



2025

OWNERS MANUAL

Class C **DIESEL**

Part Number: L90-0123-25

Roadside Assistance. Anywhere. Anytime.

24/7 CUSTOMER SUPPORT FOR:

FUEL—TOWING—BATTERY—SLIDE-OUT ISSUES
A LOCKSMITH AND MUCH MORE!

No matter where you go, it's easy one-step prevention
for anywhere peace of mind.

ONE YEAR OF REV ASSIST IS FREE WITH THE PURCHASE
OF ANY NEW 2025 FLEETWOOD RV.

*Then after one year of ownership you may extend your
coverage for only \$109 annually.*

www.revrvserviceandrepair.com/rev-assist/



Providing safety and convenience for customers when they're on the road. REV Assist membership includes emergency roadside assistance and concierge services for customers of all 2025 Fleetwood RV vehicles.

TECHNICAL SUPPORT AND ROADSIDE ASSISTANCE

Features 24/7 technical assistance from our staff of RVIA/RVDA and ASE certified technicians, who speak directly with customers to troubleshoot operational issues. Should they need emergency roadside assistance, our vast network of providers offers a wide range of services.

TOWING

Towing disabled REV-manufactured vehicles to the nearest qualified repair facility.

TIRE ASSISTANCE

Changing flat tires using a mounted and inflated spare tire, delivering comparable tires to disablement sites, or towing vehicles to a tire facility. The cost of a delivered replacement tire, alignment, mount and dismount, and balancing is not covered. Customers are responsible for all charges related to on-site repairs, including but not limited to parts and labor costs.

DELIVERY OF FUEL AND EMERGENCY FLUIDS

Delivering fuel, oil, and water, as necessary, to remedy disablements. Customers are responsible cost of fluids.

LOCKSMITH/LOCKOUT SERVICE

Providing locksmith services, opening locked vehicles, and/or obtaining replacement keys. Customers are responsible for all charges related to on-site repairs, including but not limited to parts and labor costs.

JUMP-STARTS

Jump-starting vehicles' dead batteries or towing vehicles to qualified repair facilities.

Dispatching of a mechanic to the site of mechanically disabled vehicles. Customer is responsible for all charges related to on-site repairs, including but not limited to parts and labor costs.

DEALER LOCATOR ASSISTANCE

In an unfamiliar territory, where do customers go for service should the need arise? We'll assist in finding the closest qualified service facility.

PERSONAL ASSISTANCE/CONCIERGE SERVICES

Access to a full range of services to make life easier.

Here are just a few:

- ATM & Business Locators
- Car Rental/Hotel/Restaurant Reservations
- Rental Car Return
- Emergency Return Travel Arrangements
- Turn-By-Turn Driving Directions
- Traffic Reports
- Road Closures
- Restaurant Reservations
- RV Campground Referrals
- RV Storage Facility Locators
- Wireless Device Assistance
- Historical Site and Pet Care Locators
- Golf Course Tee Time Reservations/Referrals
- Ticket Coordination (Theater/Music/Sports)
- Pharmacy/Hospital/Emergency Care Locator Service
- Weather Reports
- Shopping Centers
- Local Activities Calendar

855-268-0414 TO SIGN UP

877-904-1473 24/7 REV ASSIST



REV Group® companies are leading designers and manufacturers of specialty vehicles and related aftermarket parts and services, which serve a diversified customer base, primarily in the United States, through three segments: Fire & Emergency, Commercial, and Recreation. They provide customized vehicle solutions for applications, including essential needs for public services (ambulances, fire apparatus, school buses, and transit buses), commercial infrastructure (terminal trucks and industrial sweepers), and consumer leisure (recreational vehicles). REV Group's diverse portfolio is made up of well-established principal vehicle brands, including many of the most recognizable names within their industry. Several of REV Group's brands pioneered their specialty vehicle product categories and date back more than 50 years. REV Group trades on the NYSE under the symbol REVG. Investors-REVG

Owner's Manual

CLASS C DIESEL 2025

General Information	3
Coverage Provided	4
What Is Not Covered by This Warranty	4
Warranty Service Procedures	6
Safety Warnings, Notices, And Labels.....	9
General Safety List	9
Emergencies And Fire Extinguishers	11
Carbon Monoxide	13
LP Gas Detector.....	14
Smoke Alarms And Fires.....	15
Seat Belt Systems	17
Captain's Chair	18
Fuel Tank Safety.....	19
Vehicle Weight, Loading, And Leveling	19
Tires, Wheels, And Towing.....	23
Before You Hit The Road	25
LP Gas System	27
Electrical System And Batteries	30
Water And Plumbing Systems.....	40
Appliances, Electronics, And Equipment	48
Cleaning And Maintaining Unit.....	53
Winterizing And Storing Your Motorhome.....	56
Reporting Safety Defects	60

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IMPORTANT - PLEASE READ: Product information, photography and illustrations included in this manual were as accurate as possible at the time of publication. Materials, design, and specifications are subject to change without notice. REV Recreations Group has designed its recreational vehicles for a variety of customer uses. Each vehicle features optimal seating, sleeping, storage, and fluid capacities. The user is responsible for selecting the proper combination of loads (i.e. occupants, equipment, fluids, cargo, etc.) to ensure that the vehicle's weight capacities are not exceeded.

Manufacturing brands of REV Recreation Group, Inc. include: American Coach, Fleetwood RV, and Holiday Rambler.

The information contained in this document is intended to reflect standard and optional equipment included in a typically equipped model at the time of delivery to the initial retail owner. Your actual unit may vary from this document as a result of optional equipment that is not generally offered on this model. In the case that you are not the initial retail owner of the unit, this document will not reflect modifications that may have been performed by previous owners.

Product information and specifications are shown herein as of the time of printing. The motorhome manufacturer reserves the right to change product specifications, designs and standard equipment without notice and without incurring obligation.

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If you purchased this motorhome used, and are not the original owner please go to: **<https://www.fleetwood.com/change-of-ownership>** to update our warranty information.

GENERAL INFORMATION

Welcome to the Fleetwood Family.

We want to thank you for choosing your Class C motorhome by Fleetwood RV or Holiday Rambler. We think you made an excellent choice. Why? Because at Fleetwood RV and Holiday Rambler, we use the highest quality materials and workmanship to build your motorhome. We designed it to ensure that you are provided with stylish, comfortable, and safe transportation.

The RVIA sticker applied to your unit certifies that we meet or exceed Recreational Vehicle Industry Association (RVIA) standards. Your motorhome also complies with the requirements of the Federal Motor Vehicle Safety Standards (FMVSS) for seating and seat belt installation; as well as the American National Safety Institute standard (ANSI) 1192 for installation of plumbing, heating, electrical systems and state regulations and the chassis manufacturers' requirements. The wheelbase of this vehicle may have been altered from the chassis manufacturers' original wheelbase as part of the manufacturing process of your motorhome. Whether you have owned a motorhome before or are a first-time buyer, it is important to understand that a motorhome is a complex collection of systems that need to be handled carefully to avoid injury. Please take time to review this owner's manual to become familiar with the features of your new motorhome. It has been our experience that the more you know and understand your vehicle, the greater your pleasure and enjoyment.

ABOUT THIS MANUAL

This manual is to be used in conjunction with/ and a supplement to your chassis manufacturers' manual, as well as the appliance and other accessories manufacturers' manuals. It has been prepared to ensure that you are provided

with basic instructions for safely operating and maintaining your motorhome.

Throughout this owner's manual we call attention to specific safety issues and hazards. Please follow the safety instructions and/or information and observe and comply with proper operating practices. Failure to do so could cause you or other people to be seriously injured or killed.

For easy reference, this manual is divided into areas or what we refer to as "sections". You will find a section called *specifications*. This section contains floor plans, diagrams, locations of features and items that pertain to your specific motorhome.

Please note:

This manual explains many of the options and features that are available through Fleetwood RV and Holiday Rambler that may not be included in your motorhome.

Keep all manuals in a convenient place so they will be there whenever you need them. If you sell or trade your motorhome, please leave all the manuals with the vehicle so the new owner can use them.

IMPORTANT NOTICE

Information in the Owner's Manual is NOT to be construed as a warranty term. The specifications and descriptions provided in this publication provide no warranty, expressed or implied. The terms of the Fleetwood RV and Holiday Rambler warranty are set forth in your limited warranty document.

IMPORTANT NOTICE

The descriptions and specifications provided in this manual were in effect at the time of printing and are subject to revision and editions without notice. Fleetwood RV and Holiday Rambler reserves the right to discontinue models and/or

change designs, options, and specifications at any time without notice and without incurring obligation.

COVERAGE PROVIDED

This warranty covers vehicles manufactured by REV Recreation Group and sold in the United States and Canada. Your new motorhome is warranted under normal use to be free from manufacturing defects in material or workmanship when first sold by an authorized REV Recreation Group Dealership. For purposes of this warranty, "defect" means a failure of the material or workmanship to conform to the manufacturer's specifications and tolerances.

This warranty covers the first retail purchaser and all authorized transferee's during the warranty period. The warranty begins on the date of original retail delivery/sale or the date the motorhome is first placed into service as a rental, commercial or demonstrator unit (whichever occurs first) the "Start Date" and extends for the following periods:

1. For non-structural defects, one (1) year from the Start Date or until the motorhome reaches 15,000 total miles as determined by the mileage shown on the odometer, whichever occurs first
ANY ACTION FOR BREACH OF THIS LIMITED WARRANTY MUST BE COMMENCED NO MORE THAN NINETY (90) DAYS AFTER THE EXPIRATION OF THE RELEVANT PERIOD.
2. For structural defects, three (3) years from the Start Date or until the motorhome reaches 45,000 total miles as determined by the mileage shown on the odometer, whichever occurs first. Structural defects are defined only as the motorhome's roof structure, sub-floor structure, and walls. **ANY ACTION FOR BREACH OF THIS LIMITED WARRANTY MUST BE COMMENCED NO MORE THAN NINETY (90) DAYS AFTER THE EXPIRATION OF THE RELEVANT PERIOD.**

Unless prohibited by law, repairs or replacements do not extend the time when you must commence an action for breach of warranty and shall not extend the warranty coverage period.

WHAT IS NOT COVERED BY THIS WARRANTY

This warranty does not cover:

1. The automotive chassis system (including the chassis and drive train), tires and batteries, all of which are covered by the separate warranties of the respective manufacturers of these components.
2. Components, systems, appliances or parts expressly warranted by their respective manufacturer.
3. Defects or performance failures caused by or related to:
 - a. Abuse, misuse, negligence or accident;
 - b. Failure to comply with instructions contained in the Owner's Information Warranty Packet or failure to perform other routine maintenance;
 - c. Alteration or modification of the motorhome;
 - d. Environmental conditions (salt, hail, chemicals in the atmosphere, etc.);
 - e. Normal deterioration due to wear or exposure, such as sealants, fading or discoloration of exterior surfaces or fiberglass, or soft goods, such as fabrics, drapes, upholstery, screen, cushions, mattresses and carpet wear;
 - f. Motorhomes on which the odometer reading has been altered;
 - g. Normal maintenance and service items, such as light bulbs, fuses, sealants, lubricants, etc.;
 - h. Appearance imperfections, dulling, yellowing, chalking, flaking, peeling or fading of paint, defacing, dents, scratches, chips on any surface or fabric, graphics, exterior materials, or upholstery that may have occurred prior to delivery and are normally corrected during the delivery inspection process at the manufacturing plant or at the dealership;
 - i. The cost of transportation in connection with warranty claims, including but not limited to reimbursement for mileage or expenses incurred traveling to or from such repair or replacement location;

- j. REV Recreation Group SHALL NOT BE LIABLE FOR ANY (1) INCIDENTAL OR CONSEQUENTIAL DAMAGES, INCLUDING BUT NOT LIMITED TO ANY CLAIMS FOR PROPERTY DAMAGE, LOSS OF USE, LOSS OF VALUE, LOSS OF INCOME, LOSS OF TIME, INCONVENIENCE, COMMERCIAL LOSS, BUS FARES, VEHICLE RENTAL, FUEL, INCIDENTAL CHARGES SUCH AS TELEPHONE CALLS OR HOTEL BILLS, (2) ANY OTHER PROPERTY DAMAGE CAUSED OR ALLEGED TO BE CAUSED BY MOLD, CONDENSATION OR MOISTURE, MILDEW, RUST, FUNGUS, DRY ROT OR ANY MICROBIAL MATTER, OR (3) LEGAL FEES OR EXPENSES;
- k. Premature deterioration and accelerated wear and tear on motorhomes used for full-time living accommodations;
- l. Motorhomes used for commercial or business purposes;
- m. Motorhomes that are not originally sold by an authorized REV Recreation Group dealership, i.e., sold at auction, wholesale, repossession, salvaged or sold in an otherwise distressed condition;
- n. Motorhomes sold or used outside of the United States or Canada;
- o. Items that are working as designed but that you are unhappy with;
- p. Service work performed by a dealer, which is generally covered by dealer's own service warranty.

REV Recreation Group reserves the right to make changes in design or improvements to its products or parts without obligation to make or install such changes in any previously built product.

Installations or modifications to the motorhome are not covered by this warranty. Any other company that assembles, installs, modifies or up-fits your motorhome or any of the parts, components, systems or appliances will be solely responsible for those goods or services.

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

LIMITATIONS

ANY IMPLIED WARRANTIES, INCLUDING, BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THIS WRITTEN WARRANTY.

Some states do not allow restrictions on how long an implied warranty lasts, so this limitation may not apply to you.

The manufacturer is not responsible for any undertaking, representation or warranty made by any dealer or other person beyond those expressly set forth in this warranty. There is no warranty of any kind made by REV Recreation Group beyond the limited warranty contained in this document.

YOUR RIGHTS UNDER STATE LAW

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

LEGAL REMEDIES AND DISPUTE RESOLUTION

Any claim or controversy arising out of or relating to this limited warranty, or breach thereof, shall be settled by arbitration administered by the American Arbitration Association in Chicago, Illinois in accordance with the Commercial Arbitration Rules of the American Arbitration Association. The laws of the State of Indiana shall be applied in any arbitration proceedings, without regard to principles of conflict of law. Each party shall bear its own costs, fees and expenses of arbitration. The arbitrator(s) determination and the basis for that determination shall be in writing and shall include an explanation of the basis for the determination. The determination of the arbitrator(s) shall be final and binding and judgment upon such determination may be entered in any court having jurisdiction. The arbitration proceedings and arbitration award shall be maintained by the parties as strictly confidential, except as otherwise required by court order or as is necessary to confirm, vacate, or enforce the award and for disclosure in confidence to the parties' respective attorneys, tax advisors, or senior management personnel.

DEALER'S OBLIGATIONS

At the time of sale of your new recreation vehicle, your dealer is expected to:

- Deliver your motorhome in the best condition possible. Your vehicle must pass the dealer's detailed pre-delivery inspection, including all systems tests. If the dealer identifies any issues during the pre-delivery inspection, the dealer is obligated to repair or replace any parts necessary to correct the identified defects in material or workmanship. As a part of the pre-delivery inspection procedure, the dealer is responsible for road-testing the motorhome, noting and correcting any steering problems and setting correct tire pressures before delivery. REV Recreation Group will not be responsible for front end alignment after this pre-delivery inspection has been performed.
- Provide orientation for use of the motorhome, its systems, components, and operation.
- Make minor adjustments to your vehicle (such as adjustments to the interior or exterior doors, cabinet latches, TV antenna control, etc.) and make those minor adjustments for a period of 90 days after delivery. Thereafter, such adjustments are your responsibility as part of regular and proper maintenance, unless the adjustment is required as a direct result of repair or replacement of a defective part that is covered under this warranty.
- Request that you read all warranty information and explain any provision not clearly understood.
- Ensure that you receive your Owner's Information Warranty Packet. Your dealer can assist you in completing the OEM warranty registration card and locate any required component model or serial numbers.
- Chassis registration will be completed by your selling dealer at the time of purchase.

OWNER'S RESPONSIBILITY

It is important that you read and understand all instructions and precautions before operating the recreational vehicle. Even if you are an experienced owner, we encourage you to thoroughly read this Owner's Information Warranty Packet. Familiarize yourself with this limited warranty as there are components and appliances that are excluded or warranted separately by their individual manufacturer's limited warranty. As the owner, you are responsible for regular and proper maintenance as described in the Owner's Information Warranty Packet. Regular and proper maintenance will help prevent conditions arising from neglect that are not covered by the limited warranty. For example, dulling and fading of exterior paint can be increased by prolonged exposure to extreme sunlight, air pollutants, and excessive moisture. Regular monthly washing and polishing of exterior surfaces is the best insurance against surface deterioration such as fading, yellowing, or chalking. It is your responsibility and obligation to return your vehicle to your dealer for repairs and services.

WARRANTY SERVICE PROCEDURES

To help ensure you receive the level of service you expect and deserve, here are some suggestions we would like to make.

