properly.

Water Pump

The water pump is self-priming and totally automatic, operating on demand whenever water is required. The water pump switches may be located in the bathroom, above the entrance door and in the water works compartment near the gate valves. The water pump is used to pressurize the fresh water system when the unit is not connected to city water. To start the pump follow these instructions:

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.
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.
7. Never allow the pump to run for long periods of time without water in the supply tank. Pump damage or blown fuses may result.

If water doesn't flow when a faucet is turned on while using the demand system, use the following trouble shooting chart:

SITUATION	SOLUTION
Pump running - no water	1. Fill tank 2. Clear the water line to the pump
Pump doesn't run	1. Check the pump switch 2. Check the 12 volt fuses 3. Check the electrical connections 4. Check the battery

All of the water should be drained from the fresh water system when the unit is not in use for more than one week. For more detailed information regarding the water pump, refer to the water pump manufacturer's brochure in your Owner's Package.

City Water Hook-Up

When connecting your unit to city water, be certain to use a water hose manufactured and labeled for potable water. This will ensure that the hose will not alter the taste of the water. To hook the city water supply to the unit, connect one end of the hose to the city water supply. This will usually be a faucet or valve similar to your garden hose valve at home.



Turn the city water supply on for a few seconds in order to clear the line. Once the hose has been flushed, turn the supply off. Connect the other end of the hose to the city water connections. Turn on the water supply and open all of the faucets to clear the air from the lines in the unit. Once air pockets have been purged from the water lines and water flows freely, close all of the faucets. The city water supply is under pressure, therefore the water pump is not necessary when connected to city water. Once the city water fill valve is opened, water is supplied to the fresh water system including the hot water heater, faucets, and stool. To disconnect from the city water supply, close the valve and remove the hose from the city water supply. Disconnect the hose from the city water connection and store the hose in the water compartment.

Fresh Water Tank Fill

The fresh water tank is filled from the city water hook-up. The valve located in the service compartment near the water hook-up determines whether the city water is going through the water system or into the fresh water tank. An additional way to fill the fresh water tank is with the winterizing intake hose placed in a bucket of water (See Chapter 14). Since there is not an automatic shut-off for the fresh water tank fill, check the level from the monitor panel while filling the unit. 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. All of the water should be drained from the fresh water system when the unit is not in use for more than one week. Whenever possible, drain the fresh water tank before traveling. Water in the tank will reduce the carrying capacity of the unit.

SANITIZING

To assure complete disinfecting of your fresh water system, it is recommended that the following procedure be followed on a new system, on one that has not been used for a length of time, or one that may have become contaminated. This procedure is also recommended before long periods of storage, such as over the winter months:

1. Drain the fresh water tank by opening the drain valves. There is one valve per water tank. All of the faucets should be in the closed or off position.
2. Prepare a chlorine solution using one gallon of water and $\frac{1}{4}$ cup of chlorine bleach

(5% sodium hypo-chlorite solution). Prepare enough of the chlorine solution to administer one gallon of solution for every 15 gallons of tank capacity. For sanitizing this unit, prepare 4½ gallons of the chlorine solution. This mixture puts a 50 PPM (parts per million) residual chlorine concentration in the water system that will act as a quick kill dosage for harmful bacteria, viruses and slime forming organisms. Concentrations higher than 50 PPM may damage the water lines and/or tank.

3. Once the fresh water tank is empty, close the drain valves on the water tank.
4. Pump the chlorine solution into the tank. This is done by placing the winterizing hose into the chlorine solution. Close the valve from the fresh water tank to the pump and open the valve from the solution to the pump. Turn the tank fill valve from city water to tank fill. Turn on the water pump until all of the solution is pumped into the fresh water tank.
5. Turn off the water pump. Close the valve to the solution. Open the valve from the tank to the water pump. Fill the water tank with the city water tank fill (or by using the same method as was used to put the sanitizing solution into the tank). Remove the water filter (from the drink dispenser faucet, if installed) and install the by-pass pipe to allow the sanitizing solution access to the faucet. Open each faucet in turn including the kitchen faucet, bath faucet, inside and outside shower, turning on both the hot and cold, and flushing the stool until all of the air has been purged from the pipes and the water runs freely. The entire system will then be filled with the sanitizing solution.
6. Allow the 50 PPM disinfecting solution to stand in the system at least four hours.
7. Drain the system and flush with fresh water. The water system needs to be flushed with clean water repeatedly, if necessary, until there is no chlorine taste or smell left in the system. To remove any excessive chlorine taste or odor that might remain, prepare a solution of one quart vinegar to five gallons of water. Allow this solution to agitate in the tank for several days by vehicle motion. Drain the solution and refill the tank with clean water.

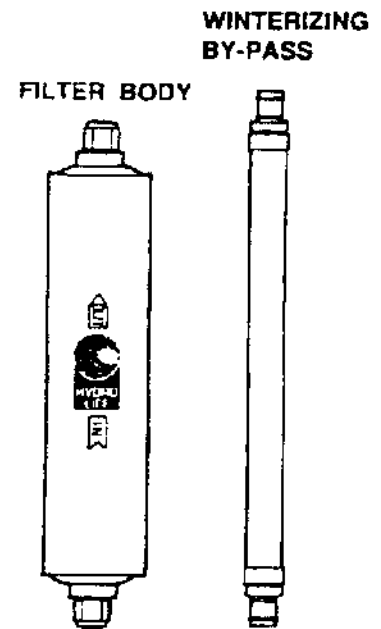
Fresh Water Lines

Vibration and flexing during traveling can cause pipes and fittings to work loose. Check all of the plumbing connections for leaks on a yearly basis. If the water pump runs when all faucets are turned off, check for a leak. Be sure the drain valves are closed. Connections at the kitchen and bathroom faucets normally seal with hand tightening and a half turn with a wrench. If a fitting leak persists, disconnect it completely and check for mineral deposits or foreign material on the sealing surfaces. Clean the surfaces thoroughly and reinstall the fitting. Take the coach to an authorized service center for repairs if the system continues to leak. Follow the winterizing instructions given in Chapter 14 to reduce the risk of leaks caused by cracks from freezing pipes. Freezing damage can be extensive and expensive.

Notes

Drink Dispenser with Water Filter

Before disinfecting the fresh water system, remove the water filter and install the by-pass pipe to allow water access to the drink dispenser faucet. The water filter is located under the kitchen sink. The filter will remove chlorine, dirt, and other matter. It will also eliminate most phenol (or similar) odors and tastes while delivering sparkling, taste free water for drinking and cooking. The filter is connected only to the cold water line that is attached to the drink faucet. The filter is not guaranteed to remove the tastes and odors of iron and sulfur. To remove these tastes you will need to chlorinate the water. Replacement filters are available that will filter iron and sulfur. Ask your dealer or RV supply center about acquiring an iron and sulfur filter. If you are traveling in an area where the water has a high iron and sulfur content, then add 1 tablespoon of chlorine bleach to every 10 gallons of water in your tank. This will precipitate the iron or sulfur so that the filter can remove it. If you are at a site where the unit is hooked up to city water, you will not be able to chlorinate the system because the water flows straight to your faucets and not through the fresh water tank. Filters should be changed every 6 - 12 months depending on the quality and quantity of water that is used in your unit.



WASTE WATER SYSTEM

General Information

The waste drainage system was designed to provide adequate and safe storage and/or disposal of waste materials. All of the materials used in the making of this system are tested by a nationally recognized testing laboratory. The drainage system uses plastic piping and fittings connected to the sinks, toilet, and holding tanks. This provides for their drainage to an outside termination. The unit should be reasonably level for best operation of the system. There are two separate waste systems. The gray water system is for waste water from the sinks and shower. The black water system is generally for sewage waste from the stool. Each tank has its own control valve, and both tanks drain through the sewer drain hose.

Toilet

The toilet in your unit may be a china stool. The toilet operates with water from either the fresh water tank with the water pump on or the city water supply. Before using the stool, add water to the bottom of the tank. Refer to the "BLACK WATER TANK" instructions in this chapter. The stool flushes waste directly into the black water holding tank. The stool uses

high velocity water injection to produce a swirl effect in the bowl. The greatest problem that causes stool solids to build up in the holding tank is lack of liquids. When using your stool, it is wise to fill the stool 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. To add water to the stool bowl, lift or raise the flush lever until the desired water level is reached. To flush the stool, push down on the lever until the water swirls. A small amount of water should remain in the bowl.

The stool should be cleaned regularly for maximum sanitation and operational efficiency. Clean the toilet bowl with a mild bathroom cleaner. **DO NOT USE CHLORINE OR CAUSTIC CHEMICALS, SUCH AS LAUNDRY BLEACH OR DRAIN OPENING TYPES, AS THEY WILL DAMAGE THE SEALS IN THE TOILET AND DUMP VALVES.**

Refer to the toilet manufacturer's owner's manual in your Owner's Package for complete instructions and a troubleshooting guide.

P-Traps

Each of the sink drains, the shower drain, and the washing machine drain (if equipped) has a water trap (P-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 splash out of the sink and shower drains. 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.

Black Water Holding Tank

The black water, or sewage, holding tank is located directly beneath the toilet. Before using the stool, you will need to treat the tank with water that is mixed with an odor controlling chemical. These chemicals are readily available at any RV supply store. Be careful not to spill the chemical on your hands, clothing, or the carpet because it may cause a permanent stain. Pull the toilet levers forward to allow the chemical to mix with the toilet water. Continue pulling the toilet levers until at least one inch of solution is directly under the toilet. Release the levers, and the waste tank is ready for use.

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.

Gray Water Holding Tank

The gray water holding tank is located in the underbelly of the unit. It is primarily used for the drainage from the kitchen and bath sinks and the shower.

Waste Water Disposal

Both of the holding tanks terminate in a valve arrangement that permits draining each tank separately or together. It is recommended to drain the black water tank before the gray water tank. This will allow the water from the gray tank to wash the black water residue from the drain lines and hose. 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 when the protective cap is installed on the pipe. Always drain the tank into an acceptable sewer inlet or dump station.

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.

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.

The holding tanks should only be drained when they are at least $\frac{3}{4}$ full. Doing this will provide sufficient water to allow the complete flushing of waste materials in the drain lines and hose. If the tanks are not $\frac{3}{4}$ full, add enough water to allow for sufficient flushing.

To empty the waste water tanks, connect the adapter to the drain hose. Use the adapter supplied with your unit. If the adapter is lost or broken, one can be purchased from any RV supply store. Once you have placed the adapter on the drain hose, it can remain there for the life of the hose. One end of the hose threads up through the hole in the bottom of the service compartment, and the other end of the hose feeds into the sewer at the dump station. Unscrew the cap off the drain. Connect the hose with the adapter in place to the drain fitting. 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. After you have drained the black water tank, immediately drain the gray water tank. Doing this helps to flush the black water from the sewage hose.

When both of the tanks are empty, flush them with a fresh water rinse before you close the valves. The gray tanks are easily flushed 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. Always close the gate valves and secure the end cap to prevent leakage while in transit. After draining the black water tank, it is recommended to add a holding tank deodorant (such as Thetford Aqua-Kem) to help control the odor and break down the solids. Follow the instructions given on the holding tank deodorant package.

When using dump stations for draining the holding tanks, keep other travelers in mind. Practice good housekeeping. Leave the dump stations in good order. Above all, do not pollute.

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 again, 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.

CAUTION

The gray tank valve needs to be in the open position when operating the optional washing machine.

No Fuss Flush

This unit is equipped with a flushing system for the holding tanks. 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. This will clean the inside of the tank of any debris that may be left inside the tank. After this is done, disconnect the water hose and close the gate valve. When unsure if any solids are still left inside the tank, fill the sewage tank with approximately ten gallons of water 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.

CAUTION

Do not use the same hose for the No Fuss Flush that is used for filling the fresh water tank.

