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SECTION 1 – INTRODUCTION

Congratulations! We welcome you to the exciting world of motor home travel and camping. You will find it convenient and enjoyable to have all the comforts of home and still enjoy the great outdoors wherever you choose to go. Your motor home has been carefully designed, engineered, and manufactured to provide years of enjoyment.

Before sliding into the driver's seat, please become familiar with operations and features. In addition, spend some time with the dealer when you take delivery to learn all you can about your new motor home.

ABOUT THIS MANUAL

This operator's manual was prepared to aid you in the proper care and operation of the vehicle and equipment.

Please read this manual completely to understand how everything in your coach works before taking it on its "maiden voyage". In addition, please become familiar with the New Vehicle Limited Warranty.

NOTE: This manual describes many features of your motor home and includes instructions for its safe use.

This manual, including photographs and illustrations, is of a general nature only.

Some equipment and features described or shown in this manual may be optional or unavailable on your model.

Because of Winnebago Industries[®], continuous program of product improvement, it is possible that recent product changes and information may not be included.

The instructions included in this manual are intended as a guide, and in no way extend the responsibilities of Winnebago Industries beyond the standard written warranty as presented in this manual.

The descriptions, illustrations, and specifications in this manual were

correct at the time of printing. We reserve the right to change specifications or design without notice, and without incurring obligation to install the same on products previously manufactured.

The materials in your InfoCase contain warranty information and operating and maintenance instructions for the various appliances and components in your motor home.

NOTE: Many of the instruction sheets and manuals for the various appliances and components have been incorporated into the Operator's Manual Supplement for your convenience.

Please read the FAQ in Section 1 of the Operator's Manual Supplement for more details.

Throughout this manual, frequent reference is made to the vehicle chassis manual that is provided by the manufacturer of the chassis on which this motor home is built.

Consult the chassis manual for operating, safety, and maintenance instructions pertaining to the chassis section of the motor home.

2012 NEW VEHICLE LIMITED WARRANTY
WINNEBAGO INDUSTRIES, INC.



Only Warranty

This New Vehicle Limited Warranty (“NVLW”) is the sole and exclusive warranty applicable to this Winnebago or Itasca motor home made or authorized by Winnebago Industries, Inc. (“Winnebago”) and provides coverage so long as the motor home is used exclusively for recreational purposes in the U.S.A. or Canada.

Promise to Repair:

Basic Coverage

Winnebago supplied and installed parts: Winnebago promises that any part of this motor home – except those identified in paragraph entitled, “**Excluded from Basic Coverage**” – found to be defective in material or workmanship shall be repaired or replaced at no cost to the owner for parts, material, or labor so long as the motor home has been used exclusively for recreational purposes and maintained as recommended in the Operator’s Manual.

Excluded from Basic Coverage: Parts, accessories, or equipment installed, or modifications or alterations made after the motor home leaves the factory, including items installed and modifications or alterations made by a Winnebago dealer or third-party; a motor home used for a purpose other than recreational use; a motor home used outside the U.S.A. or Canada; recommended maintenance or adjustments; service or maintenance items (such as, seals, sealants, windshield wiper blades, lubricants, fluids, and filters); replacement parts and repairs required because of improper load distribution, accident, collision, vandalism, abuse, misuse, neglect, fire, flood, normal wear, or improper or inadequate maintenance, rust or corrosion, exposure to the elements; a part or component covered under a warranty issued by its manufacturer (for example, the chassis, drivetrain, wheels, tires; electronics and appliances); and, except as noted, costs incurred in transporting or presenting the motor home for repairs or service under this NVLW.

Basic Coverage Period: Basic Coverage begins on the date of retail delivery, or the date on which the motor home is first placed into service as a demonstrator or company vehicle, whichever is earliest. Basic Coverage ends after 12 months or when the vehicle’s odometer registers 15,000 miles (24,135 kilometers), whichever is sooner.

Who may obtain Basic Coverage repairs: Any person who owns this motor home during the Basic Coverage Period.

Structural Coverage

Laminated components: Winnebago promises to cover material and labor costs necessary to repair: structural defects in, or delamination (separation of layers) of the motor home’s floor, subfloor, and subfloor risers (including the slide room); and delamination of the sidewalls or back wall resulting from a failure of the Body Thermo-Panel Lamination process (that is, the process used to bond the exterior skin and the interior paneling to an insulating core material).

Excluded from Structural Coverage: Delamination of the sidewalls or back wall caused by a factor other than a failure of the Body Thermo-Panel Lamination process, such as physical damage; failed, improper or inadequate sealing; or failure to maintain sealants.

Structural Coverage period: Structural Coverage begins when Basic Coverage ends. Structural Coverage ends 36 months from the date the vehicle is delivered to the first retail purchaser or first placed into service as a demonstrator or company vehicle, whichever is earlier, or when the vehicle’s odometer registers 36,000 miles (57,924 kilometers), whichever event occurs first.

Who may obtain Structural Coverage repairs: The first retail purchaser of this motor home.

Obtaining Warranty Repairs

Except as noted in the paragraph entitled, “**Factory Repair**,” to obtain warranty repairs, you must, at your own cost, present your motor home to an authorized Winnebago service facility during normal business hours and provide a written list of items to be inspected or repaired to the service facility and Winnebago. If requested, you must provide records showing that the motor home has been maintained as recommended in the Operator’s Manual. **Note:** As owner, you are solely responsible for maintaining the motor home as recommended and for all associated costs. Repairs necessitated by an owner’s failure to maintain the motor home as recommended are not covered under this NVLW.

Factory repair: If an authorized service center is unwilling or unable to make a warranty repair, Winnebago may request the owner to allow it an opportunity to make repairs at another authorized service center or at its Forest City, Iowa, factory. Winnebago may transport the vehicle to the factory or cover the cost of doing so. Refusal to grant a Factory-repair request voids warranty coverage for that repair.

Questions about Warranty Service

Contact Winnebago Owner Relations at 1-800-537-1885 or the address below if you: have questions about this NVLW; need assistance in locating an authorized Winnebago service facility; or are at all dissatisfied with warranty repairs.

One-Year Limitation on Initiating a Claim

A claim for breach of this NVLW or an applicable implied warranty, must be initiated within one-year after the date on which the breach occurs.

Sole and Exclusive Remedy/Damages Exclusion

Your sole and exclusive remedy in a proceeding for breach of this NVLW is money damages in an amount equal to the reasonable cost for material and labor necessary to repair or replace parts that should have been done under this NVLW, but were not.

Your sole and exclusive remedy in a proceeding for breach of any applicable implied warranty is money damages in an amount equal to the reasonable cost for material and labor necessary to correct the defect or defects upon which the finding of breach of implied warranty is based.

Incidental and consequential damages – such as towing or transport charges, aggravation, inconvenience, lost profits, wages, or income, loss of use, vehicle rental charges, and telephone, food, and lodging costs – are not recoverable from Winnebago for breach of this NVLW or an implied warranty under any circumstances. **Note:** 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.

Changes in Design

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

THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

No responsibility for dealer statements or conduct

Although authorized to sell and to service Winnebago and Itasca brand motor homes under warranty, the dealer is an independent business. Winnebago does not own or control, and shall not be responsible for, or bound by, representations, misrepresentations, or assurances, made by dealer personnel or be liable for a dealer's illegal, fraudulent, or unethical business conduct. **NO DEALER IS AUTHORIZED TO MODIFY THIS NVLW OR MAKE A WARRANTY OR CREATE ANY OBLIGATION ON WINNEBAGO'S BEHALF.**

NEW YORK OWNERS:

If your motor home has been repaired three or more times for the same nonconformity, defect, or condition, or if your motor home has been out of service by reason of repair for twenty-one days, Section 198-a of the General Business Law of the State of New York requires you to provide written notice by certified mail, return receipt requested, to Winnebago or its authorized dealer before making any claim under that section of the law. The written notice to Winnebago should be sent to the following address:

Winnebago Industries, Inc.
605 West Crystal Lake Road
P.O. Box 152
Forest City, Iowa 50436
Attn: Owner Relations

CALIFORNIA OWNERS:

Winnebago participates in the Consumer Arbitration Program for Recreation Vehicles (CAP-RV). This third-party dispute resolution program is available, at no charge to you, to settle unresolved warranty disputes for recreational vehicles. This program reviews eligible product and service related complaints involving warranty covered components.

To find out more about the program, or to request an application/brochure, please call the Arbitration Administration office toll-free 800-279-5343.

The CAP-RV program operates as a certified mechanism under the review of the California Arbitration Certification Program. You must utilize the arbitration program before claiming rights conferred by 15 USC § 2310 (Magnuson-Moss Federal Trade Commission—Warranty Improvement Act), the Uniform Commercial Code, or Civil Code section 1793.22(b) (Tanner Consumer Protection Act). You are not required to use the program if you choose to seek redress by pursuing rights and remedies not created by those laws.

Members of the Armed Forces who purchased the vehicle in California, or who were stationed in or a resident of California at the time of purchase (regardless of state of purchase) or who are stationed in California at the time of application to this program, may utilize the CAP-RV program.

SAFETY MESSAGES USED IN THIS MANUAL

Throughout this manual, certain items are labeled Danger, Warning, Caution, or Note. These terms alert you to precautions that may involve damage to your vehicle or a risk to your personal safety. Read and follow them carefully.



DANGER

DANGER indicates a hazardous situation which, if not avoided, will result in death or serious personal injury.



WARNING

WARNING indicates a hazardous situation which, if not avoided, could result in death or serious personal injury.



CAUTION

CAUTION indicates a hazardous situation which, if not avoided, could result in minor or moderate personal injury.

NOTICE

NOTICE is used to address practices not related to personal injury.

NOTE: A “Note” is not necessarily safety-related, but indicates a recommendation or special point of information that could assist in understanding the use or care of a feature item.

PRE-DELIVERY INSPECTION

This motor home has been thoroughly inspected before shipment. Your dealer is responsible for performing a complete pre-delivery inspection of the chassis and all motor home components.

As a part of the pre-delivery inspection procedure, the dealer is responsible for road testing the motor home, noting, and correcting any problems before delivery.

FRONT AXLE TIRE ALIGNMENT

We recommend that you have the front suspension and steering alignment checked and adjusted after you have fully loaded the vehicle according to your needs. Thereafter, have alignment inspected periodically to maintain vehicle steering performance and prevent uneven tire wear.

SERVICE AND ASSISTANCE

Your dealer will be glad to provide any additional information you need, as well as answer any questions you might have about operating the equipment in your coach. When it comes to service, remember that your dealer knows your vehicle best and is interested in your satisfaction. Your dealer will provide quality maintenance and any other assistance that you may require during your ownership of this vehicle.

If you need warranty repairs while traveling, you may take your vehicle to any authorized Winnebago Industries® dealership and request their assistance.

See the Service Dealer Directory in your InfoCase.

REPORTING SAFETY DEFECTS

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the

National Highway Traffic Safety Administration (NHTSA) in addition to notifying Winnebago Industries, Inc.

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

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 their website at <http://www.safercar.gov> or write to:

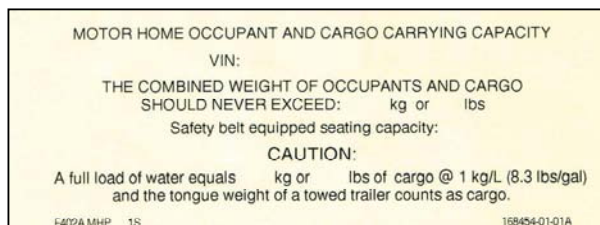
Administrator, NHTSA
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

You can also obtain other information about motor vehicle safety from the NHTSA website at <http://www.safercar.gov>



OCCUPANT AND CARGO CARRYING CAPACITY LABEL

This label is affixed in the driver’s area next to or near the Vehicle Certification Label. It contains vehicle occupant and cargo carrying capacity along with the number of seat belt positions in the vehicle. The label also provides the weight of a full load of water and advises that this weight, along with the tongue weight counts as cargo.



If any weight exceeding 45.4 kg (100 lbs.) is added to your coach between final vehicle certification and first retail sale, the occupant and cargo carrying capacity must be corrected and a label similar to the one shown below will be affixed inside your coach.

VEHICLE CERTIFICATION LABEL

This label is affixed to the lower driver side armrest panel, driver door, or the driver side door jamb, depending on model. It contains vehicle identification numbers and other important reference information.

MANUFACTURED BY WINNEBAGO IND. INC.			3	INCOMPLETE VEHICLE MANUFACTURED BY			1				2									
			GVWR			4			LB			KG								
GAWR:			SUITABLE TIRE AND RIM CHOICE			COLD INFLATION PRESSURE														
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5			6			7			8			PSI			KPA			9		
LB			KG																	
5			6			7			8			PSI			KPA			9		
LB			KG																	
5																				

SPECIFICATIONS AND CAPACITIES

Itasca Impulse	24V		26Q	31C	31J	31R
	Standard Ford® E350 Chassis	Optional Ford® E450 Chassis	Ford® E450 Chassis	Ford® E450 Chassis	Ford® E450 Chassis	Ford® E450 Chassis
Feature Number	16C	16Y	16Y	16Y	16Y	16Y
Length	25' 0.7"	25' 0.7"	27' 11.3"	31' 8.4"	32' 0.2"	32' 0.4"
Exterior Height ¹	11'	11' 1"	11' 2"	11' 2"	11' 1"	11' 1"
Exterior Width ²	8' 5.5"	8' 5.5"	8' 5.5"	8' 5.5"	8' 5.5"	8' 5.5"
Exterior Storage ³	42.5 cu. ft.	42.5 cu. ft.	79.2 cu. ft.	95.6 cu. ft.	73.3 cu. ft.	83.7 cu. ft.
Awning Length	11' 6"	11' 6"	13'	16'	10' 6"	16'
Interior Height	6' 8"	6' 8"	6" 10" Front 6' 4" Rear	6" 10" Front 6' 4" Rear	6' 8"	6" 10" Front 6' 4" Rear
Interior Width	8'	8'	8'	8'	8'	8'
Freshwater Tank Capacity ⁴	34 gal.	34 gal.	34 gal.	34 gal.	34 gal.	34 gal.
Water Heater Capacity	6 gal.	6 gal.	6 gal.	6 gal.	6 gal.	6 gal.
Holding Tank Capacity - Black ⁴	37 gal.	37 gal.	30 gal.	41 gal.	30 gal.	43 gal.
Holding Tank Capacity - Gray ⁴	35 gal.	35 gal.	30 gal.	40 gal.	40 gal.	40 gal.
Propane Capacity ⁵	18 gal.	18 gal.	18 gal.	18 gal.	18 gal.	18 gal.
Wheelbase	158"	158"	190"	220"	220"	215"
GVWR	11,500 lbs.	14,500 lbs.	14,500 lbs.	14,500 lbs.	14,500 lbs.	14,500 lbs.
GAWR - Front	4,600 lbs.	5,000 lbs.	5,000 lbs.	5,000 lbs.	5,000 lbs.	5,000 lbs.
GAWR - Rear	7,800 lbs.	9,600 lbs.	9,600 lbs.	9,600 lbs.	9,600 lbs.	9,600 lbs.
GCWR ⁶	18,500 lbs.	22,000 lbs.	22,000 lbs.	22,000 lbs.	22,000 lbs.	22,000 lbs.
Fuel Capacity	55 gal.	55 gal.	55 gal.	55 gal.	55 gal.	55 gal.

Notes:

All measurements are based upon the most recent data available. See your dealer for specifications.

¹ The height of each model is measured to the top of the tallest standard feature and is based on the curb weight of a typically equipped unit. The actual height of your vehicle may vary by several inches depending on chassis or equipment variations. Contact your dealer for further information.

² Floorplans feature a wide-body design - over 96". You should be aware that some states restrict access on some or all state roads to 96" in body width. You should confirm the road usage laws in the states of interest to you.

³ The load capacity of your motor home is designated by weight, not by volume, so you cannot necessarily use all available space when loading your motor home.

⁴ Capacities are based on measurements prior to tank installation. Slight capacity variations can result upon installation.

⁵ Capacities shown are the tank manufacturer's listed water capacity (W.C.). Actual filled propane capacity is 80% of listing due to overfilling prevention device on tank.

⁶ Actual towing capacity is dependent on your particular loading and towing circumstances which includes the GVWR, GAWR, and GCWR as well as adequate trailer brakes. Refer to the chassis operator's manual of your motor home for further towing information.

**SECTION 1 –
INTRODUCTION**



OWNER AND VEHICLE INFORMATION

OWNER INFO

Owner's Name(s) _____

Address _____

VEHICLE INFORMATION

Motor Home Model Number _____

Motor Home Serial Number _____

Chassis Vehicle Identification No. (VIN) _____

Vehicle Mileage at Delivery _____

Selling Dealer Name _____

Address _____

YOUR WINNEBAGO INDUSTRIES® DEALER /SERVICE CENTER

Name _____

Address _____

Contact _____ Phone _____

CHASSIS SERVICE CENTER

Name _____

Address _____

Contact _____ Phone _____

RV INSURANCE POLICY

Company _____

Policy Number _____

Agent _____ Phone _____

SECTION 2 – SAFETY AND PRECAUTIONS

GENERAL WARNINGS

- Only seats equipped with seat belts are to be occupied while the vehicle is moving.
- Make sure all passengers have seat belts fastened. Lap belts should fit low on the hips and upper thighs. The shoulder belt should be positioned snug over the shoulder.
- For pregnant women, the lap belt should be placed under the abdomen and across the upper thighs. The shoulder belt should be positioned across the center of the chest. Consult your doctor if you have any questions.
- Child restraints should be installed properly according to manufacturer’s instructions. See “Child Restraints”.
- All moveable or swiveling seats should be placed and locked in travel position while the vehicle is moving.
- Never let passengers stand or kneel on seats while the vehicle is moving.
- Sleeping facilities are not to be utilized while vehicle is moving.
- Examine the escape window and be familiar with its operation.
- Inspect the fire extinguisher monthly for proper charge and operating condition. This should also be done before beginning a vacation or any extended trip.

DRIVING SAFETY

- Do not attempt to adjust the driver’s seat while the vehicle is moving.
- Do not adjust tilt steering in a moving vehicle.
- Do not operate the cruise control on icy or extremely wet roads, winding roads, in heavy traffic, or in any other traffic situation where a constant speed cannot be maintained.

- Use care when accelerating or decelerating on a slippery surface. Abrupt speed changes can cause skidding and loss of control.
- Never drive the vehicle with a slideout room extended.
- Driving through water deep enough to wet the brakes may affect stopping distance or cause the vehicle to pull to one side. Check brake operation in a safe area to be sure they have not been affected. Never operate any vehicle if a difference in braking efficiency is noticeable.
- Adverse weather conditions and extremes in terrain may affect handling and/or performance of your vehicle. Refer to your chassis manual for related information.

FUEL AND PROPANE GAS

 **DANGER**

All pilot lights, appliances, and their ignitors (see operating instructions) shall be turned off before refueling of motor fuel tanks and/or propane containers. Failure to comply could result in death or serious injury.

 **WARNING**

Propane gas containers, gasoline, or other flammable liquids shall not be placed or stored onboard the vehicle because a fire or explosion may result. Propane gas containers are equipped with safety valves, which relieve excessive pressure by discharging gas to the atmosphere. Failure to comply could result in death or serious injury.

SECTION 2 – SAFETY AND PRECAUTIONS

Impulse

- All pilot lights must be extinguished and appliances turned off while refilling the fuel tank or LP gas tank.
- Never smoke while refilling vehicle fuel tank or LP gas tank.
- Never use an open flame to test for LP gas leaks. Replace all protective covers and caps on LP system after filling. Make sure valve is closed and the door is latched securely.
- Never connect natural gas to the LP gas system.
- When lighting range burners, **do not** turn burner controls to “On” and allow gas to escape before lighting match.
- Portable fuel-burning equipment, including wood and charcoal grills and stoves shall not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle may cause fires or asphyxiation.
- LP gas regulators must always be installed with the diaphragm vent facing downward. Regulators are equipped with a protective cover. Make sure that the regulator vent faces downward and that the cover is kept in place to minimize vent blockage, which could result in excessive gas pressure causing fire or explosion.
- The following warning label is located in the cooking area to remind you to provide an adequate supply of fresh air for combustion.



Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) avoids dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating, as the danger of

asphyxiation is greater when the appliance is used for long periods of time. Failure to comply could result in death or serious injury.

LP GAS LEAKS

The following procedures are noted on a label, located in the vehicle near the range area. If you smell gas within the vehicle, quickly and carefully perform the procedures listed.

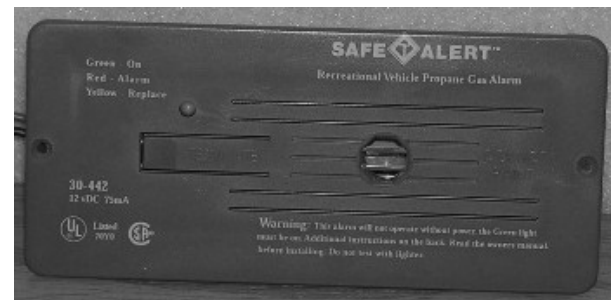
IF YOU SMELL PROPANE

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

Failure to comply could result in death or serious injury.


PROPANE GAS LEAK DETECTOR

Your coach is equipped with a propane gas leak detector, similar to the one shown below. The leak detector sounds an alarm if an unsafe amount of propane gas is present inside the coach.



Propane Gas Leak Detector

Because propane gas is heavier than air, the leak detector is located on a cabinet face near the floor of the coach.


WARNING

EXPLOSION HAZARD: DO NOT use an open flame to test for gas leaks. When testing for gas line leaks with a soapy water solution, DO NOT use a detergent containing ammonia or chlorine. These substances may generate a chemical reaction causing corrosion to gas lines, resulting in dangerous leak conditions. Death or serious injury can result.

Power Connection

The propane gas leak detector is powered by the house batteries. If the house/coach battery switch is shut off or the battery cable is disconnected from the batteries, the alarm will not work. The propane gas leak detector fuse or circuit breaker is located in the 12-volt house electrical load center.

Because the propane gas leak detector is connected to the house battery, it is always drawing a small amount of current. Even though this current draw is slight, it could drain the house battery during storage periods when the house battery will not be charged regularly by the engine or shoreline.

Further Information

See the manufacturer’s information in your InfoCase for further instructions on nuisance alarms and care and testing of the propane gas leak detector.

The best protection against carbon monoxide entry into the vehicle body is a properly maintained engine exhaust and ventilation system. It is recommended that the exhaust system and body be inspected by a qualified motor home service center:

- Each time the vehicle is serviced for an oil change.
- Whenever a change in the sound of the exhaust system is noticed.
- Whenever the exhaust system, underbody, or rear of the vehicle is damaged.


To allow proper operation of the vehicle’s ventilation system, keep front ventilation inlet grill clear of snow, leaves, or other obstructions at all times. **DO NOT OCCUPY A PARKED VEHICLE WITH ENGINE RUNNING FOR AN EXTENDED PERIOD.**

Do not run engine in confined areas, such as a garage, except to move vehicle into or out of the area.

CARBON MONOXIDE ALARM

Your coach is equipped with a carbon monoxide (CO) alarm located on the ceiling in the bedroom area. The CO alarm is powered by a 9-volt battery and has a sensor that is designed to detect toxic carbon monoxide gas fumes resulting from incomplete combustion of fuel. It will detect CO gas from any combustion source such as the furnace, gas range/oven, water heater, refrigerator, chassis engine, and electric generator engine.


CARBON MONOXIDE WARNING



WARNING

Avoid inhaling exhaust gases, as they contain carbon monoxide, which is a colorless, odorless, and poisonous gas. Death or serious injury can result.



Carbon Monoxide Alarm

 WARNING
Failure to replace this product by the “REPLACE BY DATE” printed on the alarm cover may result in death by Carbon Monoxide poisoning.