If you need warranty service or warranty information, please see the booklets and other documents included in your Owner's Information Warranty Packet. For warranty service, you should return your motorhome to the selling dealer. If that is not possible, you may contact any other authorized REV Recreation Group motorhome dealer. The REV Recreation Group Owner Relations department can help you find a dealer in your area. If you have any questions about the warranty or what it does or does not cover, or need assistance finding an authorized dealer, please contact REV Recreation Group Owner Relations at the following address or phone number:

REV Recreation Group
Owner Relations
P.O. Box 1007
Decatur, IN 46733
1-800-322-8216

NOTIFICATION

REV Recreation Group has empowered its dealers to make warranty and repair decisions. To obtain warranty service, you must (1) notify an authorized dealer and send written notice to REV Recreation Group within the applicable warranty period and (2) within thirty (30) days of discovery of a defect in material or workmanship. You must notify an authorized dealer and Fleetwood RV / Holiday Rambler of any warrantable defect no later than 30 days after the expiration of the warranty terms. If you submit a claim after the expiration of the warranty period, you will need to provide proof acceptable to REV Recreation Group to demonstrate that the defect occurred during the applicable warranty period.

The manufacturer's written notice should be mailed to:

REV Recreation Group
Owner Relations
P.O. Box 1007
Decatur, IN 46733

SERVICE

If you are having warranty work performed, be sure you have your vehicle information available to speed up your service. Provide your dealer with a written list of the motorhome problems or the specific repairs needed. Keep a maintenance log of your vehicle's service history as this can be helpful when diagnosing and addressing the current issue. If you had work done that is not in your maintenance log, let the service advisor know. It is important that you provide any vehicle repair history to the dealer's service personnel so they can better understand the problem and assist you.

UNSATISFACTORY SERVICE

Once the work is complete, inspect the service or repair job when you pick up your vehicle. Notify the dealer's service personnel immediately of any dissatisfaction. Discuss any warranty related problems directly with the manager or owner of the dealership, giving them an opportunity to help the service department resolve the matter for you. We sincerely believe that your dealer and the factory representative will be able to solve any problem that might arise. If, for some reason, a problem is not handled to your satisfaction, we are here to help.

If the dealer is unwilling or unable to resolve the issue in a timely manner, immediately notify REV Recreation Group by sending written notice detailing any alleged unrepaired defect, or any other dissatisfaction experienced with the motorhome. Giving the manufacturer this direct notice, and opportunity to cure, enables the manufacturer to supplement prior efforts by its authorized dealers so any ongoing problem or dissatisfaction can be resolved or addressed. In order to expedite the process when contacting us regarding an issue, please include the brand name and Unit Identification Number (U.I.N.) of your motorhome. The U.I.N. is located on the identification tag underneath the driver's side window on the exterior of your motorhome. Upon receipt of notice of a claim of unsatisfactory service, a REV Recreation Group Service Center will repair or replace any parts necessary to correct defects in material or workmanship.

THE MANUFACTURER'S WRITTEN NOTICE SHOULD BE MAILED TO:

REV Recreation Group
Owner Relations
P.O. Box 1007
Decatur, IN 46733

IF YOU WISH TO CALL FOR ASSISTANCE, PLEASE USE THIS TOLL-FREE TELEPHONE NUMBER:

REV Recreation Group
Owner Relations
1-800-322-8216

OR CONTACT US "VIA E-MAIL" AT:

rvsupport@revrvgroup.com

There may be times when your motorhome will

need repairs or parts while you are on the road. If an authorized repair facility is not available within 100 miles, you may use another facility. If your motorhome is repaired by a non-authorized repair facility (non-REV Recreation Group dealer), be sure to save receipts and especially any parts that are replaced. These parts will have to be returned to your selling dealer before you can be reimbursed for their cost.

CHANGE OF OWNERSHIP

With more REV recreational vehicles than any other manufacturer on the road today, it is important to us to stay connected with our new owners as well as those who have purchased a used motorhome. At REV Recreation Group, we are committed to offering you unmatched motorhome support! Please complete and submit the Change of Ownership Form, online or by contacting REV Recreation Group Owner Relations at 800-322-8216.

Please complete the change of ownership as soon as possible.

ORIGINAL MANUFACTURER'S CONTACT INFORMATION

If you have a problem with separately warranted items, you should contact the original manufacturer first in order to get the fastest response. Since they made it, they know best how to fix it and can give you the most efficient service. The materials in your Owner's Information Warranty Packet contain warranty information and operating instructions on the various appliances and components in your motorhome. If you do not have operating instructions for a particular appliance or component, contact your dealer. Warranty registration cards for these items should be filled out and mailed as soon as possible after you take delivery of your motorhome. When contacting any of the equipment manufacturers, always have the model and serial numbers available. Appliance identification numbers will be found on tags or plates attached to the appliance.

CHASSIS ASSISTANCE

If you have a warranty or service concern about the chassis portion of your motorhome, you may go directly to an authorized chassis dealer for service. This may save you time and effort as the chassis warranty is administered by the chassis manufacturer.

FOR CHASSIS ASSISTANCE CONTACT:

Mercedes Benz Assistance (770) 705-0600

OTHER MANUFACTURER CONTACTS:

Allison 1-800-252-5283

Cummins/Onan 1-800-286-6467

REPORTING SAFETY DEFECTS

UNITED STATES CONSUMERS:

If you believe that your vehicle has an alleged defect that could cause a crash, injury, or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying REV Recreation Group Owner Relations at 1-800-322-8216.

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.

To contact NHTSA, you may either call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); or go to www.safercar.gov or write to:

Administrator
National Highway Traffic Safety Administration
1200 New Jersey Avenue, SE
Washington, DC 20590

You can also obtain other information about motor vehicle safety from the Vehicle Safety Hotline.

CANADIAN CONSUMERS:

If you believe that your vehicle has an alleged defect that could cause a crash, injury, or death, you should immediately inform REV Recreation Group at:

1-800-322-8216 and call Transport Canada toll-free at: 1-800-333-0510.

SAFETY WARNINGS, NOTICES, AND LABELS

We care about you and your passengers this manual will call your attention to specific safety issues and hazards that need to be observed every time you use your motorhome. As an owner you are responsible for your safety, the safety of your passengers and the people around your motorhome.

Please review and follow all safety warnings and precautions listed throughout this manual, on safety labels applied throughout the motorhome, and those listed in the chassis and appliance manuals.

WARNING SYMBOL

We use a yellow box with **WARNING** to alert you when something could cause you or other people harm and/or death.

NOTICE SYMBOL

We use a gray box with **NOTICE** when something could cause damage to your vehicle and/or components, or that could void warranties.

Please read all warnings and notices and follow instructions. Failure to regard the information and instructions provided could result in costly repairs that may not be covered by your warranty or injury/ death.

WARNING LABELS

Located throughout the coach, you will find **INFORMATION** and **WARNING** labels. These have been provided for your safety and to furnish useful information where it is needed. The National Fire Protection Association and the American National Standards Institute require many of these labels.

These are a permanent part of the coach and must not be removed.

For your safety and safety of others, do not remove these labels from your motorhome.

GENERAL SAFETY LIST

These general safety precautions assure that you and your passengers are safe. Failure to follow these suggestions could result in you or other people to be seriously injured or killed.

- 1 Read your vehicles (chassis) owner's manual concerning chassis operations, features and safety information.
- 2 Always wear your seat belts while driving and make sure your passengers do the same. Young children and infants must be seated and restrained in proper safety seats as required by law.
- 3 Never place an infant or child seat in the front passenger seat. Any vehicle that is equipped with an airbag can injure or kill a child if the airbag should deploy.
- 4 Never relocate alter or modify seat belts. All seat belts are mounted per the FMVSS Federal requirements. Anyone relocating, altering, or modifying a seat belt will assume full responsibility for the consequences.
- 5 Do not allow anyone to lie on the sofa or the bed or sit anywhere a seat belt is not provided, while in transit.
- 6 Periodically inspect seat belts and seat components. If any of the seat belts and / or seat components are not functioning properly have them inspected by a competent service facility.
- 7 All seat releases, slides, and recline mechanisms must be fully engaged and locked before putting the vehicle in motion. Keep fingers and hands away from any pivot

points or moving components to avoid injury.

- 8 Do not store items under seats. Objects could damage the airbag module under the seats or obstruct or loosen locking mechanisms under driver's and passenger seat(s).
- 9 **NEVER** disconnect safety devices installed on your motorhome. These devices are for your protection and should not be tampered with.
- 10 Have your motorhome checked by a competent service facility if any of the electrical components are not functioning properly.
- 11 Do not use a cheater plug (a plug with the ground wire pin removed) to hook up into a 110-Volt plug. Doing this could cause an electrical shock.
- 12 Do not use an extension cord with a lower current rating than that of the power cord provided with your motorhome. This could cause a hazard in the electrical system.
- 13 Test the Carbon Monoxide and smoke detectors operation after your motorhome has been in storage, before each trip, and at least once every few weeks during use.
- 14 Never use stove or cooking appliances for comfort heating, it is extremely dangerous. Refer to the appropriate section for proper operations and safety information for appliances.
- 15 Never use portable fuel burning equipment, including wood and charcoal grills and stoves inside the motorhome. The use of this type of equipment inside an enclosed space may cause asphyxiation and creates a fire hazard.
- 16 Do not touch outlets or exhaust ports or allow any material to touch or cover the air intake or exhaust ports while operating the water heater and/or furnace. You can be burnt.
- 17 Never place or store LP gas containers inside the vehicle. LP gas containers are equipped with safety devices that relieve excessive pressure by discharging gas to the atmosphere. Refer to the LP section in this manual and in the LP manual for proper safety instructions and operations.
- 18 Do not allow the LP bottle(s) to be filled beyond 80% liquid level. Overfilling will eliminate the safety cushion for expansion which, in turn can result in the discharge of gas through the pressure relief valve.
- 19 Before filling the LPG tank, turn off all pilot lights and appliances. During fueling do not smoke, strike matches, or use lighters.
- 20 Before refueling your motorhome close the LP Tank service valve. Turn off all pilot lights and appliances. During fueling do not smoke, strike matches, or use lighters.
- 21 Do not attempt to adjust the regulators on your LPG tank. If adjustment is necessary, it must be made by qualified LP service technician using special equipment.
- 22 Use only NON-TOXIC antifreeze made specifically for portable watersystems. Automotive antifreeze, if ingested, can cause blindness, deafness, or death. Please refer to the water system section or more information on the safety of using the potable and contained systems.
- 23 Before traveling check all emergency exits and windows, to assure they are in proper

working order and are not obstructed.

- 24 The driver must remain in the driver's seat with complete control of the motorhome whenever the vehicle is in motion. Cruise control is used to maintain a speed level and the driver must remain seated and completely in control of the vehicle at the time of use.
- 25 Never overload your motorhome. Overloading can cause substandard vehicle handling, performance, and a loss of control. Refer to weight and loading restrictions listed in this manual.
- 26 The steps or running boards may become slippery during wet, snowy, or icy condition. Use them with caution. Be sure your foot is firmly placed on the running board or step when using them.
- 27 Check clearances of any overhead obstructions such as bridges, branches, garage doors, overhangs, canopies, low hanging wires, etc.
- 28 Keep all windows free of obstructions and have window treatments open before driving.
- 29 Make sure luggage, sports equipment, and other cargo items are stored securely before putting the motorhome in motion.
- 30 When backing up in congested areas, have someone outside the motorhome check to be sure the way is clear.
- 31 Stay alert, do not drive for long periods of time without stopping. On long trips, allow plenty of time to stop for rest and refreshments.
- 32 Please DO NOT drink and drive.

EMERGENCIES AND FIRE EXTINGUISHERS BE PREPARED FOR EMERGENCIES

It is important that everyone using and riding in the vehicle be familiar with emergency features, such as the location of exits and fire extinguishers.



EMERGENCY EXITS

Make sure all occupants are familiar with the escape routes of the motorhome. One exit is the front cab driver side door; another is the passenger side cab door, and another is the curb side main entry door. Be sure you keep all exits unobstructed, so they can be opened completely.

All coaches are equipped with a window emergency exit. These windows are marked with a sticker that states EXIT and will have bright red latches.

TO OPEN EMERGENCY WINDOW

- 1 Pull the **red** button on the screen toward you and remove screen
- 2 Pull the **orange** window handle up and out of the holding bracket
- 3 Swing handle to lineup with center of window and push window out
- 4 Crawl out the window and call for help

FIRE EXTINGUISHERS

Fire extinguishers are located on the right side of the curb side entry door. Some models may have a second fire extinguisher in the bedroom.

It is very important that you read the manufacturer's instructions for operation and maintenance of the fire extinguisher. Fire extinguishers are recommended for **SMALL FIRES ONLY**

IN CASE OF FIRE

Evacuate all occupants.

If possible, turn the LP gas service valve to off.

Fight fire only where there is a clear escape path to allow a quick exit.

Stand at least 6 feet back from the fire **near an exit** and make sure nothing is between you and your escape route. If you get closer than 6 feet to a fire, you risk getting burned or hit by splattering material like grease.

If a fire is too hot or smoky for you to get within 6 feet, **DO NOT** try to fight the fire yourself. Evacuate immediately and call the Fire Department.

WARNING

Remove the fire extinguisher from the mounting bracket. You will not be able to discharge the powder to fight a fire if the mounting bracket is attached.

Be sure the safety seal on the extinguisher is broken. You will not be able to squeeze the trigger to discharge the powder if the seal is not broken.

Protect yourself. Stand back at least 6 feet from the fire and make sure the fire is not between you and your exit.

AFTER A FIRE HAS BEEN EXTINGUISHED

After any fire it is advisable to have your motorhome inspected by the Fire Department.

The powder sprayed from the extinguisher may have spread over a wide area and soiled the furniture, carpets, and walls. Clean up all the powder as soon as possible.

Never turn on the electrical power or plug in an appliance until all the powder is removed

completely from the area. If the powder has become wet, it can conduct electricity. This may worsen an electrical leakage problem, impair the equipment's insulation, or create an electrical shock hazard.

IF A FIRE HAPPENS ON THE KITCHEN STOVE

For fires on a kitchen stove, if possible, turn oven or burner off immediately. If you cannot reach the oven or burner controls safely, extinguish the fire first, then turn them off.

Remove all the powder and ventilate the area before turning any of the items back on, this is especially important for a self-cleaning oven.

IF THE FIRE HAD AN ELECTRICAL ORIGIN

If possible, shut off all electrical power. Do not touch any electrical wire or appliances.

Leave the motorhome and close all doors behind you. Call the Fire Department and have them inspect the premises.

After the inspection and when it is safe to return be sure to ventilate the area thoroughly. Have a licensed electrician or authorized dealer inspect your electrical system. Do not turn the power back on or plug in electrical equipment until inspection has been completed.

WARNING

Never turn on electrical power or plug in an appliance until all powder from the extinguisher is removed completely from the area.

If the powder has become wet, it can conduct electricity. This may worsen an electrical leakage problem, impair the equipment's insulation, and create an electrical shock hazard. These conditions could result in you, or others being seriously injured or killed.

PROPERLY DISPOSE OF THE FIRE EXTINGUISHER

The type of fire extinguisher supplied with the motorhome is a disposable device and cannot be re-charged. Although you may not have fully discharged the fire extinguisher it cannot be used more than once. After using, discharge completely and discard it.

Never puncture or burn the fire extinguisher doing this could cause it to rupture or explode. Immediately replace your discarded extinguisher with a new extinguisher.

Read the information in the fire extinguisher manual for proper disposal.

WARNING

Do not puncture or burn a discarded fire extinguisher.

Puncturing or subjecting the extinguisher to temperatures over 150 degrees Fahrenheit (66 degrees Celsius) could cause it to rupture or explode which could result in you or others being seriously injured or killed.

FIRE PREVENTION AND SAFETY SUGGESTIONS

Taking proper precautions to prevent a fire from starting is the best method of fire safety. Use the same principles in your motorhome as you would in your home. Below are a few suggestions for fire prevention. Failure to follow these suggestions, as well as the ones in all other manuals, could result in you or others being seriously injured or killed.

WARNING

Follow the instructions for the proper care and operation of all your appliances. Check your fire extinguisher on a regular basis to make sure it is properly charged.

Inspect fuel-burning appliances often and keep them in good working condition. Do not smoke in bed.

Do not overload electrical circuits. Do not let children handle LP gas or electrical appliance controls.

Do not store flammable liquids inside your unit.

Do not use portable fuel burning equipment inside the motorhome. Never replace a fuse with one of a higher amp rating.

Follow all rules and regulations regarding the use of LP gas and pilot lights.

Avoid parking over dry leaves, dry grass, or other flammable material that can be ignited by the hot exhaust system under your coach.

When fueling your vehicle do not smoke, strike matches or use lighters.

CARBON MONOXIDE (CO)

Carbon monoxide gas is a by-product of the incomplete burning process of any fuel, including, but not limited to, gasoline, propane, natural gas, oil, charcoal, or wood. All appliances that burn fuel such as cooking stoves, lamps, space heaters, furnaces, water heaters, RV generators, or the engine from an RV, car or truck can produce CO.