Exterior Wash Station

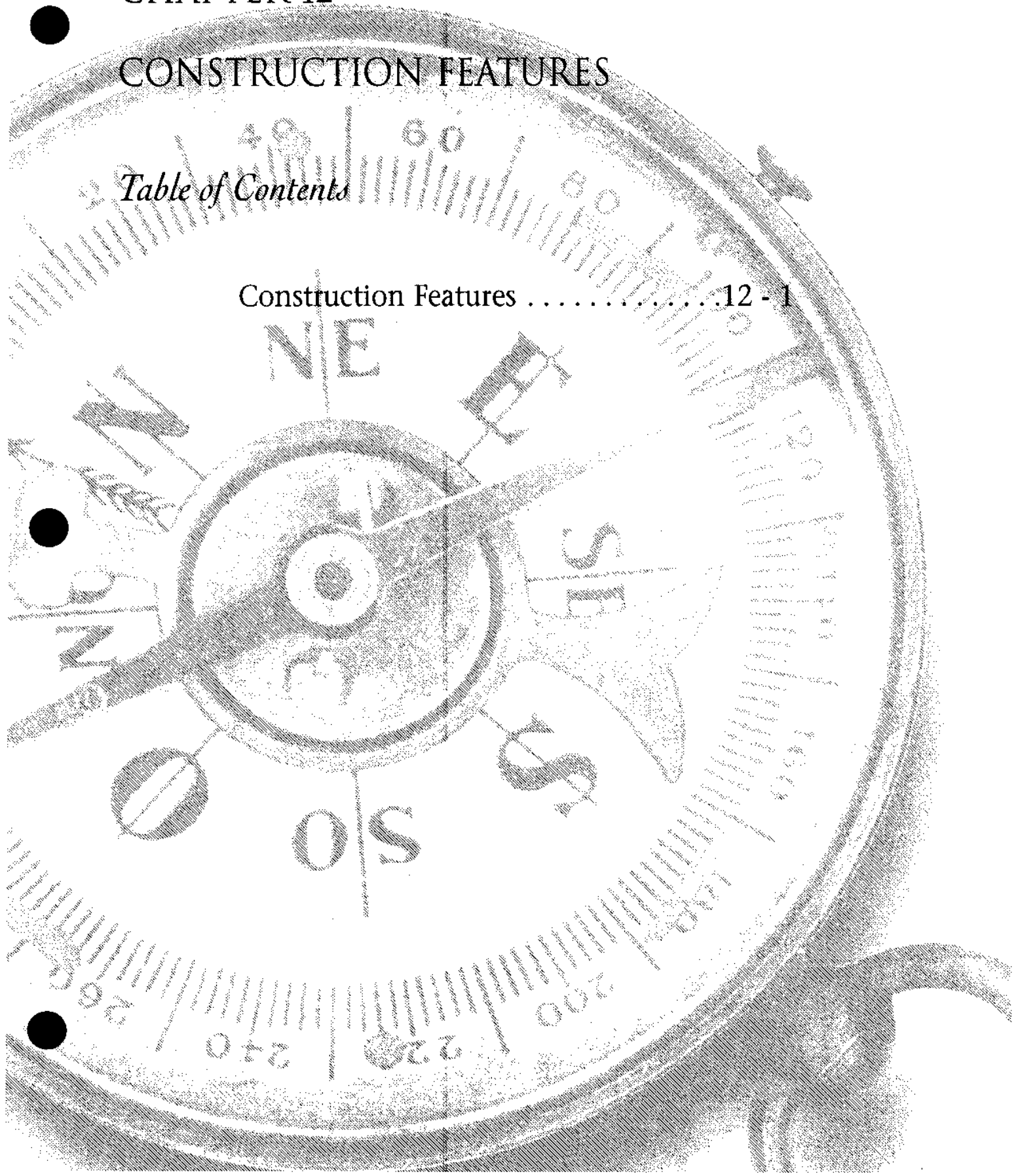
Located on the exterior of your coach you will find a wash station. This wash station is added for your convenience and includes hot and cold water, a soap dispenser, and a towel dispenser. Remember to winterize this system when storing your unit for the winter.

CHAPTER 12

CONSTRUCTION FEATURES

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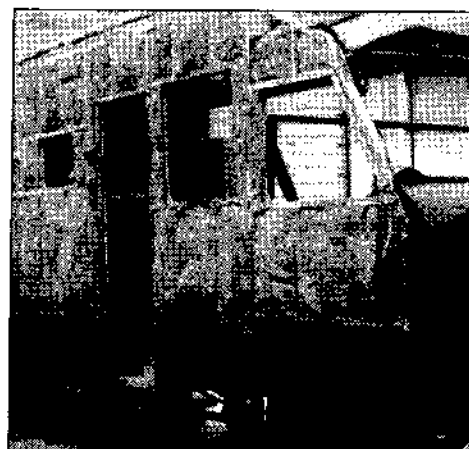
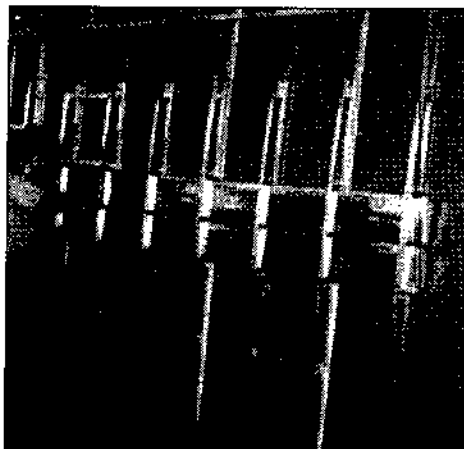


CONSTRUCTION FEATURES

The floor decking is constructed of durable $1\frac{9}{32}$ " structure wood. The fiberglass insulation in the floor and sidewall is rated at R7, while the roof is rated R11.

On this model, each sidewall is constructed for strength and is well insulated for comfort. Welded for added strength the extruded aluminum sidewalls and roof are built with 16" on center framing to provide a strong and durable construction. The inside consists of $\frac{5}{8}$ " beaded foam that is laminated to kraft paper and covered by the interior paneling. A blanket of rolled insulation is added to the sidewalls, roof, and slide out to provide a greater efficiency and consistency of climate control. This will assist the furnace in the winter by keeping the warm in and the cold out. In the summer months it will assist the air conditioning by keeping the cool air in and the hot air out.

Below are examples of the framing and insulation similar to that in your unit.



CHAPTER 13

WINDOWS, AWNINGS, VENTS & DOORS

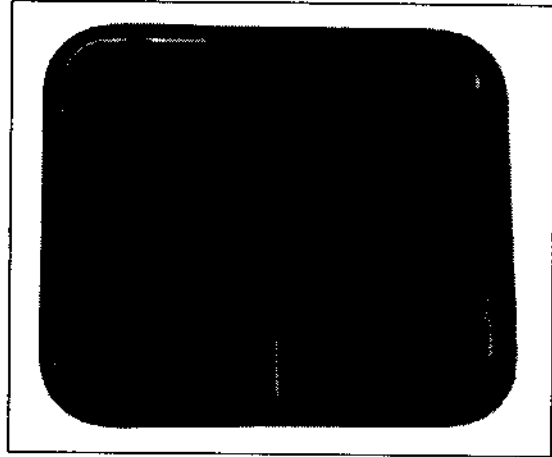
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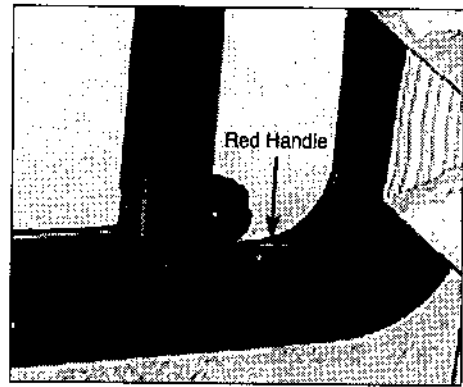
WINDOWS

The windows installed in the living area of this unit may be the radius torque style. These windows are also referred to as jalousie windows. All of the windows have radius corners with dark tinted safety glass. On this unit, double pane windows may be standard. A power window is also standard on the driver's side.

You will also find that power activated sun visors are features on your coach.



In the bedroom of the unit, one window will be marked "EXIT." This window is an emergency escape, or egress, window. To open in case of an emergency, lift the red handles at the bottom of the window and push out.



Notes

[illegible]

AWNINGS

Side Awning

The side awning may be a standard feature on this unit. To operate, follow these instructions:

EXTENDING

1. Loosen the black adjustment lock knob behind each main arm. Flip the travel lock latches up.
2. Using the provided pull rod, reach up and pull the locking lever forward to release the awning.
3. Hook the rod into the loop of the pull strap and pull the awning all the way out.
4. Slide one rafter arm up until it snaps into place. Push down on the main arm to remove slack from the fabric, and tighten the black adjustment knob. Repeat on other side.
5. Slide the pull strap to the right end of the roller and wrap it around the main arm.
6. Pull up on the lift handle and raise the arm assembly to the desired height. Swing the handle in and allow the lock button to snap into one of the holes. Repeat on the other side.
7. Press the release lever at the bottom end of one main arm, pull the arm assembly outward to a vertical position, and readjust height. Repeat on the other side. Drive provided stakes through holes of each patio foot into the ground.
8. During rain, lower one end to allow water to flow off.

CAUTION

Whenever heavy or prolonged rain or wind is anticipated, or you will leave the awning unattended, it is best to close the awning. Damage as a result of weather is not covered by warranty.

RETRACTING

1. Pull the stakes from the ground, swing the arm toward the vehicle, and snap the patio foot into the bracket. Repeat on the other side.
2. Raise the lift handle to release the lock button. Lower the main arm to the stop plug. Swing the handle in to engage the lock button in a hole. Repeat on other side.
3. Loosen black adjustment knob, lift slider catch, and slide the rafter arm down to the bottom of the main arm. Leave the black adjustment knob loose. Repeat on other side.
4. Grasp the pull strap and pull toward you. Flip the locking lever to the ROLL UP position. Hold the awning in the down position until you are ready to roll up the awning.

CAUTION

The awning will try to roll up as soon as the locking lever is flipped to the "ROLL UP" position.

5. Slide the pull strap to the center and using it to control speed, allow the awning to return to the side of the vehicle. Allow the strap to wind diagonally to prevent a bulge in the fabric.
6. Tighten the black adjustment knob and flip the travel lock latch down. Repeat on other side. The awning is now ready for travel.

Window Awning

A standard feature on this unit may be matching window awnings. To operate, follow these instructions.

EXTENDING

1. Grasp the loop on the pull strap and pull down to extend the awning. Then hook the loop onto the window strap hanger.

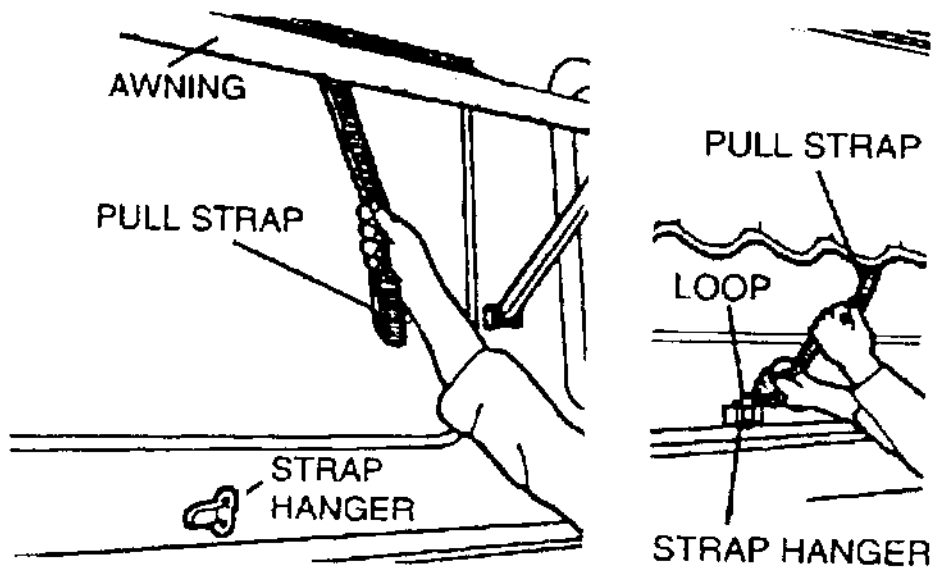
RETRACTING

1. Remove loop on the pull strap from the window strap hanger.

CAUTION

Do not release the strap as the window awning is under tension and may snap back against the vehicle.

2. Slowly allow the awning to roll back to the closed position by feeding the pull strap upwards and diagonally. This prevents the strap from building up and creating a bulge in the fabric.
3. The window awning is now ready for travel with no further locking required.