 WARNING
TEST SMOKE ALARM OPERATION AFTER VEHICLE HAS BEEN IN STORAGE, BEFORE EACH TRIP, AND AT LEAST ONCE PER WEEK DURING USE. FAILURE TO COMPLY MAY RESULT IN SERIOUS INJURY.

Replacement

When replacing this alarm, we recommend replacing only with the same model, or with one that is also listed for RV application. We recommend obtaining a replacement from your Winnebago Industries® dealer.

Further Information

Please read the information provided by the manufacturer, which is included in your InfoCase for further information.

Further Information

See the manufacturer’s information in your InfoCase for further instructions.

Replacement

When replacing this alarm, we recommend replacing only with the same model, or with one that is also listed for RV application. We recommend obtaining a replacement from your Winnebago Industries® dealer.

SMOKE ALARM

Your motor home is equipped with a smoke alarm located on the ceiling in the lounge area. The smoke alarm is powered by a 9-volt battery and has a sensor that is designed to detect smoke.



Smoke Alarm

The following label is affixed to the smoke alarm.

FIRE EXTINGUISHER

A dry chemical fire extinguisher is located near the main entrance door.



Fire Extinguisher
(Typical installation - your coach may vary according to model and floorplan)

We recommend that you become thoroughly familiar with the operating instructions displayed on the side of the fire extinguisher and in the information supplied in your InfoCase.

We also recommend that you inspect the fire extinguisher for proper charge at least once a month in accordance with National Fire Protection Association (NFPA) recommendations as stated on the label.

If the charge is insufficient, the fire extinguisher must be replaced.

NOTICE

Do not test the fire extinguisher by discharging it. Partial discharge can cause leakage of pressure or contents, which would render the unit inoperative when needed. When using the fire extinguisher, aim the spray at the base of the fire.

Replacement

If for any reason you must replace the fire extinguisher, the replacement must be the same type and size as the one originally supplied in your coach. We recommend obtaining a replacement only from your Winnebago Industries® dealer or a reliable RV parts supplier.

ELECTRICAL

- Careless handling of electrical components can be fatal. Never touch or use electrical components or appliances while feet are bare, while hands are wet, or while standing in water or on wet ground.
- Improper grounding of the vehicle can cause personal injury. Do not plug the utility power cord into an outlet which is not grounded and do not adapt the plug to connect to a receptacle for which it is not designed.
- Do not attach an extension cord to the utility power cord.
- Do not use any electrical device that has had the ground pin removed.
- Avoid overloading electrical circuits. Replace fuses or circuit breakers with those of the same size and amperage rating only. Never use a higher rated fuse or breaker.
- Use caution when handling or working near electrical storage batteries. Always remove jewelry and wear protective clothing and eye covering. Avoid creating sparks.

LOADING

- Store or secure all loose items inside the motor home before traveling. Possible overlooked items such as canned goods or small appliances on the countertop, cooking pans on the range, or free-standing furniture items can become dangerous projectiles during a sudden stop.
- Be aware of GVWR, GAWR, and individual load limit on each tire or set of duals (See “Loading the Vehicle” in Section 12).
- Never load the motor home in excess of the gross vehicle weight rating of the gross axle weight rating for either axle.

MAINTENANCE

- Do not remove the radiator cap while engine and radiator are still hot. Always check coolant level visually at the see-through coolant reservoir.
- Never get beneath a vehicle that is held up by a jack only.
- Do not mix different construction types of tires on the vehicle, such as radial, bias, or belted tires, as vehicle handling may be affected. Replace tires with exact size, type, and load range.

EMERGENCY EXITS**Escape Window**

The escape window is secured by two red safety latches at the bottom of the window.

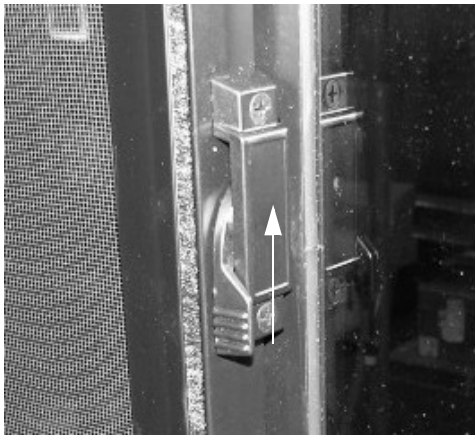
To open, lift both latches up and toward the center of the window, then push outward near the bottom of the window.



Escape Window - Lift latch handles upward to open.

Using Slider Windows As Emergency Exits

Some coaches are required to have a slider window as an alternate exit. This window will be marked EXIT and have a red-handled latch.



Pull latch UP to slide window open

Most slider windows along the side of any motor home can also be used as alternate emergency exits, should the need arise.

To use a slider windows as an exit, first slide the window open, then either slide the screen open or push the screen material out, depending on window construction.

Rear Escape Window

Some models may have a push-out rear escape window on the backwall of the coach.

To open, pull on the red plastic strap at the bottom of the window to remove the rubber cord that holds the window in place. Pull on the rubber cord until it is completely removed. This allows the window to be pushed out.



- Pull red strap to remove black rubber window retainer cord.
- Pull cord out completely and push window out of rubber frame.


Use rear escape window for emergency exit only. Do not test for proper operation. If the cord is released by accident, but the glass remains in place, the cord can be replaced using a blunt instrument, preferably one made of plastic. We recommend you contact your dealer for assistance.

POWER SOFAS AND BEDS


WARNING

Keep people away from operating mechanism and pinch hazard areas during use. Failure to do so could cause injury.

SLIDEOUT ROOMS

 WARNING
<p>Your motor home may have more than one slideout room. Understand which switch operates which slideout room prior to operation. Make sure all slideout rooms are clear of people who could be harmed or obstacles that could cause damage prior to operating any slideout rooms. Failure to observe can result in death or serious injury.</p>

Check inside and outside the vehicle to make sure that there are no people who could be harmed or obstacles that could cause damage due to room activation.

 WARNING
<p>Keep all persons clear of the slideout room and moving parts while extending or retracting. Do not occupy the slideout room while it is being extended or retracted. Failure to observe can result in death or serious injury.</p>

**FORMALDEHYDE
INFORMATION**

Some of the materials used in this recreational vehicle emit formaldehyde. Eye, nose, and throat irritation, headache, nausea, and a variety of asthma-like symptoms, including shortness of breath have been reported as a result of formaldehyde exposure. Reaction to formaldehyde exposure may vary among individuals. Elderly persons and young children, as well as anyone with a history of asthma, allergies, or lung problems may be at greater risk. Research is continuing on the possible long-term effects of exposure to formaldehyde. Inadequate ventilation may allow formaldehyde and other

contaminants to accumulate in indoor air. Ventilation to dilute the indoor air may be obtained from a passive or mechanical ventilation system. Always be sure to thoroughly ventilate your recreational vehicle before and during each use. High indoor temperatures and humidity may raise formaldehyde levels. When a recreational vehicle is in areas subject to high temperatures, an air conditioning system can be used to control indoor temperature levels. If you have any questions regarding the health effects of formaldehyde, consult your doctor or local health department.

**MOLD, MOISTURE, AND YOUR
MOTOR HOME**

What is Mold?

Molds are part of the natural environment. They are as old as the Earth itself and mold spores are almost everywhere at some level waiting to grow. Mold plays a part of nature by breaking down dead organic matter, such as fallen leaves and dead trees. Indoors however, mold growth should be avoided. Molds reproduce by means of tiny spores. Those spores are invisible to the naked eye and float throughout the outdoor and indoor air. Because of the nature of the use of a motor home, it is natural for a motor home to be introduced into an environment with mold spores.

Mold is a plant and requires its own special environment to grow. That environment includes organic materials, nutrients, moisture, and proper temperature.

How Can I Avoid Mold?

To reduce the ability for mold to grow, you must reduce what constitutes its growth environment. Mold can grow with the smallest of a nutrient base. Just small amounts of dirt or dust on the carpet can be enough to allow the mold process to begin. Keep the environment as clean as possible. Vacuum the carpet. Clean food spills thoroughly and quickly. Avoid grease buildup near the stove or sink. Clean the exhaust fan above the stove often.

SECTION 2 – SAFETY AND PRECAUTIONS

Impulse

Minimize moisture in your motor home and keep humidity low. Clean spills quickly. Do not allow condensation to build up. You can open windows and vents to minimize condensation. Use of the air conditioner can assist in removing moisture from the air. Avoid leaks, but if leaks do occur, make repairs promptly.

Avoid bringing mold into your motor home. Plants, cloths, books, and other household items may already have mold present. It is easy to transfer mold into your motor home environment.

Monitor your motor home. Periodically check those hidden areas in corners, closets, and cabinets to assure mold is not present.

What if I Find Mold?

If mold develops, clean the area with a concentrate of soap and bleach. Items that contain mold that cannot be cleaned should be removed from the vehicle.

Can Mold Harm Me?

The effects of mold and airborne mold spores may cause irritation to some people. Experts disagree on the level of exposure that may cause health concerns.

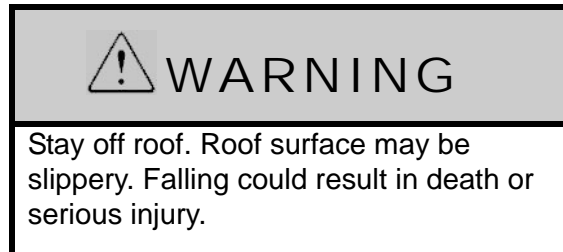
If Mold Is Present, What Will Winnebago Industries® Do?

If Winnebago Industries determines that mold is present in the Winnebago®/Itasca® motor home as a result of a manufacturing defect reported to Winnebago Industries within the limited warranty period, Winnebago will clean the affected area(s) and/or replace affected items as it deems necessary. This is the extent of coverage provided by Winnebago Industries. Winnebago Industries, however, will not assume responsibility for mold deemed to be a result of a motor home users lack of timely and appropriate action to mitigate circumstances should a problem occur.

If Winnebago Industries determines that mold is present due to conditions it determines is not a result of a manufacturing defect found within the

warranty period, Winnebago Industries will not provide any financial assistance to the repair of the condition.

ROOF AND LADDERS



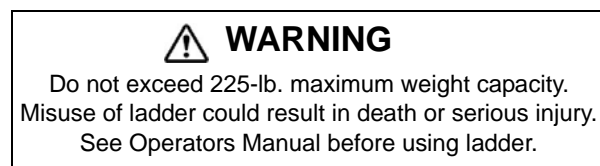
The ladder on your motor home is provided for limited access to the roof.

Walking or working on the roof should be left to qualified service personnel using proper safety equipment in a safe environment. You should only walk or work on the roof if you are qualified and have created a safe environment.

For your safety, it is not recommended that you store or carry items on the roof.

Before Using the Ladder

- **Inspect the ladder** to make sure it is not damaged. Never use a damaged ladder.
- **Keep the rungs of the ladder clean and dry** while in use. Never use the ladder when it is raining, snowing, or icy. The rungs can become slippery. Do not step onto the rungs if the rungs are wet, or if your shoes are wet or carry mud or debris that could result in a loss of footing.
- **Never ignore warning labels** or weight limits defined on your ladder. The following warning label is located on or near the ladder:



- **Maximum Capacity: 225 lbs.**
- **Do not overload.** Ladder is intended for one person.

- **Make sure you are physically capable** to safely use the ladder. Strength, flexibility, and stability are required.
- **Be aware that the vehicle may sway** as you climb the ladder. Do not use the ladder in high winds.
- **As you climb the ladder**, grasp the side rails firmly and always use both hands. Keep your body centered between the side rails. Do not over-reach.
- **Never allow children** on the ladder.
- **Do not transport items** anchored to the ladder. You could damage the ladder.

ROADSIDE EMERGENCY

Because of the size and weight of this vehicle and its tires, and the possible complications involved in tire changing, we strongly advise obtaining professional road service to change a flat tire whenever possible. However, if an emergency requires you to change the tire yourself, please exercise extreme caution and read all tire changing information in the chassis manual.

Never get beneath a vehicle that is held up by a jack only.

If You Get A Flat Tire

- DO NOT panic.
- Grip the steering wheel firmly and steer the vehicle as straight as possible. Avoid quick maneuvers. You may need to counter-steer to compensate for “pull” created by the failed tire.
- DO NOT stomp on the brake. This abruptly shifts the vehicle’s weight forward, making it nose-dive and pull toward the blown-out side.
- DO NOT jerk your foot off the accelerator. Just ease back on the accelerator slowly and gently to continue momentum. The deflated tire will slow the vehicle.
- If you must change lanes to get to a safe stopping place, use your signals to warn other motorists and change lanes smoothly and carefully after you are certain the lane is clear.

- Let the vehicle coast to a stop, gently steering to a safe stopping place off the traffic lanes of the road. Do not worry about damaging the tire or wheel rim by driving on it. A tire or wheel replacement is cheaper than damaging the vehicle or injuring yourself.
- When you have come to a stop, activate your hazard flashers to warn other motorists, then exit the vehicle carefully.
- Set out flares or other warning devices.

Check your tires for proper inflation before each trip and at least once a month with an accurate tire gauge.

Spare Tire Storage

If your coach is supplied with a spare tire, it may be fastened to the backwall of the coach or inside a rear storage compartment.

Some models, however, may have a swing-down spare tire carrier beneath the rear of the coach. Please follow all safety warnings and instructions for removing spare tire from the carrier.

Swing-Down Carrier (if equipped)



- Support tire carrier with a jack or block while removing wire pin and wing nut from bolt at front of carrier.
- Carefully lower tire carrier to ground.
- Remove 2 bolts and retainer plate that hold wheel to carrier bracket.
- Lift or slide tire from carrier.
- Do not over-tighten wing nut when returning carrier to storage position.

Recovery Towing

When calling a professional towing service, we recommend that you advise them of your coach length and approximate front axle weight listed on your Vehicle Certification Label. This will allow the towing operator to determine the proper towing equipment to use.

We recommend that you ask for an underlift (wheel lift or frame lift) type towing assembly for safe towing.

Winnebago Industries® does not assume responsibility for damage incurred while towing this vehicle.

NOTE: Consult the chassis manual for any additional towing instructions or precautions provided by the chassis manufacturer.

NOTICE

Do not lift on bumper. Damage will result to front end body parts.



WARNING

Stay out from beneath the motor home while it is suspended by the towing assembly. Do not allow passengers to occupy a towed vehicle. Death or serious injury can result.

NOTICE

Do not attempt to push start this vehicle. Damage to the transmission or other parts of the vehicle will occur.

ENGINE OVERHEAT

If you see or hear steam escaping from the engine compartment or have any other reason to suspect an extreme engine overheating condition, pull the vehicle over to the roadside as soon as it is safe to do so, stop the engine, and get all passengers out of the vehicle.

NOTICE

Operating a vehicle under a severe overheating condition can result in damage to the vehicle.

For information on what to do in case of overheating, consult your chassis manual.

JUMP STARTING

If your coach will not start from the chassis battery, try using the battery boost switch to divert power from the house batteries to the starter. (See either “Battery Boost Switch” or “Aux Start Switch”).

If you wish to try jump starting the engine using another vehicle or booster system, see your chassis manual for connecting jumper cables to the automotive electrical system.

SECTION 3 – DRIVING YOUR MOTOR HOME

The information in this section refers only to features installed or adapted to the dash and driver compartment area by Winnebago Industries®. It also includes passenger seating in the living area of the coach.

Further Information

See the chassis manual in your InfoCase for all original chassis related controls, instrumentation, switches, and other features. This includes items such as cruise control, climate controls, gauges, wipers, lights, front seats, and three-point safety belts, etc.



Folding Dinette Seat Back

- Remove dinette seat backrest cushion
- Unfasten bolt latch at aisle side of seat

SEATS – DRIVER/CO-PILOT

The driver and co-pilot seats may be independently adjusted to suit individual preference.

Further Information

See the chassis manual in your InfoCase for instructions on seat adjustments.

FOLD-DOWN DINETTE SEAT (Models without front slideout and with dinette seat directly behind driver or passenger front seat)

On some models, the dinette seat located directly behind the driver or passenger front seat must be folded down to allow front seat reclining.



- Fold dinette seat backrest down to recline front seat

Typical view - your coach may vary according to model and floorplan.

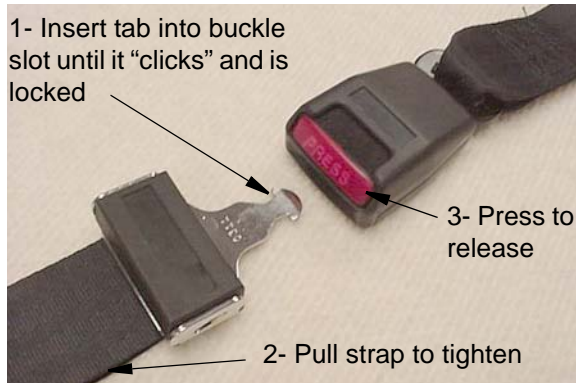
SEAT BELTS

Seats intended for occupancy while the vehicle is in motion are equipped with seat belts for the protection of the driver and passengers.

Lap Belts

The lap belts must be worn as low as possible and fit snugly across the hip area. Always sit erect and well back into the seat. To gain full

protection of the safety belt, never let more than one person use the same safety belt at any one time, and do not let the safety belts become damaged by pinching them in the doors or in the seat mechanism. After any serious accident, any seat belts which were in use at the time must be inspected and replaced if necessary.



Adjustment:

To lengthen belt, swivel the tab end at a right angle to belt and pull strap to desired length. To shorten, pull loose end of belt.

To Fasten:

Be sure belt is not twisted. Grasp each part of the belt assembly and push tongue into buckle. Adjust to a snug fit by pulling the loose end away from the tongue.

To Release:

Press button in center of buckle and slide tongue out of buckle.



WARNING

Snug and low belt positions are essential. This will ensure that the force exerted by the lap belt in a collision is spread over the strong hip area and not across the abdomen, which could result in serious injury.

Only seats equipped with seat belts are to be occupied while vehicle is in motion. Swivel seats must be in the locked, forward facing position while vehicle is in motion.

Lap/Shoulder Belts

See your chassis manual for instructions on proper fastening, adjustment, and releasing of lap/shoulder belts.

Seat Belt Care and Cleaning

- Be careful not to damage the belt webbing and hardware. Take care not to pinch them in the seat or doors.
- Inspect the belts and hardware periodically. Check for cuts, frays, and loose parts. Damaged parts should be replaced. Do not remove or modify the belt system.
- Keep belts clean and dry. If the belts need cleaning, use only a mild soap and water solution. Do not use hot water. Do not use abrasive cleaners, bleach, or dyes. These products may weaken the belts.
- Replace any belt assembly that was used during a severe impact. Replace the complete assembly even if damage is not apparent.

CHILD RESTRAINTS

-If Equipped

A properly installed and secured child restraint system can help reduce the chance or severity of personal injury to a child in an accident or during a sudden maneuver. Children may have a greater chance of being injured in an accident if they are seated in a child restraint system which is not properly secured.

A child restraint system is designed to be secured in a vehicle seat by a lap belt or the lap belt portion of a lap-shoulder belt.

When purchasing a child restraint system, follow these guidelines:

1. Look for the label certifying that it meets all applicable safety standards.
2. Make sure that it will attach to your vehicle and restrain your child securely and conveniently so that you are able to install it correctly each time it is used.

3. Be certain that it is appropriate for the child's height, weight, and development. The instructions and/or the regulation label attached to the restraint typically provides this information.
4. Review the instructions for installation and use of the restraint. Be sure that you understand them fully and can install the restraint properly and safely in your vehicle.

Tether Anchor Loop

-If Equipped

If your coach has a dinette, it may be equipped with a child seat tether anchor loop located on the floor directly behind the forward facing dinette seat.



NOTE: The dinette table must be in the lowered position when a child seat is in use.



1. Lower the dinette table.
2. Route the tether over the top of the dinette seat back and hook it to the anchor loop on the floor.
3. Fasten the lap belt.

Further Information

See the child seat manufacturer's specific instructions for proper attachment and adjustment of the tether and seat belts.

KEYS

Your motor home is supplied with several keys. In addition to the chassis manufacturer's ignition key, you receive keys for the entrance door and exterior compartment doors.

Keys have an identification number, either a small metal tag or stamped into the key head. These numbers are recorded on the vehicle's component model/serial sheet, which is included in your InfoCase. In case keys are lost or stolen, your dealer or a locksmith can provide you with duplicate keys or modify the locks.

HAZARD WARNING FLASHERS

The hazard warning flashers provide additional safety when the vehicle must be stopped on the side of the roadway and presents a possible hazard to other motorists. When the flashers are on, it serves as a warning to other drivers.

Further Information

See your chassis manual for instructions on activating, operating, and canceling hazard warning flashers.

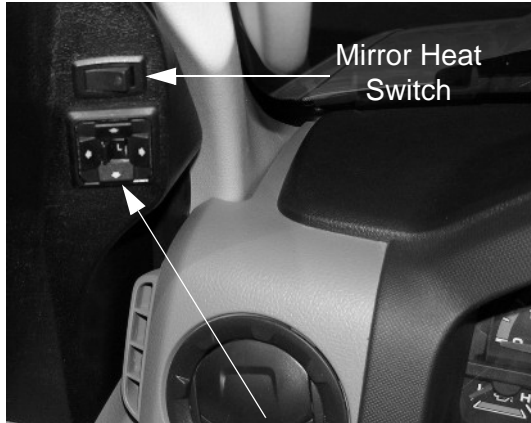
MIRRORS – POWER SIDEVIEW EXTERIOR

-If Equipped

Always adjust mirrors for maximum rear visibility before traveling. Make sure the seat is adjusted for proper vehicle control and that you are sitting back squarely into the seat.

The mirrors may also contain heating elements to de-fog or de-ice the mirror glass during cold weather operation. An ON-OFF switch for the mirror heaters is located near the remote mirror controls.

The ignition switch must be on to operate mirror controls and heaters.



Mirror Adjustment Control

- Mirror surface tilts in direction of arrow button pressed.
- Middle switch selects L or R mirror to adjust.
- Center position is “neutral” to disable arrow buttons and prevent misadjustment of mirrors.



Mirror Pivot Lock

- Unscrew protective cap and loosen Allen head set screw to pivot mirror head.



- The mirrors can be folded back against the cab doors, if needed.



Allen Head Set Screw

Mirror Head Adjustment

If you cannot adjust a mirror properly using the control switch, the mirror may need a coarse adjustment by rotating the mirror head.

Further Information

Refer to the manufacturer’s user manual provided in your InfoCase for further information.

MIRRORS – POWER SIDEVIEW EXTERIOR

–If Equipped

Always adjust mirrors for maximum rear visibility before traveling. Make sure the seat is adjusted for proper vehicle control and that you are sitting back squarely into the seat.

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Mirror Head Adjustment

If you cannot adjust a mirror properly using the control switch, the mirror may need a coarse adjustment by rotating the mirror head.

Further Information

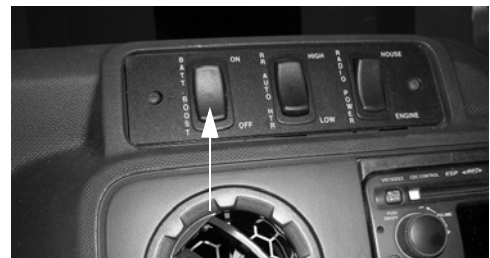
Refer to the manufacturer’s user manual provided in your InfoCase for further information.

BATTERY BOOST SWITCH

The Battery Boost switch can be used to draw emergency starting power from the house batteries to start the engine if the chassis battery is discharged.

Press and Hold the Battery Boost switch in the ON position while turning ignition key for emergency starting power.

NOTE: The House/Coach Battery Disconnect switch near the entrance door must be ON and house batteries must be sufficiently charged for this feature to work.



Battery Boost Switch

(Typical View - depending on model)

- If chassis battery is discharged, press and hold while turning ignition key for emergency starting power.