When appliances are in good working condition with proper combustion and ventilation, lethal carbon monoxide gas is vented outdoors where it quickly disperses. A safety hazard can occur when an appliance malfunctions and produces CO that is not fully vented. CO polluted air inside an RV can quickly build to lethal levels.

Unlike smoke or LP gas, carbon monoxide cannot

be smelled or seen. If a person is exposed to enough CO, the results can be permanently disabling or fatal. The CO detector installed will warn you of its presence. Before each trip test your alarm as specified in the manual.

It is important that you read the manufacturer's instructions for operating and maintaining the CO detector.

WARNING

Carbon monoxide (CO) can cause unconsciousness and death. You cannot see it or smell it, so you may not know it is in your vehicle. Use your detector to help assure the safety of you and your passengers.

CO PREVENTION AND SAFETY SUGGESTIONS

As a safety precaution, learn the early symptoms of CO exposure and regularly test and maintain your CO alarm to ensure it is in good working order. If you suspect CO poisoning, move outside to fresh air, and seek emergency help. Below are suggestions to help assure everyone's safety. Failure to follow these suggestions or the instructions in your other manuals could result in you or others to be seriously injured or killed.

WARNING

Before each trip make sure power is supplied to the CO detector. Learn the early symptoms of CO exposure.

Inspect fuel-burning appliances and vents often and keep them in good working condition. Regularly test and maintain your CO alarm to ensure it is in good working order.

Check your exhaust system to ensure it is in good working order. A damaged and /or rusty exhaust could allow engine exhaust containing CO to leak into your vehicle. When parking in snowy conditions make sure that snow does not block exhaust pipes from the engine, furnace, or water

heater. Clear the way and check around from time to time.

If the alarm goes off or you suspect carbon monoxide may be in your vehicle, let in as much fresh air as possible, leave the unit and call the fire department. Never restart appliances until the source of the carbon monoxide leak has been repaired.

LP GAS DETECTOR

An LP gas detector is mounted in the aisle way (close to the ground) to detect leaking LP gas. LP gas is colorless and has a distinctive odor that smells like rotten eggs. If there is LP gas in the area the detector will provide you with early warning by sounding an alarm that could save your life, as well as the lives of people around you.

The Detector must be always connected to its power source, never allow the detector to be switched off.



It is very important that you read the manufacturer's instructions for operating, testing and the maintaining the LP GAS detector.

WARNING

The detector is a safety device and needs to have continual power. Never switch off or allow it to be disconnected from its power source. If disconnected from the power source, it would not operate properly resulting in someone being

seriously injured or killed.

LP GAS SAFETY SUGGESTIONS

Improper use or storage of LP gas, gas tank and/or appliances could result in a gas leak causing asphyxiation, a fire hazard and/or an explosion. Always handle any LP gas tank, container, or appliance with great care. Failure to follow the suggestions on the previous page, as well as the ones in all other manuals, could result in you or others to be seriously injured or killed.

TEST THE DETECTOR

It is important that you test the LP gas detector before each trip and after prolonged storage. When camping for an extended time test the detector monthly.

When long term camping, check the detector every few weeks. Test the LP Detector as described in the owner's manual after removing your unit from storage or before taking a trip.

INSTALLATION

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 the regulator vent faces downward and the cover is kept in place to minimize vent blockage which could result in excessive gas pressure causing fire or explosion.

SMOKE ALARMS AND FIRES

The smoke detector is mounted in the ceiling in the front of the living area. It is very important that you read the manufacturer's instructions for operation, testing, and the maintenance of the smoke detector.

Smoke detectors are the single most important means of preventing fatalities by providing an early warning signal so you and your family can escape.

TEST THE ALARM

It is important that you test the smoke detector before each trip and after prolonged storage. The manufacture's manual will explain the best way to test your smoke detector.

PLAN AN ESCAPE ROUTE

Make a floor plan indicating all doors and windows and at least two (2) escape routes from each room. Have a family meeting and discuss your escape plan, explain to everyone what to do if they hear the alarm.

Determine a place outside your motorhome where all of you should meet. Familiarize everyone with the sound of the smoke alarm and explain they must leave the motorhome immediately when they hear it. Practice a fire drill at least every six months.

CLEAN THE ALARM

The alarm should be cleaned at least once a year. To clean your alarm, remove it from the mounting bracket. Clean the interior of your alarm by using compressed air or a vacuum cleaner hose to blow or vacuum through the openings around

the perimeter of the alarm. Clean the outside of the alarm by wiping it down with a damp cloth.

WARNING

Do not remove your smoke detector unless replacing it with a new one. Never make alterations to the smoke detector. Make sure it is in good working order.

IF THE ALARM SOUNDS

If a smoke detector goes off, you have seconds to respond so get everyone out as quickly as possible. Your best response is to leave your motorhome immediately, gather at your prearranged meeting place and call 911.

When you hear the alarm:

Leave immediately using your escape plan. Every second counts so do not waste time getting dressed or picking up valuables.

In leaving, do not open any inside door without first feeling its surface. If hot or if you see smoke seeping through cracks, **DO NOT OPEN THAT DOOR!** Instead use an alternate exit. If the inside door is cool, place your shoulder against it, open it slightly and be ready to slam it shut if heat and smoke rush in.

If the air is smoky stay close to the floor. Breathe shallowly through a cloth, wet if possible. Once outside, go to your selected meeting place and make sure everyone is there.

Call the fire department from your neighbor's residence **NOT FROM YOUR MOTORHOME!**

Do not return to your motorhome until the fire officials say that it is all right to do so.

Test the smoke detector before each trip and after prolonged storage. Without a working smoke detector to alert you or others, the chances of dying if a fire breaks out are extremely increased.

BUCKLE UP

Seat Belt Systems

It is very important that you read the chassis manufacturer's seat belt information section. This section will have vital information concerning proper use, operation, and safety information of seat belts. Seat belts work for everyone. They are designed to secure a person in the vehicle helping to reduce the chance of injury or the amount of injury resulting from accidents or sudden stops. Do not allow anyone to ride on the sofa, recliner (unless a seat belt is provided within the unit) or the bed or anywhere there is not a seat belt to properly secure them. You never know if you will be involved in an accident or crash so please make sure that you and all your passengers use the three-point and/or lap seat belts while your vehicle is in motion.

IMPORTANT NOTICE

Anyone relocating, altering, or modifying a seat belt in anyway is assuming the responsibility for any consequences.

WARNING

The seat belts are mounted per the Federal motor Vehicle Safety Standards (FMVSS). Never relocate or make alterations or modify the seat belts. Relocating, altering, or modifying seat belts could result in improper operation resulting in someone being seriously injured or killed.

Never allow anyone to ride on the bed, cargo area or anywhere he or she cannot wear a seat belt properly. If you are in a crash and not wearing a safety belt, you could hit things inside the vehicle or be ejected from it. Always fasten your safety belt and check that your belts are fastened properly.

SEAT RESTRAINTS FOR BABIES, TODDLERS AND OLDER CHILDREN

Be aware that there are special things to know about safety belts concerning babies, toddlers,

and older children. Failure to follow the rules for babies, toddlers and older children could result in them being seriously injured or killed.

In every state in the United States and in the Canadian providence the law states children up to a specified age must be restrained while in a vehicle. Babies and smaller children should always be restrained in a child or infant restraint and never held on someone's lap. It is against the law in most states to hold a baby or child or allow them to be unbuckled while the vehicle is in motion. Follow the requirement of the state/providence laws that govern the state/providence you are driving in. Follow the manufacturer's instructions when installing and using an infant and child restraint.

WARNING

Improper installation of an infant or child restraint can lead to improper protection. If the child is not secured properly, it could allow the child to move about or come out of the restraint and become airborne in a collision. In either case the child could sustain serious or fatal injuries.

Always follow the manufacturer's instructions when installing and using the restraint to properly protect the infant or child.

SEAT BELT OPERATION

Again, we stress that it is very important that you read the chassis manufacturer's seat belt information section to find the complete information concerning the proper use and operations of seat belts as well as detailed safety information.

THREE-POINT (LAP-SHOULDER COMBINATION)

The chassis manufacturer provides the driver and passenger front seat belts. Refer to the chassis manufacture for proper operations of this type of seat belt.

LAP BELT

These belts maybe located in the sofa area or recliner.

Pick up the tongue plate portion of the belt (the loose end) pull it across you.

Lengthen the belt by turning the tongue to the right angle and pull across until it reaches the buckle.

Push the tongue plate into the buckle until it clicks.

Pull up on the latch plate to make sure it is secure. To tighten the belt, pull the loose end of the belt through the tongue until it fits snugly across the hips.

WARNING

In an accident, you can be seriously injured if your seat belt is loose or twisted. A loose belt could allow you to move forward too much, which could increase the chance of injury.

During an accident, a twisted belt may not be able to provide the full protection.

MAINTENANCE

Periodically make sure the safety belt reminder light and all your belts, buckles, latch plates, and retractors are working properly and are anchored correctly. Look for any torn, frayed, loose, or damaged belts or attachments. If you find any items that may be defective or loose have the component of the seat belt repaired or replaced immediately.

If your motorhome has been involved in an accident have the seat belts inspected for proper operation by an authorized technician and to make sure the components have not been damaged in any way. If any of the belts have been stretched and/or their components have

been damaged, they must be replaced.

Do not attempt to disassemble or modify the seat belt system at any time.

WARNING

Frayed, torn, stretched or damaged belts, as well as, loose, or broken attachments, could come apart in an accident leaving you without protection. You must have any defective or loose component of the seat belt repaired or replaced immediately.

IMPORTANT NOTICE

If the seat belt is not out of the way of the door you can damage both the belt and your vehicle.

CAPTAIN'S CHAIRS

These seats can be adjusted so you maintain correct height position and should aid the driver's visibility and vehicle control. When adjusted properly and under normal driving conditions set the seat to make sure you have enough head clearance.

Please read your chassis driver's manual for more information on the captain chairs operating instructions.

Due to the maximum adjusting capabilities of the mid and high back air suspension seats, it is possible to combine the seat back recline adjustment and the seat slide adjustment so that the seat back contacts the sidewall.

Your Captain's chairs may also have a factory added option to swivel. To swivel the chair reach underneath the front of the seat and move the lever to the left. And release the lever when you have achieved the position you desire. When the coach is in motion both captain's chairs must be locked in the forward-facing position. When adjusting the seats make all adjustments while seated and before the engine is started. Seat belts should be always worn when

operating the vehicle.

WARNING

Make sure the front seat releases are in their locked forward position before moving the coach. The forward/locked position is the only one certified for safety and to be used while the vehicle is in motion.

Serious injury may occur if head clearance is not adequate. Before driving or riding in the vehicle, ensure that there is adequate head clearance at maximum upward travel of seat.

IMPORTANT NOTICE

It is the responsibility of the driver to adjust the seat to prevent damage to the seat and the cab interior. Rotate the seat back into place by going the same direction you came.

Do not turn the seat 360 degrees. This will damage wires that are behind the seat.

It may be necessary to move the seat forward or backward to clear the vehicle walls and dash as it turns.

FUELTYPE

Fuel Tank Safety

Always use the recommended fuel listed in your chassis manual. Fuel vapor burns violently. To avoid a fuel fire, turn your engine off when you are refueling. Never allow open flames near the filler neck and never smoke while refueling.

FUEL CAP

When removing the gasoline fill cap, rotate it slowly to release any built-up pressure that may have occurred within the fuel tank. You will hear the hissing sound of the pressure being released, when the noise has stopped, you can completely remove the cap. Always replace a lost or damaged fuel cap with the same style as the original one.

WARNING

Always remove the fuel cap slowly to allow any internal pressure to be slowly released. The use of the vehicle or on hot days the fuel may warm up causing vapor to build up within the fuel tank. A sudden release in the pressure could cause the fuel to spray out creating a potential hazard and result in you or someone being seriously injured or killed.

IMPORTANT NOTICE

Using a different style of gas cap as the original could cause a malfunction indicator lamp to light and may damage your fuel tank and emissions system.

VEHICLE WEIGHT, LOADING, AND LEVELING

Your Fleetwood RV and Holiday Rambler motorhome is designed to allow for a reasonable weight of passengers and/or cargo items. The weight of the empty vehicle will vary based on the equipment and options that are installed.

It is very important that you know the various weight limits/ratings of your motor home. The driving ability and handling for the unit could be greatly altered or affected if your unit is overloaded.

A motorhome is designed to carry loads that are specified by the chassis manufacturer. These load and weight limit signs are posted on the labels affixed to the driver's and passenger's door jams.

The Gross Vehicle Weight Rating (GVWR) is a combination of the structure and the suspension components.

The Gross Combination Weight Rating (GCWR) is the maximum amount of weight allowable for your fully loaded vehicle (passenger, food, fuel, water systems, supplies etc.), and if applicable the weight of any towed vehicle.



LOADING THE VEHICLE

When loading the outside storage compartments, try to distribute the load as evenly as possible, from side to side, and front to back. Note that gray, black, and freshwater tanks need to be considered, as they will significantly change the weight due to their weight.

Inside the cargo should be distributed as evenly as possible from side to side and front to back. Store heavier items on or close to the floor as possible. Lighter items may be stored in overhead cabinets, closets, and drawers. Secure items and cabinet latches to avoid sudden shifting of cargo during travel, sudden stops, or emergency maneuvers.

WARNING

Do not exceed the GVWR or GCWR. Overloading can cause a serious potential safety hazard. The driving ability and the handling of the unit could be greatly altered or affected if your unit is overloaded resulting in an accident which could

cause someone to be seriously injured or killed.

Do not modify your vehicle by adding additional equipment or racks to carry additional cargo. This could cause you to exceed your weight limit and/or place the vehicle out of balance, altering the handling of the vehicle, causing a loss of control, which could lead to you, or others being seriously injured or killed.

IMPORTANT NOTICE

Overloading can cause parts to break and/or shorten the life of your vehicle or could lead to costly repairs that may not be covered by your warranty.

WEIGHING THE UNIT

Any vehicle can have the potential of being overloaded and it may be necessary to remove some of the weight or redistribute items to make the load even. You may want to weigh the unit from time to time to make sure you are staying within the weight limitations specific to your motorhome.

When weighing your motorhome, it must be weighed when it is fully loaded. This includes passengers, food, clothing, water, fuel, supplies, any towed vehicles behind a motorhome, and the tow vehicle. It is important to weigh your motorhome at a location that can provide axle-end specific weights.

You should not expect to measure equal loads at both ends of the same axle, because floor plans and component locations vary significantly, however, you should distribute the load to obtain the best balance possible.

HOW TO WEIGH YOUR VEHICLE

When weighing the motorhome at a public scale the scale operator will recommend the method to use to determine the weight values.

It is very important that you read the chassis owner's manual. It will also give additional information on the complete procedures for weighing and loading your vehicle.

Procedure 1 Drive only the front axle of the motorhome onto the scale compare this weight to the GAWR (Gross Axle Weight Restrictions) listed on the federal label.

Procedure 2 Pull forward until both front and rear axles are on the scale. Compare this weight to the GVWR (Gross Vehicle Weight Restrictions) listed on the federal label.

Procedure 3 Pull forward until only the rear axle is on the scale. Compare this weight to the GAWR listed on the federal label.

NOTE

After weight determination, if there is any weight excess, relocate or remove portions of the cargo until proper tolerances are obtained. Cargo should be distributed evenly from side-to-side and front-to-back. Store heavier items on or close to the floor as possible. Light items may be stored in cabinets, closets, and drawers. Secure items to avoid damage in sudden stops and/or accidents.

WARNING

Whenever hauling cargo be sure it is secured in position to avoid shifting during quick stops, cornering, or in case of an accident. Unsecured cargo could cause you to lose control of your vehicle and result in you or others being seriously injured or killed.

Overloading can cause your tires to overheat resulting in too much friction and you could have an air-out which could result in a serious accident. Be sure that the overall weight, including passengers, equipment and supplies etc., does

not cause your motorhome to exceed axle loads as well as the overall vehicle loads specific to your motorhome.

IMPORTANT NOTICE

Overloading can cause your tire to overheat, wear prematurely and/or damage the tire.

LEVELING JACKS

It is very important that you read the leveling system manufacturer's manual before operating leveling jacks for the first time.

The jacks need to be kept in good condition. In rainy, snowy, or icy weather the jacks may become caked with mud and/or ice causing problems with its operations. Periodically check the leveling jacks, use water to spray away the mud or break away the ice before you try to use them.

The leveling system should be cycled once a month or whenever the vehicle is used to keep the system in operating smoothly.

At the beginning of the season check the oil level in the jacks and check the hydraulic lines and wiring for damage and wear. It is advisable to check the oil again before you leave on a trip. Yearly check the framework for rust or damage. Periodically inspect the hoses and lines. Before moving the vehicle make sure the jacks are completely stored. Never move the vehicle with the jacks down on the ground.

Refer to your owners-manual for the proper procedures for manually retracting your jacks should you lose power to the pump. A handle is provided to perform this task.