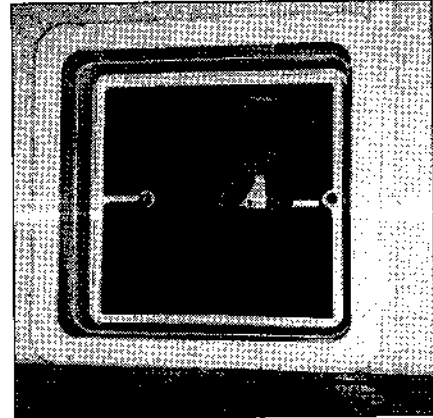


Vents

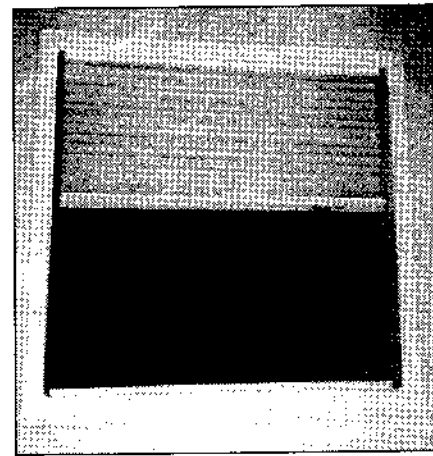
The standard vent in the kitchen may be a 12 volt vent equipped with a rain sensor on the roof hood. Anytime the vent is open and it senses rain, it will automatically close. The vent is controlled by the wall thermostat. Once powered "ON" and the desired temperature is selected, the vent will run until the temperature is reached. When the temperature is reached, the vent will automatically shut off.

Do not leave the fan in active mode while the unit is in storage or unattended for long periods of time. High winds or other unusual conditions or obstructions may prevent the vent from closing resulting in leakage, which could cause serious damage.

The vent installed in the bathroom may also be a vent equipped with a rain sensor and operates the same way the one installed in the kitchen does.



The installation of the skylight in the bathroom may be a standard feature on this unit. It will be located above the tub/shower.



Doors

The front entrance door is a radius door with a dead bolt lock for added security and a power flush stepwell cover. When the door is opened fully, the door hinge will automatically hold the door open. To close the door from the open position, either the inside or outside handle must be released for the door to move. For your safety, a lighted acrylic assist handle has been placed at the entrance door.

CHAPTER 14

ROUTINE MAINTENANCE

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EXTERIOR CARE

IMPORTANT

Damage caused by improper or unapplied maintenance is not covered by your Newmar Limited Warranty.

Washing

The exterior of your new recreational vehicle is made of pre-finished aluminum and fiberglass. Frequent washings and thorough cleanings are required to prevent damage to the vehicle finish after exposure due to damaging salts, calcium chloride, road tar, tree sap, insects, and other foreign material. Damage caused by exposure to these items is not covered by your warranty agreement. Never wash the vehicle in direct sunlight, while the vehicle is hot, or with hot water. Build up of mud and dirt under the body can cause damaging rust on steel parts. Corrosive materials, such as those used for ice and snow removal and dust control, also accumulate on the underside of the vehicle. These materials should be removed by flushing the underbelly regularly with water, especially areas where mud and other foreign materials collect. The chance of corrosion can be minimized by frequent washings of the vehicle. When washing the vehicle, make certain that the undercarriage and the wheel wells are cleaned, as well as the exterior of the coach. Do not use strong soaps or detergents for washing the vehicle. Always use a mild soap in warm water, a commercially prepared product for automotive finishes, or your local car wash. Be careful when using a pressure-type washer to avoid loosening any exterior decals or sealants, etc. After washing, carefully inspect the caulking around window frames and vents and any other joints that may have separated. Recaulking, if necessary, is relatively simple and is considered routine maintenance which is the responsibility of the owner.

IMPORTANT

Never use a strong solvent, such as lacquer thinner, or harsh abrasives, on any of the exterior painted surfaces.

Waxing

The exterior finish 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.

IMPORTANT

When using a polishing compound that does not contain a wax preservative, reapplying a coat of hard wax after polishing is recommended.

Seals

The seals around doors, windows, vents, slide out trim and external seams should also be checked at least twice a year. In addition, the roof seams should be inspected twice a year for cracking or peeling. If deterioration is noted during a routine maintenance inspection, reseal the seams or seals with an approved sealant to prevent leaks. Your dealer can perform the resealing inspections and work for you. It is recommended that a Newmar Authorized Service Center perform these inspections and reseal when necessary.

Proper Sealants for Application

Plas-T-Cote	Metal or fiberglass roof
Surebond #SB-140	Rubber laminated to metal roof and <u>ALL SKYLIGHTS</u>
Carlisle #502-LSW	Rubber roof over wood base
Self Leveling Sealant	
Silicone Sealant	To cover butyl and other sealants; not to be used as the main sealant
Parbond	To seal across tops of windows, etc. on exterior where silicone is not used

Striping & Decals

The striping and decals on your vehicle require little maintenance. Treat these as you would any painted surface on your vehicle. Wash them with mild soap and warm water, or any retail car soap. Never wash the vehicle in direct sunlight, while the vehicle is hot or with hot water. Rinse thoroughly to prevent soap residue accumulation. Use caution with high pressure wash nozzles. Keep them at least 18 inches from the edge of the decals. High pressure water may cause the decals to loosen and peel. Test small sections of decals when using any type of cleaning solution.

IMPORTANT

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 or paint on 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.

Roof Care & Maintenance

Proper care and maintenance of your recreational vehicle, including your roof is important for trouble free performance. Normal maintenance is simple and easy and does not require special materials.

Keep the roof clean. Clean the roof at least four (4) times annually. For normal cleaning: Clean the fiberglass material with a mild cleanser and warm water. Use only soft cloths. Using stiff bristle brushes may cause scratches in the fiberglass surface. Please note, Newmar is NOT responsible for weathering/oxidation of gel-coated surfaces.

WARNING

Use caution when working on top of your vehicle. The wet roof membrane may be extremely slippery.

Battery Inspection & Care

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.

CAUTION

Disconnect the 120 volt electrical power cord and the negative terminal from the coach batteries before working on the electrical system.

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 and case. 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. 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. 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.

The batteries should be removed and stored in a warm place when not using your motorhome for an extended period of time. Mark the cables, positive and negative, for easy identification. Batteries are not to be stored on concrete floors. The batteries require periodic charging during storage. If the motorhome is to be stored for a long period of time, it is recommended that all of the batteries inside the unit be removed from clocks, radios, smoke alarms, etc. This will prevent unnecessary drain and corrosion of the batteries. The coach batteries are 6 volt RV/Marine deep cycle batteries. This type of battery consumes water and must be filled periodically. **Please be sure to check the battery water level on a regular basis.** Consult the owner's manual supplied by the battery manufacturer. This can be found in the Owner Information Package received with this unit.

INTERIOR CARE

WARNING

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. Proper ventilation should reduce the risk of such problems.

IMPORTANT

The fading of upholstery, carpet and other interior fabrics is generally caused by excessive sunlight. The drapes, blinds or shades should be kept closed when the vehicle is parked for an extended period of time to minimize the fading. Normal deterioration of appearance items due to wear and/or exposure is not covered by the Newmar Limited Warranty.

Carpet

A weekly routine of vacuuming the carpet and fabrics throughout the vehicle is recommended. Doing this will prevent an accumulation of dirt that can detract from the materials appearance and shorten its life. Remember to empty or replace vacuum bags before they become half full. In carpet areas that receive the most sunlight, close the curtains frequently to prevent fading. And act quickly when anything is spilled or dropped on the carpet.

Included in the Owner's Information Package is the carpet manufacturer's Carpet Care Guide. The Carpet Care Guide lists detailed information on cleaning soiled areas and removing stains from the carpet installed in the unit.

Fabrics

The fabrics used in this motorhome for the bedspread, draperies, headboard and valances contain fire retardant additives that may be damaged by the 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. Always test any cleaning product on a hidden area of fabric before using on visible areas. 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. Some stains or soils are extremely difficult or impossible to be removed 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.

Walls & Ceiling

The wall and ceiling coverings should be cleaned periodically to maintain a new appearance. Use a non-abrasive cleaner with a soft cloth on the walls. Do not use solvents of any kind. Solvents may damage the surface of the vinyl.

Dash

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, strong solvents, or other materials to clean the dash, as they will soften the plastic.

Woodwork

The wood cabinetry should be cared for with furniture polish to sustain the natural beauty and luster of the wood. This will also keep your cabinetry looking new and prevent the wood from drying. The simulated plank flooring should be protected from dents, scratches and nicks by installing protective pads on the bottom of chairs and tables. Use of area rugs and floor mats by the entrance door is recommended to trap dirt. To clean the flooring, begin by vacuuming the floor to remove loose dust and dirt. Then damp mop the floor with one ounce of Wilsonart Flooring Cleaner diluted in one gallon of clean, warm water (or use a non-abrasive, soap-free cleaner). The mop should be damp, not dripping. Do not use soap-based cleaners, scouring powders, steel wool, abrasive cleaners, wax or polish on the floor. To remove stubborn spots like shoe polish, oil, tar, markers, scuff, etc., use a household solvent, acetone or nail polish remover, then wipe with a damp cloth. To remove chocolate, grease, juice or wine, use warm water and a non-abrasive cleaner. To remove candle wax or chewing gum, carefully scrape off when the material has hardened. For further tips, please see the manufacturer's information sheet in your Owner's Information Packet.

Counter Tops

To care properly for the counter top in your new unit, always use a heat pad or trivet to protect the surface from hot objects that may mar or damage the surface. Wipe the counter top with a damp cloth to remove water spots. For stains, wipe with soapy water or ammonia based cleaners.

Accessories

The brass light fixtures, bath accessories and faucets can be cleaned by wiping with a soft, damp cloth. Washing with warm water will remove dry water spots. Do not use cleaners that contain harsh or abrasive chemicals. Alcohol or similar solvents should never be used.

Detectors

The CO and LP detectors are self-contained and DO NOT require any maintenance other than normal cleaning and dusting. The smoke detector installed in this coach is 9 volt battery operated. The battery needs to be tested periodically and replaced when necessary. 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.

Condensation

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. 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. This problem can be controlled by:

1. Slightly opening a window or roof vent to allow the moisture to escape from the unit.
 2. Using 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.
 - Newmar Corporation does not recommend the use of any catalytic heaters.

ROUTINE MAINTENANCE

IMPORTANT

Always follow the chassis maintenance guidelines found in the chassis manufacturer owner's manual.

All routine maintenance is the responsibility of the owner and is not covered by the Newmar Limited Warranty. Use the maintenance record found in Chapter 15 to record all performed maintenance as required. Please note that damage caused by improper or unapplied maintenance is not covered by the Newmar Limited Warranty.

Items supplied by other manufacturers may require specific individual maintenance not listed herein. Please refer to the manufacturers' suggested maintenance guidelines in the Owner's Information Packet.

IMPORTANT

Cosmetic adjustments and alignments must be performed within the first three (3) months from date of original purchase for warranty consideration. Thereafter, these items are considered routine maintenance.

Monthly

- Check battery water level.

Every Three (3) Months

- Clean range hood exhaust fan filter and blades.
- Check gas lines for leaks with soap solution or leak detector.
- Test smoke alarm, carbon monoxide detector and LP gas detector.
- Check operation of windows, latches and hinges.
- Clean the roof ducted air conditioner filter(s).
- Clean and inspect all door and window seals; reseal where necessary.
- Inspect and reseal around the tub and shower area where necessary.
- Lubricate the exterior door hinges and latches with a graphite (silicone) lubricant.
- Check, clean and tighten battery cables, and inspect batteries for proper fluid level.

Every Six (6) Months

- Inspect the slide out for proper seal. If realignment is necessary, please contact an Authorized Newmar Service Center.
- Inspect the exterior rubber slide out seals and apply a UV inhibitor, such as 303 Protectant.
- Rotate tires as recommended by the tire manufacturer.
- Check all gas appliances for proper operation.
- Have the LP system inspected by a qualified technician.
- Lubricate the moveable parts on the entrance step.

Annually

- Inspection of roof seams and joints should be performed by an Authorized Newmar Service Center. If resealing is necessary, it is the owner's responsibility and is not covered by the Newmar Limited Warranty.
- Sanitize the fresh water system.
- Wax and buff all gel-coat surfaces on the vehicle as described previously in this chapter.

Winterizing

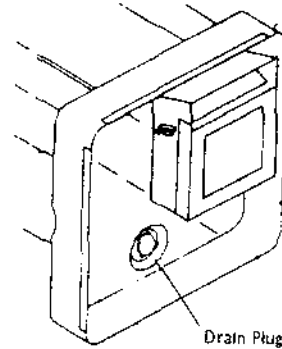
To store your unit for the winter months, it is necessary to winterize the water system to help prevent freezing. To do this, follow these instructions:

1. The water heater must remain off during this process. Shut off the water pump and

make sure the water supply valves are closed.

2. To drain the fresh water tank, open the drain valves.
3. Open the low point drain valves. There is one drain valve for each water line, one cold and one hot. This is done to drain all of the water out of the system.