AIR CONDITIONER/HEATER – AUTOMOTIVE (DASH)

See your chassis manual for operating information on driver and passenger comfort controls – air conditioner, heater, defroster, and ventilation.

NOTE: The dash air conditioner is not designed to cool the entire interior of the coach, but is intended only to provide cooling for the cab area.

**RADIO IN-DASH/REARVIEW
MONITOR SYSTEM**

–If Equipped

The radio in your coach can receive AM/FM stereo and weather band stations. It also has a compact disc (CD) player for your listening enjoyment through quality high-output speakers located in several areas of the coach.

This system is also featured with a rearview camera monitor system, which lets you see what is directly behind your coach for safety and maneuvering assistance. The viewing screen is integrated into the dash.

The monitor screen “wakes up” automatically when transmission is shifted into reverse. A microphone built into the rear camera lets you hear warning sounds or verbal directions from an assistant.



Basic Operating Instructions

- **POWER ON/OFF** - Push to turn ON or OFF. Push and Hold to turn screen OFF. Touch screen to turn back ON.
- **MENU** - Press to access USER SETTING MENU. Press and Hold to access SYSTEM SETUP MENU.
- **AUDIO** - Press and Hold to access AUDIO MENU. Press to return to current playback mode.
- **CAM** - Press to access CAMERA mode. Press and Hold to access CAMERA SETTINGS MENU.



- **MUTE** - Press to MUTE audio.
- **EJECT** - Press to EJECT CD.
- **DAY/NIGHT** - Press to switch between stored DAY/NIGHT user settings. Press and Hold to access AUTO DAY/NIGHT adjust.
- **AUX IN** - Connect portable audio player.
- **USB** - Connect a USB Jump Drive. NOT FOR IPOD CONTROLS.



Satellite Radio

–If Equipped

Your coach may be equipped with a Sirius® satellite radio receiver that plays through your radio.

See the receiver manufacturer’s information in your InfoCase for programming and operating instructions.

NOTE: If your Sirius tuner is not activated, follow the instructions in the radio owners manual in your InfoCase for the phone number to call and procedure to access the Sirius Tuner ID Number (ESN).

iPod Cable

–If Equipped

Your coach may be equipped with a cable to connect your iPod to play through your dash radio. This cable is located in the motor cover beverage tray.



iPod Cable
-Typical View

See the manufacturer’s information in your InfoCase for operating instructions.

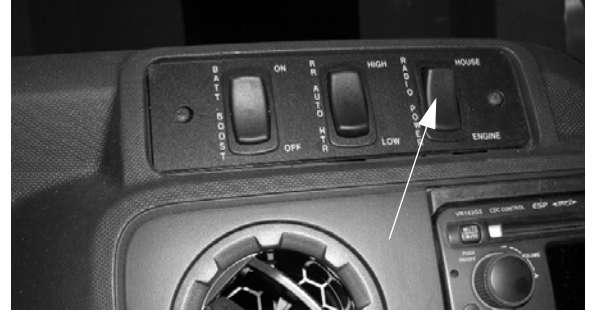
Radio Remote Control

A hand-held remote control for the radio lets you change radio stations or CD selections from a distance for your convenience. The remote control is included in your InfoCase.

Radio Power Switch

The Radio Power switch on the dash lets you connect the dash radio to the coach batteries when the ignition switch turned off for listening while parked. This prevents accidental draining of the chassis battery by prolonged use of the radio.

NOTE: The House/Coach Battery Disconnect switch must be ON while listening to the dash radio, as the audio relay is powered by house batteries. If the House/Coach Battery Disconnect switch is OFF, the speakers will not emit sound.



Radio Power Switch
(Located on dash)

- Press HOUSE to listen to the radio while parked without the ignition key on.
- Press ENGINE to listen while driving.

Further Information

See the manufacturer’s user guide provided in your InfoCase for complete operating instructions.

RADIO – IN-DASH

-If Equipped

The radio in your coach can receive AM/FM stereo and weather band stations. It also has a compact disc (CD) player for your listening enjoyment through quality high-output speakers located in several areas of the coach.



Please refer to the manufacturer’s operating guide in your InfoCase for detailed instructions on programming preset station buttons and using this full-featured radio/audio system.

Satellite Radio

-If Equipped

Your coach may be equipped with a Sirius® satellite radio receiver that plays through your radio.

See the receiver manufacturer's information in your InfoCase for programming and operating instructions.

NOTE: If your Sirius tuner is not activated, follow the instructions in the radio owners manual in your InfoCase for the phone number to call and procedure to access the Sirius Tuner ID Number (ESN).

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iPod Cable
-Typical View

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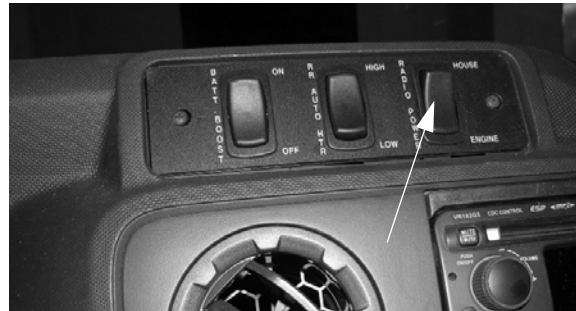
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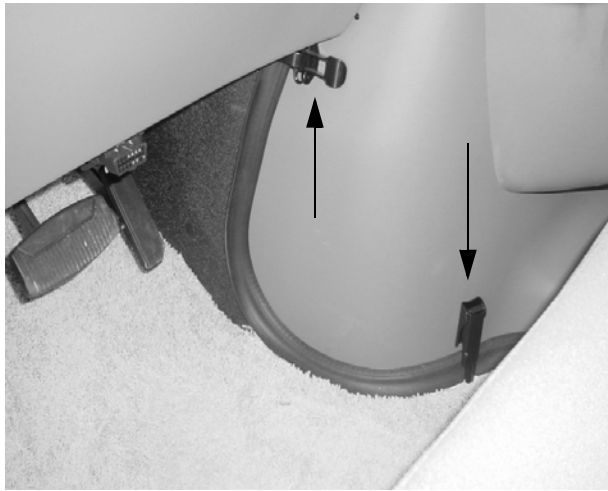
Further Information

See the manufacturer's user guide provided in your InfoCase for complete operating instructions.

ENGINE ACCESS – INTERIOR

Front Engine Cover

- **To remove cover**, unlatch the two clips (located on the upper left and right sides of the engine cover) and unlatch the two clips (located on each side of the bottom of the engine cover).



Front Engine Cover
-Typical View

ENGINE COOLING SYSTEM

Do not remove the radiator cap while engine and radiator are still hot. Always check coolant level visually at the see-through coolant reservoir.

NOTE: Your chassis engine cooling system is filled with special extended-life coolant that is not the same as common anti-freeze available at retail outlets. The coolant system MUST be refilled or topped up with the same type of coolant as equipped to maintain the special long-life properties.

Further Information

Refer to the chassis manual in your InfoCase for information and precautions on filling, servicing, and checking the fluid level.

TIRES

Improper tire pressure can result in tire overloading and abnormal wear and also affects handling, ride characteristics, and fuel economy.



WARNING

Make sure all replacement tires are of the same size and rating as those shown on your Vehicle Certification Label.

SUSPENSION ALIGNMENT AND TIRE BALANCE

The front suspension and steering system of this vehicle was factory aligned using highly accurate equipment prior to delivery to the dealership. However, alignment should be checked and adjusted after you have fully loaded the motor home according to your personal needs. Thereafter, the alignment should be periodically inspected to help prevent uneven tire wear.

Any excessive or abnormal tire wear may indicate worn or misaligned suspension or steering, unbalanced tire, or other tire/suspension problem.

Alignment can be affected by worn steering/suspension parts or by incidents which happen during driving, such as hitting a curb, pothole, or railroad track, etc. Improper alignment can cause tires to roll at an angle and wear unevenly. It may also cause the vehicle to “pull” to the right or left. Have your dealer inspect your vehicle’s suspension and steering components periodically for misalignment or wear.

Out-of-balance tires will not roll smoothly and can lead to vibrations and uneven tread wear, such as cupping and flat spots. Tires may need to be balanced if uneven wear is detected or if ride comfort decreases noticeably.

Further Information

See the chassis manual in your InfoCase for further information.

**AIR SPRINGS – REAR HELPER
(AIR BAGS)**

–If Equipped

The rear air helper springs (air bags) are an enhancement to the standard suspension system to provide adjustable load and ride conditions. This feature is not intended to increase the load capacity of the rear axle or vehicle.

Adjustment

Check and adjust the air bag pressure periodically to maintain optimal ride and handling characteristics according to cargo weight.

Too much air pressure in the air helper springs will result in a firmer ride, while too little air pressure will allow the air helper spring to bottom out over rough road conditions. Too little air pressure will also not provide the improvement in handling that is possible.

The air bags can be adjusted independently if necessary to equalize a load, however, we recommend maintaining the same pressure in both air bags whenever possible to ensure that the vehicle remains level.

Recommended Pressure

- Minimum Air Pressure 20 psi
- Maximum Air Pressure 80 psi

Air Spring



Rear Air Spring Valves
(Located inside left rear wheel well
-Typical View

LIGHTS

All exterior lights should be checked for proper operation each time the vehicle is prepared for a trip. Any bulbs which fail to light should be checked and replaced, when necessary, with a new bulb of the same size. A failure of more than one light, such as both taillights not operating, may indicate a burned out fuse. Check fuse and replace with one of the same rating when necessary. If a fuse is not the cause of the problem, the wiring system should be checked immediately by an authorized service center.

Further Information

Refer to the chassis manual in your InfoCase for further information.

SECTION 4 – APPLIANCES AND SYSTEMS

The appliances installed in your motor home are manufactured by reputable RV appliance makers and have been tested by independent laboratories to meet all applicable standards and codes set for RV appliances.

See *Section 2 - Safety and Precautions* of this manual for any safety and precautions you need to take regarding the operation of your appliances.

REFRIGERATOR

The refrigerator in your coach can operate from either of two energy sources available to the motor home:

- 120-Volt AC Electric
- Propane Gas

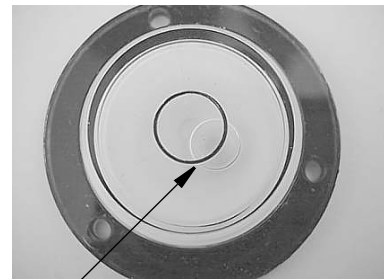
To be able to use both types of energy, the refrigerator does not have a compressor like household refrigerators. Instead, it uses an ammonia-water solution for cooling. Basically, ammonia vapor is distilled from the solution by heat produced from either propane gas flame or electrical heat element. The ammonia vapor is then carried to the finned condenser where it liquefies. The liquid then flows to an evaporator where it creates cooling by evaporation. The ammonia circulates back into the water solution and the cooling cycle continues.

Leveling

Before operating the refrigerator when the motor home is stationary, place a small level on the bottom of the refrigerator and make certain the unit is level. If over 1/2 of the bubble is inside the circle in any direction, the coach is level enough for continuous operation of the refrigerator while parked.



Place bubble level in bottom of refrigerator



Bubble must be at least 1/2 inside circle

Normal vehicle leveling to provide comfort for the occupants is satisfactory for refrigerator operation.

NOTICE

To prevent permanent damage to the refrigerator cooling unit, turn the refrigerator off if the vehicle will be parked on an incline of over 3° side-to-side or 6° front-to-rear (such as steep driveways or parking lots, etc.) for more than one hour.

Basic Operation

Slide the control switches to the operating positions described and observe the indicator lights.



- **Gas-** Refrigerator will operate on gas from the propane tank if the main valve is open and the tank contains gas.
- **Auto-** Refrigerator will operate on 120-VAC household current if the shoreline is connected or the auxiliary generator is running. If electricity is lost, it will automatically switch over to Gas operation if gas is available.
- **Temperature Setting-** Start at the coldest setting to ensure coldest temperature in the freezer compartment, then adjust warmer as necessary after cold* food has been added.
- **“On” Indicator Light-** Glows steady when refrigerator is operating properly.
- **“Gas” Indicator Light-** Will flash if gas is not available. To operate the refrigerator you must provide 120VAC then switch to Auto operation.

* The refrigerator will retain temperature more efficiently if food is cold before placing inside.

Further Information

For further information and operating cautions, see the refrigerator operating instructions included in your InfoCase.

REFRIGERATOR SERVICE ACCESS COMPARTMENT (Exterior)

The exterior refrigerator service compartment allows access to the rear of the refrigerator for inspection, maintenance, and service.

To Open

1. Use a screwdriver or coin to turn the latch knobs to the vertical position as shown.

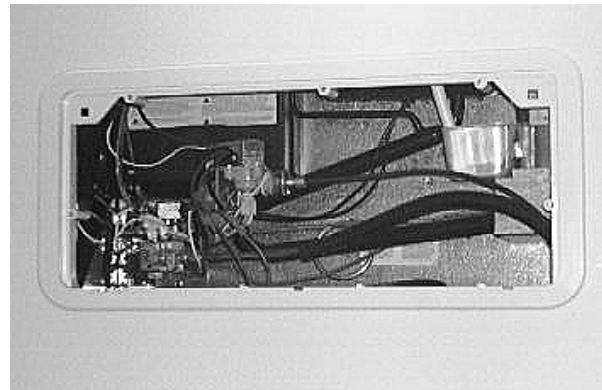


Refrigerator Access Door Latches

2. Remove the door from the opening.

To Close

1. Replace the door into the opening.
2. Push the latch knobs in while turning to the horizontal position as shown.



Refrigerator Access Compartment

RANGE AND OVEN

–If Equipped

The Range and optional Oven in your motor home operate on propane gas and will provide most of the functions of the range in your home.

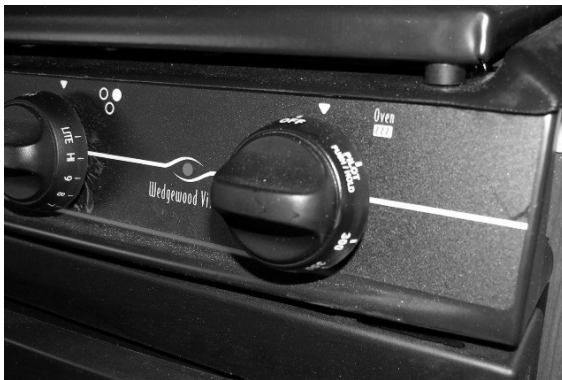


To Light Range Top Burners

- Turn the desired burner knob counter-clockwise to the ON or LITE position (do NOT attempt to light more than one burner at a time).
- Turn the SPARK knob clockwise one “click”.

NOTE: If the burner fails to light, continue turning the SPARK knob clockwise until the burner lights.

- To extinguish the burner flame, turn desired burner knob clockwise to OFF.



**Oven Burner Knob
–If Equipped**

- PILOT ON position keeps pilot flame lit for repeated use of Oven while vehicle is parked.
- Turn Oven knob to PILOT OFF position while traveling or refilling propane gas tank.

To Light Oven Pilot

- See “Oven Operation” in the manufacturer’s user guide provided in your InfoCase.

Avoiding Asphyxiation

The following warning label has been located in the cooking area to remind you to provide an adequate supply of fresh air for combustion.

⚠ WARNING

IT IS NOT SAFE TO USE
COOKING APPLIANCES
FOR COMFORT HEATING

Cooking appliances need fresh air for safe operation. Before operation

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

FAILURE TO COMPLY COULD RESULT IN
DEATH OR SERIOUS INJURY.

Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliances avoids dangers of asphyxiation.

It is especially important that cooking appliances not be used for comfort heating, as the danger of asphyxiation is greater when the appliance is used for long periods of time.

FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.

⚠ WARNING

Portable fuel-burning equipment including wood and charcoal grills and stoves, shall not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle can cause fires or asphyxiation. Failure to comply could result in death or serious injury.

Further Information

See the appliance manufacturer’s user guide provided your InfoCase for complete operating instructions and safety precautions.

MICROWAVE OVEN

-If Equipped

Refer to the microwave oven manufacturer’s information provided in your InfoCase for complete operating instructions.

RANGE HOOD

-If Equipped

The range hood vent draws cooking odors and airborne grease particles into the filtration grid and either recirculates the air or vents it to the outside of the coach, depending on model.

A light on the underside of the hood provides illumination for cooking and food preparation.

Further Information

See the manufacturer’s user guide provided in your InfoCase for instructions on replacement of light bulbs and replacement or cleaning of grease filter elements.



The approximate fluid levels are measured by electronic sensors on the sides of the tanks. There is generally more fluid in a tank than indicated on the monitor panel.

SYSTEMS MONITOR PANEL

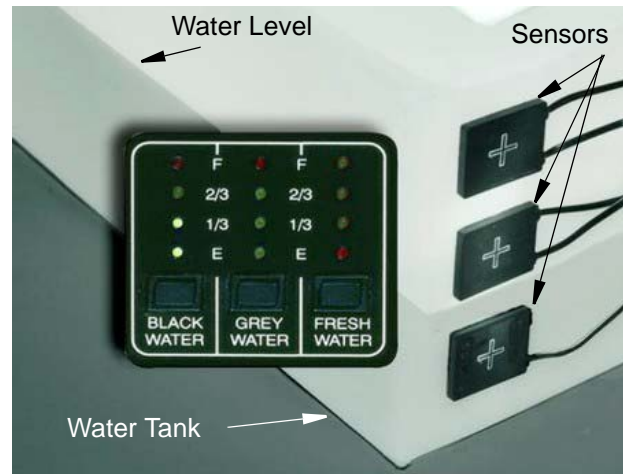
The Systems Monitor Panel provides a convenient central location for checking the condition of all utility systems in your coach.



At the touch of a button this panel will display the fresh water and holding tank levels, propane gas tank level, plus the house battery condition. You can start the generator or turn on the water pump and water heater. Indicator lights tell you if the water pump is on or if the water heater pilot light is out.

Water And Holding Tank Levels

Press and Hold the Levels Test switch to show approximate level on the monitor lights.



For example, if the fluid level is 1-2” below the FULL sensor, the monitor will show the level to be only 2/3 even though the tank is nearly full.

If a tank is about 1/4 full, the monitor will register an empty tank because the fluid level is below the 1/3 sensor even though there is still fluid in the tank.

However, when the indicator reads FULL, the tank is actually full.

Tank Capacities

See “Tank Capacities” in *Section 1 - Introduction*.

Propane Gas Level

Press and Hold the Levels Test switch to show approximate propane tank level.

The propane level is registered by a sending unit on the tank. The gauge mounted on the side of the tank will give a more accurate indication of actual tank level if needed.

Battery Charge Meter

Press and Hold the Levels Test switch to check the level of charge (voltage) in the 12-volt house battery.

The colored segments (red, yellow, and green) will light from the bottom up to the amount of charge the battery contains.

- Green - good or adequate charge.
- Yellow - marginal charge.
- Red - battery needs charging before use.

To get an accurate reading:

1. Both the chassis engine and the generator engine must be shut off and 120-volt AC shoreline unplugged.
2. An interior light should be turned on to provide a small load which draws off the battery surface charge.

Water Pump Switch

When use of the self-contained water system is desired, turn the Water Pump switch on. The “Pump On” light will illuminate when the pump switch is on and the system is operable. Water will be available as soon as a faucet is opened.

Refer to the Water Pump information elsewhere in this section for additional information on the water pump and initial start-up.



NOTE: Some models may be equipped with a Water Pump switch in the water service center on the outside of the coach or within the bathroom area for your convenience.

WATER HEATER - GAS/ ELECTRIC

The gas/electric water heater has a dual power feature. It can operate from propane gas or 120-volt house current, or it can use both at the same time for quicker recovery at times when you are using a lot of hot water.

Read the Water Heater Operation Manual for complete Safety Warnings, Operating Instructions, and Maintenance Information before operating the water heater.

Be sure the water heater is filled with water before starting either electric or propane gas operation. To fill the water heater, turn the Water Pump switch on and open a hot water faucet anywhere in the coach. When water begins to flow steadily from the faucet, the water heater is full.

For Propane Gas Operation

Press the Water Heater switch on the Systems Monitor Panel. The “Pilot Out” light will glow for about 10-15 seconds, then it will go out. The “Heater On” indicator will remain lit. If the “Pilot Out” light comes on during gas operation, it means that the burner has gone into “lockout” mode and must be restarted. If this happens, turn the Water Heater switch off for about 5 minutes, then turn it back on.



Gas Water Heater Switch
(Located on Systems
Monitor Panel)

For Electric Operation

Turn on the Water Heater electric element switch. The shoreline must be connected or generator running for electric operation.



Electric Water Heater Switch
(Typically located near
Systems Monitor Panel)

For Quick Recovery Operation (Dual Heating)

Turn On both Water Heater switches - the gas one on the monitor panel and the electric one. This will help reheat the water heater tank more quickly than a single source would alone. Use this mode when you are using a larger than normal volume of hot water.

Further Information

Read the operating and safety information provided in the Water Heater Operation Manual in your InfoCase.

WATER HEATER - GAS/ ELECTRIC

-If Equipped (with Motoraid water heating system)

The gas/electric water heater has a dual power feature. It can operate from propane gas or 120-volt house current, or it can use both at the same time for quicker recovery at times when you are using a lot of hot water.

Read the Water Heater Operation Manual for complete Safety Warnings, Operating Instructions and Maintenance Information before operating the water heater.

Be sure the water heater is filled with water before starting either electric or propane gas operation. To fill the water heater, turn the Water Pump switch on and open a hot water faucet anywhere in the coach. When water begins to flow steadily from the faucet, the water heater is full.

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Electric Water Heater Switch
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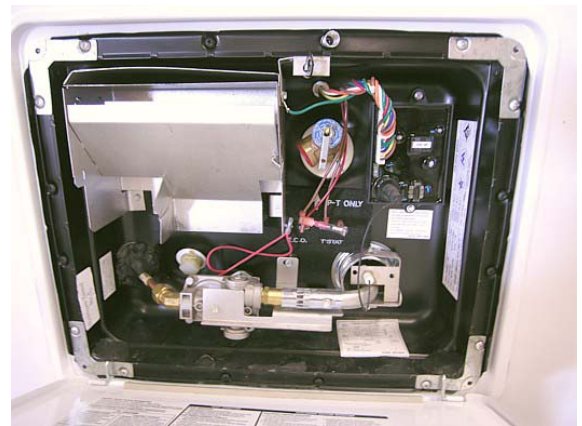
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Further Information

Read the operating and safety information provided in the Water Heater Operation Manual in your InfoCase.


PRESSURE-TEMPERATURE RELIEF VALVE

On occasion, water may be seen seeping from the water heater pressure temperature relief valve. This is no cause for repair or replacement of the valve.



Water Heater Exterior Service Access

Normally there is an air gap at the top of the water heater tank, which acts as a pressure buffer. In time, however, heated water may expand and fill this air gap, causing a slight increase in water pressure. This may cause the P-T valve to “weep” until the air gap is manually replaced.

 CAUTION
<p>Hot water can escape from tank causing injury. Operate this valve only when the water heater and engine cooling system are cold.</p>

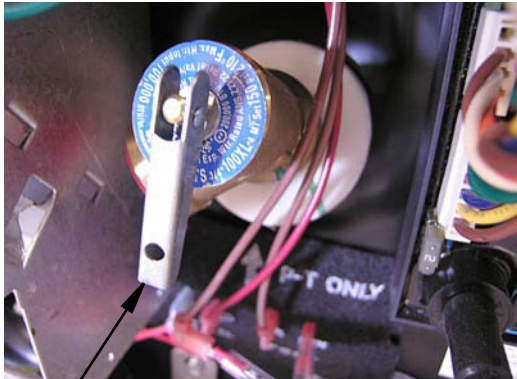
To Replace the Air Gap:

1. Turn off the Water Heater switch and incoming water supply (city water and/or demand pump).

SECTION 4 – APPLIANCES AND SYSTEMS

Impulse

2. Open a faucet in the motor home to relieve water pressure.
3. Pull the handle of the P-T valve straight out and allow water to flow until it stops.