SLIDE OUT MECHANISMS

Your coach is equipped with electric slide out systems to move the slide rooms in and out. The slide out system is powered by your batteries. Your batteries are very important to

the operating system. Maintaining your batteries is crucial. The batteries should be fully charged, and the cable terminals and battery posts should be clean to avoid erratic operations due to low voltage. The switch for the 12-volt electrical service is located on the side panel of the counter in the step well area.

The slide mechanism must be kept in good condition. Watch closely as you extend the room to make sure the slides are not binding. To move the slide room in or out hold the button continuously until the room has reached its inner or outer most position.

OPERATING

The slides are controlled through the multiplex system. Please make yourself familiar with the use of this system.

Before you extend the slide room, make sure the level jacks are in place and the unit is level. If the unit is not level the mechanism can bind and if the weight is not distributed properly the slide-out can lean.

These types of situations can damage the slide out mechanism.

By using a level (small bubble type should work) either on a counter, dining room table, or other areas in the RV can help assure the vehicle and the slide rooms are level.

When you are parking the RV, make sure that the slide out can move freely and that the area is clear of any obstructions. Watch closely as you extend the room.

Refer to your owner's manual on the proper procedures for manually extending or retracting your slides should you lose power to the actuator.

Before moving check around the inside slide

room area to ensure that personal items such as ceramic flowerpots, small tables, plants, etc. are not going to fall as the unit moves out.

A manual override is installed to assist you in case there is a failure with the electrical power. Refer to your manual for more information on this feature.

MAINTENANCE

Keep the slide-out mechanisms clean. Road grime such as dirt, salt, ice, can build up on the mechanism impairing operation. You can clean them by using a mild soap and water solution.

Avoid damage to the slide out mechanism.

Before you slide the room, make sure the leveling jacks are in place to avoid improper weight distribution or leaning.

To avoid damage to the slide out be sure the unit can slide freely, and the area is clear of any obstructions.

Your slides are equipped with rubber wiper blades located at the top, along the sides, and across the bottom of the slide out opening that will assist in wiping off debris when the slide out is being operated. Periodically check the wiper seals to ensure they are free of debris.



TIRES

Tires, wheels, and towing

The tires (original) supplied are designed to meet the federal specifications and to provide a reliable and safe mode of transportation. Since the tires are the sole component between the road and your vehicle you must provide the proper care and maintenance to help ensure your safety and helps to maximize the life of the tires. When a tire is replaced be sure to stay within the guidelines listed on the Federal ID tag.

TIRE PRESSURE

Keeping your RV tire pressure at the proper levels will help ensure your safety and the life of your tire. Under inflated or over inflated tires can result in damaging the tire and causing a handling problem with the vehicle. Inflation pressure should be adjusted to handle the maximum tire load, and all tires on the axle should carry the same inflation pressure.

Never reduce the tire pressure below the vehicle manufacturer's recommended levels to support load conditions to try to improve the ride quality of a vehicle. The difference will not significantly change and or the value of tire durability and optimum operation will be affected. Inflate the tire pressures to specification listed on the Certification Label, located in the driver's door.

Check when tires are cold, this is either when the motor home has not been driven more than one mile or that has sat at least 3 or more hours. Failure to keep the tires properly inflated can cause damage or premature wear of tires and waste gasoline.

WARNING

Under inflated tires can cause the tire to overheat, which can result in the tire losing air suddenly and could catch on fire.

Over inflated tires are more likely to be cut or punctured by sudden impact (such as a pothole) and result in a serious accident. Check all tires frequently to maintain the recommended pressure.

Either of these conditions can result in bad handling resulting in a serious accident.

TIRE MAINTENANCE

Motorhome tires need extra care and attention and must be properly maintained to help ensure safe transportation and maximize the life of the tire.

TIRE INSPECTION

A visual inspection of the tires should be performed monthly, more often when camping, before leaving on a trip, and after an extended storage period.

Check each tire for proper inflation.

Check the valve stems and caps for damage.

Check for any type of road or curb damage to tread or sidewall areas.

Check both the inside and outside of the sidewalls and tread for tire of wear, cracking penetrations and/or cuts in the tread or sidewalls.

Check for signs of overloaded or under inflated tire use. This can show up as unusual discoloration or waviness in the side walls, bulging in the bead area near the rim flange or a progressive tread wear on one tire more than the others.

CLEANING TIRES

Do not allow sand, mud, or dirt to build up on your tires.

Regularly wash using with a mild soap, water and a soft brush or use a cleaner that is especially made for tires.

IMPORTANT NOTICE

Do not use tire cleaners that contain petroleum-based substances or solvents. Any cleaner that contains alcohol or petrochemicals can cause and accelerate deterioration and cracking. Silicone oil-based cleaners can dissolve the protective wax that protects the tire against the damage.

REPLACING TIRES

Read all the information supplied in the original tire manufacturer's owner's manual concerning tires and their use and when they should be replaced.

Use the recommended tire size listed on the Safety Compliance Certification Label.

Do not replace a new tire with a different tire type and/or tire brand than the other tires on your unit.

WARNING

Poorly maintained, badly worn, or damaged tires are dangerous. They can alter the handling of the vehicle or have an air out causing a loss of control resulting in a crash. To help avoid serious injuries or death resulting from an accident maintained and replace tires as needed.

Mixing different sizes or types (radial and bias-belted tires) can cause the vehicle to handle improperly causing you to lose control while driving and crash. Be sure to use the same size and types of tires on all wheels.

STORING TIRES

It is best for the tires if the motorhome can be stored in a cool dry area away from any major heat source the sun or from the extreme cold conditions.

Cover the tires if they are going to be stored in the sun.

WHEELS

Maintaining wheels on your motorhome will not only enhance the appearance, but it is also essential for safety. Periodically checking one's lug nuts for tightness, wear, and tear, especially before you start out on a trip, will help assure that you will have a safer trip plus help you avoid unnecessary damage.

Inspect your wheels

Check the lug nuts and bolts for security and tightness. If the wheel bolt or nuts keep coming loose, you should replace them. Inspect and replace wheels that are bent, cracked, rusted, or corroded.

Replacing your wheels

Each wheel should have the same load-carrying capacity, diameter, width, offset, and be mounted the same way as the one it replaces.

Refer to the chassis owner's manual for information on wheel replacement and torque specifications.

WARNING

Using the wrong replacement wheels, bolts or nuts can affect the braking and handling of your vehicle and could cause an accident resulting in you or someone being seriously injured or killed.

GETTING A TOW

Under extreme circumstances it might be necessary to tow your vehicle. Caution should be taken when towing. Improper towing can cause damage to the front skin and structure

of the motorhome, including the fiberglass cap and bumper. Towing should only be done by a competent towing service.

It is important that you read the chassis owner's manual on complete towing information.

TRAILER TOWING

Before you tow any vehicle behind your motorhome you need to understand that the towed vehicle tongue weight will reduce your load capacity. If you are towing a vehicle or trailer, never exceed the maximum gross weight rating.

For specific towing restrictions and guidelines refer to the trailer guidelines published by the chassis manufacture and refer to your specifications and the information in the chassis owner's manual.

WARNING

Never ride or never allow anyone to ride in a towed vehicle. This could result in someone being seriously injured or killed.

BEFORE YOU HIT THE ROAD

Driving your motorhome is comparable to driving your family car once you become accustomed to the feel of the controls and to the reference points from the driver's seat relating to the position of the RV traffic. Planning your trip and preparing as much as you can before you leave will help ensure that you will have a safe and enjoyable time.

Refer to the Safety Section in this manual regarding captain chairs seat adjustment. Make sure the seat is positioned so you can see all the instruments, reach the gas and brake pedals, and have a good view of the road in front and behind you. Make sure everyone is wearing a seat belt.

Chart your route by consulting maps and guidebooks that are available as to the condition of roads, and other circumstances such as low bridges and tunnels.

Remember that the weather can change quickly and alter the road conditions. Listening to radio stations or weather monitor channels both in route and at your final destination can help you stay abreast of the conditions. Listed below are a few recommendations when driving your motorhome.

NOTE

You must be familiar with the height and width of your coach. There are many low bridges and narrow roads on which your coach will not fit. Review your route for any of these conditions before you start your travels.

DRIVING TIPS

Read your chassis manual for information on proper driving skills, operations, use and safety. Drive with consideration on the highway by following the rules of the road and observing all applicable speed and safety regulations. Keep pace with the average traffic flow and at the proper speed limits.

The best cruising speed for your RV will vary with the road and weather conditions. Higher speeds may result in a sharp increase in fuel consumption.

Allow a safe distance in which to stop. Allow more time to brake, or change lanes, and to merge onto a busy highway. Larger vehicles do take more time to accelerate and slow down. Watch the road ahead and around you. Check either side for vehicles, animals, or children that could suddenly dart in front of you.

Allow for the length and width of the vehicle. Always allow extra room in cornering and when

changing lanes. Make it a habit to frequently check the side mirrors.

Learn to use the view of the roadway behind as a gauge in keeping a good lane position. When passing, avoid sudden maneuvers.

Check rear view mirrors and signal lane change. Remember that additional time and distances are required to pass safely. Never follow another vehicle closer than one vehicle length for each 10 m.p.h. Pump the brake pedal lightly to stop on wet or icy roads.

Observe proper vehicle speeds when ascending or descending a hill and always operate in the proper transmission range. Down shift on hills to avoid overheating or undue engine loads. Allow for the extra height of your RV and check for low hanging tree branches. Avoid low roofs and canopies when pulling in for fuel or service.

Keep headlights, taillights, and windshield (both inside and out) clean as well as side windows. Keep your headlights properly adjusted. Allow extra time when the weather conditions are less than favorable for driving. It may be necessary to pull off the road when the weather becomes severe.

TRAVEL CHECK LIST

The following are items you should check before you leave on a trip.

Check the tire pressure and the condition of the tires.

Check air bags for the proper pressure.

Check the battery(s) for proper charge, proper cable connections, and no physical damage.

Check the coolant level.

Check all fluid levels including, transmission fluid, power steering fluid, master cylinder brake fluid, radiator recovery system reservoir, windshield washer reservoirs; etc. (depending on equipment). Check engine oil.

Check marker lights, turn signals, flashers, backup lights, headlight, running light, etc.

Close and secure windows, awnings, vents, exterior access door, electric doorstep, and other exterior items. Close and lock dead bolt in security door when traveling.

Crank down TV antenna, check for any overhead clearance problems. Stow electrical power, water hook-up hose and sewer hose.

Turn off gas line shut-off valves to appliances. Make sure all control knobs on range, etc. are off. Turn off LP gas tank.

Drain toilet bowl.

Turn off living area water pump.

Adjust window treatments for maximum visibility. Close and latch/lock all cabinet doors. Remove all loose objects from counter tops, sinks and other surfaces. Make sure both front captain's chairs are locked in the forward position.

Check vehicle fuel level.

SUPPLIES AND EQUIPMENT

The following is a list of supplies considered as normal necessities to be carried in your motorhome.

Bedding
Pillows
Collapsible clothesline
Laundry bag
Laundry soap
Scissors and sewing kit

Stick matches
 Flashlight and extra batteries
 Lantern
 Litter bags with wastebasket
 Portable barbecue grill
 Charcoal / firewood
 First aid kit
 Snake bite kit
 Insect repellent
 Sunscreen
 Paper towels
 Napkins
 Aluminum foil
 Plastic bags
 Small ice chest
 Skillet, two pans with lids and hot pads
 Cooking fork, spatula, carving and paring knives
 Mixing bowls, measuring spoons, and containers
 Coffee pot and coffee cups
 Corkscrew / bottle opener
 Can opener
 Salt & Pepper shakers
 Sugar and other spices
 Tablecloth for picnic table
 Folding chairs
 Plastic / paper plates, bowls, and glasses,
 Silverware
 Scoring pads
 Sponges,
 Cleanser, dish washing soap,
 Broom with dustpan
 Mop
 Small vacuum cleaner
 Whisk broom
 Washcloths, hand towels, and bath towels,
 Kitchen towels
 Toilet tissue,
 Soap & shampoo,
 Toothbrushes & toothpaste
 Kleenex

EQUIPMENT AND TOOLS

Listed below are general tools or equipment that are commonly packed when traveling.

High pressure water hose
 Sewer hose extension
 Wheel chocks
 Road flares and reflectors
 Tow chain
 Strap or cable Shovel
 Ax
 Bucksaw Scissors or hydraulic jack
 Tire gauge
 Spare fuses and light bulbs for interior and exterior lights Tool kit
 Trouble light with a long cord
 Engine oil
 Transmission fluid
 Power steering fluid, and engine coolant
 Water pressure regulator
 Extension cord
 Tire pressure gauge

NOTE

We do not recommend the use of power cord adapters.

LP GAS SYSTEM

LP gas provides the fuel for your hot water, comfort heat, cooking and refrigeration. Although LP gas burns readily and with intense heat, it is safe and efficient, if you handle with care and provide proper maintenance.

LP gas is colorless and has a distinctive odor. It burns with a clean blue flame and is either propane or a mixed blend of propane and butane. Although butane burns hotter than propane you cannot use it if the temperatures are below 32 degrees (butane liquid will not vaporize at lower temperatures). Propane does not burn as hot as butane but can be used down to 40 degrees F below zero. Ask your LP supplier what will be best used for your traveling needs.

The propane is stored in an LP gas tank permanently mounted on your chassis. In the tank, the LP liquid propane is pressurized and turns to a vaporized gas. If the service valve is on, the gas will pass through a regulator, which reduces the pressure of the gas, and the low-pressure gas passes through the gas lines to the appliances.

The consumption is dependent on your lifestyle and how often you would use the appliances. How much you cook, how often you use hot water is used or how often it is necessary to heat your motorhome, are all factors in the consumption.

Remember, it is important that your LP Leak Detector is operating properly before you use the LPG for any of the above functions. The detector will provide you with an early warning, which could save your life as well as the lives of people around you.

WARNING

Failure to follow proper procedures concerning the LPG can cause an explosion or a fire resulting in you or others being seriously injured or killed. Review the information below as well as the LPG manual concerning operations of the detector and LPG tank.

LPG is highly flammable and gas burns readily and with intense heat. Check that your LPG detector is operating and functions properly.

Never place or store LPG containers inside the vehicle. LPG containers are equipped with safety device that will relieve excessive pressure by discharging gas to the atmosphere. Refer to the LP section in this manual and in the LP manual for proper safety instructions and operations.

Before refueling your motorhome or a tow vehicle close the LP Tank service valve, and turn off all

pilot lights and appliances, and do not smoke, strike matches or use lighters.

Do not allow the LP bottle(s) to be filled beyond 80% liquid level. Overfilling will eliminate the safety cushion for expansion which in turn can result in the discharge of gas through the pressure relief valve.

LPG BASICS

LP gas, known also as LPG or propane provides the fuel for comfort heat, cooking, refrigeration, and hot water. Although LP gas burns readily with intense heat it is safe and efficient if you follow the safety rules and handles it properly.

The LPG system consists of the use of an LPG tank (bottle or cylinder) regulators, pressure relief valve, and supply lines and appliances.

LPG is either liquid propane or a mixed blend of propane and butane and is colorless, has a distinctive foul odor (rotten egg smell) and burns with a clean blue flame. The type you use could depend on the season and or climate you are traveling in. Butane burns hotter than propane but can only be used where temperatures are above 32 degrees. The butane will not vaporize at the lower temperatures, where the propane alone can be used down to 40 degrees F below zero.

LP TANK

A high-pressure storage tank also referred to as a bottle or cylinder. The tank is equipped with a regulator and a 10% or pressure relief valve for your safety. The tank holds the liquid gas form of the gas and under the high pressure the liquid gas is converted into a vaporized gas. When the tank service valve is open, the gas passes through a regulator reducing the pressure, and the lower pressurized gas flows through the fuel supply lines to the LP appliances.



LP REGULATOR

The key element or the heart of the LP system. The gas is vaporized by high-pressure in the tank and the pressure of the vapor must be reduced to be safe. The gas passes through the regulator that reduces the pressure to safely pass through the lines.

PRESSURE RELIEF VALVE

It is located on the top of the tank in the vapor area to monitor the gas and vapor levels. The tank should never be filled above 80% to allow room for the expansion of the gas during temperature changes. This valve will release if you overfill your tank.



OPERATING

It is very important that you read the manufacturer's instructions for operation and the maintenance of the LPG tank and regulator. The manual will also have vital information concerning safety.

The LP gas service valve must be open to operate any of the LP appliances. When you are opening the valve turn it slowly and listen at the regulator, if there is a continuous hiss then you have either a leak or an open valve on an appliance.

It is possible that the first time you use your LP gas or after you have had your tank refilled that there may be air in the supply lines, preventing pilots or burners from igniting.

To purge the system, turn a burner on and keep lighting until the flame is consistent.

Proper ventilation must be provided when using the gas with the appliances to avoid asphyxiation. Open a window and/or open the vents.

If you have a forced air furnace set the temperature on your thermostat to heat and allow the furnace to cycle on and off until the burner remains lit.