4. After the water heater has cooled off, remove the drain plug to drain the water from the water heater. In the exterior compartment beside the water heater there are two water heater shut off valves and a by-pass valve. The shut off valves must be closed and the by-pass valve must be open, prior to winterizing to prevent the antifreeze solution from entering the water heater.



5. Close the low point drains to prevent the antifreeze from draining through the lines onto the ground.
6. Remove the water filter. See Chapter 11 for more information.
7. Close the water supply valve that flows from the pump to the tank.
8. Use only non-toxic antifreeze that has been approved for use in drinking/potable water systems. Place the in-take hose into the antifreeze supply. Open the antifreeze valve to allow the solution to flow freely. Once the water pump is turned on, proceed to the kitchen faucet, bath faucet, inside and outside shower, turning on the hot and cold, and flushing the stool until the antifreeze solution flows freely. If the unit is equipped with a washer, be certain to purge the air from it also. This forces the antifreeze through all of the water lines and faucets. It also allows the antifreeze solution to enter the drain lines and prevent the P-traps from freezing. Check the antifreeze solution from time to time to make sure there is an adequate supply.
9. Close the antifreeze valve when the winterizing process is complete. Store the in-take hose, and turn the water pump off.
10. Open the water supply valve that flows from the pump to the tank to help prevent freezing on that water line.
11. To de-winterize your unit, open both of the low point drains to allow the antifreeze solution to drain from the water system. Next, close the low point drains and connect your unit to city water. Put water in the fresh water tank and pump at least one gallon through the water pump in order to remove the antifreeze from the water pump. Keep the water heater supply valve closed and the water heater bypass valves open. The supply valve for the fresh water tank from the pump must remain closed. As in winterizing, open the kitchen faucet, bath faucet, inside and outside shower, turning on both the hot and the cold, and flushing the stool until the antifreeze solution is flushed out of the system and the water flows clear. Once the system has been flushed, open the water heater supply valve and close the water heater bypass valve. Open the fresh water tank supply valve from the pump and the ice maker valve. Reinstall the water filter. Be sure to close the fresh water tank drain valves to allow the tank to fill.

NOTE: Remember, that if your unit has an exterior convenience wash station installed you must winterize this system as well.

Cold Weather Use

Although great care has been taken to build a well-insulated unit, recreational vehicles are not intended for extended use in subfreezing weather without special precautions.

When the temperature drops below freezing, the furnace must be turned on to keep the unit warm. Continued use in cold weather will require the unit to be winterized.

Notes

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CHAPTER 15

CHARTS & DIAGRAMS

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IMPORTANT INFORMATION **ABOUT YOUR ESSEX** **DIESEL PUSHER MOTORHOME**

Coach: **Year** 2003 **Model** _____ **Serial #** 9 _____

Appliance	Brand	Model	Serial
Refrigerator	_____	_____	_____
Water Heater	_____	_____	_____
Range	_____	_____	_____
Converter	_____	_____	_____
Washer	_____	_____	_____
Dryer	_____	_____	_____
Microwave	_____	_____	_____
Icemaker	_____	_____	_____
Television, front	_____	_____	_____
Television, rear	_____	_____	_____
Radio	_____	_____	_____
CD Player	_____	_____	_____
Generator	_____	_____	_____
Air Conditioner, front	_____	_____	_____
Air Conditioner, rear	_____	_____	_____
Video Cassette Recorder (VCR)	_____	_____	_____
Furnace, front	_____	_____	_____
Furnace, rear	_____	_____	_____

MAINTENANCE RECORD

DATE	MILES	DESCRIPTION OF SERVICE WORK PERFORMED	SERVICE PERFORMED BY	COST	

MAINTENANCE RECORD

[illegible]

MAINTENANCE RECORD

[illegible]

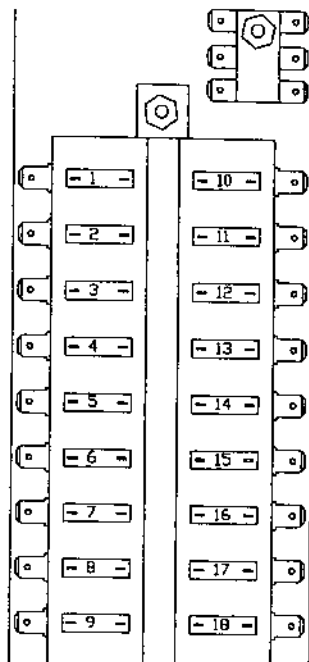
FUEL, OIL & MPG RECORD

[illegible][illegible]

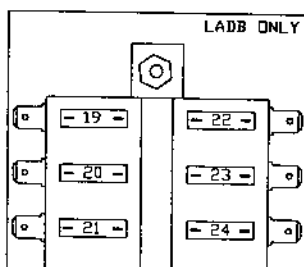
FUEL, OIL & MPG RECORD

[illegible][illegible]

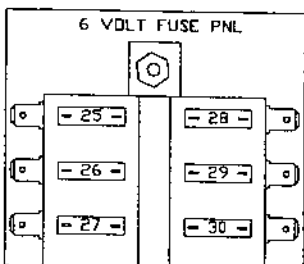
INTERIOR FUSE PNL



FUSE #	RATING (AMPS)	DESCRIPTION
1	20	TV/STEREO
2	20	KITCHEN LIGHTS
3	20	BEDROOM LIGHTS
4	20	SECURITY LIGHTS
5	20	WRAP LIGHTS
6	20	SLIDE-OUT LIGHTS
7	1	C.O. / LP DETECTORS
8	5	REFRIGERATOR
9	7.5	SATELLITE
10	20	FURNACE
11	20	LIVING ROOM/ENTRY LIGHTS
12	20	BATHROOM LIGHTS/FAN
13	10	MONITOR PANEL/ WATER PUMP
14	20	SLIDE-OUT MOTORS
15	7.5	FANTASTIC VENT/ WATER HEATER
16	7.5	AIR CONDITIONER CONTROLS
17	20	AWNING
18	7.5	ENERGY MANAGEMENT SYSTEM

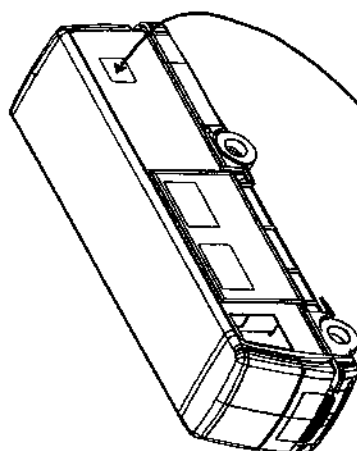


LADB ONLY		
19	20	LIVING ROOM LTS
20	20	KITCHEN LTS
21	7.5	AUTO GEN (EARLY 2002 ONLY)
22	20	SOFA
23	20	SLIDE-OUT LTS
24	20	BED LIFT

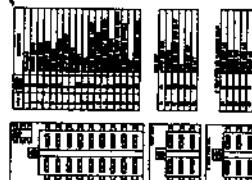


6 VOLT FUSE PNL (LADB, KADP ONLY)		
25	20	LIVING ROOM LTS
26	20	KITCHEN LTS
27	20	BEDROOM LTS
28	20	LIVING ROOM LTS
29	20	KITCHEN LTS
30	20	BEDROOM LTS

NOTE: ALL FUSE PANELS SHOWN MAY NOT APPLY TO EVERY UNIT.



LOCATED IN BEDROOM



50 AMP ELECTRICAL PANEL

load		protection	50 AMP MAIN		protection	load
1st	# 1	20 AMP			# 13	MAY HAVE 10 RECEPTS
AIR COND.					15 AMP	
MICROWAVE	# 2	15 AMP				
2nd	# 3	15 AMP			# 14	MAY HAVE 10 RECEPTS
AIR COND.					15 AMP	
WATER HEATER	# 4	15 AMP				
REFRIGERATOR	# 5	15 AMP			# 15	MAY HAVE 10 RECEPTS
FOOD CENTER & 5 RECEPTS					15 AMP	
CONVERTER & 5 RECEPTS	# 6	15 AMP				
DRYER	# 7	15 AMP			# 16	DISHWASHER
					15 AMP	
WASHER	# 8	20 AMP				

This is a 50 Amp 220 service

50 Amp lead in cord to box = 6/3 w/ground
 20 Amp circuit wire = 12/2 w/ground
 15 Amp circuit wire = 14/2 w/ground

Maximum of 10 outlets (lights and recepts) on any 15 amp circuit with no other appliance on that line. Circuits 3, 4, and 16 may have recepts as noted at left. NOTE: A duplex recept is counted as 1 recept.

This is a fully loaded system for which there has been a calculation done. Not all units will get all of these items. This diagram is a typical only

TYPICAL 50 AMP ELECTRICAL PANEL With INVERTER OPTION

THIS IS A 50 AMP 220 SERVICE

50 AMP LEAD IN CORD TO BOX = 6/3 w/GROUND
20 AMP CIRCUIT WIRE = 12/2 w/GROUND
15 AMP CIRCUIT WIRE = 14/2 w/GROUND

MAXIMUM OF 10 OUTLETS (LIGHTS & RECEPES) ON ANY 15 AMP CIRCUIT WITH NO OTHER APPLIANCE ON THAT LINE. CIRCUITS 3, 4, & 16 MAY HAVE RECEPES AS NOTED AT LEFT. NOTE: A DUPLEX RECEPES IS COUNTED AS 1 RECEPES.

THIS IS A FULLY LOADED SYSTEM FOR WHICH THERE HAS BEEN A CALCULATION DONE. NOT ALL UNITS WILL GET ALL OF THESE ITEMS.

30 AMP BREAKER BOX (INVERTER)

LOAD		PROTECTION		LOAD	
1st	#1	20 AMP	50 AMP MAIN	PROTECTION	LOAD
AIR COND.				#13	BLOCK
WATER HEATER				20 AMP	HEATER
INVERTER	#2	15 AMP			
2nd	#3	15 AMP			
AIR COND.					
APPLIANCE	#4	15 AMP		#14	OPT.
& 5 RECEPES				15 AMP	FREEZER
	#5	15 AMP			
WASHER	#6	15 AMP			
DRYER					
REFRIGERATOR	#8	15 AMP		#15	
				15 AMP	
LIGHT	#8	15 AMP		#16	
HEAT PAD				15 AMP	

30 AMP	MAIN	APPLIANCE	MICROWAVE	LIGHT	KITCHEN
--------	------	-----------	-----------	-------	---------

WIRING COLOR SCHEME

16 GAUGE

Grounds .....	.White
Back-up Lights .....	.Yellow
Ignition to Power Step .....	.Pink
Clearance & Running Lights .....	.Green
Right Turn Lights .....	.Brown
Left Turn Lights .....	.Red
Ignition to Slide Out Motor .....	.Pink w/Green
Slide Out Switch .....	.Purple
Courtesy Lights (hot to switch) .....	.Gray
Courtesy Lights (switched) .....	.Gray w/ White
Detectors, CO & LP .....	.Red w/Black
Rear Center Brake Light .....	.Blue
LP Fuel Gauge .....	.Red w/ Yellow
Air Conditioner Controls .....	.Pink w/Black
Monoplex Water Pump Switch .....	.Yellow w/Black
Vent Thermostats .....	.Black
Water Heater DSI Switch Harness .....	.Red w/White*
	Green w/White*
	Blue w/White*
Onan Generator .....	.Green w/White*
	Blue w/White*
	Red w/White*
	Brown*
Power Tech Generator .....	.Blue*
	Gray*
	Yellow*
	White*

* - multiple applications for this color

WIRING COLOR SCHEME (CONT.)

12 GAUGE

Grounds	White
Living Room & Entryway Lights (hot to switch)	Red
Living Room & Entryway Lights (switched)	Red w/White
Bedroom Lights (hot to switch)	Orange
Bedroom Lights (switched)	Orange w/White
Bathroom Lights (hot to switch)	Brown
Bathroom Lights (switched)	Brown w/White
Kitchen Lights (hot to switch)	Green
Kitchen Lights (switched)	Green w/White
Wrap & Storage Compartment Lights	Black
TV and Stereo	Pink
Furnaces	Green w/Black
3 Way Switches (commons)	Red w/Black
Electric Brakes (tandem axle)	Blue
Fantastic Vent and Water Heater	Brown w/Black
Monitor Panel	Yellow
Refrigerator Controls	Red w/Yellow
Security Lights (hot to switch)	Purple
Security Lights (switched)	Purple w/White
Slide Out Module (hot feed)	Green/Yellow
Slide Out Motor & Voice Module	Black w/Yellow & Red w/Yellow
Slide out Lights	Gray
Water Pump	Yellow w/Black
Power Step Switch	Black w/White

WIRING COLOR SCHEME (CONT.)