•Lift handle straight out to open P-T valve when water heater is cold

4. Let the handle of the P-T valve snap shut.
5. Close the faucet and turn on the water supply before switching the water heater on.

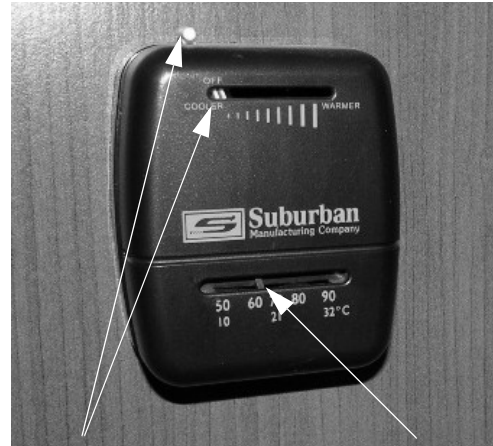
Manually operate the pressure temperature relief valve at least once a year.

NOTE: If your water heater is equipped with the motoraid system, it uses an extension from the engine cooling system to heat water in the water heater while driving. The engine cooling system must also be cold before opening the pressure-temperature relief valve. See “Motoraid Water Heater” for more information.

PROPANE GAS FURNACE

To Start Up

1. Open the Propane Gas Tank valve by turning fully counter-clockwise.
2. Move the Thermostat/Switch to from OFF to the desired temperature position.



Thermostat/Switch
•Move from OFF to desired temperature for furnace operation

Room Temperature
Thermometer

3. Furnace fan should start to blow immediately after setting the Thermostat.
4. After approximately 30 seconds, the Furnace burner should light.
5. The Furnace should now cycle off and on automatically as the Thermostat demands just like a household furnace.

If heat does not come out of the heat ducts after a minute or so, the burner is not lit.

Turn Thermostat OFF for 3-5 minutes, ensure Propane Gas Tank valve is open and tank is not empty, and repeat Steps 2 through 4.

If the Furnace will not light after three attempts, follow “Shut Down” steps and contact your dealer or a local RV service center for repair.

NOTE: If the Furnace burner has any residuals of metal protectant or lubricants used during manufacture of the Furnace, it may smoke slightly when the Furnace is used for the first time and may set off your smoke alarm.

We recommend that you provide adequate ventilation when using the Furnace for the first time to avoid a nuisance smoke alarm.

We do not recommend removing the smoke alarm battery.

To Shut Down

- Move Thermostat switch to OFF position.
- Close Propane Gas Tank valve if coach will be stored for a period of time.

Further Information

Refer to the manufacturer’s user guide provided in your InfoCase for further information, including operating precautions and periodic maintenance. See the Coach Maintenance Schedule for recommended intervals.

PROPANE GAS FURNACE

To Start Up

1. Open the LP gas tank valve by turning fully counter-clockwise.



Temp Selector
• Press up or down to select temperature

2. Move THERMOSTAT switch from Off to Heat and press the Temp Selector button (Up/Down arrows) until the desired temperature is shown in the display.
3. Furnace fan should start to blow immediately after setting the thermostat.
4. After about 30 seconds, the furnace burner should light.
5. The furnace should now cycle off and on automatically as the thermostat demands just like a household furnace.

NOTE: If heat does not come out of the heat ducts after a minute or so the burner is not lit.

Turn thermostat off for 3-5 minutes, check to be sure propane gas tank valve is open and tank is not empty, then try steps 2-4 again.

If the furnace will not light after three attempts, go to Shut Down steps and contact your dealer or a local RV service center for repair.

To Shut Down

1. Slide thermostat switch to Off position.
2. Close propane tank valve if coach will be stored for a period of time.

Further Information

Please see the furnace operating instructions provided in your InfoCase for further information, including operating precautions, and periodic maintenance. See the Coach Maintenance Schedule for recommended intervals.

NOTE: If the furnace burner has any residuals of metal protectant or lubricants used during manufacture of the furnace, it may smoke slightly when the furnace is used for the first time and may set off your smoke alarm.

We recommend that you provide adequate ventilation when using the furnace for the first time to avoid a nuisance smoke alarm.

We do not recommend removing the smoke alarm battery.

DUCTED ROOF AIR CONDITIONING SYSTEM

The furnace thermostat also controls ducted roof air conditioner operation when the thermostat switch is placed in “cool” position.

All cooling functions controlling to setpoint have a short cycle protection time delay of 3 minutes. There will be no delay if the cycle OFF time exceeds 3 minutes.

NOTE: The ducted roof air conditioning system has ceiling registers that can be closed if necessary to force more cool air toward a specific area of the coach or to route cool air away from a specific area. If too many vents are closed, however, it can cause the air conditioner unit to shut down, particularly in high humidity conditions.

Further Information

Refer to the air conditioner manufacturer's information in your InfoCase for complete operating instructions.

AIR CONDITIONER FILTER

The washable foam filter should be checked monthly for dirt build-up and cleaned or replaced as needed.

It is located in the ceiling mounted return A/C grille in the lounge area.

SECTION 5 – PROPANE GAS

PROPANE GAS SUPPLY

The propane gas system supplies fuel for the gas range/oven, water heater, furnace, and refrigerator (while in gas mode). When used and handled properly, this system is safe and economical and provides modern living conveniences wherever you travel.

See *Section 2 - Safety and Precautions* in this manual for other safety and precautions you need to be aware of related to propane.

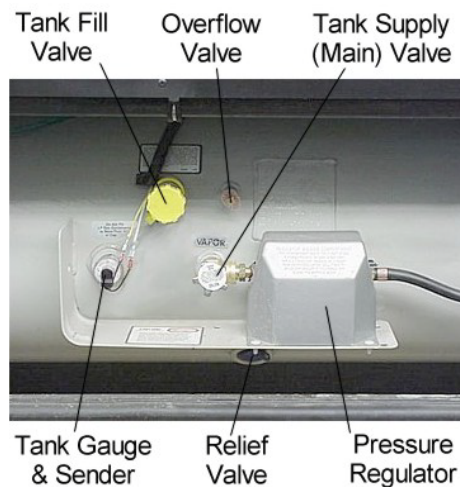
How Propane Gas Works

Propane is a type of LP (Liquefied Petroleum) gas compressed into liquid form for easy transportation and storage. Propane gas may also be called tank gas, bottle gas, or simply LP.

Propane is used by appliances in vapor form only, but is stored in the tank as a liquid under very high pressure. As the liquid gas is released, it reverts back to a vapor and expands to many times its compressed volume.

Propane Tank System

The storage reservoir for the propane gas system is a horizontally mounted tank which is permanently attached to the vehicle frame. The tank is accessible only from the outside of the vehicle.



Propane Tank Features
-Typical View



WARNING

Do not alter or remove propane tank valves or gauge. Propane can escape, which can cause an explosion resulting in death or serious injury. Have the propane system serviced by a qualified service center.

Refilling Propane Tank

Since the propane tank is permanently mounted to the frame, the motor home must be taken to a propane dealership for filling. Do not attempt to remove the propane tank from the vehicle. The tank is equipped with a fill adapter with both internal and external threads, which allows easy filling with any propane filling equipment. The tank is full when liquid propane gas appears at the overflow valve.

NOTE: The propane tank is equipped with an automatic 80% stop-fill device.

 **DANGER**

DO NOT FILL CONTAINER TO MORE THAN 80 PERCENT OF CAPACITY. FAILURE TO COMPLY COULD RESULT IN A FIRE OR PERSONAL INJURY.

Make sure the motor home is level when filling. It is possible to accidentally overflow the tank if the vehicle is not level, with the fill valve on the uphill side. Overfilling the propane gas tank can result in uncontrolled gas flow, which can cause fire or explosion. A properly filled container will contain approximately 80 percent of its volume as liquid propane gas.

All pilot lights must be extinguished and appliances and their ignitors turned off, and supply valve closed before refilling propane gas tanks or vehicle fuel tanks.

Do not smoke or expose an open flame while near a propane refueling area. Propane gas is heavier-than-air and extremely flammable.

Never fill the propane tank with engine or generator running.

Before opening the supply valve, check to be sure all controls for gas appliances are in the “Off” or “Pilot Off” position. If this step is not performed, propane gas could accumulate inside the motor home creating a fire or explosion hazard.

Never use an open flame to test for propane gas leaks.

Replace all protective covers and caps on propane system before filling.

Selecting Propane Fuel Types

We recommend using straight propane in your propane tank. Propane gas is commonly available at all propane gas outlets in the U.S. (According to the National Propane Gas Association, propane gas outlets in the United States do not offer any other type of liquefied petroleum gas than propane to the general public.) Check local

phone directory yellow pages for locations of local propane gas refilling stations or bulk dealerships.

NOTE: If you travel outside the U.S. with your motor home, you may find butane or propane/butane mixtures available in addition to propane. Because gas-burning RV appliances are designed to run on propane only, we recommend that you request straight propane only. Butane burns about 30 percent hotter than propane and can overheat some appliances, particularly refrigerators, and cause permanent damage. Other appliances designed to operate on propane can become sooted and lose efficiency by using butane fuel.

Air in the Propane Gas Tank

If your gas appliances do not stay lit or require frequent adjustment, even though you know the propane tank contains sufficient fuel, the problem may be air in the propane gas tank. Air in the tank mixes with the propane gas vapors causing them to burn poorly. This condition could linger for weeks if the air is not purged from the tank. Most propane gas dealers have equipment for purging air from propane gas tanks and will purge before refilling the tank.

SAFE USE OF THE PROPANE GAS SYSTEM

The propane system is designed and built with strict adherence to national, state, and recreational vehicle industry requirements for mobile propane gas equipment.

For your safety, there are many safety devices and backup systems installed, such as tank fill overflow valves, an interior propane gas detector/ alarm, and an interior carbon monoxide (CO) detector/alarm.

Propane gas also contains an odor additive that you can smell if propane is present in the air.

Here are a few precautions to observe that will help you to use the propane gas system safely:

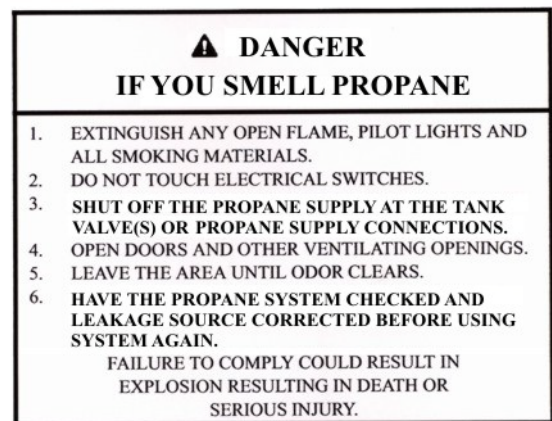
- Exercise caution at all times. Be familiar with the distinctive odor of propane gas. If a leak is suspected, turn off the supply valve immediately. Have the propane gas system checked by your dealer or other qualified propane gas service center.
- Do not tamper with the propane gas piping system, pressure regulator, or gas appliances. Service and maintenance of propane gas system components should be performed only by your dealer or a qualified propane gas service center.
- Never attempt to connect natural gas to the propane gas system.
- Have the entire propane gas system inspected for possible leaks and missing or damaged parts at each tank filling. Also inspect before and after each trip, and any time trouble is suspected.
- Turn the propane supply valve off when not using the propane gas system.
- Never use a wrench to tighten the tank supply valve. It is designed to close leak-tight by hand. If a wrench is required to completely close the valve, it is defective and must be replaced.
- Be sure appliance and outside vents are open and free from obstruction when using the propane gas system.
- Never attach a lock or any device requiring a key to the propane tank compartment door. According to standards set for recreation vehicles, the propane supply valve must be readily accessible in an emergency.
- Exercise caution when drilling holes or attaching objects to the walls. Gas lines and electrical wiring could be seriously damaged and present an extreme safety hazard.

PROPANE GAS WARNINGS AND PRECAUTIONS

It is illegal for vehicles equipped with propane tanks to travel on certain roadways or through certain tunnels in the U.S. To avoid inconvenience, check state regulations concerning flammable gas transportation.

Propane Gas Leaks

The following label is located in the vehicle near the range area. If you smell gas within the vehicle, quickly and carefully perform the procedures listed.



- All pilot lights must be extinguished and appliances and their ignitors turned off while refilling the fuel tank or propane tank.
- Never smoke while refilling vehicle fuel tank or propane gas tank.
- Avoid inhaling exhaust gases produced by burned gasoline, diesel fuel, or propane gas in items such as the range, chassis engine, generator engine, refrigerator, furnace, and water heater. They contain carbon monoxide, which is an odorless, colorless, and poisonous gas.

 **WARNING**

Propane cylinders shall not be placed or stored inside the vehicle. Propane cylinders are equipped with safety devices that relieve pressure by discharging propane to the atmosphere. Failure to comply could result in death or serious injury.

- Never use an open flame to test for propane gas leaks. Replace all protective covers and caps on propane system after filling. Make sure valve is closed and door latched securely.
- Portable fuel-burning equipment, including wood and charcoal grills and stoves, shall not be used inside the recreational vehicle. The use of this equipment inside the recreational vehicle may cause fires or asphyxiation.
- Regulators are equipped with a protective cover. Make sure that the regulator vent faces downward and that the cover is kept in place to minimize vent blockage, which could result in excessive gas pressure causing fire or explosion.

 **WARNING**

Visually inspect the pressure regulator vent periodically for blockage by accumulated debris or insect nests, etc. Vent obstruction could result in excessive pressure causing fire or explosion, which could result in death or serious injury. If an obstruction exists, have the regulator serviced by a qualified service center.

NOTE: If your model is equipped with a propane powered electrical generator, there will be two regulators stacked one upon another. One regulates the house propane supply pressure, the other regulates pressure to the generator.

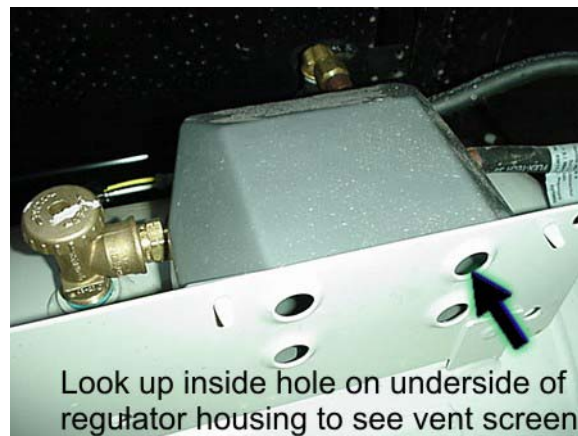


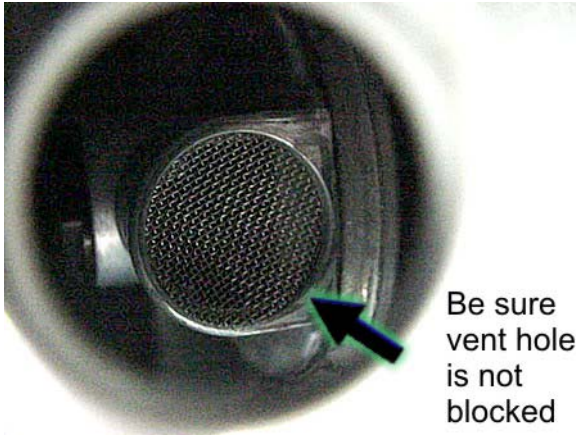
PROPANE GAS PRESSURE REGULATOR

The pressure regulator is protected from the elements by a plastic cover, which should be left in place at all times.

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

Only your dealer or a qualified propane gas service should remove the regulator cover for adjustments.





Regulator Freeze-up

Regulator freeze-ups are caused by the presence of moisture in fuel. This moisture will pass through the cylinder valve and into the regulator where it can freeze. Fuel producers, tank and bottle manufacturers, and propane gas dealers take every precaution to reduce moisture, but sometimes only a fraction of an ounce entering the tank can cause problems. To help avoid the possibility of freeze-up, always keep tank control valve closed when not in use, even when tank is empty, to prevent moisture from collecting on the inside.

If regulator freeze-up should occur, you may attempt to thaw the regulator using a light bulb. **DO NOT USE AN OPEN FLAME OR HEAT LAMP.**

If moisture begins to cause problems, have your propane gas dealer inject a small amount of dry methyl alcohol in your tank (approximately one ounce to 20 pounds or one pint to 100 gallons) to help guard against regulator freeze-ups.

PROPANE VAPORIZATION IN COLD WEATHER

Propane gas vaporization increases and decreases in direct relation to ambient temperature. In other words, the lower the temperature, the slower the liquid propane will vaporize into a usable gas for appliances.

This means that in extremely cold weather when a large volume of gas is being used by the furnace for heating, it is possible to experience a loss of gas pressure.

At first, this problem may appear to be caused by an empty tank or a regulator freeze-up, but is actually caused by failure of the liquid gas to vaporize as fast as it is needed by the furnace.

The demand for propane to produce heat increases to the point where the gas cannot vaporize fast enough to keep the furnace going. The only solution to this problem is to reduce gas usage where possible.

Adjusting the temperature on the gas/electric refrigerator may be a first step. Using less hot water will also help, as well as refraining from using the gas cooktop. A final step is to lower the thermostat setting to reduce gas usage by the furnace.

SECTION 6 – ELECTRICAL

Your coach is equipped with an electrical system consisting of two separate voltages:

- 12-volt DC system (battery current); and
- 120-volt AC system (household current)

The 12-volt system consists of two internal power sources, while the 120-volt system is operated from an outside power source or the optional 120-volt generator.

ELECTRICAL CAUTIONS

- Careless handling of electrical components can be fatal. Never touch or use electrical components or appliances while feet are bare, while hands are wet, or while standing in water or on wet ground.
- Improper grounding of the vehicle can cause personal injury. Do not plug the utility power cord into an outlet which is not grounded and do not adapt the plug to connect to a receptacle for which it is not designed.
- Do not attach an extension cord to the utility power cord.
- Be sure that all electrical appliances to be used contain 3-prong plugs for proper grounding.
- Avoid overloading electrical circuits. Replace fuses or circuit breakers with those of the same size and amperage rating only. Never use a higher rated fuse or breaker.
- Use caution when handling or working near electrical storage batteries. Always remove jewelry and wear protective clothing and eye covering. Avoid creating sparks.

ELECTRICAL SYSTEM – HOUSE 120-VOLT AC

The 120-volt system operates from the shoreline cord connected to an outside 120-volt utility service, such as those at campgrounds or from the 120-volt generator. When the shoreline cord is connected to an outside power source, or when the auxiliary electric generator is running,

the power converter automatically changes a portion of the 120-volt current to 12-volt DC current. All equipment in the motor home that is normally powered by the house batteries is then powered through the converter.

In addition, the following equipment is entirely dependent on 120-volt current: air conditioner, refrigerator (when placed in AC mode), microwave oven, and any 120-volt electrical equipment used at convenience outlets.

EXTERNAL POWER CORD (Shoreline)

 **WARNING**

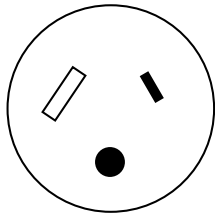
Do not use an extension cord. Improper sized cords, damaged cords, and poor connections can lead to fire, which can result in death or serious injury.

 **WARNING**

Do not connect the external power cord to any receptacle until you have verified proper polarity and grounding. Be sure all prongs of the supply cord are properly plugged into the receptacle. Failure to observe can result in death or serious injury.

The external power cord (commonly referred to as a “shoreline”) is located in a driver side compartment.

To connect to an external power source, remove the power cord from the utility compartment and plug it into a suitable power outlet box.



30 Amp Receptacle

The power cord is designed to ground the electrical system through the receptacle. It is also designed to carry the amperage output of most campground outlets. If the electrical receptacle to be used is designed to mate with the prongs of the power cord plug, the electrical connection can be expected to carry rated load.

**Power Cord Door
(Models with power cord compartment on
sidewall)**

–If Equipped

A flip-up passage in the power cord door lets you route the power cord out of the compartment and close the door while the power cord is connected.



- Swivel the small cover section upward to access the cord passage.



- Route power cord through passage and close door while shoreline is connected to outlet.

After disconnecting the power cord, neatly replace it in the cord compartment.

NOTE: Always keep compartment door and access passage closed while shoreline cord is not in use.

Park Fuses or Breakers

Most campgrounds are equipped with a fuse or circuit breaker at the receptacle (which we recommend shutting off before engaging or disengaging the power cord.) This protects the park’s wiring, as well as the power cord on your vehicle from electrical damage. If electrical power fails, contact the park attendants and have them check the fuse or breaker for your supply receptacle.

POWER CENTER

(Converter)

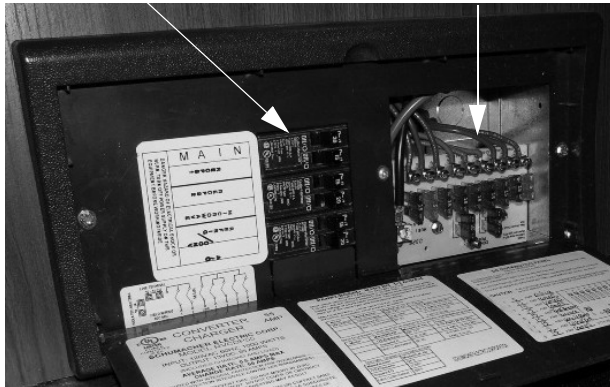
The power converter is generally located in a lower cabinet face in the galley or living area, depending on the floorplan of your model.

The converter power panel contains the house electrical system 120-volt circuit breakers and 12-volt fuses.

The power converter changes 120-volt AC current from the auxiliary generator or the shoreline into 12-volt DC current for use by 12-volt equipment in the motor home.

120-Volt
Circuit Breakers

12-Volt
House Fuses



Power Center (Converter)
-Typical View

Certain circuits, however, remain unchanged for use by items which require 120-volt current, such as the air conditioner(s), the refrigerator in AC mode, the microwave oven, etc.

NOTE: The converter will not change 12-volt DC current to 120-volt AC.

Current drawn from the house batteries passes through the power converter unchanged, although it is routed through a series of protective fuses located on the power panel.

NOTICE

Do not block the converter cover vents in any way. The converter generates heat while operating and needs unrestricted airflow for proper cooling. Damage to the converter can result.

Further Information

See the manufacturer’s operation, care, and maintenance information provided in your InfoCase.

Charging Section

The converter charges house batteries while 120-volt external power is connected. The converter will automatically “sense” the

condition of the battery. If it is below “full charge”, the Charging Section will start charging the batteries.

If the house batteries have been extremely discharged, they will accept charge at a relatively high amperage rate. If they are only slightly discharged, they will charge at a lower amperage rate. The rate of charge will decrease as the batteries reach “full charge”, then will continue “trickle” charging at a very low amperage rate. If your battery does not charge as described above, it is possible the battery is defective.

Thermal Overload

A thermal overload will “break” the 120-volt AC power to the converter section of the Power Center if the power converter becomes overheated. This can result from operating above its maximum limit for an extended period of time or by obstruction of ventilation to unit.

NOTE: The power converter section will automatically route 12-volt lights and motors to house battery power in this event.

The thermal overload will reset itself after a period of time, and the lights and motors will again resume operation from the power converter section. If the breaker trips again shortly after reset, take immediate steps to correct the cause of overheating. A portion of the house 12-volt load (lights or motors or both) should be turned off to reduce total load. Also, inspect the power converter to make sure ventilation is not obstructed.