SYSTEM MAINTENANCE

The system should be checked by a trained, certified LP gas service personnel before a long trip and before and after storage. If you do not take long trips, nor do you store your unit then we recommend at the very least, the complete system and its components are checked yearly. LPG is a noncorrosive substance. The inside of the tank should remain in good condition. Keep the outside of your tank clean and rust free.

LPG HOSE

Regularly check the flexible LPG gas hoses connected to the tank for signs of break down.

GAS LINES AND FITTINGS

Regularly check the tank and line connections to ensure they are tight. If any of the connections are loose, tighten them. If they remain loose or appear to be stripped, contact your dealer or servicing dealer, and have repaired.

CHECKING FOR A LEAK

Do not use a match, a candle, or lighters. Purchase and use an approved leak detector solution. Do not use household soaps or products that contain any type of chlorine or ammonia substances.

Spray the solution around the fitting and on lines and watch for bubbles indicating a leak.

NOTE

If you detect a leak, turn off the gas and appliances and contact an authorized LP gas dealer and or service center and have the repairs made. Never try to make the repair yourself, use only trained, certified LP gas service personnel.

SERVICE VALVE

Check the valve every time you fill the tank to make sure it opens and closes tightly by hand. If you a need to use a tool or wrench to close the valve, get it repaired or replaced immediately by trained, certified LP gas service personnel. Do not attempt to do the repair by yourself.

REGULATOR

Periodically check the regulator to make sure it is clean and is not clogged or corroded. This could cause higher pressures that could cause the component to fail. If it is clogged, you can use a small brush such as a toothbrush to clean it. During the yearly checkup, have the regulator checked for correct pressures and a lock up

pressure test to assure it is shutting down properly.

AVOID REGULATOR FREEZE UP

Moisture in the tank and/or an over filled tank can cause a freeze-up. Keep the tank valve closed when the tank is not going to be used for a long period of time and especially if the tank has been allowed to become empty. When storing your vehicle or when using in colder temperatures, ask the LP gas supplier about additives that can be put in the tank to prevent freeze up.

BLEEDING THE LINES

Turn a burner on and keep trying to light it, allowing time for the air to be purged and the flame stays constant. You should then be able to light the other pilots.

A FAINT GAS SMELL

Follow proper safety procedures for a gas leak. All gas leaks, no matter how faint, are dangerous. Check the tank and lines for leaks - see *checking for leaks*.

If you have recently filled your tank, it is possible that some of the gas leaked out. Before trying to light the pilots, air out the unit and turn on the fans for at least 30 minutes.

ELECTRICAL SYSTEM AND BATTERIES

The coach's system has been designed and installed in accordance with the safety requirements of ANSI Standard A119.2 and the National Electric Code. Any changes, additions and/or modifications that you make may develop a hazardous condition. Be sure to consult your local authorized dealer for advice concerning changes or additions.

IMPORTANT NOTICE

Anyone making a change, an addition and/or a

modification to the electrical system is assuming the full responsibility of any consequences.

WARNING

Do not alter; make changes, additions and/or modifications to the electrical systems. Doing this could lead to a hazardous condition resulting in you or someone being seriously injured or killed.

ELECTRICAL SYSTEM BASICS

To provide your motorhome with electrical power for both camping and traveling there are three different electrical systems. There is 12-volt DC (direct current) Automotive System, a 12-volt DC (direct current) Coach System and a 120-VAC (alternating current) Coach System. The 120-VAC system requires use of an external source 120-VAC outlet, a generator, or inverter. This section focuses on the Coach Electrical System.

12-VOLT DC AUTOMOTIVE SYSTEM

The battery(s) provided by the chassis manufacturer supplies the starting power to the engine and power for the automotive lights, etc. Review the chassis manufacturer's manual for operation, care, and maintenance. Never switch the 12-volt deep cycle coach battery with an automotive battery.

12-VOLT DC SYSTEM

An on-board deep cycle marine type battery(s) supplies the power for your accessories while you are traveling, camping, or when a 120-VAC hook-up is not available. This system provides power for most of the coach lights, the water pump, furnace, radios, vent fans, and sometimes the refrigerator. Never switch the automotive battery with the deep cycle coach battery.

120-VAC SYSTEM

To use this system, you need a 120-VAC power source or an inverter. A shoreline (extension cord) can be used to plug into a properly rated

outlet at the campsite or home or if available on-board electrical generator. When you provide a 120-VAC power source, the electrical system will work the same way as it does in your home. You will be able to run the items such as your toaster, microwave, televisions, sweeper, roof air conditioner, some lighting and other items that require the 120-VAC power to operate.

INVERTER

An inverter converts 12-volt DC from the batteries to 120-VAC to run a limited number of items that need 120-VAC. It also controls the 12-volt power for recharging batteries when 110 is present from shore power or from the generator. Some units are inverter only and the battery charge will come from a separate converter charger. The chassis alternator does not run current through the inverter when charging house batteries.

SHORELINE/POWER CORD

Depending on your unit you will have a heavy-duty 30 power supply cord to supply the power from an external power, 120-VAC connection, such as the camp-site power source, generally referred to as the Shore Power.

GENERATOR

The generator is a self-contained power plant providing the 120-VAC alternating current (120-VAC). It is used to power the roof air conditioners, microwaves, Televisions, vacuum, etc. The unit can be activated while you are traveling to provide power to the major appliances.

12-VOLT DC SYSTEM

The batteries are the heart of the 12-volt DC system and must be maintained. The automotive battery supplies the starting power of the vehicle and supplies the power for the headlights, taillights, other automotive lights, and a backup power source for starting the Generator. The

RV Deep-Cycle battery supplies the power for the 12-volt RV appliances such as the furnace, refrigerator, interior lights, etc. If you keep the RV batteries properly charged you could use most everything, except for the microwave, roof air conditioner, electrical outlets, and the refrigerator in the electric mode. With your inverter turned on you can also use a limited number 110V systems for a limited period.

Unlike an automotive battery that is generally charged through the alternator when the vehicle is running, the RV Deep-Cycle and automotive batteries are charged through the alternator and through your inverter when the external 120-VAC power source is attached. When you are using the 12-volt system without the additional help of the 120-VAC system your power consumption or usage will be determined on individual needs and usage of the 12-volt appliances.

IMPORTANT NOTICE

The automotive battery and the Deep-Cycle RV batteries can never be switched. The automotive battery is designed to provide a burst of energy to start the vehicle while the RV battery is designed to give the power in small increments over a longer period-of-time.

BATTERY MAINTENANCE

It is very important that you read the manufacturer's instructions for operating, maintaining, and charging each of the batteries.

BATTERY TERMINALS

Check battery terminals, monthly, for dirt and corrosion (green powder foam). Corrosion can alter the performance and destroy the battery. Most corrosion can be removed by using a bristle brush soaked in baking soda, rinse with water or as directed in the battery manual.



BATTERY CHARGE

Check batteries for charge, as per the manufacturer's instructions. Before charging any battery, inspect the battery connections for loose or damaged connectors and the battery terminals for frayed conductors. Make sure they are both clean and securely fastened to the battery post.

REPLACING

Replace batteries with the same type, size, and voltage. Read more information concerning the batteries in the *winterizing and storing* section.

WARNING

Before performing any maintenance or working near the battery area, protect yourself from harm by disconnecting the cables using the procedure explained in your battery manual.

12-VOLT MAIN DISCONNECT

Chassis Battery Disconnect



Coach Battery Disconnect
(See Mercedes Owner's Manual for location)

BATTERY DISCONNECTING

The battery disconnects provide a simple and safe way to disconnect the coach or chassis batteries and to prevent unwanted drainage during storage or when you are checking your 12-volt electrical system. The coach battery disconnect is just inside the entry door. Mercedes provides a separate chassis battery disconnect.

The 12-volt battery system plays a vital role in the use and enjoyment of your RV, the battery disconnects can give you peace-of-mind by preventing unwanted discharging of the batteries during extended period of storage. It is recommended that you leave the 12VDC system power on while traveling. Some slide mechanisms require power to the motors to maintain the closed position of the slides.

NOTE:

If you plan to leave your RV plugged into 120-VAC at your home or campsite, it is advisable to check your batteries monthly. If you are going to

disconnect the batteries during storage, make sure they are fully charged before disconnecting.

See the winterizing and storing section for more information concerning batteries.

It is important that you read the manufacturer's instructions for operation and maintenance of the battery disconnect.

IF SOMETHING GOES WRONG

PROBLEM

Pressing the 12VDC main connect switch does not engage 12VDC system.

WHAT TO DO

Batteries may be fully discharged. Recharge batteries or jump with battery direct connections. Check that 12VDC main switches are engaged. Check that chassis battery is switched to the on position.

PROBLEM

Generator will not start.

WHAT TO DO

House battery may be fully discharged. Press and hold the emergency generator start button and the generator start button at the same time. Check 12VDC disconnect is not turned off.

PROBLEM

RV engine will not start, or chassis accessories will not operate.

WHAT TO DO

Check that chassis battery is switched to the on position.

120-VAC SYSTEM

To use the 120-VAC system you must have an external 120-VAC power source. These sources are the generator, shoreline/ power cord plugged into 120-VAC outlet, or an inverter. Your motor-home will use a 30 AMP 120-VAC service. Much like the service in your home this service has several circuits that are protected by breakers (or fuses). All general-purpose receptacles are protected by a GFCI breaker.

30 AMP SERVICE

This is a 120-VAC service that is limited to a total draw of 30 AMPS. This system uses a heavy-duty water- resistant 3 prong power cord. This is not a 240-VAC system. Ensure that you do not plug your unit into a 240-VAC outlet.

The use of an adapter is not recommended, and it would be better to use the on-board generator or inverter/charger if available.



30-amp shore cord receptacle

WARNING

Extension cords are not recommended. By using extension cords to go beyond the length that was originally supplied with your motorhome you could be creating a dangerous situation and/ or a potential fire hazard.

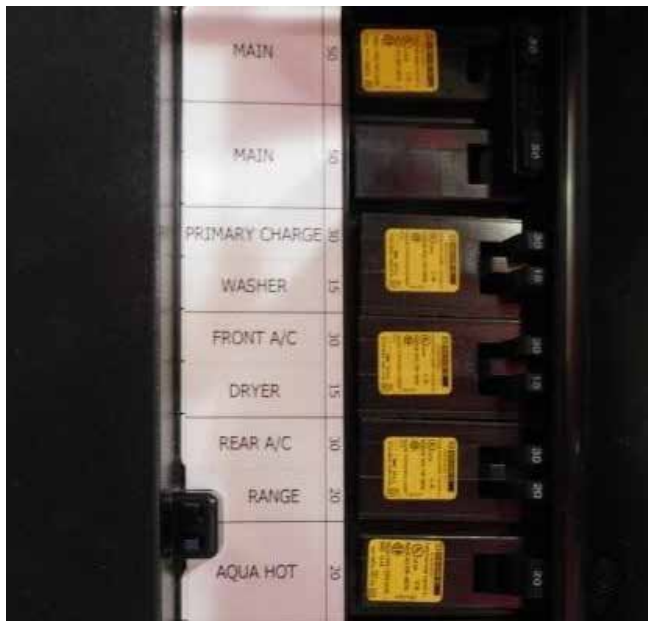
COMMON APPLIANCES AND AVERAGE AMPERAGE

Below is a list of the most common appliances used and the average amps used when operating. Update the information if the amperage of your appliance is different than listed.

APPLIANCE	AVERAGE AMPS	YOUR AMPERAGE
Air Conditioner	15 -17 (Each AC unit)	_____
Refrigerator	3.5to5.7	_____
Water Heater	12.5	_____
Microwave Oven	12.8	_____
Coffee Pot	9	_____
Toaster	10	_____
Electric Frypan	10	_____
Food Processor	6	_____
Crock Pot	1.5	_____
10 Volt Lamp	1	_____
TV	1 to 2	_____
DVD PLAYER	0.5	_____
Small Vacuum	10	_____
Iron	10	_____
Washer/Dryer	6 to 11	_____
Heating Pad	10 to 12	_____
Hair Dryer	2 to 3	_____

CIRCUIT BREAKERS AND FUSES

Like your home, the 120-VAC circuits in the RV are protected by circuit breakers and fuses.



These are the same as circuit breakers used in your house electrical system. The circuits are listed on the inside of the fuse panel door. If a short circuit or an overload happens on the circuit, the circuit breaker will trip and interrupt the current flow.

If a fuse blows, first turn off the affected appliance or appliances check the fuse panel to see which fuse was affected and replace it. Be sure you replace the blown fuse with one of the same amperage rating. If the fuse continues to blow, contact your dealer or a service facility for an inspection.

WARNING

Never replace a fuse with circuit breakers or fuses with a higher amperage than originally installed. Over-fusing may cause the circuit wires to get hot and start a fire.

POWER INVERTER/CHARGER

The inverter/charger is a dual function device. The inverter portion of this device converts 12VDC to 120-VAC.

The inverter draws power from your RV 12-volt DC coach batteries and electronically converts the DC current into standard 120-VAC AC current. This allows you to use electricity to run certain 120- VAC electrical appliances while not plugged into shore power or from the generator. You need to monitor the battery when dry camping, or have the Automatic Generator Start enabled. You should not let the battery be drawn down more than 11.4 volts before plugging the shore cord in or starting the generator.

The charger portion of this device will recharge the RV 12-volt DC coach batteries when you are using your generator or shore power. The length of time it takes to take to recharge the batteries will depend on how much it has been depleted, and by the ambient temperature. Cold temperatures will require longer charge time than in warmer temperature. When running the generator or being plugged into shore power, this will not become a concern because batteries will be continuously charged. All chargers have smart charge technology and will sense the battery condition and step current flow up or down as needed.

NOTE

See the specifications section for exact location (where applicable).

It is important that you read the manufacturer's instructions for operation and maintenance of the power inverter/charger.

GROUND FAULT INTERRUPTER/BREAKER (GFCI)

The GFCI function is to protect against severe electrical shock. You will find all general-pur-

pose receptacles on a GFCI breaker. It is a highly sensitive circuit breaker that senses a problem or fault with the current flowing to through the plug and to an appliance such as a hair dryer, electrical skillet, etc. and breaks the path to the receptacle.

If the GFCI blows or trips, turn off the appliances involved and follow the GFCI manufacturer's instructions on resetting. If the GFCI continues to blow or trip, contact your dealer or service center for inspection and repair.

It is very important that you read the manufacturer's instructions for operation testing and the maintenance of the ground fault interrupter/breaker.

The GFCI is a device that protects against severe shocks due to faulty currents. It is not made to protect against over current. Do not add breakers or fuses that are over the amperage that was originally installed.

To ensure your safety, test the GFCI often. A GFCI that is continually tripping is an indication of a problem in the electrical system. Have your system checked by a certified service technician.

MAINTENANCE

Test GFCI before you leave on a trip, weekly when camping or, at least every 30 days. To test the circuits press the test button which will turn off the power to the outlet. Press the reset button, if the button comes back out then it appears to be working properly. If it does not pop back out, have it checked by a certified technician.

POWER AND SUPPLY SOURCE

APPLIANCE	SELF- CONTAINED/REMOTE OPERATION	CITY HOOK-UP (RV PARK)
Air Conditioner	Generator	120-VAC
Lights	12Vbattery converter/Generator	12V Converter
Microwave Oven	12V Battery	Converter/120-VAC
Range/Oven	Generator	Converter/120-VAC
Refrigerator	Generator	Converter/120-VAC
Vent Hood	Generator	120-VAC
Wall Electrical Outlets	12V Battery	120-VAC
Water Pressure	12V Battery	120-VAC Line
Water Supply	Generator	Pressure system/120-VAC
Battery Recharge	Tank/Generator	City/Park Hook-Up
Drainage-Toilet	12V Battery	12V Converter/120-VAC

GENERATOR (IF APPLICABLE)

The generator is a self-contained power plant providing the 120-VAC alternating currents, this is equivalent to the power in any home. It is normally powered by diesel fuel from your chassis fuel tank, with an optional LP powered version. The generator will not run if the fuel level in the chassis tank drops below a quarter of a tank.

The generator also allows you to enjoy many AC appliances such as your roof air conditioners, microwave, TV's, vacuum, etc. while dry camping. You will also be able to use it while you are traveling to provide power to the major appliances.

It is very important that you read the manufacturer's instructions for operation and maintenance of the generator.



WARNING

The generator engine can discharge carbon monoxide gas, a colorless odorless gas, which can cause death if inhaled.

When operating the generator:

Do not open roof vents, windows or doors which could draw fumes into the interior.

Do not operate the generator where an object such as a building or vegetation may deflect fumes to the inside of your unit.

Do no operate the generator where accumulated exhaust gas could seep inside another occupied vehicle, tent or building.

Make sure your CO detector is working before starting the generator

MAINTENANCE

Check for cleanliness of the generating set, as it affects efficiency.

Check the oil and air filter often and service regularly as per your manufacturer's owner's manual. Have the AC voltage and hertz checked for proper settings?