10 GAUGE

Grounds	White
Living Room Entry Lights (hot feed)	Red
Bedroom Lights (hot feed)	Orange
Kitchen Lights (hot feed)	Green
Bathroom Lights (hot feed)	Brown
Power Rear Awning & Freezer	Purple w/Yellow
Power Step (hot feed)	Green w/Black
Power Jacks	Yellow
Electric Brakes (tri-axle)	Blue

8 GAUGE

Grounds	White
Battery	Red
Converter	Black
Solar Prep	Green
400 Watt Inverter (Class A)	Red 6 GA Wire White 6 GA Wire

16 GAUGE

MONITOR PANEL TANK HARNESS

Fresh Water Tank	White* Gray w/Black (replaces Red tank lead) * Black w/Yellow (replaces Blue tank lead) *
Grey Water Tank	White* Green w/White (replaces Red tank lead) * Blue w/Black (replaces Blue tank lead) *
Black Water Tank	White* Red w/White (replaces Red tank lead) * Blue w/White (replaces Blue tank lead) *

* - multiple applications for this color

	Personal Computer		F1: Help/About/Help		F2: File Transfer		F3: File Transfer		F4: File Transfer		F5: File Transfer		F6: File Transfer		F7: File Transfer		F8: File Transfer		F9: File Transfer		F10: File Transfer		F11: File Transfer		F12: File Transfer
	F1: Help/About/Help		F2: File Transfer		F3: File Transfer		F4: File Transfer		F5: File Transfer		F6: File Transfer		F7: File Transfer		F8: File Transfer		F9: File Transfer		F10: File Transfer		F11: File Transfer		F12: File Transfer		

NOTES:

204. CIRCUITS W/RED W/10-3 ROMEX TYPE NM-B

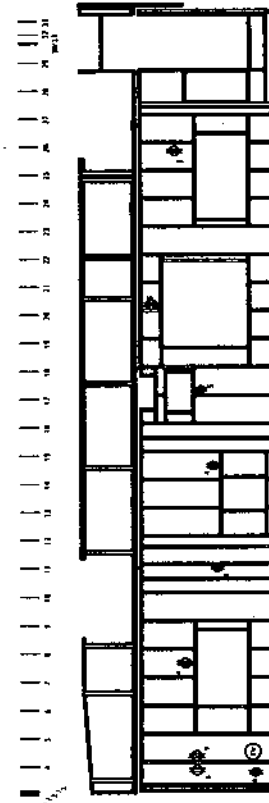
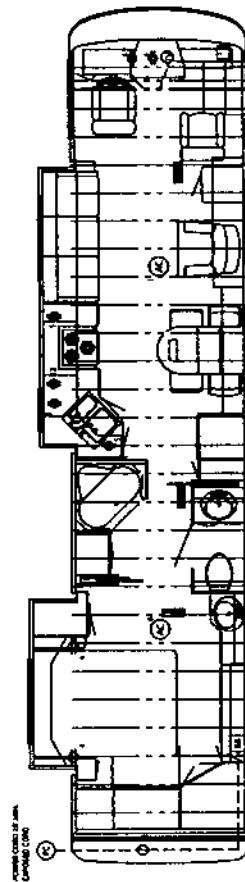
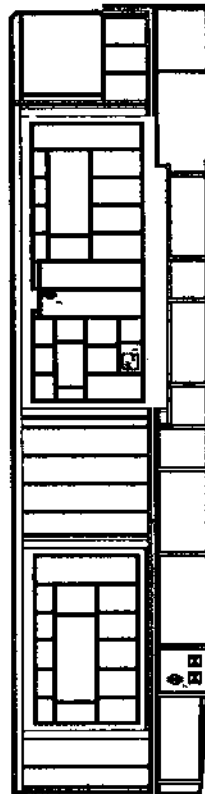
204. CIRCUITS W/RED W/12-3 ROMEX TYPE NM-B

154. CIRCUITS W/RED W/14-3 ROMEX TYPE NM-B

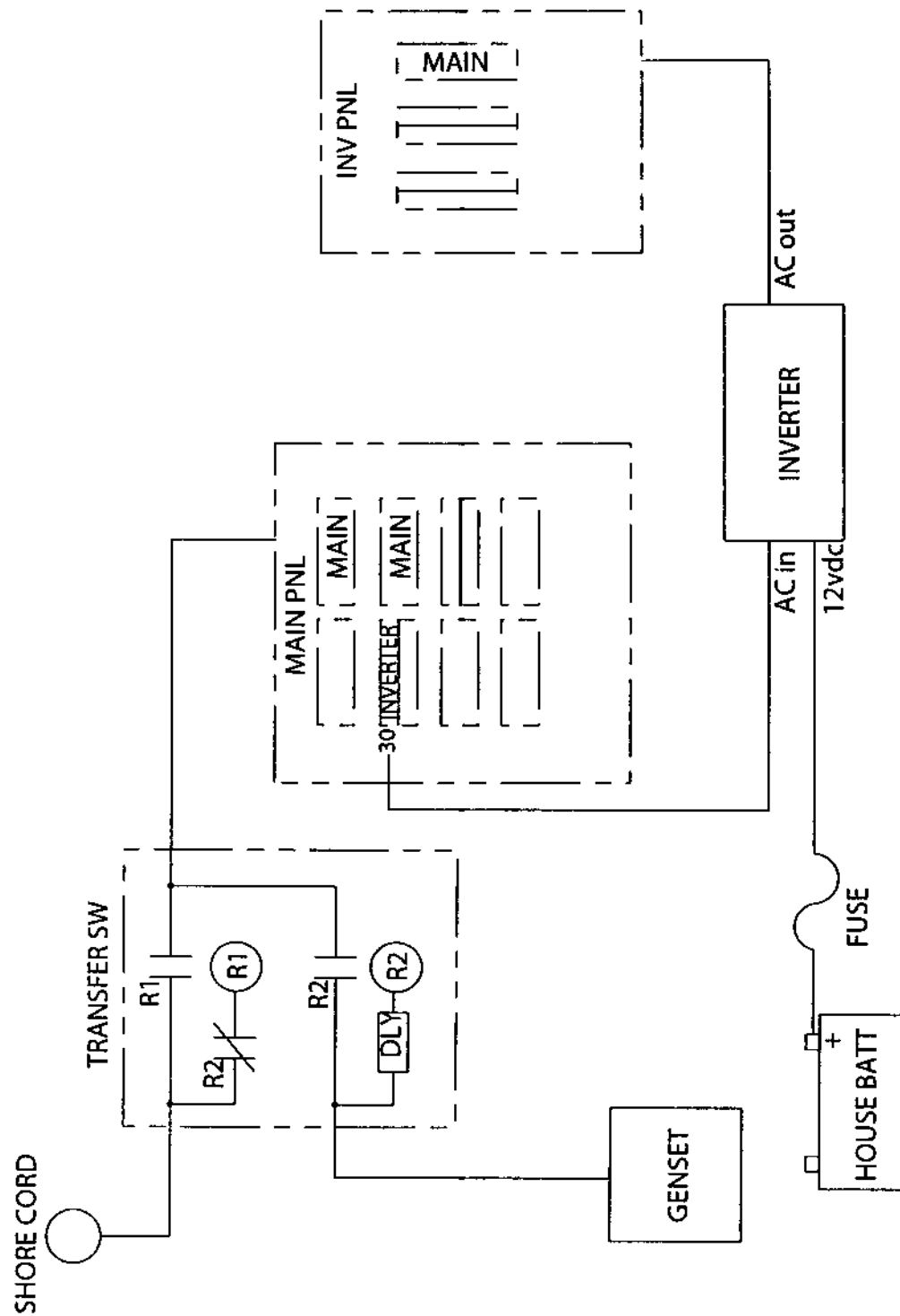
ALL PRE-WIRE FOR AIR USE 20 AMP FUSE AT BRICKER BOX

DISTRIBUTION PANEL EXPOSED TO W/LE SPACE.

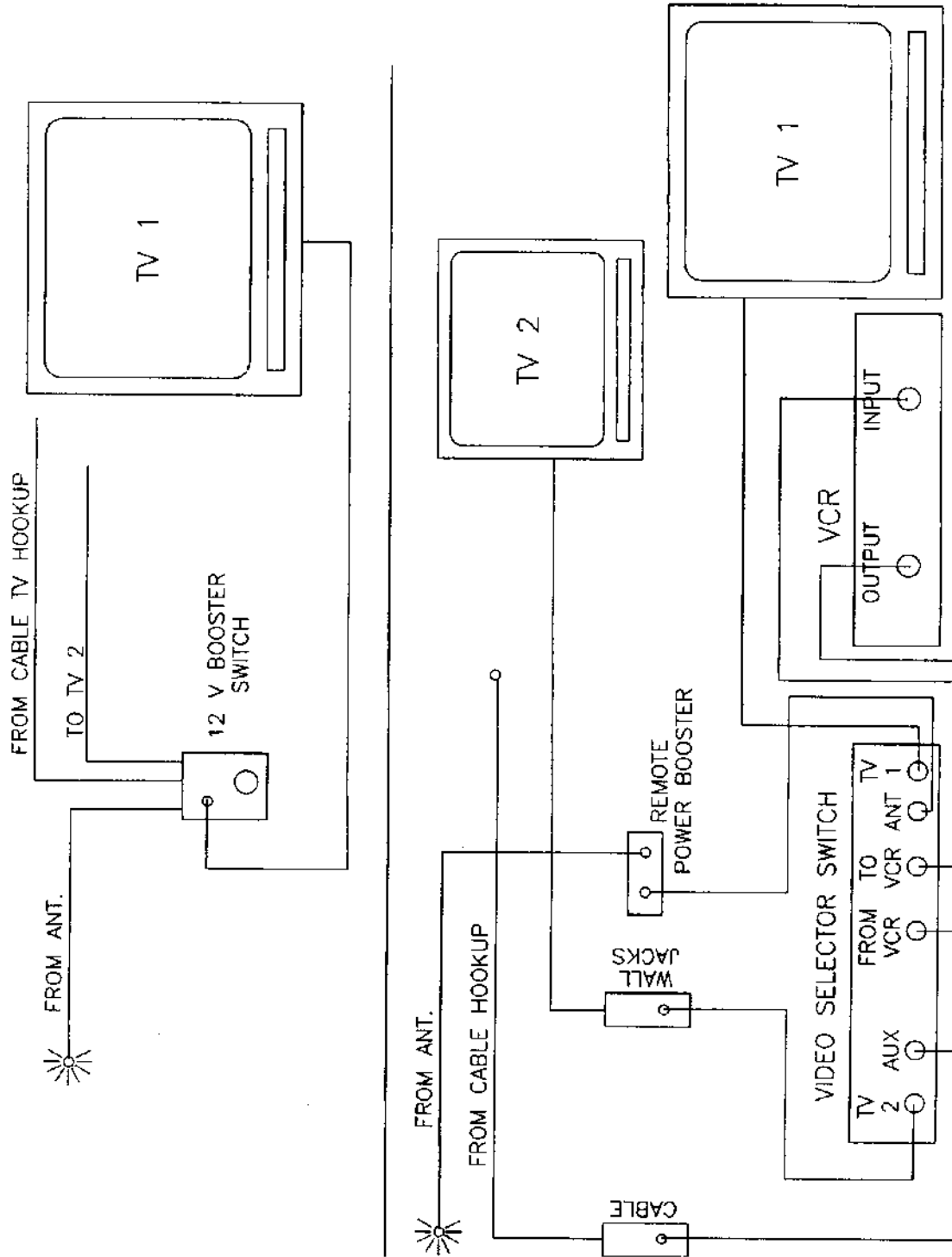
SOME CIRCUITS MAY NOT APPLY TO CERTAIN BRAND AND TYPE UNITS.