CIRCUIT BREAKERS – HOUSE 120-VOLT AC

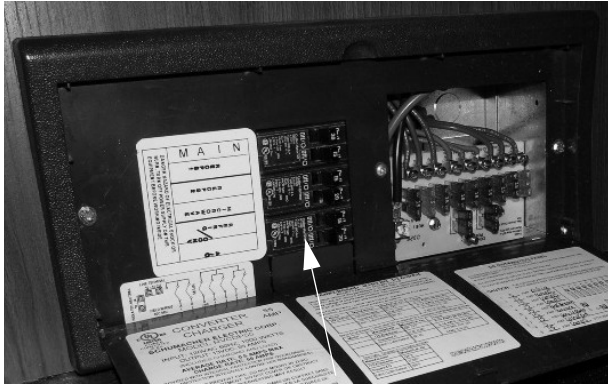
The breaker panel protects all 120-volt components in the motor home from either an overload on the circuit or a short in the wiring or component itself. When an overload or short develops, the breaker will open preventing damage to the system.

Shut off the equipment (example: roof air conditioner) and allow a brief cooling period. Then reset the breaker by moving the switch to

SECTION 6 – ELECTRICAL

Impulse

“Off” and back to “On”. If the breaker is continually tripped and no overload is evident, have the system checked for a short in the wiring or the appliances.



120-Volt Circuit Breakers
-Typical View

NOTE: Typical view of breaker panel. Breaker arrangement may vary according to appliance and equipment options. Fuses and breakers are labeled on panel.

ELECTRICAL OUTLETS – HOUSE 120-VOLT AC

A number of standard household electrical outlets are provided throughout the coach for connecting small appliances such as televisions, radios, toasters, etc.

An exterior outlet is also located on the outside of the coach near the entrance door or in a storage compartment on the passenger side of the coach.

GROUND FAULT CIRCUIT INTERRUPTER

Bath, galley, and exterior outlets are connected to a GFCI (Ground Fault Circuit Interrupter), which is an extremely sensitive circuit breaker that will help to protect against severe electrical shock if a ground fault develops. If such a condition occurs, the GFCI will break the circuit by turning off the power to the protected outlets. Should this occur, unplug all the appliances on that circuit and press the reset button on the GFCI equipped outlet.

If the GFCI keeps tripping, have the electrical system checked and repaired, if necessary, before using again.



GFCI Outlet
(Ground Fault Protector)

•Push to Reset circuit after monthly testing or ground fault tripping.

•Push to Test at least monthly. Should break circuit. Press Reset button to reconnect.



WARNING

The GFCI will not completely eliminate the risk of electrical shock. Infants and small children may still be affected.

ELECTRICAL GENERATOR – 120-VOLT

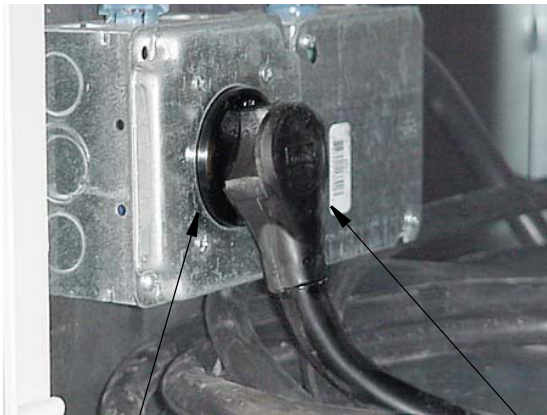
-If Equipped



WARNING

Careless handling of the generator and electrical components can be fatal. Never touch electrical leads or appliances when your hands are wet, or when standing in water or on wet ground. Do not attempt to repair the generator yourself. Service should be performed by a qualified service center.

To use the 120-volt generator, plug the power cord into the generator receptacle within the utility compartment before starting the generator.



Generator Receptacle

Power Cord

! WARNING

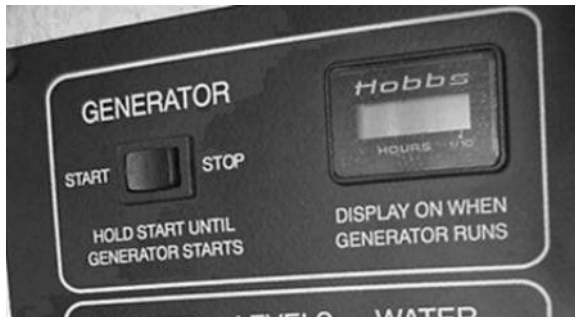
Do not plug the power cord into the generator receptacle while the generator is running. Electrical shock can cause personal injury.

Generator Operation

See the manufacturer's operation, care and maintenance in your InfoCase.

Generator Hourmeter

This meter is located on the monitor panel. It registers the total number of hours that the generator has been operated.



Refer to the hourmeter to determine when periodic maintenance is due and to record services which have been performed.

Operation Warnings and Cautions

! WARNING

The exhaust of all internal combustion engines contains carbon monoxide (CO). This poisonous gas is colorless, odorless, tasteless, and lighter than air. The exhaust systems of both your motor home engine and your generator engine have been installed with your safety in mind. However, certain precautions must be taken when using them to protect yourself from conditions beyond the control of the manufacturer.

1. Do not simultaneously operate the generator and a power vent, which could draw exhaust gases into the vehicle.
2. Do not open windows or vents on the end or side of the vehicle where exhaust pipe of the generator is located.
3. Park the vehicle so that the wind will carry the exhaust away from the vehicle. Also, note the position of other vehicles to be sure their exhaust will not enter your vehicle.
4. Do not operate the generator engine while parked if vegetation, snow, buildings, vehicles, or any other object can deflect the exhaust under or into the vehicle.

NOTE: Check auxiliary generator oil level frequently during periods of use.

Refer to the generator manufacturer's maintenance information in your InfoCase for specific recommendations.

ELECTRICAL SYSTEM – HOUSE 12-VOLT DC

The DC voltage system consists of the chassis battery, the 12-volt house batteries, and the 12-volt power converter.

Converter

See “Power Center.”

Chassis Battery

The chassis battery is used to operate the engine starter and automotive accessories and controls found on the instrument panel. The slideout room systems and the electric step are also connected to the chassis battery.

See your chassis manual for further information on chassis batteries and chassis electrical system.

House Batteries

House batteries are “deep-cycle” type batteries specially designed for recreational vehicle use. They will provide longer lasting power than standard automotive starting batteries and will withstand the frequent drain-and-recharge cycles that occur under the demanding conditions of a camping outing.

The house batteries supply power to 12-volt equipment located in the living area of the motor home. This includes the following 12-volt powered components (if equipped): interior 12-volt lighting, range exhaust fan, propane furnace fan, fresh water pump, systems monitor panel with water level and holding tank gauges, refrigerator, roof vent fans, and 120-volt electrical generator starter.

The house batteries can also provide emergency power to start the engine if the chassis battery is discharged. (See “Battery Boost Switch” or “Aux Start switch”).

House batteries are automatically charged by the chassis alternator while the engine is running.

**HOUSE/COACH BATTERY
DISCONNECT SWITCH
(COACH BATT)**

The House/Coach Battery Disconnect switch lets you disconnect the house batteries from the 12-volt system of your coach during storage periods to avoid battery drain by electrical items that are hooked directly to the house batteries, such as clock displays and radio memories, etc.

Always leave this switch ON while using the coach.

NOTE: Some electronic displays and memory functions may need to be reset after power has been reconnected.

See also “Battery Care” elsewhere in this section.



House/Coach Battery Disconnect Switch
(Located near entrance door or end of galley, depending on model)
-Typical View

BATTERY ACCESS

The house batteries are located in a front driver or passenger side compartment, depending on model. The batteries are mounted on an extendable slide tray for your convenience.

Accessing House Batteries

1. Open battery compartment door.
2. Lift UP on locking device to release slide tray.



3. Slide battery tray out.



4. To store batteries, push slide tray in until it “clicks” into locked position.

NOTE: Chassis batteries are located under front hood.

NOTICE

Always refasten battery retainers when returning a battery to the compartment.

BATTERY CARE

Lead-acid type batteries are electro-chemical devices for storing and releasing electrical charge. As such, they are simply an electrical reservoir, not an electrical source. As soon as

energy is removed from the battery, it should be replaced by the engine alternator or the coach converter system.

If a battery sits unused for 30 days or more, especially during warm weather, it can develop a deposit of sulfate crystals on the metal plates inside the battery. This condition is called “sulfating” and prevents the battery from either releasing or accepting a charge. If this condition occurs, the battery must be replaced.

If a battery does not contain at least 80% charge during freezing temperatures, the electrolyte can freeze and crack the battery case.

The two best defenses against sulfating and insufficient charge are to:

1. Turn off the House/Coach Battery Disconnect switch to avoid parasitic discharge (the trickle discharge caused by directly connected components like propane gas detectors or digital clock displays, etc.)
2. Check the battery and recharge as necessary at least once a month during long storage periods. Turn the House/Coach Battery Disconnect switch off to avoid electrical arcing when attaching or detaching charger clamps.

! WARNING

California Proposition 65 Warning: Battery posts, terminals, and related accessories contain lead and lead compounds, chemicals known to the state of California to cause cancer and reproductive harm. Wash hands after handling.

NOTE: We do not recommend leaving the shoreline plugged in continuously during storage periods because the batteries can lose electrolytic fluids and become damaged from continuous charging without periodic use or maintenance.

We recommend following regular battery inspection and maintenance, especially in cold weather.

Further precautions are:

- Remove the battery from the coach.
- Store it in a cool place.
- Check the state of charge periodically to avoid discharge or sulfating.

To ensure that the battery will always accept and hold a charge, follow these simple maintenance practices:

- Make sure the batteries always remain securely clamped in the battery tray.
- Make sure battery cable clamps are tight on the terminal posts and are free of corrosion.
- Neutralize corrosion buildup or acid film on top of battery by washing with a baking soda/water solution. Rinse with clear water.

NOTE: Make sure vent caps are on securely to prevent baking soda solution from entering the battery and contaminating the electrolyte fluid.

 **WARNING**

Before removing any battery cables or battery, make sure all 12-volt equipment in the motor home is off and the power cord has been disconnected. Be sure to replace the battery terminal boot, if supplied, back onto the positive terminal after servicing. Care must be taken to avoid pinching the cable between any metal parts. Should the cable be damaged, a short circuit could result in personal injury or damage to equipment. Replace any damaged cables at once. Always remove jewelry and wear protective clothing and eye covering when checking or handling batteries.

- Clean and tighten battery terminals and have the specific gravity checked at least once a year.

- Check the battery fluid level every month, or more often in hot weather. Fill to approximately 3/8 inch above the plates. **DO NOT OVERFILL.** If fluid is added during freezing weather, the motor home should be driven several miles to mix water and electrolyte to prevent freezing.
- Fluid level check may be omitted if equipped with maintenance-free batteries.

 **WARNING**

To prevent wiring damage, it is essential when replacing the cables on the battery, or when using a “booster” battery, that the positive post and the positive cable be attached and the negative post and negative cable be attached. The posts are marked (+) plus and (-) minus. If a “boost charger” is used while battery is in the motor home, disconnect both battery cables before connecting the charger to avoid damage to engine electronic components. Never attempt to charge or boost a frozen battery. An explosion can occur resulting in personal injury.

Chassis Battery

If your coach is going to be unoccupied for two weeks or more, Winnebago Industries® recommends disconnecting the chassis battery in your coach to avoid battery discharge.

Disconnect the ground cable on the chassis battery (located under front hood) to disconnect battery.

CIRCUIT BREAKERS AND FUSES – HOUSE 12-VOLT DC

All 12-volt circuits and equipment in the coach area of the motor home are protected by either a fuse panel or breaker panel. When a circuit is overloaded or a short develops in any part of the system, a fuse or breaker will shut down that circuit. If this happens, turn off all

affected lights or appliances and reset the breaker or replace the fuse with a new one of equal amperage rating.

Circuit Breaker Panel

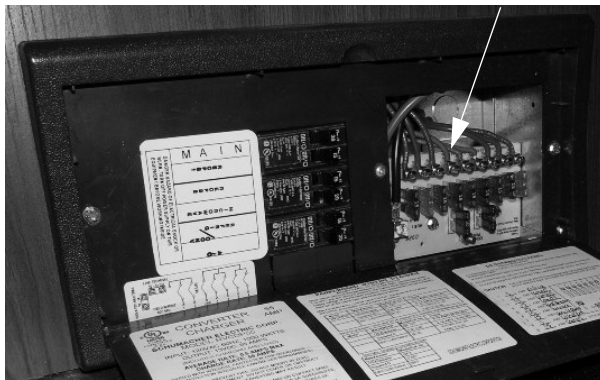


Chassis and House 12V Breakers
(Located in passenger side compartment)
-Typical View
* Shown with cover removed

A label on the panel states the amperage rating and circuit protected for each fuse or breaker.

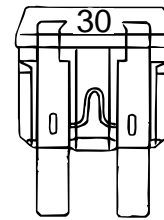
12-Volt Fuse Panel

12-Volt House Fuses

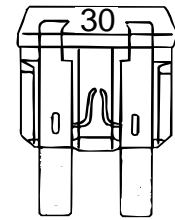


12V Fuse Panel
(Located on the right-hand side
of the power converter)
-Typical View

The fuse panel accepts only blade type plug-in fuses. Always replace fuses with those of the same amperage rating.



Functional



Non-Functional

Battery Charge Meter

See related item under “Systems Monitor Panel” in *Section 4 - Appliances*.

Battery Boost Switch

See *Section 3 - Driving Your Motor Home* for information on the Battery Boost switch.

SECTION 7 – PLUMBING

FRESH WATER SYSTEM

The fresh water system provides water to the galley sink, shower, bathroom lavatory, toilet and water heater. Water may be supplied by either of two sources:

- a fresh water tank and water pump located within the motor home, or
- any external fresh water source to which the motor home may be connected, known as “city water”.

Water Pressure Regulators

Because city water pressure varies from location to location, we recommend obtaining an in-line water pressure regulator to prevent damage to any components, connections, and seals in your fresh water system.

These devices simply connect in-line between the supply hose and the city water input on the coach. We recommend regulators that control water pressure to **50 psi. max.**

Water pressure regulators are commonly available at most RV dealerships and many large retail discount or home supply centers.

Filling the Fresh Water Tank

Always fill the fresh water tank at an approved potable water filling facility or a known purified drinking water source.

The gravity tank fill tube is located behind a small, lockable door on the left (driver) sidewall toward the back of the coach.

NOTE: Always leave gravity fill door OPEN while filling tank.



Insert hose into fill opening and turn water supply on. Tank is full when water flows from tank vent tube beneath coach.

Using City Water

When connected to an outside source of water, the water bypasses the water pump and storage tank and supplies pressure directly to individual faucets and toilet. A check valve built into the water pump prevents water from entering the pump and filling the storage tank.

Connecting City Water Source:

1. Turn the Water Pump switch OFF.
2. Attach an RV city water hose from the external water source to the city water connection (typically located in the water service center or on the left sidewall of your vehicle).



3. Turn on the external water source.

NOTE: Always keep the tank fill valve in Normal position unless you are filling the tank. If this valve is left in the Tank Fill position while using the city water, water will keep flowing into the tank and out the tank vent tube onto the ground and the water pump will run without delivering water to faucets.

Disconnecting from City Water

1. Turn the city water source OFF.
2. Open a faucet on the coach (such as the exterior wash station, if equipped) to relieve line pressure.
3. Disconnect the city water hose from the coach and replace the cap on the fresh water inlet.

WATER PUMP

When your coach is not connected to a city water supply, water is supplied from the fresh water tank by a water system demand pump. A demand pump is designed to run only when you are using water. When you open a faucet, the waterline pressure drops and the pump begins to run, and it will continue to run as long as the faucet is open. When you close the faucet, the line pressure backs up to the pump, and it shuts itself off.

The pump is self-priming and will run briefly to build up line pressure when the Water Pump Switch is first turned on. See “Initial Waterline Priming” for instructions on using the water system for the first time.

Pump Strainer

The pump is equipped with a cleanable strainer to capture any possible tank-borne particles that could damage pump components.

NOTE: We recommend that you check and clean the strainer after each tankful of water during the first few uses of the water pump system. Thereafter, remember to check it at least yearly, and be sure to empty water from it during winterization procedures.



Water Pump Strainer
-Typical View

To Clean Pump Strainer

- Be sure all water pump switches are OFF.
- Twist the inlet cap (bowl) counter-clockwise to unscrew from the strainer assembly.
- Remove the bowl and pull the strainer screen out of the bowl to tap out any particles and rinse clean.
- Insert the strainer screen back into the bowl, then screw the bowl back onto the strainer assembly.

NOTE: You must also empty the strainer when winterizing your coach to avoid water freezing and cracking the filter bowl.

Water Pump Switch

The water pump switch is located near the systems monitor panel. (Some models may have an additional switch within the bathroom area or exterior shower for your convenience).

While the switch is ON, the pump will automatically supply water as it is needed.

We recommend that you turn the water pump switch off whenever you will be away from the vehicle or not using the water system. In time, a slow leak in a faucet could drain the water tank, fill the holding tank, and discharge the house batteries.

Initial Waterline Priming

1. Make sure that all water drain valves are closed, including water heater valve.

2. Turn water pump switch to “OFF” position.
3. Fill water tank.
4. Open all faucets, hot and cold.
5. Turn on water pump switch.
6. Close each faucet as it begins to deliver a steady stream of water (close cold water first). Leave hot water faucets on until they also deliver a steady stream of water. This will ensure that the water heater is filled with water.
7. Check to be sure pump stops soon after all faucets have been closed.
8. Pump is now ready for automatic operation. Pump will start when a faucet is opened and stop when the faucet is closed.

Further Information

See the water pump manufacturer’s operation, care, and maintenance information in your InfoCase.



Water Pump
(Located beneath bed -
lift mattress to expose access hole)
-Typical View


DISINFECTING YOUR FRESH WATER SYSTEM

To ensure complete disinfection of the potable water system, it is recommended that the following procedure be followed on a new system, one that has not been used for a period of time, or one that could have become contaminated.

This procedure is also recommended before long periods of storage such as over winter.

1. Prepare a chlorine solution using 1 gallon of water and 1/4 cup of household chlorine bleach (sodium hypochlorite solution). With tank empty, pour chlorine solution into the tank. Use 1 gallon solution for each 15 gallons of tank capacity. This procedure will result in a residual chlorine concentration of 50 ppm in the water system.

If a 100 ppm concentration is desired as discussed in step 4, use 1/2 cup of household bleach with 1 gallon of water to prepare the chlorine solution. One gallon of this solution should be used for each 15 gallons of tank capacity.

	<p>WARNING</p>
<p>Chlorine is poisonous. Do not misuse. Recap bottle and clean all utensils after use.</p>	

2. Complete filling of tank with fresh water.
3. Open each faucet in the coach and run the water until a distinct odor of chlorine can be detected in the water discharged. Do not forget the hot water faucets.
4. Let the system stand at least 4 hours when disinfecting with 50 ppm residual chlorine. *(If a shorter time period is desired, then a 100 ppm chlorine concentration should be allowed to stand in the system for at least 1 hour.)*
5. Drain the water tank and refill with fresh water.
6. Open each faucet again and run fresh water to flush chlorinated water from the lines. Run the water until there is no odor of chlorine detected in the water discharged. Do not forget the hot water faucets. *(You may need to leave a hot water faucet open for some time to flush the water heater with clean water. You may also want to turn*

the water heater off until this is done to avoid wasting energy trying to heat “unused” water).

7. Water system is now disinfected.

Continuous Tank Disinfection (Superchlorination)

Some RVers like to ensure continuous sanitation of their fresh water tank by “superchlorination”– maintaining an effective low level of chlorine in the tank at all times.

- Add 1 teaspoon of household chlorine bleach (sodium hypochlorite) to your tank for each 10 gallons of tank capacity. When you fill the tank, this will result in a 6.7 ppm level of chlorine, which should kill harmful bacteria and slime-forming organisms.
- Chlorine may be removed from drinking water by the cold water filter at the galley faucet (if equipped) or by installing an activated carbon water purifier at the galley sink cold water line or a separate drinking water faucet with filter.
- Superchlorination does not affect city water usage, only the fresh water tank.

SHOWER HOSE VACUUM BREAKER

After using the shower, you may notice water dripping from the shower faucet assembly. The dripping results when vacuum in the shower hose (after closing the shower faucet) slowly releases and allows water remaining in the hose to drain down. This is a normal function of the shower valve assembly and is not a leak or defect.

If items are placed into the shower tub before shower valve vacuum release is complete, they may become wet.

EXTERIOR SHOWER/WASH STATION

–If Equipped

The exterior wash station feature allows you to do things such as rinse off sand or salt after a swim, rinse off muddy boots, or bathe your pet

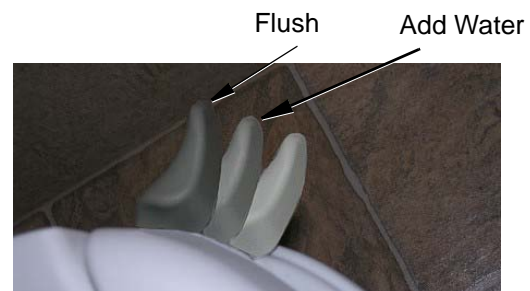
outside the coach. Some models may have a water pump switch located near the shower faucet for convenience.



Exterior Shower/Wash Station
-Typical View

TOILET

The toilet in your motor home is very similar to the household type, except that it is designed to use only a small amount of water per flush. It uses a high velocity jet of water, producing a swirl effect, to efficiently cleanse the bowl.



Important “Don’ts”

- Don't use facial tissue or regular toilet tissue in the RV toilet. These will not disintegrate sufficiently and will often cling to the sides of the holding tank. Toilet tissue made specifically for use in RV toilets and holding tanks is available at most RV supply centers.
- Don't dispose of sanitary napkins or other non-dissolving items in the toilet.

- Don't put automotive antifreeze or caustic chemicals, such as laundry bleach or heavy detergents into the toilet or holding tank. These products may damage plastic or rubber parts in the system.

Further Information

See the toilet manufacturer's operation information in your InfoCase for complete operating, care and maintenance information.

See winterizing instructions at the end of this section to prepare the toilet for storage in freezing conditions.

DRAINAGE SYSTEM (P-TRAPS)

Ensure there is an adequate amount of water in the drainage system p-traps to avoid sewer odor from entering your coach.

If you should experience a sewer odor, pour approximately 1 cup of water down each sink and shower drain in the coach.

WASTE WATER SYSTEM (Holding Tanks)

The drainage system is self-contained and uses two separate holding tanks to contain the waste water until it can be dumped at an appropriate waste water disposal site. This means you can use the toilet, sinks, and shower even in areas where utility hookups are not available.

The black water holding tank contains the sewage from the toilet and may include bathroom lavatory on some models. The gray water holding tank contains the waste water from the galley sink and shower, and may include bathroom lavatory.

See "Specifications" in *Section 1 - Introduction* for tank capacities for your model.

Dumping Holding Tanks

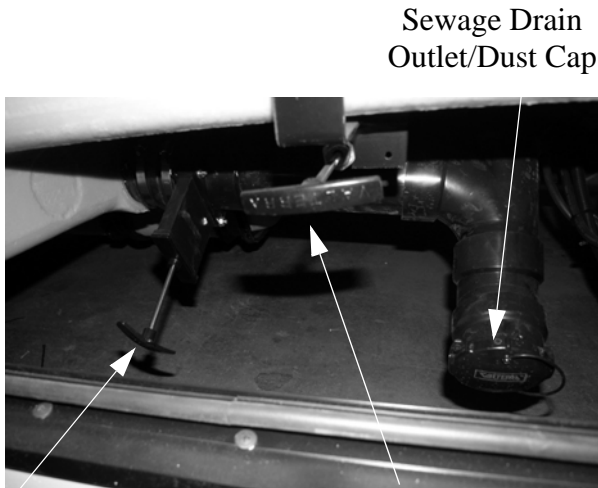


Holding Tank Dump Valves
(Located in mid-driver side
access compartment)
-Typical View

1. Remove sewage drain hose from rear bumper storage.
2. Remove dust cap from sewage drain outlet and connect sewer hose. Be sure it is firmly attached.