Keep the governor and choke linkage clean. Check the generator starting battery for clean connections and proper state of charge. Remember the generator runs out of fuel when the tank is below 1/4. Keep the generator compartment clean do not use as a storage area. Check the exhaust system often for leaks.

Check manufacturer's owner's manual for additional information and to ensure that proper maintenance has been performed.

IF SOMETHING GOES WRONG PROBLEM

Generator will not start.

WHAT TO DO

Check the fuel level. It must be 1/4 full before it will run and should be filled at this level. If you have continually tried to start it, it may be flooded. Wait a few minutes before trying again. Check the oil level; it may not start if the oil is too low.

PROBLEM

Generator has started but is not powering.

WHAT TO DO

Check the fuse on the generator - if blown replace with same amps as originally installed. Check the main breaker on the generator and reset if necessary.

PROBLEM

Makes a clicking noise when trying to start.

WHAT TO DO

Check the battery to see if it has a bad ground or connection or if the battery is low. Check the position of the battery disconnect; if not engaged, change.

Refer to your owner's manual for more detailed troubleshooting information.

AGS setting in multiplex

AUTOMATIC GENERATOR START CONTROL SYSTEM (AGS)

If you have this option, it is controlled through the multiplex. The AGS is a multifunction device that provides automatic on and off operations for your generator. This system monitors the coach battery and when low, it starts the generator and has a display to show that the generator is running, plus it will display if there is a problem with the generator (see AGS picture page 33)

Read the manufacturer's instruction manual for operation testing and the maintenance of the AGS.

LIGHTING, OTHER SYSTEM CONTROLS, AND MONITORING (MULTIPLEX SYSTEM)

The multiplex system is designed to control and monitor almost all the systems in the coach from a main touch screen in the living area and from lesser function strategically place smaller push button panels throughout the coach. Climate, lights, generator start, slides, water pump, and

many other functions are available with the touch on the screen or the push of a button. There is an app for android and apple devices to allow you operate most multiplex functions via your smart phones and tablets.

Please take the time to familiarize yourself with the main panel and refer to the operator's manual for this system in your binder.



Many of the lights throughout your unit are controlled by a switch on the fixture itself. These include Reading lights for both sleeping positions in bedroom and work light over the range (in range hood).

When available (dependent on the model and options) the following lights may be on the multiplex control panel as you enter the unit:

- Exterior lights (a yellow and clear lens on each side)
- Aisle and indirect lights to provide low-level aisle lights through the living space, the bedroom, and bath. Step well lighting (can be used as low-level night light)
- Feature light in the outside grab handle at the entry door. Dinette and kitchen overhead lights
- Bathroom wall lights and the water pump may be available on the multiplex remote panel located on the wall.

NOTE

In some models, for convenience, a switch for the water supply system is also on the multiplex panel. As with other electrical usage in your motor coach, be aware of the battery drain caused by lights.

When lights are on for an extended period-of-time, whenever possible, use an outside power source, such as the coach generator, the vehicle's alternator (with the engine running), or a land line.

TRANSFER SWITCH

Your coach is equipped with an automatic 110-VAC input power transfer switch. This switch will automatically switch the input circuit as it is activated.

NOTE

The generator is the dominant power source and will remain as the AC supply source even with the shore cord plugged in.

CAMPGROUNDS AND SHORE POWER AMPERAGE

As previously stated, most campgrounds will provide a 30-amp service hook-up.

There are some older campground state parks that only provide the 15-amp. Do not hook-up to the power source without talking with someone at the campground and finding out what type of service they provide.

If you hook up to a power source that is a lower voltage, you could damage your electrical system or its components. A polarity checker is available through your dealer. Checking before you hook up could save you in costly repairs.

SHORELINE/POWER CORD

The detachable weather-resistant heavy-duty shoreline/power cord transfers the 120-VAC

power from external power source to the inverter and some 110VAC circuits wired directly from the transfer switch, inside the unit. The 30-amp system uses a cord with a 3-prong grounding plug and a 50-amp system (if equipped) uses a cord with a 4-prong grounding plug. To help reduce the load on your 12-volt DC battery you should use this system whenever possible.

When using the shoreline/power cord follow these steps to maximize the protection against creating a shock hazard.

Before you connect your power cord, make sure that your connections are clean and solid. Dirty contact or connections can result in low voltage.

For maximum protection against fire or an electrical shock, do not use an extension cord. Extension cords reduce the voltage to your system. If you do intend to use an extension cord, be sure to use one with a same current rating required for your system. The original shoreline/power cord provided is the correct length and amperage. When necessary, replace with the same type and specifications.

WARNING

Do not use a cheater plug (adapter cord) or an extension cord with a current rating less than the amperage of your motorhome requirements.

Always use the appropriate cord. Never mix the cord types or plug into a different type receptacle by removing any of the prongs. You could be creating a potential fire hazard.

Always disconnect the cord set from the power source before performing any maintenance. Failure to disconnect the cord set could result in electrocution.

To reduce shock, follow the proper steps to connect and disconnect the shoreline power.

SHORE CORD MAINTENANCE

Before every use, check the ends of the cord set, the face on the inlet on the RV, and the receptacle on the shore cord. Discolorations are signs of overheating, replace if necessary.

If the cord set end is overheating, it might be the RV's inlet or the shore-line receptacle that is causing the problem. Both mating parts should be replaced.

Check the neoprene covers on the in-limit switch and power switch to be sure they are free of cracks or fracture.

The plugs should be cleaned with a contact aerosol cleaner or some type of a nail file.

Prolong the life of the cord set by storing indoors or in the outside compartment when not in use.

PROBLEM

Dirty or corroded plugs.

WHAT TO DO

Clean plugs with aerosol cleaner.

PROBLEM

Bad power cord.

WHAT TO DO

Replace, as necessary.

PROBLEM

Bad power source from shore cord hook up.

WHAT TO DO

Use a polarity checker or contact someone at the campground to check the outlet.

PROBLEM

Ground fault interrupt (GFCI) switch may be off or tripped.

WHAT TO DO

Reset.

WARNING

Always disconnect the cord set from the power source before performing any maintenance. Failure to disconnect the cord set could result in electrocution.

WATER AND PLUMBING SYSTEMS

Plumbing in your unit is divided into two sub-systems: You have a potable freshwater system, which is your usable water for drinking, bathing, dishes etc. and your wastewater system, which are the tanks that hold your drainage or wastewater until you are ready to dump it.

The holding tanks are an important part of the water system, neglected or mismanaged tanks can lead to having contaminated systems.

WARNING

Neglecting or mismanaging both the fresh-water system and wastewater systems could lead to water contamination and other health hazards or environmental hazards.

Provide the proper care and follow the proper procedures for handling the water and the components of both systems to avoid creating a hazard situation.

PLUMBING BASICS

Several components work together to provide you with your freshwater and waste-water systems.

FRESHWATER TANK

An on-board freshwater storage tank that carries the freshwater (usable clean water). The tank is filled through an inlet in a storage compartment on the side of your RV and used to provide you with water when you are not in a location that has the city water hookup.

ELECTRIC DEMAND-TYPE PUMP

Supplies the water pressure for the on-board freshwater tank.

CITY-WATER HOOKUP

Delivers pressurized water via a hose that is connected to a campground water supply and to an inlet on the side of the RV.

MONITORING (MULTIPLEX MAIN PANEL)

Will display how much water is left in the freshwater tank, as well as how full the wastewater tanks are.

WASTE DRAINAGE SYSTEM

This system functions as it would in your home with lines running from kitchen sink, bath sink, tub/shower, washer/dryer, and toilet.

GREY WATER TANK

Holds drainage water that originates from sinks or the tub/shower until they are ready to be drained at a dump station.

BLACK WATER TANK

Holds the drainage from what is flushed down the toilet until it is ready to be drained at a dump station (RM Models only, the kitchen sink and toilet drain into the black tank).

FRESH WATER SYSTEM

To provide you with fresh water, you will use either the self-contained on-board fresh-water tank, where the water pressure is pumped through the lines by the water pump or use a city hook-up that provides the pressurized water directly into the lines. A city hook-up is provided by many of the campgrounds.

CONSUMPTION WITH THE SELF-CONTAINED SYSTEM

It is hard to realize just how much water we use every day in normal home use. Newcomers may discover that the water supply does not last long unless procedures for consumption are adjusted.

You can drastically reduce water used for showers by first wetting down and turning off the shower head, soaping yourself, and turning on the shower to rinse off.

Another tip is, when hand washing dishes, do not let the rinse water run while you wash one dish at a time and rinse. Wash several, turn the water on and rinse. Then turn it off and wash more. Once you put these types of practices into use you will find that there should be enough water to meet your need.

It is very important that you read the manufacturer's instructions for operations, use and the maintenance of the fresh-water tank.



TO FILL THE FRESHWATER TANK

Find the fluids control center in the outside compartment. You will find a ball valve located next to the words **tank fill**. Rotate the handle until it points to the words **tank fill**.

Find the loose hose end at the bottom of the fluids control plate. Remove the protective cap, connect your fill hose to the loose hose and begin filling your fresh-water tank.

NOTE

The fresh-water tank has an overflow pipe that will discharge excess water. If you see water running from the bottom of your coach shut the fill line off immediately, your tank is full.

If you have not used your water system for a while, you may have air in the plumbing lines which may need to be purged.

TO PURGE LINES

Open all the faucets one at a time, both hot and cold, let the water flow until it flows without sputtering.

WARNING

To help avoid contamination of the hoses used for your water source and to fill your fresh-water tank, hoses should be cleaned. Do not use hose for anything else. All fresh-water accessories should be kept away from grey and black water accessories.

DRAINING THE TANK

We suggest you drain the fresh-water tank at the end of each camping trip, or anytime the tank is unused for more than a week, and before and after storage and/or winterizing.

It is important to make sure the lines and the water heater are also drained to prevent bacteria from growing.

TO DRAIN

- 1 Open the low point drain valve for the fresh-water tank and allow the water to drain.
- 2 When the water stops close the low point drain.
- 3 Open the drain valve for the fresh tank.
 - RM model the valve is in the bathroom vanity cabinet.
 - FW and TB models the valve is under the bed.

SANITIZING YOUR WATER TANK

It is important that you keep your water fresh and clean and free of any potential contaminations.

You should sanitize your system any time the tank has set empty, such as the first time it is used or after storage, detected an odor, with continual use every 3 months and before

storage/winterizing.

TO SANITIZE

- Open drain valve to empty the tank.
- Mix a solution of 3/4 cup (6 oz.) liquid household bleach to 3 gallons of water for every 15 gallons of tank capacity.
Note When using bleach concentrate, use 3/8 cup (3 oz.) to 3 gallons of water.
- Turn Anderson valve into winterize position, put hose down into bleach jug and turn on the pump. To pump the bleach and water solution into the water tank. When the bleach solution jug is empty, turn off pump and put Anderson valve into the tank fill mode.
- Fill the tank with fresh water, turn water pump on, open all faucets and water heater relief valve.
- When water runs steady turn off the faucets and then turn pump switch off.
- Let system sit at least 4 hours then drain system and flush with water.

If a chlorine taste remains, add 1 quart of vinegar into the tank that is partially filled with fresh water. Wait several days; let the vehicle's motion agitate the solution (if possible). Drain system, and flush with fresh water.

FRESHWATER SYSTEM MAINTENANCE

Before trips, be sure heavy items such as canned goods, tools, etc. are not in areas where they can contact water piping and cause damage due to road vibrations or shifting.

Each time you fill the water tank or are hooking up to the city water station, check the connections and fittings around the faucet areas to make sure they are not leaking due to road vibrations.

When using the fresh water self-contained system check periodically inspect for any type of odor. If an odor is detected, follow the procedures above for sanitizing the system.

WARNING

To avoid contamination or bacteria growth in the fresh-water tank or in the system be sure to provide the proper care and to follow the proper maintenance procedures.

WATER PUMP

When you are using the self-contained freshwater tank, a water pump is used to pump the water through the lines. To avoid damage when you are using a city water hook-up, the pump must be off.

OPERATING

It is very important that you read the manufacturer's instructions for operation and the maintenance of the water pump.

To winterize, refer to the *winterizing and storage* section for more information.

Check the tank level and if empty or low you must fill before using. After following the procedures in the owner's manual, the pump should start whenever you turn the faucets on and stop when you turn them off.

IF SOMETHING GOES WRONG

PROBLEM

Pump cycles when nothing is turned on.

WHAT TO DO

Check plumbing and fixtures for leak. Check to see if air is trapped in the water heater outlet side of pump head.

PROBLEM

Pump will not start.

WHAT TO DO

Check breaker, main switch, and ground connection. Check motor and if the motor feels hot check the thermal breaker. Check charging system for correct voltage and good ground.

PROBLEM

It is noisy during operation.

WHAT TO DO

Check for loose plumbing and loose mounting feet.

PROBLEM

Pump will not shut off.

WHAT TO DO

Check for leaks inside and out including the toilet and leaky valves.

PROBLEM

Pump will not prime.

WHAT TO DO

Check the hose between the tank and the pump for kinks. Check for water in the tank, check for proper voltage.

CITY-WATER HOOKUP

City-water hookup allows pressurized water to flow from an outside hook-up into your RV without the use of the water pump.

- 1 Attach a clean, minimum, high pressure hose to the water inlet fitting.
- 2 Make sure water pump is turned off. (It is not needed when hooked up to this system).
- 3 Open the city water valve by turning the ball valve handle until it points at the words City Water
- 4 Turn on the water and then all faucets until water is steadily running and then shut off the faucets.

NOTE

Depending on the campground city water the hookups may deliver- pressure water. In this situation, we suggest you protect your plumbing system by installing a pressure reducer/regulator between the faucet and your hose. These can be obtained by contacting your dealer or RV supply outlet or hardware store.

WATER HEATER GAS/ELECTRIC

Using the water with some discretion, as explained in the freshwater section, you will help ensure there will be an ample supply of hot water to meet your needs.

The water heater equipped in your unit can be operated on gas (LP) or electric.

Refer to the manufacturer's instructions for operation, safety, and maintenance.

SEEPAGE OR ODORS

If when turning on your faucets you detect a foul odor, **DO NOT** use the water. Sanitize the tank.

DRAINAGE SYSTEM

Water from a shower or sink will drain into the grey holding tank. Water from the toilet and a sink will drain into the black holding tank.

NOTE

RM model the toilet and kitchen sink drain into the black holding tank. Shower and bath lav will drain into the grey tank.

FW and TB models toilet and bath lav will drain into the black tank, shower and kitchen sink will drain into the grey tank.

VENTS

The roof vents are pipes that allow air into the drain system to dispel odor and equalize air pressure to permit rapid and smooth drainage and prevents the water in the P-traps from being siphoned off.

TRAPS

The p-traps are installed to keep the holding tank odors from entering the vehicle. A foul odor from the tanks may be detected due to the water in the p-trap evaporating. This can occur if the unit has been in storage or anytime drains have not been used for a long period of time.

KITCHEN AND BATHROOM FIXTURES

When the fresh water is flowing properly, the fixtures work and drain much like they would in your home. If you detect an odor coming from the drains add water to the sinks and the shower/tub area. This should eliminate the odor.

TOILET

Refer to owner's manual for proper operation and maintenance.

The toilet uses very little water. This helps to conserve water and holding tank space. You will need to follow the proper flushing and sanitizing instructions to keep the odors from entering your motorhome.

When using, push the handle or pedal halfway and hold to let water into the bowl, then fully depress to open the valve and complete the flush. To avoid the solid matter from building in the tank, do not release the handle until there is enough water in the bowl to carry the paper and wastes completely to the tank.

MAINTENANCE

To prepare the toilet for use, add an odor chemical such as Pink Magic or Aqua-Chem. Use the required amount per the instructions on the bottle. Add to the toilet bowl, depress the toilet pedal to allow the bowl to fill with water, you would need approximately 1 gallon of water for proper mix, and then release the pedal so the mixture enters the wastewater tank.

IMPORTANT NOTICE

Be careful with the toilet chemical, if spilled it can stain your floor or clothing.

Toilet tissue dissolves over time, but facial and/or other tissues will not. Do not discard any tissue, except toilet tissue into the stool.

Do not use detergent or bleach in the stool, they will remove lubricating oils and greases. Use only odor control type chemicals.

LEAKS OR ODORS

Check black tank level and use odor control type chemicals when cleaning. If the toilet will not drain, check the level of the holding tank to ensure it is not full. If the tank is not full, check for any obstructions in the drain. If the valve has malfunctioned, or if debris is blocking the valve from seating correctly, then the valve may leak.

Clean the debris from around the O-ring seat and check operation.

WASTEWATER SYSTEM

The freshwater drainage system and the sewer system are individual self-contained systems. The system consists of a grey water tank, black water tank, and vents that equalize the air pressure and that carry out the odors. There is a monitor panel that indicates how full the wastewater tanks are, as well as how much water is left in the freshwater tank.