[illegible][illegible]ELECTRICAL SYMBOLS
WELDING CLEARANCE 6 MM, 2.40 INCHES[illegible]

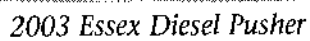
TYPICAL 120 VAC INSTALLATION WITH INVERTER



TV / VCR WIRING DIAGRAM

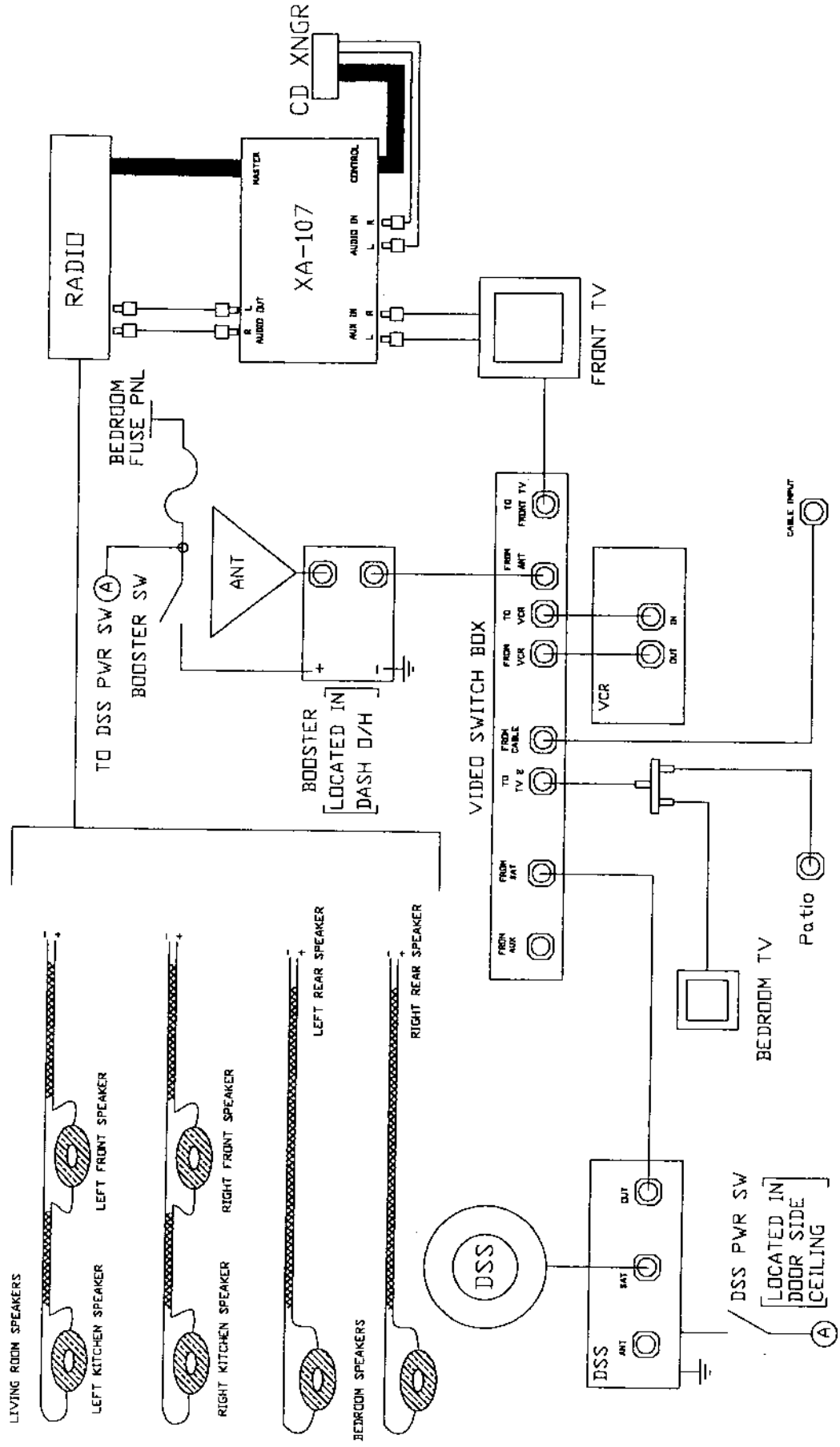


15-22

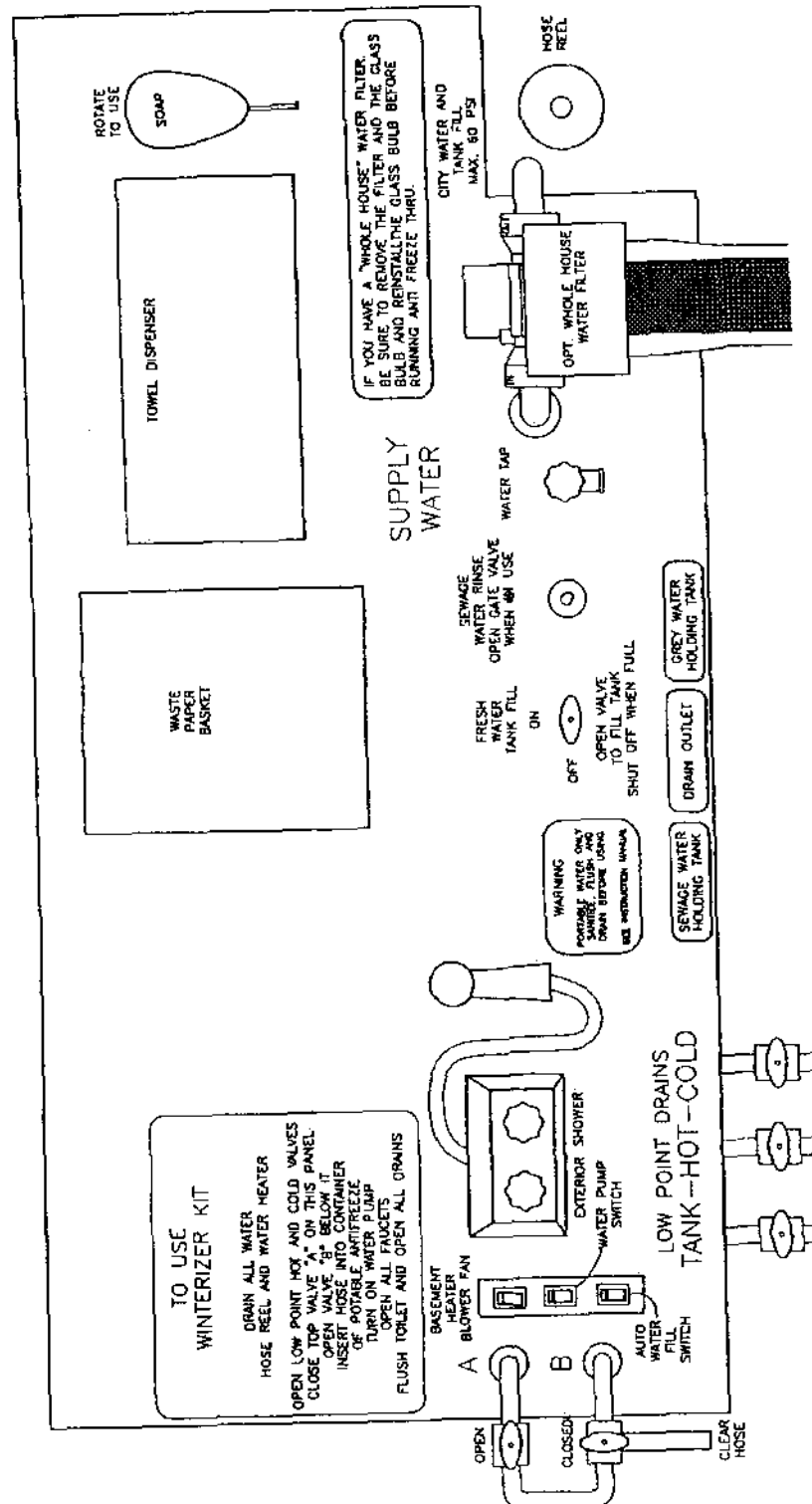


SPEAKER SWITCH SYSTEM

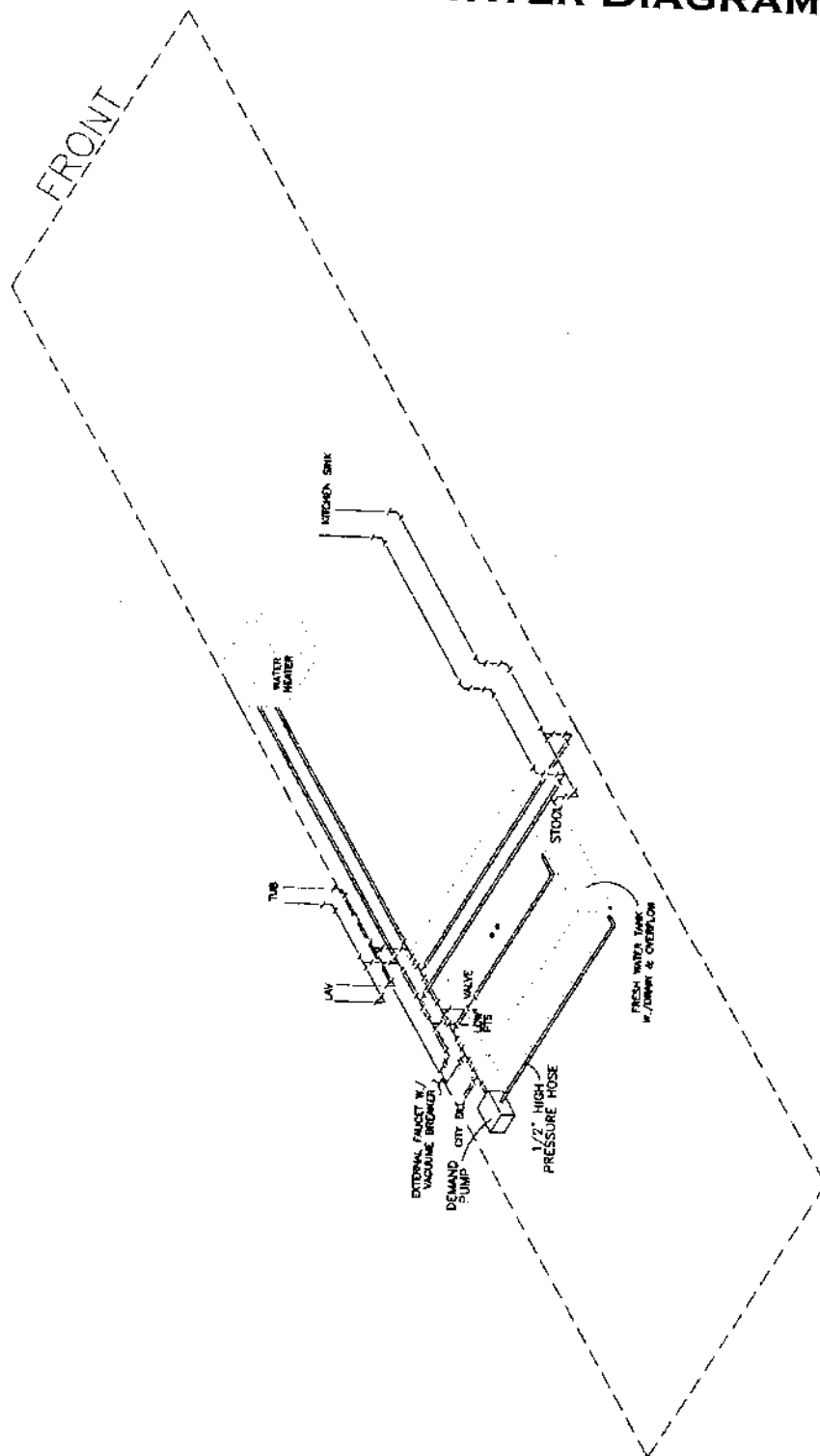
BETWEEN LIVING AREA TV & DASH RADIO



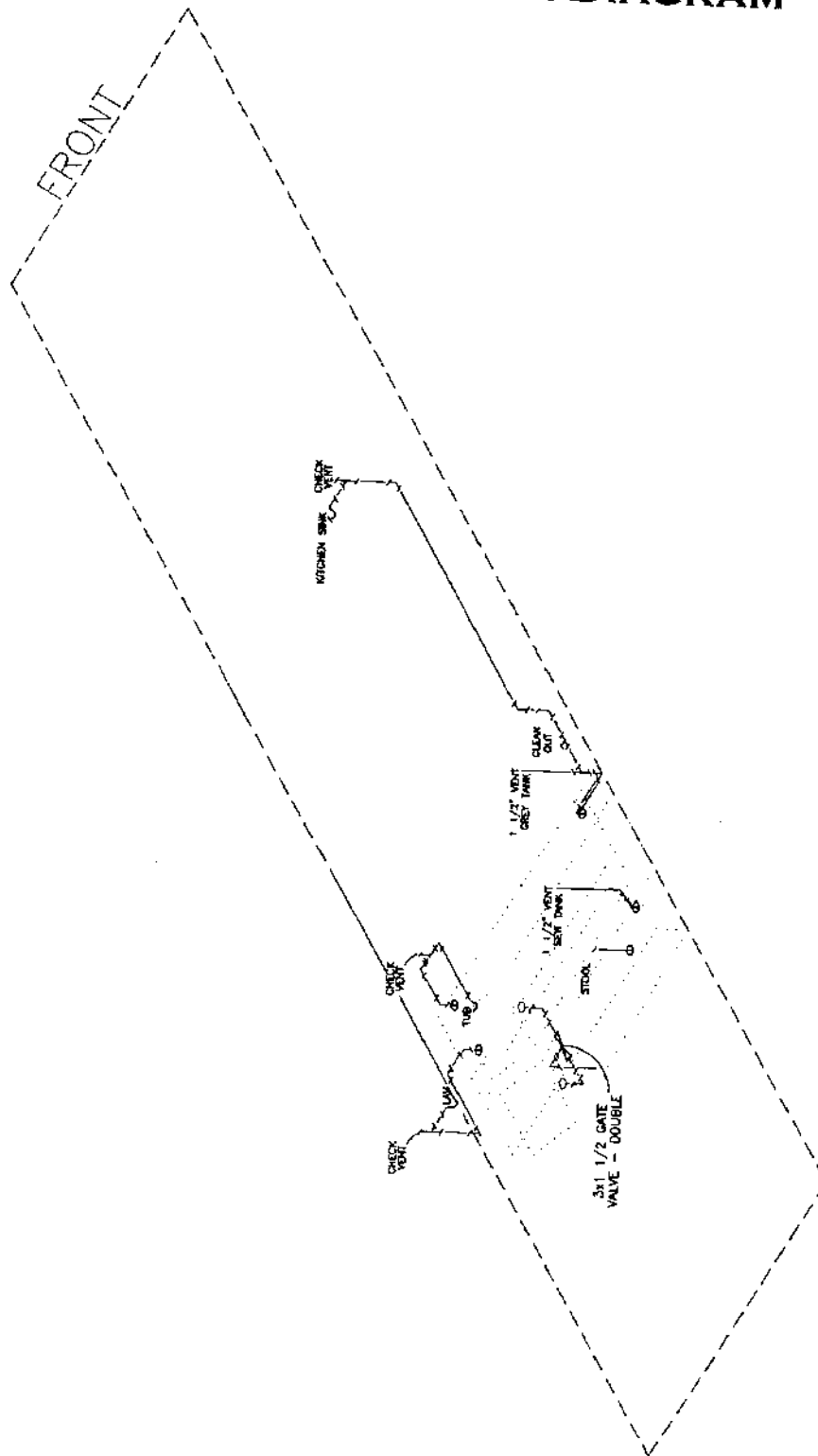
WATER WORKS SUPPLY CONTROL PANEL



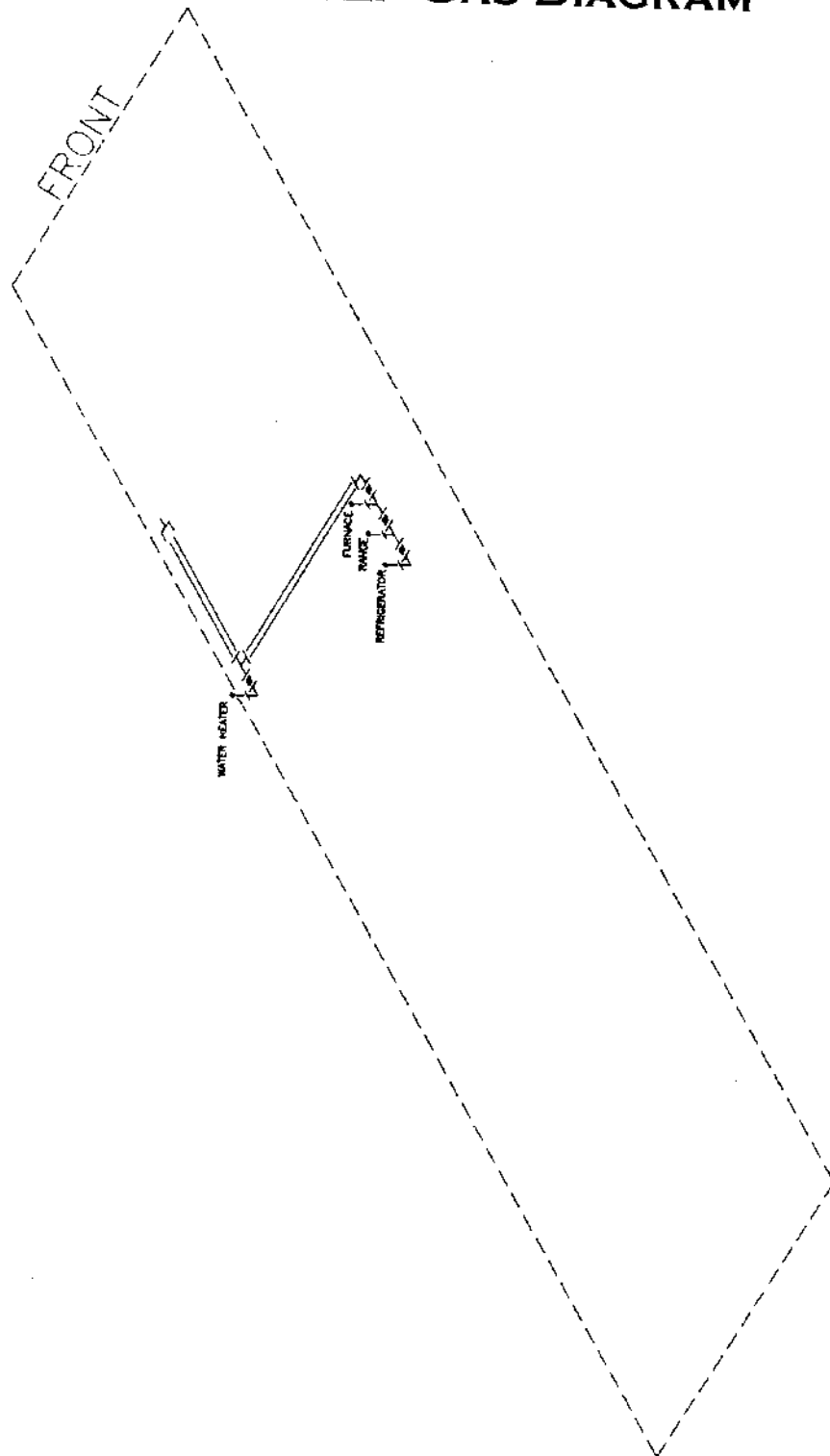
TYPICAL FRESH WATER DIAGRAM



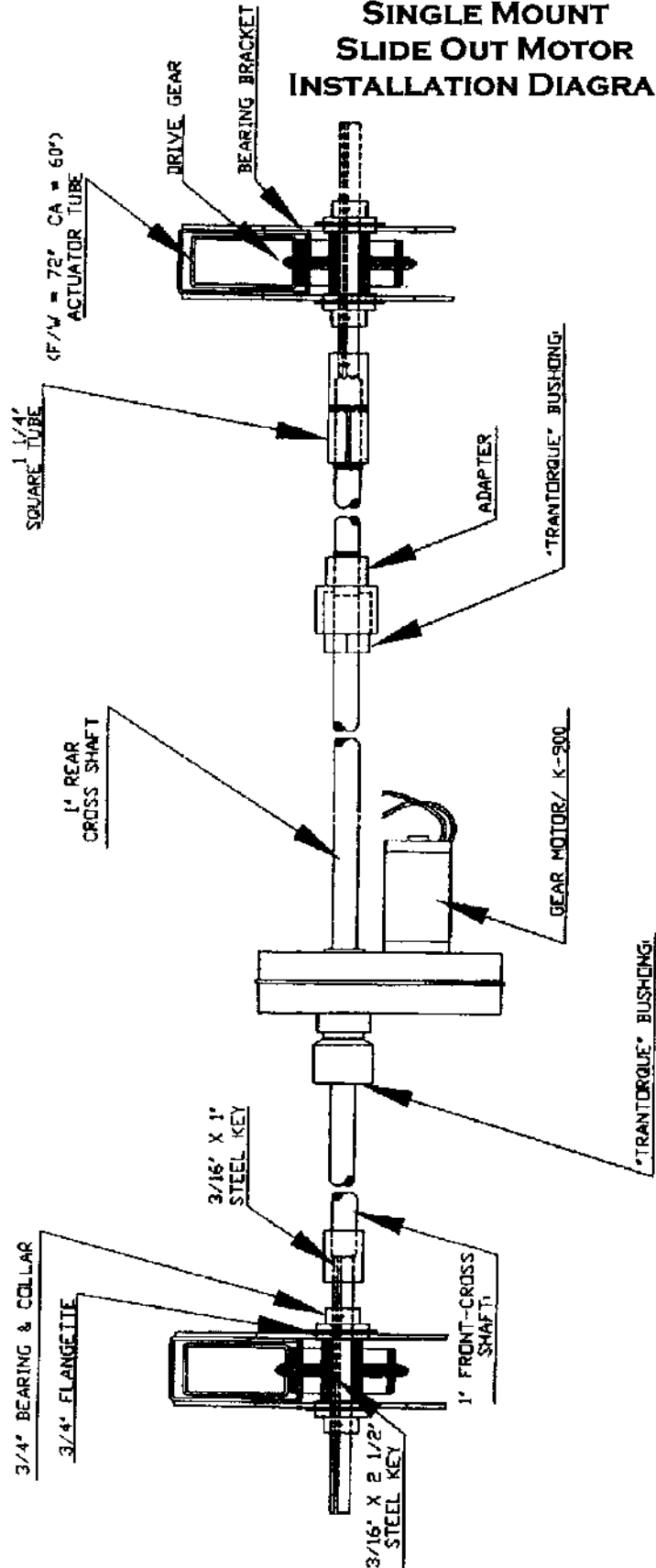
TYPICAL DRAIN LINE DIAGRAM



TYPICAL LP GAS DIAGRAM



SINGLE MOUNT SLIDE OUT MOTOR INSTALLATION DIAGRAM



2003 ESSEX DIESEL PUSHER

DESCRIPTION	ITEM #
Air Horn	51365
Antenna, CB	34783
Antenna, Cellular Phone	44465
Antenna, Radio	15654
Antenna, TV	34841
A/C	52910
Bumper, Front, Center	41208
Bumper, Rear	41212
Door, Entrance	42549
Door, Furnace	21868
Door, Refer Vent	11526
Door, Water Heater	24915
Faucet, Bath	42880
Faucet, Kitchen	42869
Faucet, Shower	42879
Grab Handle, Acrylic, Door	44449
Hood	41210
Ladder, Upper	41651
Ladder, Lower	41652
Light, Clearance, Amber	55308
Light, Clearance, Red	55309
Light, Clearance, Side(Turn)	44406
Light, Fog	29330
Light, Head, Left Hand	41451
Light, Head, Right Hand	41452

DESCRIPTION	ITEM #
Light, Scare	10674
Light, Tail, Back Up	38628
Light, Tail, Center	29685