NOTE: The sewage drain outlet on your coach may swivel downward (depending on model) when necessary to avoid bends in the sewage drain hose, which could trap solids while dumping or to provide more direct drainage while using on-site sewer hook-ups.

3. Place the outlet end of sewage drain hose into disposal opening.



1st - Pull Black Waste Tank Drain valve to drain black water (sewage) tank - then close.

2nd - Pull Gray Waste Tank Drain valve to drain gray water (sink/shower) tank - then close.

NOTE: Black and Gray tank valve positions may be reversed depending on floorplan and tank location.

4. Open the Black Waste Tank Drain valve with a quick pull and make sure there are no sags in the hose. Move the hose gently about to dislodge any waste and ensure complete drainage. Close Black Waste Tank Drain valve as soon as tank is empty.

NOTE: DO NOT OPEN BOTH VALVES AT ONCE. Do not open the Gray Waste Tank Drain valve until the black tank is drained and Black Waste Tank Drain valve is closed to avoid sewage back-up into gray tank. Gray water also rinses any black water solids from the sewage drain hose.

5. Open the Gray Waste Tank Drain valve. Be sure there are no sags in the hose to ensure complete drainage. Close Gray Waste Tank Drain valve as soon as tank is empty.
6. Add an odor control chemical to the sewage holding tank through the toilet. These chemicals are available at most RV stores.

7. Rinse sewage drain hose thoroughly with water and stow.

NOTE: We recommend that you dump all holding tanks before traveling to avoid carrying unnecessary weight.

Using On-Site Sewer Hook-Ups

The sewage drain hose may remain attached to the dump outlet and be routed out the bottom of the compartment while the motor home is parked and connected to an on-site sewage hook-up.

NOTE: Always keep service access passage closed while utility connection is not in use.

When using a sewer hook-up, keep the dump valves closed until a tank becomes full or when preparing to leave the site. This keeps the solids in suspension, allowing them to be carried out with the liquids when the dump valve is opened. If the valve is left open, the liquids will drain off, leaving solids in the tank. Should this accidentally happen, disconnect the hose, fill the tank about half full with water, and drive a few miles to dislodge the solids. A few starts and stops will aid in the process. Then reconnect the hose and drain in the normal manner.

Holding Tank Level Indicators

See “Systems Monitor Panel” in *Section 4 - Appliances* for further information on the monitor panel and checking tank levels.

See “Specifications” in *Section 1 - Introduction* for tank capacities for your model.

WASTE WATER SYSTEM - WASTE PUMP

(Holding Tanks)

(For coaches equipped with Waste Pump feature only - Model 26Q)

The drainage system is self-contained and uses two separate holding tanks to contain the waste water until it can be dumped at an appropriate waste water disposal site. This means you can use the toilet, sinks, and shower even in areas where utility hookups are not available.

The black water holding tank contains the sewage from the toilet and may include the bathroom lavatory on some models. The gray water holding tank contains the waste water from the galley sink, shower, and may include bathroom lavatory.

See “Specifications” in *Section 1–Introduction* for tank capacities for your model.

Waste Pump

The 12-volt Waste Pump disposes gray holding tank waste through a small diameter sewer hose, which is then drained through the main sewage drain outlet.



Waste Pump
(Located on driver side of coach behind rear wheel)
-Typical View

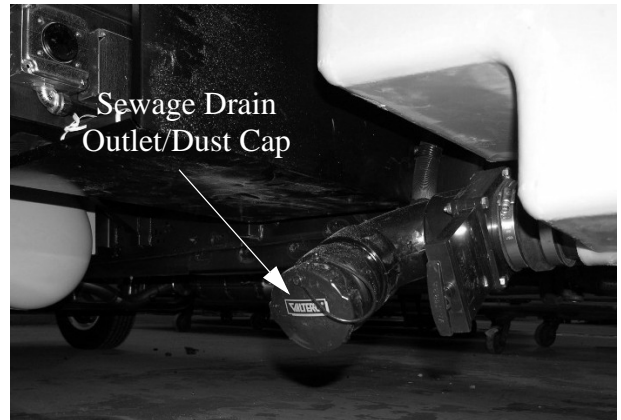
NOTE: If Waste Pump stalls, check breaker in the load center. If problem persists, remove end cap and manually turn pump shaft (located on the end of the Waste Pump) with a screwdriver.

Further Information

For further information and operating cautions, see the Waste Pump operating instructions included in your InfoCase.

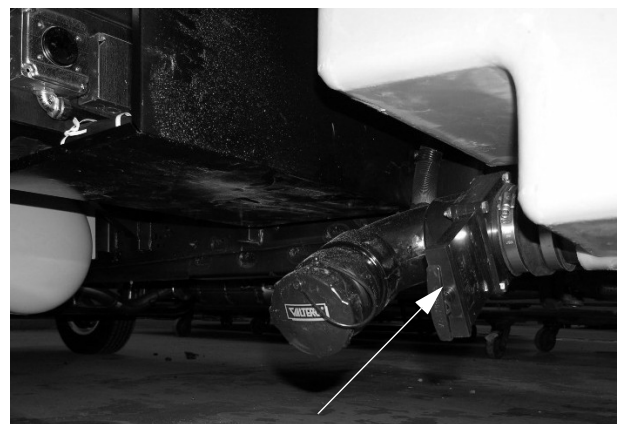
Dumping Holding Tanks

1. Remove sewage drain hose from rear bumper storage.
2. Remove dust cap from sewage drain outlet and connect sewage drain hose. Be sure it is firmly attached.



Sewage Drain Outlet
(Located beneath coach on mid-driver side)
-Typical View

3. Place the outlet end of sewage drain hose into disposal opening.
4. Open the Black Waste Tank Drain valve with a quick pull and make sure there are no sags in the hose. Move the hose gently about to dislodge any waste and ensure complete drainage. Close Black Waste Tank Drain valve as soon as tank is empty.



Black Waste Tank Drain Valve
(Located beneath coach on mid-driver side)
-Typical View

NOTE: DO NOT OPEN BOTH VALVES AT ONCE. Do not open the Gray Waste Tank Drain valve until the black tank is drained and dump valve closed to avoid sewage back-up into gray tank. Gray water also rinses any black water solids from the sewage drain hose.

5. Open the Gray Waste Tank Drain valve (located beneath driver side of coach ahead of rear wheel) and press and hold the Waste Pump switch (located near the exterior shower.) Release the Waste Pump switch and close the Gray Waste Tank Drain valve as soon as the gray tank is empty.

NOTE: Sound of Waste Pump will change significantly when tank is empty.



Gray Waste Tank Drain Valve
(Located beneath driver side of coach ahead of rear wheel)
-Typical View



Waste Pump Switch
(Located near exterior shower)
-Typical View

6. Add an odor control chemical to the sewage holding tank through the toilet. These chemicals are available at most RV stores.
7. Rinse sewage drain hose thoroughly with water and stow.

NOTE: We recommend that you dump all holding tanks before traveling to avoid carrying unnecessary weight.

Using On-Site Sewer Hook-Ups

The sewage drain hose may remain attached to the sewage drain outlet while the motor home is parked and connected to an on-site sewage hook-up.

When using a sewer hook-up, keep the dump valves closed until a tank becomes full or when preparing to leave the site. This keeps the solids in suspension, allowing them to be carried out with the liquids when the dump valve is opened. If the valve is left open, the liquids will drain off, leaving solids in the tank. Should this accidentally happen, disconnect the hose, fill the tank about half full with water, and drive a few miles to dislodge the solids. A few starts and stops will aid in the process. Then reconnect the sewage drain hose and drain in the normal manner.

NOTE: Always keep sewage drain outlet capped while sewage connection is not in use.

Holding Tank Level Indicators

See “Systems Monitor Panel” in *Section 4–Appliances* for further information on the monitor panel and checking tank levels.

See “Specifications” in *Section 1–Introduction* for tank capacities for your model.

HOLDING TANK HEATER

–If Equipped

Your coach may be equipped with black water and gray water holding tank heaters to allow use of waste utilities in freezing temperatures. The holding tank heater power switch is located near the monitor panel. The illuminated switch will glow when the power is on.



Holding Tank Heater Switch
(Located near monitor panel)
-Typical View

DO NOT operate the holding tank heater unless you are providing a supplemental 12-volt power source to recharge the house batteries. This means either the shoreline cord must be plugged into a 120-volt source, the auxiliary generator must be operating, or the chassis engine must be running (such as when driving down the road). This will prevent excessive discharge of the house battery.

NOTE: The holding tank heater pads are electrical resistant-type heating elements. This type of heating element typically uses a large amount of current while operating. If the tank heaters are used without a recharging source, they will drain the house batteries in a relatively short period. Typically, the

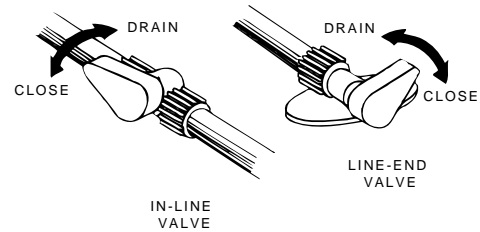
batteries would not support overnight heating without a supplemental charging source.

WATERLINE & TANK DRAIN VALVES

The water drain valves are used to drain water from the water tank and the water supply lines when preparing the motor home for storage or when sanitizing the water system.

To open or close the drain valves, turn the handles in the directions indicated by the following illustration.

See the drain valve location chart at the end of this section for locations on your model.



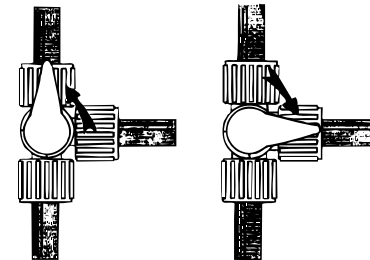
Waterline Drain Valves
(Typical)



Waterline Drain Valve (Typical)



Water Tank Drain Valve (Typical)



Normal
Flow

By-Pass
Mode

Leave Water Heater Bypass valve handle in NORMAL FLOW position if draining water and blowing out waterlines. Place in BYPASS position ONLY when using antifreeze solution in waterlines.

WINTERIZING PROCEDURE

You can winterize the water and plumbing system of your coach using one of the following two methods – 1) Blow out waterlines using compressed air or – 2) Fill waterlines with RV water system antifreeze.

Method 1 – Blow Out Procedure (Drain and purge waterlines using compressed air)

1. **Level the Motor Home.** If the coach is not level, there may be “low points” in waterlines that can trap water in the lines and prevent it from draining properly.
2. **Drain Fresh Water Tank and Waterlines.** Open all waterline drain valves and drain fresh water tank. (See “Water System Drain Valve Locations” chart at end of this section for locations of drain valves on your model).
3. **Drain Exterior Shower/Wash Station (if equipped).** Open exterior shower knobs and lay shower head on ground as shown to drain any water left in the shower line. Also place the tip of your finger into the city water inlet and gently press the backflow valve button in the center of the inlet to drain any water trapped in the inlet line.

WATER HEATER BYPASS VALVE

Your coach may be equipped with a Water Heater Bypass valve for easier winterization of waterlines using RV antifreeze. See “Water System Drain Valve Locations Chart” at the end of this section for location on your model.

Turn the handle as shown to either “bypass” or “flow” through the water heater.



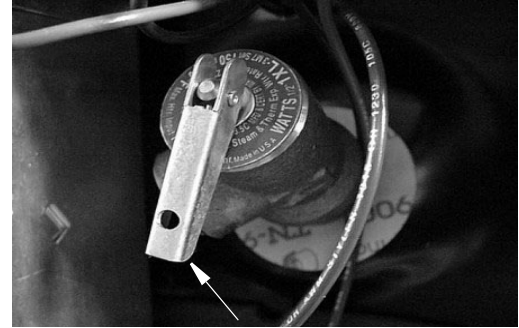
Using exterior shower to drain
waterline (if equipped)
-Typical View

4. **Open Faucets.** Turn on the water pump and open all sink faucets and shower head knobs. Leave open after water stops flowing.
5. **Drain Toilet.** Press the toilet flush pedal and hold until water stops flowing in the toilet. Then turn water pump switch off.
6. **Drain Water Heater.** Turn off the water heater power switch before draining the water heater tank to avoid damage to the heating element. Drain the water heater by removing the plug from the base of the water heater tank, accessible from the outside of the coach. (Requires socket and ratchet).



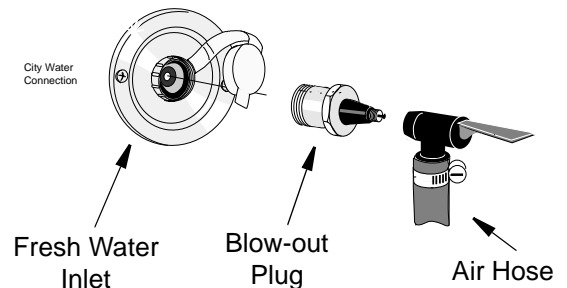
Water Heater Drain Plug
(Remove with socket)

Also open the Pressure-Temperature Relief Valve at the top right portion of the tank to prevent air locking in the tank while draining.



Pressure-Temperature
Relief Valve
(Lift handle only when water heater is cold)

7. **Connect Air Pressure.** After water has stopped draining at all faucets and drain valves, leave faucets open and connect a “blow-out” plug to the city water connection on the coach. Then use a compressed air hose regulated to 30 psi or less to force air through the system. A “blow-out” plug can be purchased at any Winnebago® or Itasca® dealer.



NOTICE

Limit air pressure to 30 psi to avoid damage to equipment.

NOTE: DO NOT burst air into the system. This can damage the water pump. It is better to let air in slowly.

8. **Let air flow for five minutes** until water is completely drained out of faucets and drain valves. Then close faucets one at a time.

9. **Drain Toilet.** Operate and hold toilet flush lever until water is completely drained from toilet.
10. **Turn air pressure off.** Disconnect water purge adapters. Recap the city water inlet to avoid contamination by dirt or insects.

After Disconnecting Air Pressure

11. Close all waterline drains, tank drain valves, and all faucets to avoid contamination by dirt, insects, or rodents.
12. Reinstall the Water Heater drain plug and close the P-T Relief Valve.
13. Pour about one cup of non-toxic RV antifreeze down the galley sink drain(s), bathroom lavatory sink drain, and shower drain. This fills the drain traps to prevent holding tank odors from entering the coach during storage.

NOTE: It is not necessary to add antifreeze to the toilet since the flush valve will be closed.

Do not add automotive antifreeze or caustic chemicals such as bleach or laundry detergents into the toilet bowl or holding tanks. Although these products may have a deodorizing effect, they may damage plastic and rubber parts in the system.

14. Empty the water pump strainer filter bowl to avoid water freezing and cracking the filter bowl. See “Water Pump” previously in this section.

Dump and Clean Holding Tanks

15. Completely drain the sewage and waste water holding tanks at an approved waste disposal site. Drain the sewage tank first so the following waste water can rinse any waste solids from the sewage drain outlet and sewer hose.
16. Close dump valves and refit the dust cap onto the sewage drain outlet.
This will inhibit rust formation on valve shafts and prevent entry and contamination by airborne debris, insects, and rodents.

Your drainage and fresh water systems are now totally winterized.

See instructions for removal from storage in Section 11 - Maintenance and Storage.

Method 2 – Antifreeze Fill Procedure

(Fill plumbing lines with RV water system antifreeze)

NOTE: As an alternative to totally draining the waterlines, you may winterize tanks and lines by filling them with non-toxic RV water system antifreeze through the plumbing system.


This product is available from your dealer and from most RV supply stores and national retail outlets.

Follow directions on the container to determine the correct amount to use for your coach.

Your coach is equipped with a manually operated waterline winterization system for your convenience in winterizing fresh waterlines.

The system features a diverter valve with suction tube to draw non-toxic RV water system antifreeze into the waterlines. There is also a water heater bypass valve to avoid filling the water heater with antifreeze. This feature is located near the water pump in the water center or utility compartment.

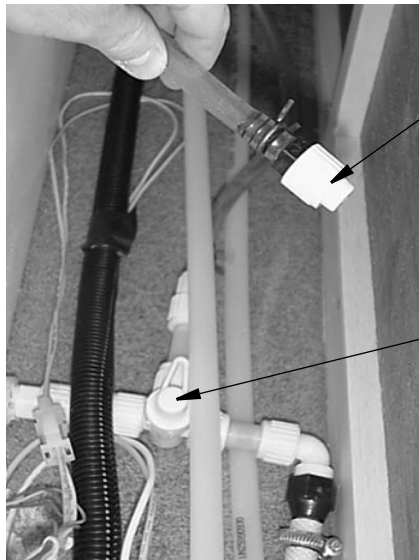
Leave bypass valve handle in NORMAL FLOW position if draining water and blowing out waterlines. Place in BYPASS position ONLY when using antifreeze solution in waterlines.

 WARNING
NEVER use automotive antifreeze/coolant in your RV water system. Auto antifreeze contains ethylene glycol which, if ingested, can cause blindness and can be fatal.

Set Up Winterization Valves

1. Turn water heater bypass valve to **BYPASS** position. (See “Water System Drain Valve Locations” chart at end of this section for location of bypass valve on your model).
2. Remove and save the protective cap from the end of the antifreeze siphon tube (save cap to cover tube after use). Insert the end of the tube into a pail or other container with 2 to 3 gallons of non-toxic RV antifreeze solution.

3.



Siphon Tube
 • (insert into container of RV water system antifreeze)

Winterization Valve
 • (point toward siphon tube for winterizing)

RV Antifreeze Siphon Tube and Winterization Valve
 -Typical View

(See Drain Valve Location chart at end of this section for valve locations on your model)

4. Turn the Winterization Valve handle so that it points toward the siphon tube. (See “Water System Drain Valve Locations” chart at end of this section for location of winterization valve on your model).

Fill Lines

5. Turn the water pump switch **ON**.
6. Open each hot and cold water faucet handle/knob in the coach – one at a time each in turn until antifreeze solution just begins to flow from the faucet, then close.
 Do not forget exterior shower/wash station knobs (if equipped).

7. Press the toilet flush pedal and hold until antifreeze begins flowing into the toilet. Leave small amount of antifreeze that remains in the bowl.

When Done Adding RV Antifreeze

8. Turn water pump switch **OFF**.
9. Turn the Winterization Valve handle so it points toward the waterline to the pump. This will stop the flow from the antifreeze siphon tube and revert the tank line flow to the pump.
10. Replace the protective cap onto the end of the antifreeze siphon tube to keep out insects or debris when not in use.

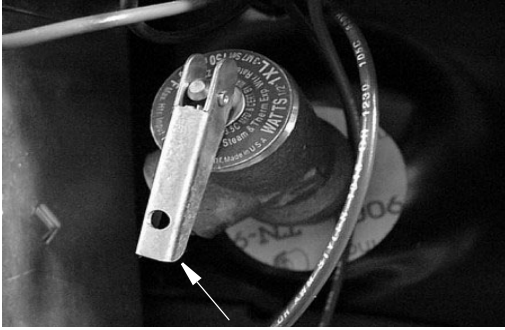
Drain Water Heater

11. Turn off the water heater power switch before draining the water heater tank to avoid damage to the heating element.
 - Drain the water heater by removing the plug from the base of the water heater tank, accessible from the outside of the coach. (Requires socket and ratchet).



Water Heater Drain Plug
 (Remove with socket)

- Also open the Pressure-Temperature Relief Valve at the top right portion of the tank to prevent air locking in the tank while draining.



Pressure-Temperature Relief Valve
(Lift handle only when water heater is cold)

- Reinstall the water heater drain plug and close the P-T Relief Valve when drained.

Close All Drain Valves

12. Close all waterline drains and tank drain valves to avoid contamination by dirt, insects, or rodents.
13. Pour about one cup of RV antifreeze down each drain for the galley sink, lavatory sink, and shower/tub. This fills the drain trap pipes to prevent holding tank odors from entering the coach during storage.

Dump and Clean Holding Tanks

14. Completely drain the sewage and waste water holding tanks at an approved waste disposal site. Drain the sewage tank first so the following waste water can rinse any waste solids from the sewage drain outlet and sewer hose.
15. Close dump valves and refit the dust cap onto the sewage drain outlet.
This will inhibit rust formation on valve shafts and prevent entry and contamination by airborne debris, insects, and rodents.

To Winterize the Waste Pump

-If Equipped

- Ensure that black and gray holding tanks are completely empty.
- Remove Waste Pump Drain (located on driver side of coach ahead of rear wheel) to drain any gray water trapped in the drain line. Remove with socket/wrench.



Waste Pump Drain
(Located on driver side of coach ahead of rear wheel)
* Model 26Q only

- Pour about one cup of RV antifreeze down the toilet and either the bathroom or kitchen sink.
- Press and Hold the Waste Pump switch for approximately 5-10 seconds to get antifreeze into the pump.

Your drainage and fresh water systems are now completely winterized.

See instructions for removal from storage in *Section 11 - Maintenance and Storage.*

WATER SYSTEM DRAIN VALVE LOCATIONS		
MODEL	SYSTEM	DRAIN VALVE LOCATIONS
24V	Waterlines	<ul style="list-style-type: none"> Two (2) valves beneath shower. Access through removable panel on lower front of shower cabinet. Two (2) valves beneath the bed. Lift mattress to expose access hole. <p><i>Also, place the tip of your finger inside the city water connection and gently press the backflow valve (small “button” in center of connector) to drain any water left in the city waterline.</i></p>
	Water Tank	<ul style="list-style-type: none"> One (1) valve beneath the bed. Lift mattress to expose access hole.
	Water Heater	<ul style="list-style-type: none"> Drain plug on outside of coach behind service door. Use socket to remove drain plug.
	Water Heater Bypass Valve	<ul style="list-style-type: none"> Beneath bed. Lift mattress to expose access hole.
	Winterization (Antifreeze) Valve	<ul style="list-style-type: none"> Beneath bed. Lift mattress to expose access hole.
26Q	Waterlines	<ul style="list-style-type: none"> Two (2) valves in galley. Remove bottom drawer under stove. <p><i>Also, place the tip of your finger inside the city water connection and gently press the backflow valve (small “button” in center of connector) to drain any water left in the city waterline.</i></p>
	Water Tank	<ul style="list-style-type: none"> One (1) valve beneath the bed. Lift mattress to expose access hole.
	Water Heater	<ul style="list-style-type: none"> Drain plug on outside of coach behind service door. Use socket to remove drain plug.
	Water Heater Bypass Valve	<ul style="list-style-type: none"> Beneath galley sink. Open doors and remove panel to access.
	Winterization (Antifreeze) Valve	<ul style="list-style-type: none"> Beneath the bed. Lift mattress to expose access hole.

31C	Waterlines	<ul style="list-style-type: none"> Three (3) valves under galley sink. Remove bottom drawer to access. <i>Also, place the tip of your finger inside the city water connection and gently press the backflow valve (small “button” in center of connector) to drain any water left in the city waterline.</i>
	Water Tank	<ul style="list-style-type: none"> One (1) valve beneath the bed. Lift mattress to expose access hole.
	Water Heater	<ul style="list-style-type: none"> Drain plug on outside of coach behind service door. Use socket to remove drain plug.
	Water Heater Bypass Valve	<ul style="list-style-type: none"> Under galley sink. Remove bottom drawer to access.
	Winterization (Antifreeze) Valve	<ul style="list-style-type: none"> Beneath the bed. Lift mattress to expose access hole.
31J	Waterlines	<ul style="list-style-type: none"> Two (2) valves beneath lavatory sink. Access through removable panel. <i>Also, place the tip of your finger inside the city water connection and gently press the backflow valve (small “button” in center of connector) to drain any water left in the city waterline.</i>
	Water Tank	<ul style="list-style-type: none"> One (1) valve beneath the bed. Lift mattress to expose access hole.
	Water Heater	<ul style="list-style-type: none"> Drain plug on outside of coach behind service door. Use socket to remove drain plug.
	Water Heater Bypass Valve	<ul style="list-style-type: none"> Beneath galley sink. Remove panel to access.
	Winterization (Antifreeze) Valve	<ul style="list-style-type: none"> Beneath the bed. Lift mattress to expose access hole.