HOLDING TANK

The grey water tank holds the drainage water that originates from the sinks, and shower / tub. This tank needs less attention than the black water tank, but it is possible for the gray water tank to get very stinky if it is not properly cared for.

NOTE

Grey water should never be emptied on the ground. Kitchen sink waste is considered black water due to the high concentration of solids.

BLACK WATER TANK

Holds the drainage from what is flushed down the toilet (*and one of the sinks*). This tank needs much more attention than the grey water tank. Your coach will have a black tank wash fitting on the liquids control board. Connect a freshwater hose to this fitting and flush any loose debris remaining in the tank after the tank has been emptied and the drain hose is still in the dump. This black tank wash is designed to spray most areas inside your tank. Although the primary concern with the black water tank is controlling odor, you must also keep solid waste and toilet paper from collecting and plugging the drain line and valve.

TANK WASH CONNECTION

When using a sewer hookup at a campsite, do

not leave the dump valves open. If you leave the valve open, it does not allow any fluid to be stored in the holding tanks, and a good supply of fluid is necessary to adequately flush the black water tank. It is best to wait until the black-water tank is around 3/4 full before dumping.

DUMPING THE WASTE-WATER TANKS

Holding tanks are enclosed sewer systems and as such must be drained in an approved dump station.

Both toilet and gray water holding tanks must be drained and thoroughly rinsed regularly to prevent accumulation of harmful or toxic materials.

Capacity could vary on each trip due to the number of people using the system.

WARNING

Under no circumstances should the contents of these tanks ever be emptied beside the roadway, in a river or stream, or directly upon the ground. It is illegal and is in violation of all sanitary practices.

It is up to the camper to make sure that his camping site is always left in a clean and sanitary condition. Each person should police his own area before leaving.

HOW TO DUMP

Basically, both holding tanks empty the same way, through a single outlet located on the underside of your unit, but each tank is controlled by an individual slide drain valve. (*Check your floor plan and specifications for location.*)

- 1 Level the vehicle or slope toward the termination outlet.
- 2 Remove the sewage drain hose from its storage under the unit (see picture).

- 3 Check to make sure both dump valve slide handles are fully closed.
- 4 Remove termination outlet cap and connect the sewer hose.
- 5 Place the other end of the hose to the dump station inlet.
- 6 Pull the slide drain valve on the black water tank and drain until empty.
- 7 Pull the slide drain valve for the grey water tank and drain until empty. This allows the grey water to flush any leftover black tank waste out of the drain line.
- 8 Close both dump valves when the tanks are empty.
- 9 Attach the freshwater hose to the black tank spray and allow it to spray for approximately 2 minutes.
- 10 Open black water tank valve again to flush and drain.

For storage and winterizing information, refer to the *storing and winterizing* section.

HOLDING TANK TIPS

- Do clean the holding tank with approved cleaner.
- Do add a special chemical additive to sanitize and improve tank action. Do guard the tank against freeze up.
- Do keep the dump valves closed to allow the tanks to get as full as conveniently possible to facilitate drainage
- Do keep the dump valves closed and the drain cap in place to allow use of the system while traveling; only when the RV is stopped you should open them.
- Do use a soft single-ply tissue.
- Do open the bathroom vent to dispel condensation and odors.
- Do not use the facilities while the vehicle is in motion as it is not safe to be out of your seat and without a seat

belt.

- Do not put facial tissues or paper sanitary napkins down the toilet to flush into the tank.
- Do not put automotive type antifreeze or household cleaner in the toilet to flush into tank.
- Do not put foreign objects into the system which could clog or damage it in any way.
- Do not use automotive antifreeze or windshield washer fluid in your motorhome system. These can be harmful or fatal if swallowed.

HOLDING TANK HEATER

If you have this unit available, ***read the manufacturer's owner's manual for complete instructions on operations and maintenance.***

The unit has a thermostat that will turn the heater on when the liquid in the holding tank reaches 44 degrees Fahrenheit and will turn off when it reaches 64 degrees, so the liquid will never get too warm. You should turn your heaters on when the temperature starts to approach freezing.

Refer to specifications for option information and location of switch.

BEFORE OPERATING

Make sure there is liquid in the tank before turning the heater on.

If hooking to shore power or starting a generator, make sure the switch is in the off position.

IMPORTANT NOTICE

To prevent damage to the thermostat on the heaters, make sure the tank heater switch is off when hooking up to shore power or when starting the generator, and make sure there is liquid in the tanks.

APPLIANCES, ELECTRONICS, AND EQUIPMENT

Please read the owner's manuals for proper operation of every appliance in your coach. These individual owner's manuals can be found in your owner's manual binder.

APPLIANCES

This is a listing of the many appliances available. Not all may be an option in your motorhome.

AIR CONDITIONER

Your roof mount air conditioners will operate only on 120/110 VAC. They are wired to the circuit breaker in the main distribution panel. In some cases, they will only operate from either shoreline or off the generator. Air conditioning compressors draw a sizable portion of current. On some models the front AC only is wired to run from the Inverter.

When the air conditioning is turned on, reduce the load as much as possible to avoid overload causing a breaker to trip.

Make sure the air conditioner is off before plugging your unit into the park receptacle or starting your auxiliary generator.

The ability of these air conditioners to maintain the desired inside temperature depends on the heat gain of the RV.

During extremely high outdoor temperatures, the heat gain of the vehicle can be reduced by:

- 1 Parking the RV in a shaded area.
- 2 Using window shades and blinds.
- 3 Keeping windows and doors shut or minimizing usage.
- 4 Avoiding the use of heat producing appliances.

OPERATING INSTRUCTIONS

For instructions on the use, operation, safety, and care read your manufacturer's owner's manual for complete information.

WARNING

Wait at least two minutes before restarting each air conditioner after shutting off with either the heat/off/cooling switch or the temperature set lever. This allows refrigerant pressure in the air conditioner to equalize and will allow the compressor to restart easily.

Failure to follow these steps may cause circuit breaker or fuses to trip or blow and can cause unsafe conditions.

IMPORTANT NOTICE

To avoid damage, make sure the air conditioner is turned off before plugging into the shore cord or before starting the generator.

Do not run the air conditioner without a filter. Doing this could plug the evaporator cell and/or affect the performance.

The manufacturer will not be responsible for damage caused by condensed moisture on ceilings or other surfaces. When air enters the RV, condensing may occur. The air conditioner removes this moisture from the air during normal operation. Keep doors and windows closed during use to minimize condensed moisture on cold surfaces.

MAINTENANCE

AIR FILTERS

Periodically remove and clean the filter/grille assemblies located in the air box. To clean, remove the assemblies by placing fingers on the long portion of latches and with an over-and-downward pressure, unlatch the catches. After assemblies are removed, wash the filter/grille assemblies with soap and warm water. Let

assemblies dry and then reinstall.

AIR BOX HOUSING

Clean air box housing and control panel with a soft cloth dampened with a mild detergent. Never use furniture polish or abrasive cleaning materials.

IF SOMETHING GOES WRONG

PROBLEM

Nothing is working.

WHAT TO DO

Make sure the unit is turned on. If the RV is connected to power supply by a land line, check to be sure the line is sized properly to run an air conditioner load and it is plugged into power supply. If you are using the motor generator, check the generator to be sure the motor for the generator is running and producing power and the breaker is on. Check the thermostat and make sure it is set below the room temperature. Check your fuse or circuit breaker to see if it is blown. Check breaker, main switch, and ground connection. Check motor and if the motor feels hot check the thermal breaker. Check charging system for correct voltage and good ground.

PROBLEM

Not getting cold enough

WHAT TO DO

Make sure there is no damage to the outside coil. Make sure the AC current is adequate to run the air conditioner. To help the system, you can avoid using your appliances that produce a great amount of heat. Try to control the outside air from entering the RV by limiting the use of the entrance doors. Try to control the direct sunlight from entering the RV. Use your awnings to shade the area and keep the shades and blinds closed.

PROBLEM

Compressor cycles often and the coil freezes.

WHAT TO DO

Make sure the thermostat is not set too low. Check the outside vents and open them for better air flow. Check and clean filter if necessary.

CALLING FOR SERVICE

If you have checked all the above, call your local service center for further help. This unit must be serviced by qualified service personnel only. Have the following information available before calling:

- 1 Air conditioner model and serial number found on rating plate located on base pan of air conditioner bottom. Remove return air grille to observe this rating plate or check your serial number sheet.
- 2 Air Distribution box kit part and serial number found on rating plate located on ceiling template.

ROOF VENTS

Read the manufacturer's owner's manual for operation instructions and maintenance.

Powered roof vent aid in ventilation when cooking and cooling when air conditioning is not desired. All vent fans are 1 way not reversible. These vents are for moving inside air outward to provide improved circulation. It functions only when the vent cover is open and turns off when the cover is closed. The vent switch is located on the wall.

Be sure to close vents in inclement weather. It is not necessary to close the vents all the way while the coach is in motion, however, remember the additional clearance they require.

IMPORTANT NOTICE

Do not leave fan in active automatic mode while RV is stored or unattended for long periods. High winds and/or other unusual conditions or obstructions may prevent closing, resulting in leakage that could cause damage.

MAINTENANCE

To clean, remove the eight (8) screws in the removable interior screen and wash with mild detergent and reinstall.

MULTIPLEX TEMPERATURE CONTROLS

Read the manufacturer's owner's manual for operating instructions and maintenance.

The multiplex will operate the air-conditioning, the air-conditioning fan only, heat pump in the roof AC units, and the furnace (see Climate Control Picture below)

REFRIGERATOR

Please closely read the refrigerator owner's operating manual located in your Fleetwood RV and Holiday Rambler owner's manual binder that came with your coach.

The refrigerator is an Norcold 8cf, 12V Compressor model.

An owner's manual has been included in your Fleetwood RV and Holiday Rambler owner's manual binder for all appliances in your coach. Please read these manuals carefully before you take your coach on its very first trip.

ELECTRONICS

Due to the variety of electronics, models, and styles available, we are going to refer you to your individual components manufacturer's manual for the operating instructions, maintenance, troubleshooting, service, and warranty information. These manuals will be found in your owner's packet.

Under each category there may be additional information given and safety information. ***It is important that you read the safety information in the manufacturer's owner's manual for each component you may have.***

TELEVISION AND REMOTE CONTROL

Your TV and remote will work the same way they do in your home. The TV will need to be programmed for the area you are traveling in. The remote is made to work with your unit.

If you are having a problem with the reception, the problem could be with the antenna connections or the position of the antenna. Refer to both the TV and the antenna manuals to troubleshoot the problem.

Refer to the manufacturer's instructions for operating instructions, maintenance, safety, and warranty.

DVD PLAYER

Use your DVD player (if equipped) as you would in your home. For best results, the DVD should be clean and free of moisture. If moisture exists wipe dry before you put it into the DVD player.

Refer to the manufacturer's instructions for operating instructions, maintenance, safety, and warranty.

OUTDOOR ENTERTAINMENT CENTER

This system, depending on the option, will allow you to listen to the stereo with headsets, and it may also have outside speakers or soundbar (*depends on your unit's option package*) for additional audio options. There is a phone line connection, and an antenna jack which allows you to hook to the roof antenna for an outside television or may be equipped with a DVD player, if optioned. It has a 110-V power outlet to plug in any accessories that you may need. This

is a GFCI protected circuit for safety.

Normally the satellite signal for the outside entertainment center originates from the satellite receiver (if optioned) for the living room TV.

Bedroom entertainment center satellite reception is from a separate satellite receiver (if optioned).

Refer to the manufacturer's instructions for operating instructions, maintenance instructions, and other functions such as service, and warranty information.

GPS AND NAVIGATIONAL SYSTEM

Refer to the manufacturer's instructions for operating instructions, maintenance instructions, and other functions such as service, and warranty.

MONITOR

The front dash monitor displays functions for the GPS, back-up monitor and stereo.

Please read their individual owner's manuals for instructions on their uses.

ANTENNA

The roof-mounted antenna is connected by a coaxial cable to an amplified power booster inside your motorhome to improve the signal strength in outlying areas. Connection from the amplifier to the TV set is also through a coaxial cable. The 12 Volt Power Booster is located inside the cabinet with the other electronic equipment. To receive good reception, you need to make sure that the connections are tight, and the power supply switch is turned on.

Read the manufacturer's owner's manual for operating instructions, proper use, and maintenance.

SATELLITE ANTENNA DISH

The type of satellite dish, if optioned as the Villagio and Vienna come satellite prepped as standard, is called an "in-motion" dish that can be used while your coach is moving or parked. These types of satellite dishes are limited in reception of HD signals.

Satellite antennas are frequently referred to as dish antennas. The automatic in-motion roof mounted unit, if equipped, tracks the satellite signal while the vehicle is in motion and can provide TV or music.

The antenna or dish is connected to the satellite receiver through a coaxial cable for the TV signal and through a multi-conductor wire cable for directional control of the dish.

Read the manufacturer's owner's manual for operating instructions, proper use, and maintenance for all the different components of the satellite system.

SATELLITE DISH SUBSCRIPTIONS

To use a satellite dish, you must subscribe to a satellite system before you will be able to fully operate. The antenna unit initialization and satellite acquisition are automatic and does not require any operator intervention. After turning on the television and applying power to the antenna, the unit will track the satellite.

Once you power up the system, the antenna will search for a TV satellite. Once it finds the satellite, it will use the IRD (Integrated Receiver Decoder) data to decode the system and the antenna locks onto and tracks the satellite. Passing through tunnels, under highway overpasses, and through dense urban areas can disrupt transmission by denying the antenna a line of sight to the satellite.

SATELLITE RADIO TUNER

Channels are broadcast from an earth station to a satellite that rebroadcasts the signal that covers the United States through the turner. You must subscribe to the Sirius Satellite Radio service.

Have your individual Electronic Serial Number (ESN) ready when you call to subscribe to the service.

SATELLITE DIGITAL RECEIVER

The dish is connected to the satellite receiver through a coaxial cable for the TV signal and through a multi-conductor wire cable for directional control of the dish in the case of automatic units. You must have your access card to be able to operate the receiver.

MAINTENANCE

Review owner's manual for care and maintenance.

OTHER EQUIPMENT

This is a listing of the many appliances available. Not all may be an option in your motorhome.

AWNINGS

Patio and window awnings (*if optioned*) can provide you with extra living space and to shelter you from the sun. Window awnings can help keep your unit cool and protect furniture fading from direct sunlight. Providing proper care and maintenance will extend the life of the awnings.

OPERATING

Read your manufacturer's owner's manual for operating instructions and care.

When opening, be sure that there are no obstructions such as tree and most importantly electrical wires. Always make sure the awning is extended high enough before opening the entry door.

TO AVOID DAMAGE

Awnings are not designed to be used as a protection from rain or any other form of precipitation. These awnings will collapse, if left open, from the weight of the water that will accumulate between the arms of the awning. When closing, make sure the fabric is rolled around the roller tube from the bottom of the roller tube.

If heavy wind conditions are expected or exist, retract awning and place in storage position! Leaving in the down position can cause damage to the RV and the awning. From time to time unusually strong gusts of wind may occur before the motion sensor on your awning has time to retract the arms. It is recommended that the awning be retracted if winds reach speeds of 7 to 10 MPH.

WARNING

Repairs need to be made by a service repair technician. The roller tube is under extreme spring tension. Attempting to repair the awning could result in someone being injured.

PASSENGER SIDE ENTRY STEP

Your unit is equipped with an electric step for entering the passenger entry. Controls are located at the door entry area. You must be careful when you extend the steps. Curbs or obstructions could cause the steps and or frames to bend.

Steps are extended when the door is open and retract when the door is closed.

A switch is located on the side wall at the entry way to allow you to keep the steps extended when the unit is parked, and the door is closed. An ignition override system is installed so the vehicle will not be driven with the step in the extended position. When you turn the

ignition switch on, the override starts and will automatically retract the steps.

For maintenance and testing the steps, review the manufacturer's owner's manual.

WARNING

Always look before you step out of the vehicle to ensure the steps have retracted out completely. A sensor will stop the unit if the steps are too close to a curb or obstruction. Wait until the steps have completed the extending cycle before you step on the steps.

If you step out when the steps are retracting or are not completely retracted, you could lose your balance and fall, causing severe injury.

IMPORTANT NOTICE

Check that the steps have retracted properly before you pull away. Driving with the steps in the extended position could cause major damage to both the step and the vehicle.

Never step on the steps until they are fully extended, or you could damage the frame.



CLEANING AND MAINTAINING YOUR UNIT

By providing proper maintenance you will not only minimize downtime but assure that you will safely

and comfortable enjoy your unit for many years to come.

INTERIOR CLEANING KITCHEN/BATH COUNTERTOPS

SOLID SURFACE

Due to its non-porous attribute, there is no wax or sealant required for any special care of the product. Normal cleaning only requires soap and water or damp cloth with mild cleanser. Do avoid using strong acidic cleaners, such as those designed for drains, toilets, and ovens. Some of these cleaners can cause whitening which can be difficult to remove.