Light, Tail, Wrap Around, RH	38626
Light, Tail, Wrap Around, LH	38627
Mirror, Rear View	42114
Recept, 12 Volt, Brown	22281
Recept, 12 Volt, White	10641
Recept, 120 Volt	10551
Recept, GFCI	10553
Register, Ceiling	37945
Register, Floor	12292
Roof Rack	11820
Skylight	55613
Step, Kwikkee	37710
Switch, 12 Volt, Double	24810
Switch, 12 Volt, Single	24809
Switch, 12 Volt, Triple	24811
Switch, 120 Volt	10543
T-Stat, Dometic	45935
T-Stat, FanTastic Vent	01513
Windshield Gasket	41270
Windshield, Left Hand	55791
Windshield, Right Hand	55790



CUSTOMER INFORMATION UPDATE FORM

Newmar Corporation strives to keep the most accurate and current customer information in its files.

If you bought this unit new, we have your information from the warranty registration form on file. However, if you purchased this unit as used then we ask that you complete the following information and mail it or fax it to us so that we can be sure that our records are updated.

Upon receipt of this form, we will send you a warranty registration card. This card is to be presented when you are having warranty work done on your unit at an authorized Newmar service center. Please note that the date of purchase on the card will show the original date the vehicle was first purchased and is the date applicable warranties originated.

If you have any questions, please contact a Newmar representative.