31R	Waterlines	<ul style="list-style-type: none"> Two (2) valves beneath the bed. Lift mattress to expose access hole. <i>Also, place the tip of your finger inside the city water connection and gently press the backflow valve (small “button” in center of connector) to drain any water left in the city waterline.</i>
	Water Tank	<ul style="list-style-type: none"> One (1) valve beneath the bed. Lift mattress to expose access hole.
	Water Heater	<ul style="list-style-type: none"> Drain plug on outside of coach behind service door. Use socket to remove drain plug.
	Water Heater Bypass Valve	<ul style="list-style-type: none"> One (1) valve under galley sink behind removable panel.
	Winterization (Antifreeze) Valve	<ul style="list-style-type: none"> Beneath bed. Lift mattress to expose access hole.

SECTION 8 – ENTERTAINMENT

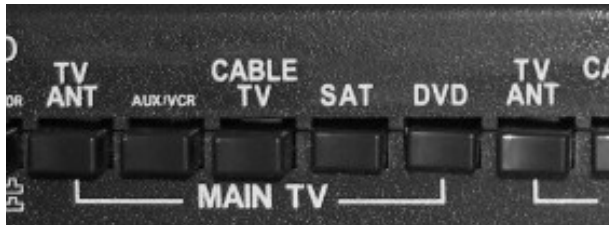
VIDEO SELECTION SYSTEM

-If Equipped



The Video Selection System allows you to switch the antenna, AUX/VCR, cable TV, satellite TV, or DVD signal to any TV set location in the coach.

This means one person can watch a program coming in on the roof antenna on the bedroom TV while another person watches a satellite or cable TV program or video on the front TV.



To Watch Broadcast TV (Antenna)

- Press TV ANT button on MAIN TV section of Video Selection System panel.

To Watch Cable TV

- Press CABLE TV button on MAIN TV section of Video Selection System panel.

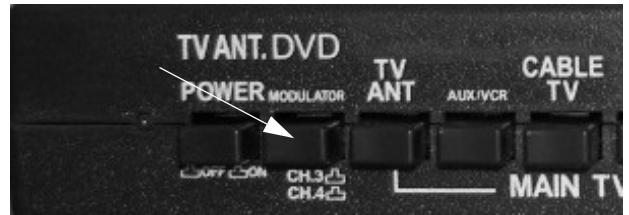
To Watch Satellite TV (Dish)

-If Equipped

- Press SAT button on MAIN TV section of Video Selection System panel.

To Watch DVD

- To watch a DVD on your main TV, change the TV to either Channel 3 or 4 by pressing the button with “Modulator” marked above the switch and “Ch. 3/Ch. 4” marked below the switch. If the switch is pressed IN, you tune to channel 4. If the switch is not pressed in, you tune to Channel 3.



- The Video Selection System allows you to watch DVD's from either the lounge area (main TV), bedroom, or the exterior entertainment center (if equipped.) Press the button with “DVD” marked above the switch and “Main TV” marked below the switch. To watch a DVD on other TV's, press the button “DVD” marked above the switch in the corresponding section of the unit.

To Watch VCR (if self-installed)

- Press VCR button on MAIN TV section of Video Selection System panel.

To Watch Rear/Bedroom TV (if equipped)

- Video selection for the rear TV is similar to front TV viewing except all selections are made with buttons in the TV2 grouping.

VCR Group Buttons

- The buttons in the VCR group are for selecting the signal input to a self-installed VCR for taping programs.
- If you wish to record a program from cable TV, press the CABLE button. If the program is on the dish, press SAT, and so forth.

Further Information

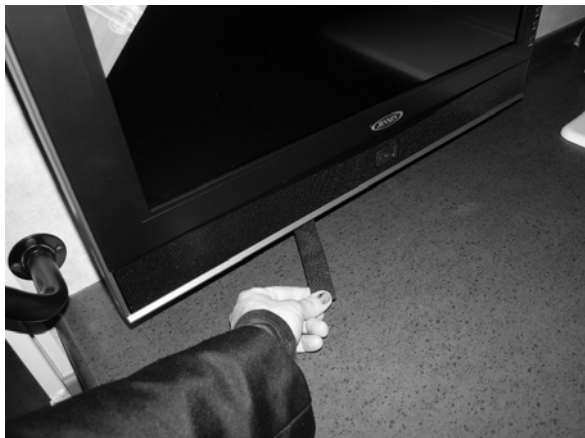
See the manufacturer's user guide provided in your InfoCase for complete operating instructions.

**TV – GALLEY (SWING-OUT)
–If Equipped
(Typical View - your coach may vary
according to floorplan)**

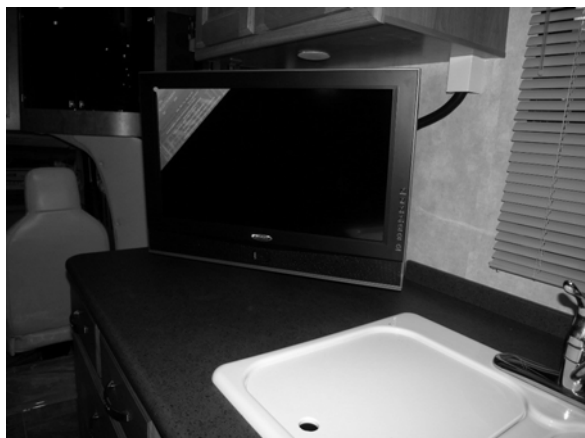
Your coach may be equipped with a galley TV swivel/telescoping mechanism, which allows you to angle the TV to best suit your viewing needs.

To Swivel TV

1. Pull the black strap (located on back side of TV) straight DOWN to release the TV from the mounting bracket.



2. Pull the TV out and pivot to desired position.



3. Rotate TV back to center position and press straight back towards wall. You will hear a “click” when the TV is secured into locked position.

Further Information

See the television manufacturer’s user guide provided in your InfoCase for complete operating instructions.

**SWING-OUT TV MOUNT
(FRONT BUNK)**

–If Equipped

The front bunk swing-out TV is powered by an electrical connection with a built-in ignition switch interlock. The TV will not operate in the stored position, except when the ignition key is in the Off or Accessory positions.

**FRONT TV IGNITION SWITCH
INTERLOCK**

–If Equipped

If your coach is equipped with a front overhead TV, it is plugged into a special electrical outlet with a built-in ignition switch interlock. The device allows the front overhead TV to operate only when the ignition key is in the Off or Accessory positions.



Front TV Ignition Switch Interlock
-Typical View

TV/DVD MASTER POWER SWITCH (12-VOLT)

(Swing-Out TV)

–If Equipped

The TV and DVD player unit on models with the swing-out TV are powered by 12-volt coach current and have a master power input switch located on the underside of a side overhead cabinet or on a wall near the TV.

Turn off the 12V TV/DVD Master Power switch when not using the TV to conserve house battery charge.



12V TV/DVD Master Power Switch
(Located on cabinet or wall near TV)
–Typical installation shown

AUDIO-VIDEO SYSTEM BASIC OPERATION

*NOTE: For your convenience, we have also included a handy, tear-out version of this “A/V System Basic Operation” guide in Section 8 of your Operator’s Manual Supplement.
See your InfoCase for specific operating guides for audio and video components.*

DVD HOME THEATER SYSTEM

(Front TV only)

–If Equipped



The available DVD home theater system operates from 120-volt AC household current only, so you must have either the shoreline connected, the generator running, or the inverter turned on (if equipped).

The TV is connected to the home theater system, which plays through theater speakers in the lounge area of the coach.

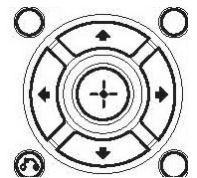
Set TV Video Input

- Turn TV and DVD player ON.
- Press FUNCTION button on front of TV or remote and select HDMI1 input. TV screen will display DVD player logo when correct input is selected.



Play DVD with Theater Sound

- Insert DVD into player. DVD will begin to load automatically. TV screen will typically show “READING” or “LOADING”.
- DVD may load directly to main title/menu screen or it may begin to play previews. You may be able to skip previews if desired by pressing the PRESET+ button until you see the main menu screen.
- When main menu screen appears, use arrow buttons on remote to select desired entry or press the center button on remote (or “Play” button on DVD player) to begin playing feature.
- Volume is adjusted with remote (or volume buttons on DVD player).



TV Sound Through Home Theater Speakers

When watching TV programs alone, the TV normally plays sound through its own built-in stereo speakers. If you wish to connect TV stereo sound output to the home theater speakers for a richer sound quality, follow these steps:

- Turn TV and DVD player ON.
- Press FUNCTION button on DVD player or remote to set DVD player to TV CABLE.
- Use TV Menu button to set TV audio output to “Variable Audio Output”. This routes TV stereo sound output through home theater system.
 - > Audio (turn speaker Off)
 - > Setup (change to Variable)
- Select TV channels and adjust volume with remote for either the TV or DVD.

NOTE: Turn the volume level up significantly on the DVD player when using the home theater as an amp for the TV through the stereo system.

**DVD PLAYER - FRONT BUNK SWING-OUT TV
(Without Home Theater)
-If Equipped**



The DVD player is connected to the TV and plays through the TV stereo speakers or the deluxe sound rear radio speakers in the lounge area of the coach.

Provide 12V Power

The TV and DVD player operate on 12-volt DC current.

- Turn on the 12-volt master power (TV) switch (located on the video cabinet near the TV).

NOTE: When the TV is not in use, the TV master power switch should be turned off to avoid drain on the 12-volt house battery.



Set TV Sound Output

- Use the TV Menu button to set TV audio output to Variable Audio Output. (See TV owner’s manual for instructions.) This will connect TV stereo sound output to the deluxe speakers in the lounge area.
- Volume is adjusted with the TV remote or volume buttons.

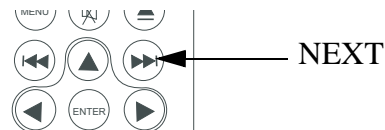
Set TV Video Input

- Turn TV and DVD player ON.
- Press the SOURCE or INPUT button on the TV or TV remote to select “INPUT 1” or “AV1”.
- The TV screen will display the DVD player logo when the correct input is selected.

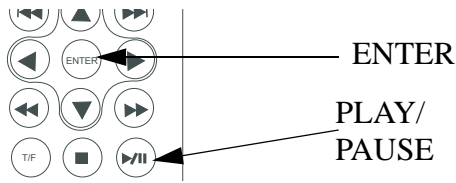


Play DVD

- Insert DVD into player. DVD will begin to load automatically. TV screen will typically show “READING” or “LOADING”.
- The DVD may load directly to the main title/menu screen or it may begin to play previews. You may be able to skip previews if desired by pressing the NEXT button until you see the main menu screen.



- When the main menu screen appears, use the arrow buttons on the DVD remote to select the desired entry or press the ENTER or PLAY buttons on the remote (or “Play” button on DVD player) to begin playing the feature.

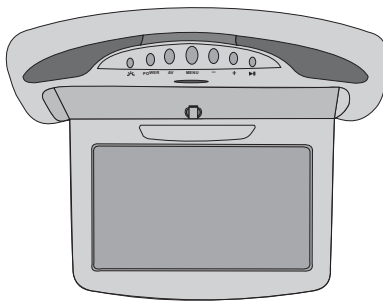


- Volume is adjusted with the DVD remote (or volume buttons on DVD player).

FLIP-DOWN SCREEN VIDEO PLAYERS

(Rear Bunk models only) –If Equipped

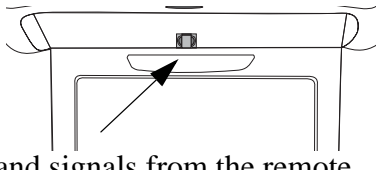
The flip-down LCD screen DVD Video Players are mounted overhead in each of the bunk beds.




The Video Players operate independently so the occupant of one bunk may watch a DVD while the other watches a different DVD. The same DVD can be watched on both players at the same time as well. The top player is the master unit. Place the DVD in the top player and begin playing the DVD. Select AV1 input on the unit in the lower bunk to view the DVD playing in the upper bunk.

The players each contain auxiliary audio-video inputs for connection of a video game system or other audio-video equipment if desired.

Remote Control and Wireless Sound

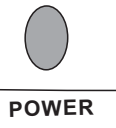
- A sensor array above the screen of each Video Player receives command signals from the remote control. 
- The sensor array also continuously transmits wireless sound signals for reception on IR wireless headphones.
- See Video Player instruction guide in your InfoCase for remote control instructions and additional information on wireless headphones.

12-Volt Master Power


- The Video Players operate on 12-volt DC current. Turn on the 12-volt master power (TV) switch shown, located on the backwall of the top bunk. 

NOTE: To avoid drain on the 12-volt house battery, we recommend turning the master power switch off when Video Players will not be in use.

Video Player Power ON/OFF

- Press the POWER button on either the remote control or the unit once to turn the power on. Press the same button to turn the player off. 
- Push the open button (located on the front of your screen) and lower the monitor to the desired level. You may also adjust the swivel angle.

To Play DVD

- Insert the DVD label side down (facing you) into the slot on the side of the player. The player will automatically switch to DVD mode. The screen will display the DVD logo and begin to read the disc. 

- The DVD may load directly to the main title/menu screen or it may begin to play previews. You may be able to skip previews if desired by pressing the NEXT button on the remote until you see the main menu screen.
- When the main menu screen appears, press the PLAY button on the player or ENTER button on the remote control to begin playing the feature, or use the arrow buttons to select the desired entry.
- Volume is adjusted with the +/- buttons on the player or the remote control.

To Play CD Audio (or CD Video)

- The Video Player is also capable of playing CD Audio music and CD Video discs.
- Insert the CD label side down (facing you) into the slot on the side of the player. The player will automatically switch to proper mode to play audio or video CD.

To Connect Game Systems or Other A/V Components

- Plug the audio and video cables of the game system or component into the audio-video input jacks at the rear underside of the Video Player.
- Switch the game system or component ON.
- Press AV button on Video Player to select VIDEO 1 or VIDEO 2 input. (The component logo or other indication may appear on screen when proper input is selected).
- Operate game system or component using the component’s controller(s).
- See Video Player instruction guide in your InfoCase for more information.



AV

Reading Lights

- Push the light button to turn the reading lights on and off.



ELECTRICAL INVERTER

300-Watt DC-to-AC

–If Equipped

The inverter changes 12-volt DC automotive current into 120-volt AC household current. This allows you to operate your TV and DVD player from the house batteries when shoreline hookup or generator power are not available.* In some models the inverter is also connected to the 120-Volt AC outlet for the bedroom TV.

The inverter is typically located in the video center cabinet or on the lower face of the galley cabinet.



300-Watt DC-AC Power Inverter

- Turn Inverter On to operate TV.
- Low Battery indicator will light if 12V house batteries are becoming drained. (Turn Off inverter to avoid total drain).
- Turn Inverter Off when not in use to avoid draining house batteries.
- The inverter will shut down when the House/Coach Battery Disconnect Switch is turned off.

**NOTE: Running high-amperage appliances like the TV and DVD on inverter power can drain the house battery rapidly unless the chassis engine is running so the alternator can charge the batteries.*

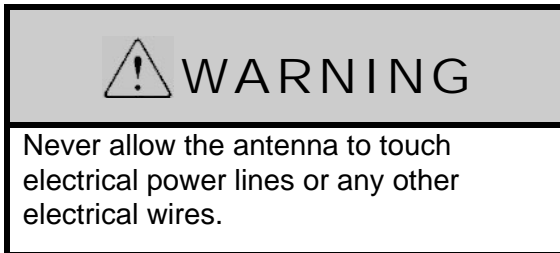
Further Information

See manufacturer’s information provided in your InfoCase for more information.

TV ANTENNA - DIGITAL (Jack® Digital HDTV Over-the-Air Antenna)

Your coach is featured with a digital antenna, which provides crystal clear digital HD reception of over-the-air channels in addition to superior broad reception range.

The digital antenna is equipped with a built-in amplifier for maximum VHF and UHF programming.



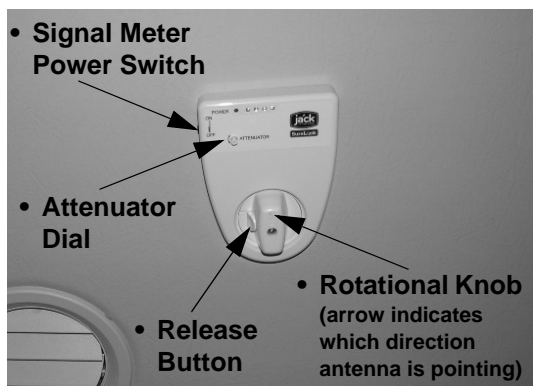
Operating the Digital Antenna

- Turn the Video Selection box ON.



Video Selection Box
(Located near entertainment center cabinet)

- Turn ON the Signal Meter Power switch (located on the side of the Signal Meter).



Digital Antenna Signal Meter
(Located on ceiling)

- Rotate the Attenuator Dial fully CLOCKWISE.

- Press Release Button on the Rotational Knob and rotate antenna (until maximum number of LED lights illuminate on the Signal Meter).

NOTE: LED lights will illuminate from left to right. All LED lights may not illuminate, depending on signal strength.

- Rotate Attenuator Dial COUNTER-CLOCKWISE until the last illuminated LED light flickers.
- Rotate antenna to illuminate the last flickering LED light.
- Repeat Steps 5 and 6 to pinpoint signal reception.

NOTE: Refer to television manufacturer's instructions to scan for available channels.

Further Information

See the antenna manufacturer's user guide provided in your InfoCase for complete operating and maintenance information.

TV SIGNAL AMPLIFIER

The TV Signal Amplifier is built into the antenna and can be turned on or off with a power switch on the video selection system (located on a wall near the TV or in the entertainment center cabinet, depending on model).

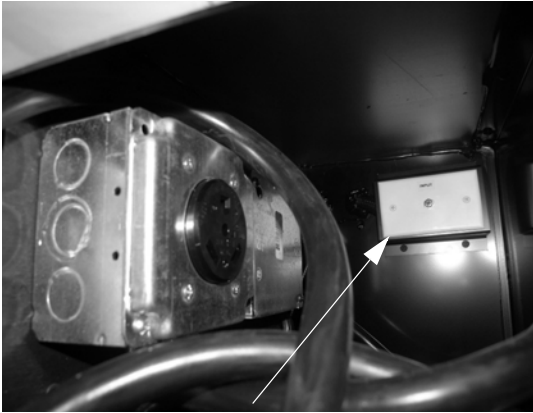
An indicator light will glow when the switch is on and the signal amplifier is active.



TV Signal Amplifier Switch
(Located on Video Selection System)

CABLE TV CONNECTION

A cable television connector is provided and is located in the utility compartment.



Cable TV Hook-Up
(Located in Utility Compartment)
-Typical View

EXTERIOR CABLE TV - 12V CONNECTION

-If Equipped

The exterior cable TV/12-volt connection receptacle on your coach provides connection for use of a TV and/or 12-volt device for your outdoor entertainment.



Exterior Cable TV / 12-Volt Connection
(Located near entrance door)
-Typical View

TV DIGITAL SATELLITE SYSTEM WIRING

Your coach is pre-wired for installation of a digital satellite TV system. Coaxial cable and HDMI cable connections are available to hook up your satellite receiver and are located near the entertainment center cabinet.

A second connection may be included inside a cabinet in the bedroom for the rear TV (if equipped).

See your authorized Winnebago Industries® dealer for proper installation and sealing of roof mounted components.




Interior Connection for Satellite Dish
(Located near entertainment center cabinet)




HDMI Cable
(Located near entertainment center cabinet)
-If Equipped

SECTION 9 – FURNITURE AND SOFTGOODS

SLEEPING FACILITIES

 **WARNING**

Sleeping facilities are not intended for use while vehicle is in motion. For safety, passengers must use safety belted seating positions while vehicle is in motion.


 **WARNING**

Do not exceed 225 lbs. maximum weight capacity. Misuse of ladder could result in death or serious injury. See Operators Manual before using ladder.

FRONT OVERHEAD BUNK –If Equipped

The overhead front bunk is located above the driver’s compartment. The rear mattress section can be stacked on top of the front section for storage while traveling or when not in use.

The top of the bunk ladder must be hooked onto the brackets on the rear edge of the bunk mattress for use.

 **CAUTION**

To avoid injury, never use the bunk ladder in any other manner or for any other purpose than described in the following instructions.

Before Using Bunk Ladder

- **Inspect the ladder** to make sure it is not damaged. Never use a damaged ladder.
- **Keep the rungs of the ladder clean and dry** while in use. Do not step onto the rungs if the rungs are wet, or if your shoes are wet or carry debris that could result in a loss of footing.
- **Never ignore warning labels** or weight limits defined on your ladder. The following warning label is located on or near the ladder:

- **Maximum Capacity: 225 lbs.**
- **Do not overload.** Ladder is intended for one person.
- **Make sure you are physically capable** to safely use the ladder. Strength, flexibility and stability are required.
- **Grasp the side rails firmly** and always use both hands as you climb the ladder. Keep your body centered between the side rails. Do not over-reach.
- **To protect children,** do not leave the ladder set up and unattended.
- **Always store** the ladder in a safe and dry location when not in use. Stow properly while in transit.
- **Do not store items** on the ladder. You could damage the ladder.

To Use the Bunk Ladder

The top of the bunk ladder must be hooked onto the brackets on the rear edge of the bunk as shown.



Attaching Bunk Ladder

- Lift ladder horizontally
- Slide C-shaped retainer ends at top of ladder onto brackets at rear edge of mattress.



- Lower ladder to floor.
- Make sure top of ladder is properly engaged onto retainer brackets and ladder is resting firmly on floor before using.



Security Latch
(Located on front of sofa)
- Pull OUT to release



Front Overhead Bunk
Shown with bunk sections and ladder in position

Straps are provided on the mattress section to secure and store the ladder while traveling or when not in use.

SOFA/BED CONVERSION

-If Equipped

Sofa to Bed

- Pull OUT on security latch (located on front of sofa) to release sofa seat.

- Lift the front edge of the sofa seat upward and outward from the wall while gently pushing downward on the backrest until the cushions lie flat.
- The bed is now ready for use.

Bed to Sofa

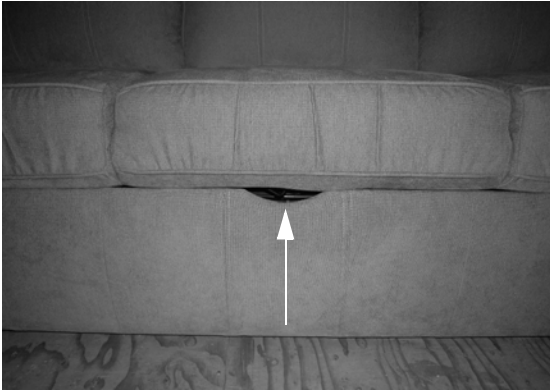
- Push the front edge of the sofa seat toward the wall while lifting upward on the backrest until the sofa is fully seated against the wall and security latch “clicks” into locked position.

SOFA/BED CONVERSION

-If Equipped

Sofa to Bed

- Press DOWN on security latch handle (accessible through front sofa opening) to release sofa seat.



Security Latch Handle accessible through front sofa opening



Security Latch Handle
(Shown with sofa seat lifted)
- Press DOWN to release

- Lift the front edge of the sofa seat upward and pull outward from the wall while gently pushing downward on the backrest until the cushions lie flat.
- The bed is now ready for use.

Bed to Sofa

- Push the front edge of the sofa seat toward the wall while lifting upward on the backrest until the sofa is fully seated against the wall and security latch “clicks” into locked position.

DINETTE/BED CONVERSION –If Equipped (Typical view – your coach may differ)



Dinette to Bed

1. Release the catch on the table leg brace and fold the leg up against the bottom of the table.



2. Remove the table from the wall support bracket by lifting the end of the table. Then lower the table to rest on the cleats attached to each dinette bench.