CORIAN COUNTERS (IF EQUIPPED)

Corian was created for a lifetime of easy care. For cleaning most dirt and stains from countertops, use soapy water or ammonia-based cleaner.

IMPORTANT NOTICE

To avoid damage to the countertops:

Use hot pads or rubber footed trivet for hot pans, frying pans, crockpots etc.

Avoid strong chemicals such as paint removers, oven cleaners, etc. If contact occurs quickly flush the surface with water.

Run cold water when pouring boiling liquids into sinks.

Heavy earthen ware and ceramic products with rough bottoms will cause deep scratches and excessive wear on the laminate surface.

Never use knives and other sharp implements on the counter. Never hammer or hit with hard objects, such as falling dishes, cans, utensils, especially near the edges, where it can result in chips and/or cracks in the laminate surface.

CABINETS/CABINET DOORS

Wipe down interior cabinets with a soft cloth using soapy water and rinse for dirt and grime. Clean wood cabinets with a soft cloth and furniture polish to maintain the luster. If you scratch the surface, a high-quality furniture polish can be used.

SINKS

The sinks will be either acrylic, plastic, composite materials, or stainless steel (Kitchen) and must be cleaned with a nonabrasive type of cleaner. Harsh cleaners will cause premature deterioration and discoloring. Using harsh brushes or pads can scratch the sinks.

FAUCETS

To clean and protect the finishes on your faucets and fixtures, use a damp cloth or sponge. Using abrasive cleaner or materials will dull and damage the finish.

WARNING

Before putting the vehicle in motion, check that the cutting board(s), kitchenware and tableware, cookware and all other objects on the counters, tables, sinks, etc. are properly stowed and secured. Keep cabinet doors locked.

If an accident occurred, objects could become airborne and injure or kill someone.

IMPORTANT NOTICE

Do not use abrasive product on the counters, sinks, cabinets or faucets. These types of products can damage the finish.

FLOORING

VINYL & WOVEN VINYL

Regularly sweep to keep any debris off the flooring. Damp-mop your floor at least once each week (more frequently for heavy traffic areas) to decrease wear and abrasion from grit and soil.

WARNING

If it is necessary to use mineral spirits use it with care. It is highly flammable. Keep away from pilot lights or matches or anything that could cause it to ignite.

LIVING ROOM

DINETTES, SOFAS, AND RECLINERS

Your unit and options will determine which dinette and sleeper you may have.

Seat belts are provided in the sofa sleeper to accommodate passengers while the coach is in motion. One seat belt is provided in the recliner.

WARNING

Never allow anyone to lie or sleep on the sofa, dinette, or bed while the coach is in motion. All passengers must be secured with a seat belt. If there was an accident anyone not wearing a seat belt has a much greater chance of being injured and or killed.

CLEANING FABRICS

SEATING FABRICS

Vacuum or brush off fabrics as often as needed. Cushions, recliners, sofas and/or dinettes may be labeled with the voluntary industry clean-ability code. Because dyes or the backing on some upholstery fabrics will be affected by water or solvents, the clean-ability code will indicate the cleaning method that is safe for your fabric.

The use of scotch-guard or a similar product could void fabric warranties.

IMPORTANT NOTICE

The fabric code is symbolized by the following letters. If the furniture is not coded, test the fabric for discoloration on an inconspicuous part of the furniture before spot-cleaning.

W Use only water-based cleaning agents or foam. Mix two tablespoons ammonia or detergent, such as Ajax liquid, with a quart of water. Wipe the stain gently with a clean cloth dampened with the solution. Continue wiping, turning the cloth so that you are always using a clean portion, until the stain is removed. Be careful not to wet the fabric too much. Always wipe from the outer edge of the stain toward the center.

S Use only mild, pure, water-free dry-cleaning solvents, such as Energine or Carbona. Dampen a clean cloth with the solvent and follow the same procedure described under W.

WS Either of the above methods may be used.

X Clean fabric only by vacuuming or light brushing to remove soil. Do not use liquid cleaning agents of any kind.

TYPES OF STAINS AND CLEANING SUGGESTIONS

NOTE

The following information is provided only as a service and should not be interpreted as a warranty.

The list of cleaning agents does not constitute an endorsement of products; other similar products may be equally effective.

WATER-BASED

Ketchup, soft drinks, milk, etc.
Remove using method W.

OIL-BASED

Salad dressing, butter, greasy foods, etc.
Use method S, or for flat-woven fabrics, not velvet, apply Texize K2R Spot Remover according

to directions.

COMBINATION

Ice cream, gravy, etc. are both watery and oily. Use method S and follow with the W method.

MUD

Lift away what you can easily remove without forcing the mud into the fabric. Allow the remaining mud to dry completely, then vacuum. If the stain remains. Clean with method W.

ULTRA-LEATHER FABRIC

A cleaner intended for use on fine leather or a water dampened cloth is recommended. Do not use chemicals (such as Armor-All) that may dry the leather out and make it become cracked or have an aged appearance.

IMPORTANT NOTICE

Chemical reactions to leather due to improper treatment or cleaning procedures are not covered under your Fleetwood RV and Holiday Rambler warranty.

BEDDING AND CURTAINS

The bedspread, pillow sham and privacy curtains should be dry cleaned only. Washing may cause shrinking and will void all warranties.

EXTERIOR CLEANING

Clean and maintain your unit on a regular basis to keep it looking new and to extend the life of the body. Power washing with mild soap and rinse is the recommended procedure making sure that medium pressure is used.

FIBERGLASS, GEL COAT FINISH, AND MOLDED PARTS (PLASTIC)

Remove tree sap, seeds, gum resin, asphalt, etc., as soon as possible with washing. These environmental materials will bake and harden in time and become difficult to remove without buffing. Power washing with mild soap and

power rinsing is the recommended procedure making sure that medium pressure is used. If a power wash is not available wash regularly using a mild soap, cold or Lukewarm water and a clean microfiber cloth. It is best to clean the unit in the shade or on a cloudy day when the exterior sidewalls and roof are cool. Clean roof off first, wash, rinse and dry each section as you go to avoid streaking. Wax periodically to extend the life of the paint finish. Waxing helps preserve the paint and allows for easier removal of dirt and road tars.

IMPORTANT NOTICE

Do not wax your motorhome within 90 days of the production date to allow the paint to cure.

Never use strong household detergents, gasoline, or strong solvents. You will damage the painted exterior.

CHROME STAINLESS STEEL AND ALUMINUM PARTS

Wash and clean each time you use the motorhome. Use only automotive approved nonabrasive cleaners and polishers on exterior brightwork.

WHEELS

Clean regularly with a nonabrasive cleaner recommended for aluminum wheels.

WINDOWS, DOOR GLASS, WINDSHIELD, MIRROR GLASS

The windows are made of heat strengthened plate glass. Clean with window cleaner as needed.

MAINTENANCE

At the beginning of the season, when storing, or at least every 6 months, check the following items.

WINDOWS

Check the sealant around the window to see if it has cracked or deteriorated, check for leaks.

Check the weep holes in the bottom on the windows to drain moisture from rain and to ensure they are clean from debris. Vacuum if necessary.

BODY AND ROOF SEALS

IMPORTANT NOTICE

Reseal the seals yearly to maintain their integrity. Failure to maintain and reseal the seals yearly will result in voiding the warranty coverage for these areas.

Check to be sure that seals are not cracked shrunk, and there are no voids or deteriorated areas from weather and road vibration.

Check the sealant including around any of the appliance areas.

CHASSIS UNDERBODY

Inspect for rust and corrosion on chassis parts. Keep up with the standard maintenance program described in your chassis owner's manual which includes the frame bumpers and exhaust.

WINTERIZING AND STORING YOUR MOTORHOME

Whether you are trying to protect your motorhome from the winter elements or just storing it for a certain period of time it will be worth your time to provide the proper repairs, maintenance and care to both the interior and exterior. Doing this will not only help ensure that you will save yourself from costly repairs; this also will help make it easier to get on the road when you are ready.

The general understanding in winterizing is to prevent the water systems from freezing. Although it is one of the most important parts, you also need to consider the engine, gasoline tank, batteries, tires, as well as, both the interior and exterior including the LP tanks, generators, appliances, etc.

WINTERIZING

If you live anywhere that might experience temperatures around or below the freezing temperature you must drain the water from the plumbing systems and protect piping with a potable (not automotive) antifreeze.

DRAINING THE WATER SYSTEM

Fresh water Tank: Drain and flush by opening the drain valve and letting the water drain. (In warmer weather you will need to drain the tank and sanitize).

GRAY WATER TANK

Drain and flush at an appropriate site (refer to the plumbing section).

BLACK WATER TANK

Drain and flush at an appropriate site (refer to the plumbing section).

TO COMPLETE DRAINING

Use air pressure method (20 PSI MAX) to further ensure that all water is drained from Diverter valve and black tank flush.

Step 1 > Turn diverter valve to tank fill

Step 2 > Apply air pressure (20 PSI MAX) to hose inlet for 3- 4 Seconds

Step 3 > Apply air pressure (20 PSI MAX) to tank flush inlet for 3-4 seconds

WATER HEATER

If tank or Truma type water heater, turn bypass valve to bypass position.

If Aqua-Hot, there are no bypass valves. Remove water filters (if applicable). Screw plug provided into the underside of the top of the filter cap.

See your owner's manual for draining your water heater.

ADDING ANTIFREEZE

USE ONLY RV NON-TOXIC ANTIFREEZE.

You will need approximately 4-6 gallons)
To fill your plumbing with antifreeze, locate the

clear plastic hose next to your water pump. Turn the valve so it points towards the clear plastic hose. Insert the clear hose into your antifreeze bottle and turn on water pump.

Open all Hot water faucets until you see antifreeze then turn faucets off.

Repeat for cold water faucets, toilet, shower, outside Spigot and Spray away.

Shut off the water pump. Rotate the valve back to normal use. Pour a small amount of antifreeze down all drains to ensure the sink traps have antifreeze in them. Pour at least 1 gallon of antifreeze in the toilet for the black water tank and flush. Then pour a small amount to remain in bowl.

Shut off the water pump. Rotate the valve back to normal use. Pour a small amount of antifreeze down all drains to ensure the sink traps have antifreeze in them. Pour at least 1 gallon of antifreeze in the toilet for the black water tank and flush. Then pour a small amount to remain in bowl.

BATTERIES

Store batteries in a dry cool place. Batteries will freeze and not hold a charge. See storing for more information on batteries.

WARNING

Do not use automotive antifreeze to winterize potable water systems. Such solutions are highly toxic and may cause serious injury or death.

IMPORTANT NOTICE

Provide the proper steps to prevent water from freezing in your system. If water is allowed to freeze in the system, it could cause serious damage to the plumbing and the pump.

STORING

Do not store in an area that has overgrown weeds, tall grass or near a wood pile that will attract small

rodents. Park on a level surface or front of chassis higher than the rear.

GAS TANK

Top off the tank to prevent moisture buildup and condensation. Add a fuel stabilizer to keep the fuel from breaking down and leaving deposits.

ENGINE

Check the fluid levels under the hood and fill as necessary.

HOLDING TANKS

Drain and flush the holding tanks, if storing for winter weather follows the procedures under winterizing or warm climate storage sanitize and drain.

WATER LINES

Drain all the lines using the low-point drains or an air compressor.

LP GAS SYSTEM

Turn off the service valve on tank. Cover the regulator to avoid freezing.

Disconnect, remove batteries and store.

INTERIOR (GENERAL)

Clean and remove all perishable food from the cabinets and refrigerator. Remove any bottles or cans or any item that could freeze during winter.

CABINETS

Wipe down and leave doors ajar to allow circulation and prevent mildew.

WINDOWS

Close all windows and add cardboard or newspaper to block the sunlight and protect fabrics from fading.

ROOF VENT(S)

If stored inside open one vent ever so slightly for air circulation during storage and cover all others tightly. For outside storage close all vents tightly.

FURNACE

Turn the thermostat on the furnace off.

WATER HEATER

Drain and cover the air vent with cardboard. This will help to prevent dust and/or spiders, etc. from entering.

REFRIGERATOR

Wash and dry the refrigerator. Defrost freezer and leave door open to provide ventilation. Adding baking soda can help absorb odors. Cover air vent with cardboard to prevent dust and/or spiders, etc. from entering.

RANGE

Purge the system to relieve any gas in the lines by lighting the burner and waiting until it burns all the gas out (will not relight) and then turn the burner off.

RANGE HOOD

Make sure it is closed.

EXTERNAL OUTLETS

Cover furnace intake and exhaust vents with tape and foil to prevent rodents from entering the unit.

AIR CONDITIONER

Clean the filter, and if stored outside cover. When indoors occasionally inspect for dirt and dust and wipe down.

ROOF AND SEALS

Inspect and reseal as necessary.

GENERATOR

Review manufacturer's operator's manual for storage instructions (if applicable).

TIRES

Check your tire pressure and make sure they are properly inflated, and if stored outdoors, they are protected from the direct

sunlight with some type of cover.

BATTERIES

Disconnect battery, disconnect the ground cable (negative) first. They should be fully charged. Add water and recharge if necessary. Store the battery where they can remain dry, have ventilations and where they will not be subjected to freezing or extreme heat temperatures.

EXTERIOR

Visually check for anything including the roof that needs to be repaired.

Repair now rather than at the start of the season when you want to be on your way.

BRINGING OUT OF STORAGE.

As the season approaches you will need to prepare your unit as diligently as when you stored it. Taking time to do system checks and operations checks could save you costly repairs and down time later in the season. Always perform the system checks of the safety features in your RV

INTERIOR

Clean completely

AIR CONDITIONER

Remove coverings and check operations

EXTERIOR OUTLETS

Remove coverings

TIRES

Uncover. Check tire for damage, wear, flat spots, and pressure.

WINDOWS

Remove cardboard or newspaper, open and air out the unit.

APPLIANCE VENTS

Remove covers and check for dust and/or spiders or

spider webs, clean as necessary.

BATTERIES

Inspect and clean as necessary. Check charge and water level, bring to proper levels, and install in unit.

EXTERIOR

Wash, clean and do visual inspection, including the roof and all the sealant areas. Repair, or have repaired as necessary.

SHORE/POWER CORD

Check the lines for cuts, nicks, check prongs for corrosion.

LP SYSTEM

Uncover the service valve, inspect the tanks for damages, inspect the lines and connections. Turn on service valves.

FURNACE

Check pilot lights and check operations. If you smell gas turn off and follow proper procedures in LPG System.

THERMOSTAT

Check that it is operating correctly.

REFRIGERATOR

Clean interior and exterior. Light and check the pilot light. If you smell gas turn off and follow proper procedures in LPG System. Check all operations / including thermostat.

WATER HEATER

Fill with water and check pilot light. If you smell gas turn off and follow proper procedures in LPG System. Check operations.

COOKTOP/OVEN

Clean inside and out. Check pilot light. If you smell gas turn off and follow proper procedures in LPG system. Check operations of cooktop and oven.

FRESH WATER TANK

Fill and sanitize (see freshwater tank section).

SAFETY EQUIPMENT

Check label on fire extinguisher to ensure has a proper charge. Replace the batteries in the smoke detector and test. Test the LPG detector tests as described in manufacturer's owner's manual.

RV SYSTEMS INSPECTION

Have your dealer, or a certified and licensed servicing facility do a complete check on the LPG, electrical, plumbing, and appliance systems. Also have them do an inspection of the exterior body.

MOTORIZED CHECKUP

This is the time of year to have a maintenance check and general services performed for your engine, under carriage, exhaust, tires, etc.



Owner Relations (800) 322-8216

Parts (800) 509-3417

FleetwoodRV.com



OUR VERY OWN FLEETWOOD RV CLASS C MOTORHOME SERVICE CENTERS

At Fleetwood RV, we strive to deliver peace-of-mind at every turn. Our devotion to customer service starts with our trusted dealer network and spans to our own staff of motorhome service professionals at REV Recreation Group's regional Service & Repair. The motorhome service centers are strategically located throughout the United States to provide you convenient service wherever the road takes you.

Below, you'll find the closest motorhome service center, as well as a list of the other centers.

Please visit **www.fleetwoodrv.com/motorhome-service-centers** to schedule a Service Appointment.

KEEP IN TOUCH!

Dear Valued Fleetwood RV Class C Owner:

Fleetwood RV and REV Recreation Group appreciates your loyalty and want to keep you safe and satisfied with your coach.

Stay informed of important Product Upgrade or Safety Recall campaigns potentially affecting your vehicle by updating your contact information online using either of the following means:

- You may go online to **www.fleetwoodrv.com**.
Select the Owners tab, then select Change of Ownership.
— or —
- Call Fleetwood RV Owner Relations at **(800) 322-8216**.



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RV OWNERCARE

Limited one-year/15,000-mile coach warranty and three-year/45,000-mile structural warranty, whichever occurs first, and it is fully transferable for the first 12 months. RV OWNERCARE is one of the RV industry's most comprehensive programs and includes systems, appliances, components and construction, with no deductible and no service charge.

Chassis Warranty provided by Freightliner Custom Chassis Corporation.



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