DATE _____

COACH # _____

CUSTOMER FULL NAME _____

CUSTOMER COMPLETE ADDRESS _____

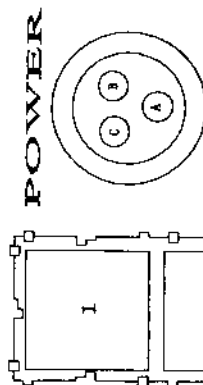
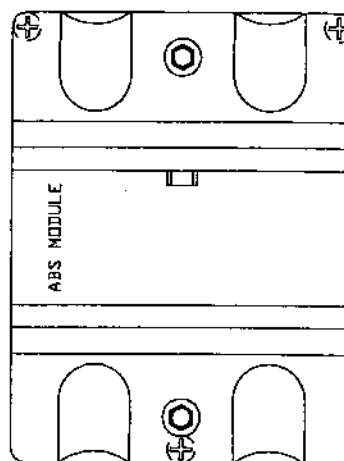
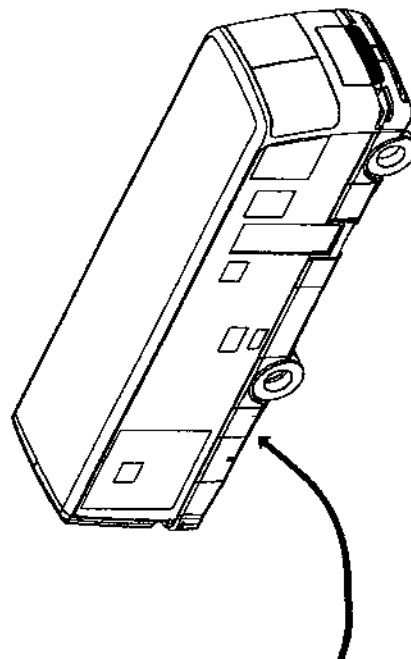
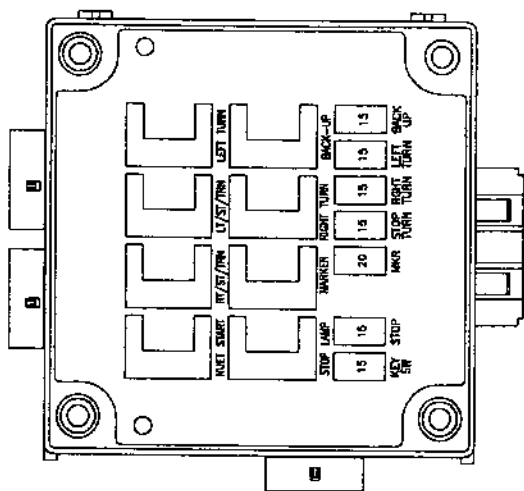
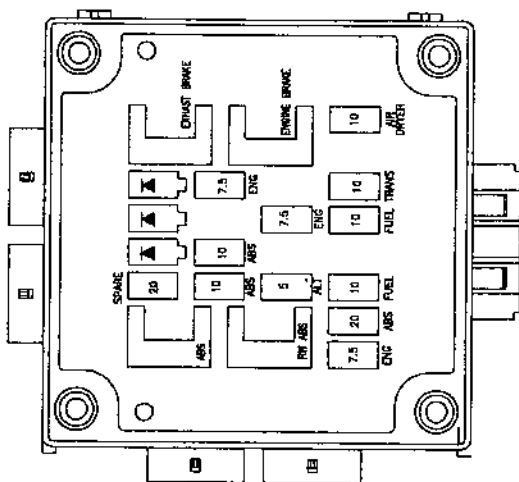
PURCHASED FROM _____

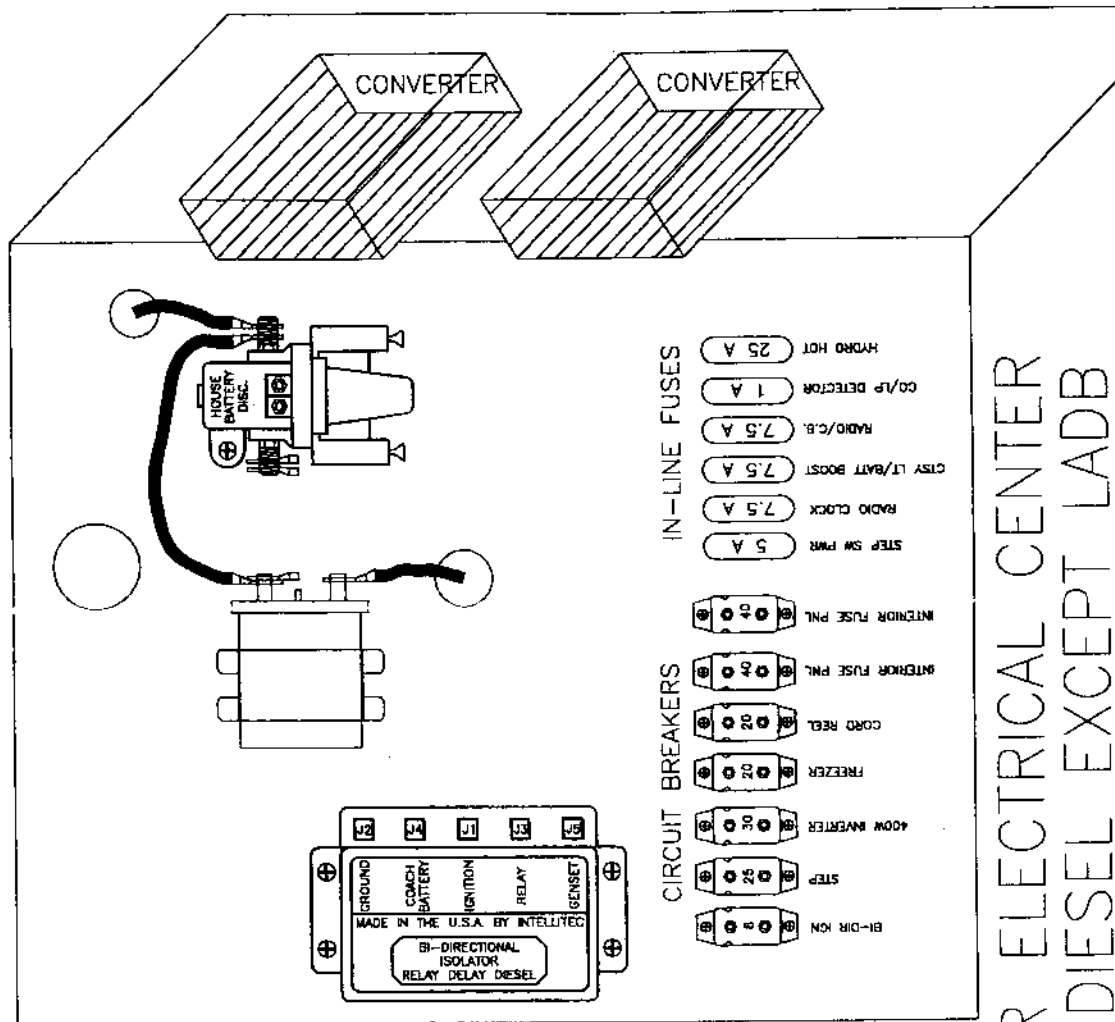
ADDRESS _____

**NEWMAR CORPORATION
ATTN: SERVICE DEPARTMENT
P.O. BOX 30
NAPPANEE, IN 46550 FAX: (574) 773-2007**

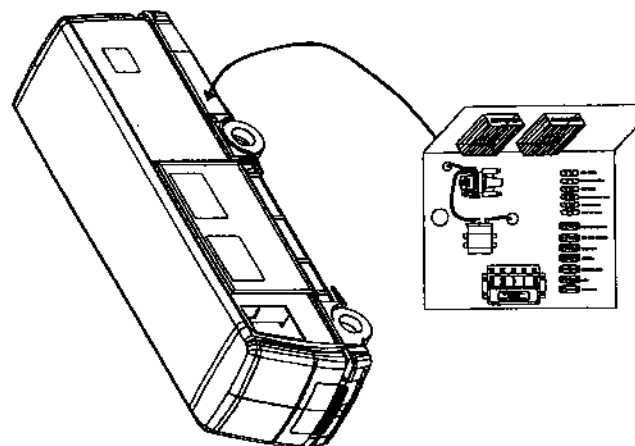
[illegible]

A diagram of a rectangular room layout, likely a classroom or meeting room. The room is rectangular with a central aisle. There are two exits at the top and bottom center. The room is divided into two main sections by the central aisle. The left section has 12 seats, numbered 1 through 12. The right section has 14 seats, numbered 13 through 26. The seats are arranged in rows. The front of the room is at the top, and the back is at the bottom. There are two exits at the top and bottom center.



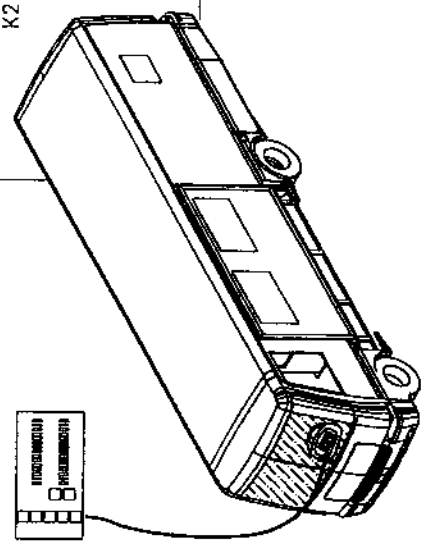
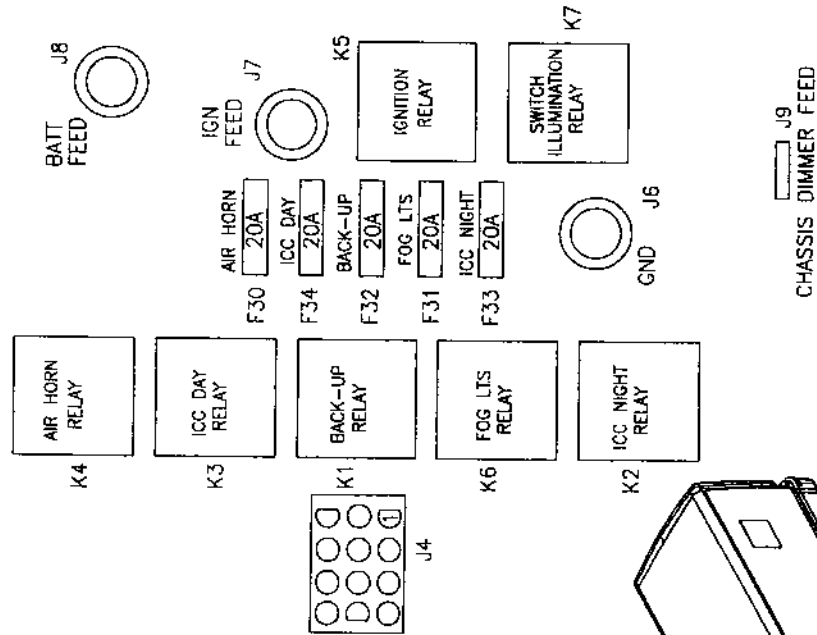


REAR ELECTRICAL CENTER
ALL DIESEL EXCEPT LADB



NOTE: F20 OBSOLETE FOR 2002

CIGAR LTR	20A	F25	F1	15A	A/C CLUTCH
ENG COMP LT	7.5A	F26	F10	20A	PWR MIRROR
SOLAR PNL	5A	F27	F11	20A	O'HD FAN
12V AUX OUT	20A	F28	F12	20A	PWR WINDOW CONSOLE LTS
AUX IGN	7.5A	F29	F13	7.5A	TV LOCK-OUT SURROUND SOUND
DOOR LT	7.5A	F16	F14	20A	PWR SHADE
DOME LT	7.5A	F17	F15	5A	JACK BUZZER
NAV SYS	7.5A	F18	F2	15A	AUX HEATER
DOCKING LTS	20A	F19	F3	7.5A	NAV SYS
SECURITY SYS	15A	F20	F4	7.5A	TV ANT UP
ENT DOOR LOCK	20A	F21	F5	20A	SPOT LT
DAYTIME RUN LYS	20A	F21	F6	5A	BACK-UP MON
HOOD LATCH	15A	F22	F7	5A	PWR STEP
STORAGE LOCKS	20A	F23	F8	7.5A	DASH LED LTS
STEP COVER	7.5A	F24	F9	7.5A	S/O IGN LOCK-OUT



NEWMAR DASH FUSE PNL
ALL MOTORIZED EXCEPT DSCA