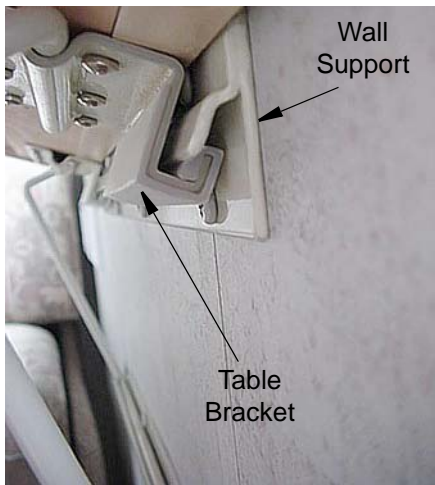


3. Arrange dinette cushions to cover bed area.



Bed to Dinette

1. Reattach the table onto the wall support and lower the table leg.



2. Make sure that the table leg is secured into the floor support bracket and the leg brace is locked.



**DINETTE/BED CONVERSION -
DREAM DINETTE™**

**-If Equipped
(Typical view – your coach may differ)**

Dinette to Bed

1. Release the lock rod (located on the bottom of the table) by turning the lock rod clockwise.



2. Lift the dinette cushions upward and push table straight down.



3. Secure the lock rod (located on the bottom of the table) by turning the lock rod counter-clockwise.



4. Arrange dinette cushions to cover bed area.



5. Reverse steps to convert back into dinette.

DINETTE CONVERSION

–If Equipped

(Typical view – your coach may be featured with two dinette tables and pedestal legs, depending on model)

Dinette Table Setup

1. Remove the dinette table(s) and pedestal leg(s) from rear wardrobe or galley cabinet, depending on model.
2. Insert dinette pedestal leg(s) into the metal receiver(s) on the floor in front of sofa.



3. Place dinette table(s) securely onto the dinette pedestal leg(s).



-Typical View

Reverse steps to store dinette table(s) and pedestal leg(s).

COMFORT SOFA SLEEPER

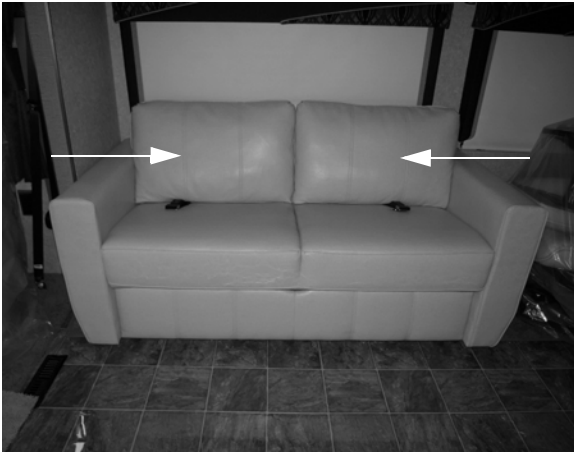
–If Equipped

(Typical View - your coach may vary according to floorplan)

Your coach may be equipped with a Comfort Sofa Sleeper, which is featured with an air bed that can be adjusted to the firmness of your choice by the touch of a button.

Sofa to Bed

1. Remove seat back cushions and set aside.



2. Using the pull strap (attached to the back side of the sofa), pull the sofa back out and extend all the way down to the floor.



3. Rotate the lever lock (located on the bottom right-hand side of the sofa air bed) “clockwise” to release the bottom section of the sofa air bed.



4. Unfold the bottom section of the sofa air bed and extend all the way down to the floor.



5. Unfold the air mattress so it is covering the sofa bed.



*NOTE: The air mattress is plugged into an AC power outlet behind the sofa.
It may be necessary to press the “Reset” button on the galley GFCI outlet before operating.*

6. Press and Hold the INFLATE button on the hand control to fill the air mattress.

NOTE: Ensure the Deflation Valve (located on the end of the air mattress) is closed before inflating.



Air Mattress Hand Control
(Located on the back side of the sofa)



7. Press and Hold the ADJUST button on the hand control to adjust the firmness of your air mattress to the setting that best suits your needs.



8. Insert index finger inside of Deflation Valve and press DOWN for a softer feel.



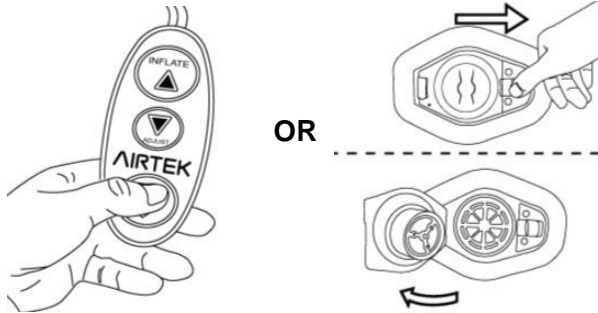
Bed to Sofa

1. Press and Hold the DEFLATE button on the hand control OR open the Deflation Valve (for quick deflation) until air mattress is completely deflated.

SECTION 9 – FURNITURE AND SOFTGOODS

Impulse

NOTE: If using Deflation Valve to deflate air mattress, pressing down on the mattress itself and forcing air out will speed up the deflation process.



2. Fold in the bottom section of the air mattress.

NOTE: Leaving the Deflation Valve open while converting back into sofa position will help remove any remaining air for more compact storage.



3. Lift up the bottom section of the sofa bed and bring all the way up.



4. Rotate the lever lock “counter-clockwise”, securing the bottom section of the sofa bed back into locked position.



5. Grasp the pull strap and proceed to bring sofa all the way up. Once the sofa is back in original position, replace the sofa back cushions.



Further Information

See the air bed manufacturer’s user guide provided in your InfoCase for complete air bed operating instructions, safety precautions, and repair information.



Further Information

For further operating information and care instructions, see the manufacturer’s user guide provided in your InfoCase.

**ROLLER SHADES (MANUAL) -
SOLAR DAY/NIGHT**

–If Equipped

Your coach may feature two-stage day/night roller shades that provide both solar heat protection and light-blocking capabilities.

The shade can easily be lowered by hand to any position, then retracted with a slight downward pull movement. When raising the shade, there is no need to hold onto the bottom of the shade - just simply let it go and it will rise at a slow, controlled rate.

You can pre-set the auto-stop positioning of your shade, which allows your shade to retract to a cushioned stop, at the positioning of your choice.

**WOOD FURNITURE AND
CABINETRY**

–If Equipped

People are drawn to the natural beauty of wood. At Winnebago Industries®, our craftsmen work with the art found in each piece of wood to create cabinets of superior quality, backed by the Winnebago Industries warranty.

- Oak is a strong, open-grained hardwood that ranges in color from white to pink and reddish tones. Streaks of green, yellow, and even black may appear due to mineral deposits. Oak may also contain wormholes and wild, varying grain patterns. This distinct graining is considered a desirable quality and has made oak one of the most popular woods used for cabinetry.
- Maple is a close-grained hardwood that is predominately white to creamy-white in color, with occasional reddish-brown tones. While maple typically features uniform graining as compared to other wood species, characteristic markings may include fine brown lines, wavy or curly graining, bird's eye dots and mineral streaks. These traits are natural and serve to enhance maple's natural beauty.

- Cherry is characterized by its red undertones, but may vary in color from white to a deep, rich brown. Cherry is a close-grained wood with fairly uniform texture, revealing pin knots and curly graining. All wood will age with time and the finish will darken. This is especially true for cherry. This is a sought-after quality in cherry cabinetry, and those who select it expect this evolution.

No matter which species you choose for your new Winnebago Industries motorhome cabinetry, please keep in mind that no two pieces of wood are exactly the same.

Stains are likely to exaggerate the difference between open and closed grains and other markings in wood. Grain variation and color change should be expected. As hardwood ages, it will darken when exposed to different types of light. Color differences or changes in wood can also be caused by exposure to harsh chemicals, extreme heat, or other contributing external conditions.

Any color change that occurs in both the finish and the wood is considered part of the natural aging process and is not to be considered defect or damage.

Additionally, wood species exhibit other defining characteristics, such as mineral deposits/streaks, knots, sap runs, pin holes, and wormholes. These markings make the wood unique and contribute to its enduring beauty.

Therefore, since wood is a product of nature and will have certain natural characteristics and variances, they are not covered under the warranty.

SECTION 10 – SLIDEOUT ROOMS

SLIDEOUT ROOM KEYLOCK

A Master Slideout Room Keylock is located near the interior slideout control switch(es). This keylock must be turned ON to operate slideout room(s).




Master Slideout Room Keylock
(Located near interior slideout control switches)

Rear slideout switches are typically located on a wall in the rear of the coach in or near the slideout room. Location varies by model and floorplan.



Slideout Switch
(Your coach may have one or more slideout switches depending on model, options, and available equipment)
-Typical View

SLIDEOUT ROOM OPERATION – ELECTRIC

 WARNING
Your motor home may have more than one slideout room. Understand which switch operates which slideout room prior to operation. Make sure all slideout rooms are clear of people who could be harmed or obstacles that could cause damage prior to operating any slideout rooms. Failure to observe can result in death or serious injury.


Slideout rooms provide a spacious living area at the push of a button.

Front slideout room switches are typically located near the Systems Monitor Panel. Location varies by model and floorplan.

 CAUTION
Never drive the vehicle with a slideout room extended!

The slideout room system uses 12-volt DC motorized mechanisms with an electronic control system to provide smooth operation and positive weather seal.

NOTE: We recommend that you KEEP THE ENGINE RUNNING WHILE EXTENDING OR RETRACTING SLIDEOUT ROOMS so the engine alternator can provide maximum power for proper operation of the slideout mechanisms.

 WARNING
CRUSH HAZARD. Keep people and objects clear of the inside and outside of the slideout room when operating. Failure to comply could result in death or serious injury.

To Extend Slideout Room

Before Extending!

- Level the coach and set the Parking Brake.
- Ensure exterior compartment doors are closed so that they will not interfere with slideout operation.
- Check inside and outside the vehicle to make sure that there are no people who could be harmed or obstacles that could cause damage due to room extension.
- If the slideout room has a couch or other furniture, make sure no people or pets are seated on them until the room has been fully extended.

Extend Procedure:

See “Before Extending!” before proceeding.

- Start the engine so the alternator can provide maximum power for proper operation of slideout mechanisms.
- Insert the safety lock key into Slideout Room Master Keylock and turn to activate slideout room control switch.
- Press the Slideout Room “EXTEND/OUT” switch and hold until the room is fully extended, then release the switch.
- To stop extending the room during operation, release the button.
- Deactivate the slideout switch with the Slideout Room Master Keylock.

To Retract Slideout Room

Before Retracting!

- Be sure the coach is level and the Parking Brake is set.
- Ensure exterior compartment doors are closed so that they will not interfere with slideout operation.
- Check inside and outside the vehicle to make sure that there are no people who could be harmed or obstacles that could cause damage due to room retraction.
- Stow all furniture extensions before retracting slideout rooms to avoid property damage.
- If the slideout room has a couch or other furniture, make sure no people or pets are seated on them until the room has been fully retracted.
- Remove all items from the coach living room floor and close cabinet doors and drawers. Be sure there are no items at the end of the bed, behind the driver seat, or protruding from compartments, which could be crushed or cause damage to floor covering or cabinets when the room is retracted.

NOTICE
Because the slideout roof is drawn into the interior of the coach when retracted, be sure there is no debris, such as excessive dirt, tree seeds, twigs, leaves, etc. on the roof before retracting.

Retract Procedure:

See “Before Retracting!” before proceeding.

- Start the engine so the alternator can provide maximum power for proper operation of slideout mechanisms.
- Insert the safety lock key into Slideout Room Master Keylock and turn to activate slideout room control switch.

- Press the Slideout Room “RETRACT/IN” switch and hold until the room is fully retracted, then release the switch.
- To stop retracting the room during operation, release the button.
- After the room is retracted, deactivate the slideout switch with the Slideout Room Master Keylock.

SLIDEOUT ROOM – EXTREME WEATHER PRECAUTION

Certain extreme weather conditions, such as heavy rains, heavy snow, and high winds, or any combination of these, could cause damage to the slideout room cover-awning (if equipped) or reduce effectiveness of the slideout room weather seals.



Slideout Cover-Awning
-Typical View

Also, freezing rain and snow can prevent the slideout cover-awning (if equipped) from closing and may cause damage to the cover-awning, slideout room, weather seals, and mechanisms.

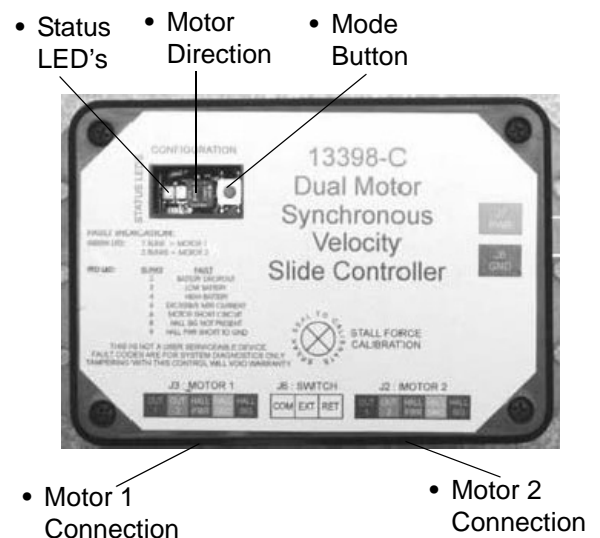
To avoid potential damage, we recommend retracting your slideout room during extreme weather conditions.

SLIDEOUT ROOM TROUBLESHOOTING

Battery Voltage or Circuit Breaker Problems

If the slideout room will not work:

- Turn the House/Coach Battery Disconnect switch OFF and then ON again. This will, in many cases, reset power to the slideout system.
- The house battery may be low on charge. Plug in the external power cord (shoreline), start the engine, or start up the generator (if equipped). This may assist slideout room operation.
- The chassis battery may be low on charge. Press and Hold the Battery Boost switch (located on the dash) while pressing the interior slideout control switch. This momentarily connects the house batteries to assist in slideout room operation.
- The circuit breaker may be tripped. The circuit breaker, labeled “Slideout Power” is located on a panel on an interior wall of the passenger side storage compartment just behind or ahead of the entrance door.



Slideout Control Panel
(Located in passenger side compartment)

Error Codes

When an error occurs during slideout room operation, the slideout control panel (located in passenger side compartment) will use LED display lights to indicate where the problem exists.

For specific motor faults, the green LED light will blink 1 time for Motor 1 and 2 times for Motor 2. The red LED light will blink from 2 to 9 times, depending on the error code. The error codes are as follows:

- **(2) - BATTERY DROP OUT.** Battery capacity low enough to drop below 6 volts while running.
- **(3) - LOW BATTERY.** Voltage below 8 volts at start of cycle.
- **(4) - HIGH BATTERY.** Voltage greater than 18 volts.
- **(5) - EXCESSIVE MOTOR CURRENT.** High amperage (also indicated by one side of slideout room continually stalling).
- **(6) - MOTOR SHORT CIRCUIT.** Motor or wiring to motor has shorted out.
- **(8) - HALL SIGNAL NOT PRESENT.** Encoder is not providing a signal. This is usually a wiring problem.
- **(9) - HALL POWER SHORT TO GROUND.** Power to encoder has been shorted to ground. This is usually a wiring problem.

NOTE: When an error code is present, the slideout control panel needs to be reset. Operating the Extend/Retract switch will reset the slideout control panel. Operate the Extend/Retract switch again for normal operation.

Manual Override

In the event that the slideout room fails to retract and manual operation is required:

- Locate the slideout control panel (located in passenger side compartment).

- Press the Mode button 6 times, quickly. Press a 7th time and hold for approximately 5 seconds.
Red and green LED lights will begin to flash, confirming the override mode.
- Release Mode button.
- Use the slideout control switch (located inside the coach) to retract the room.

NOTE: If slideout room fails to retract using the Manual Override method, see “Slideout Emergency Retraction” elsewhere in this section.

Further Information

See the slideout room operating guide included in your InfoCase for further instructions and troubleshooting information.

SLIDEOUT EMERGENCY RETRACTION

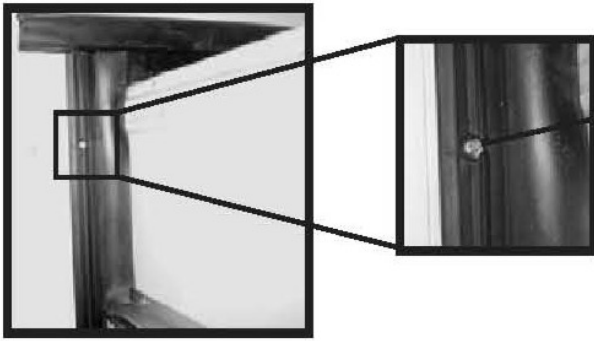
If the slideout mechanism is malfunctioning and the room will not retract using the interior control switch or exterior control panel, you may need to access the slideout motors and manually push the room in to the travel position.

There are two slideout motors equipped on the end wall of each slideout room. Pull back wipe seal to access motors.

Push-In Procedure

1. Remove slideout motor retention screw (located along exterior slideout trim), if equipped.
Repeat on opposite slideout trim.

NOTE: If your coach is not equipped with slideout motor retention screws, proceed to Step 2.



Slideout Motor Retention Screw
(Located along exterior slideout trim)
-If Equipped

2. Pull back wipe seal to access slideout motor.
3. Using a flat-head screwdriver, push bottom of slideout motor UP to disengage (approximately 1/2" from base).

Repeat on opposite slideout motor.



Slideout Motor
(Located behind slideout wipe seal)

- Use a screwdriver to push slideout motor UP (disengage).



- Ensure slideout motor is disengaged approximately 1/2" from base.

4. Push slideout room in to travel position, ensuring both sides are relatively even.

NOTE: Several people may be needed to push the room in.

5. When the slideout room is fully retracted, secure the room with a support item (e.g. 2x4 wood board) above the interior slideout room to secure room during travel.

NOTE: For larger slideout rooms, place a travel support item on each end of the interior slideout room.



Slideout Travel Support

- Place support item (e.g. 2x4 wood board) above interior slideout room as shown.

6. See your dealer for service of the slideout motors before using again.

Further Information

Please refer to the slideout manufacturer's user guide provided in your InfoCase for further instructions and troubleshooting information.

GENERAL SLIDEOUT CARE

- Keep slideout room seals clean.
- Clean the floors inside the coach before retracting the slideout room to avoid floor scratches or carpet pile snags.
- Wipe outer slideout room seals occasionally with talc or 303 brand protectant for smooth, quiet operation.
- See your authorized dealer for regular maintenance and service of the slideout mechanism.

Slideout Room Seal Care and Maintenance

While most household cleaners work well for cleaning slideout room seals, certain chemical agents may cause the seals to degrade. Typically, 409[®] and Lysol[®] type products work well. Use a product, such as Armor All[®] to keep seals soft.

In addition, certain caulks and sealers may include chemicals that may adversely effect the performance of the seals. See your authorized dealer for caulks and sealers recommended for your coach.

SECTION 11 – MAINTENANCE AND STORAGE

SEALANTS – INSPECTION AND GENERAL INFORMATION

Water is a recreational vehicle's worst enemy when it is allowed to enter where it is not intended. Sealants perform a very important function and should be inspected closely and maintained regularly. Winnebago Industries® utilizes many different types of sealants. Refer to the "Sealants Call-Out Sheet" provided in your InfoCase for further information.

Sealants, in general, do not have "set" lifetimes. Varying environmental factors affect the pliability and adhesiveness of sealants. You or your dealer must:

- Inspect all sealants, a minimum of every six months.
- Inspect the moldings, windows, clearance lights, exterior compartment doors, and all their attachments.
- Also, inspect weather seals around entrance door, etc., and if necessary, have a dealer replace them immediately.
- Check for cracks, voids, gaps, breaks, adhesion, and any sign of physical deterioration.

NOTE: Proper sealant inspection includes not just visual observation but running a finger along sealant seams to verify proper adhesion to the surface. Any loosened areas must be replaced.

- Have the sealant replaced if you notice any of the above. Your local Winnebago Industries dealer has the correct and necessary parts and experience to help you maintain your sealants. See "Sealants Call-Out Sheet" provided in your InfoCase.
- Always use the same type sealant that was removed.
- Immediately have dealership check moldings, windows, and exterior attachments for leak source if you notice water inside of unit.

NOTICE

Sealants must be inspected every 6 months and replaced if necessary.

ROOF



WARNING

Stay off roof. Roof surface may be slippery. Falling could result in death or serious injury.

The roof is made of Thermo-Panel materials like the walls and floor. It will support the weight of an average adult for periodic maintenance or repair of the roof or roof mounted components.

Walking or working on the roof should be left to qualified service personnel using proper safety equipment in a safe environment. You should only walk or work on the roof if you are qualified and have created a safe environment.

For your safety, it is not recommended that you store or carry items on the roof.

Always have damage to the roof area repaired immediately. Damaged or detached sealant around the vents, air conditioner, body-to-roof seams, etc., should also receive immediate attention. Delaying these repairs may allow water leakage and result in damage to interior ceiling and body panels, upholstery, etc., which is not covered by the limited warranty (see *Section 1 - Introduction*).

UNDERCARRIAGE

Buildup of mud and dirt under the body of the coach can cause damaging rust or corrosion on steel or aluminum parts and can add needless

weight to the vehicle. This, in effect, reduces the amount of cargo you can carry and remain within GVWR and GAWR limits.

Corrosive materials, such as those used for ice and snow removal and dust control, can also accumulate on the underside of a vehicle. These materials should be removed by flushing the undercarriage regularly with water, especially horizontal surfaces, cavities, and other areas where mud and other deposits may collect.

EXTERIOR FINISH

The exterior surface of your motor home has an automotive gel-coated fiberglass finish.

Follow these precautions to keep it looking its best and preserve maximum gloss and durability.

Parking

- Avoid parking under trees. Rinse bird droppings and tree sap off as soon as possible. Lukewarm soapy water can help speed up the cleaning process.
- Avoid parking near ocean salt spray.
- Avoid parking near factories with heavy smoke or industrial fallout.

Driving

- Gravel roads should be avoided.
- Antifreeze, fuel, or window solution spilled on plastic surfaces, decals, and appliques should be rinsed off immediately with water.
- Bugs and bird droppings should be rinsed off with water or washed with lukewarm soapy water daily.

Washing

- Frequent washing and thorough cleaning is recommended to prevent damage to the finish from exposure to damaging salts, calcium chloride, road tar, tree sap, insects, and other foreign material.
- Do not use strong soaps or detergents for washing the motor home.

- Wash with cool water out of direct sunlight using a mild liquid soap (any “no-tears” baby shampoo can be used). Never wash the vehicle in direct sunlight or while the vehicle surface is hot.
- Be careful when using pressure-type washers to avoid loosening exterior decals or sealants.

NOTE: Avoid aiming water flow from a hose or spray from high-pressure washing equipment into any appliance intake because damage or difficulty in operating appliances may occur.

- Commercial vehicle wash facilities should be avoided. Revolving brushes, “soaking” solutions, and high-pressure water spray may damage sealants, decals, and appliques.
- Pressure-sensitive appliques or decals on your coach require very little maintenance, but should be treated like any painted surface on your vehicle. Wash with mild soap and water and rinse thoroughly. See “Exterior Graphic Care” for details.
- After washing the coach, carefully inspect sealant around window frames and vents and any other joints that may have loosened or separated. See “Sealants - Inspection and General Information” at the beginning of this section for details.

<h2>NOTICE</h2>
Never use a strong solvent such as lacquer thinner, or harsh abrasives on plastics, decals, and painted surfaces.

Waxing and Polishing

When water will not bead up and roll off the finish of your freshly washed vehicle, a coat of automotive wax may be applied to the finish. Wax not only improves the appearance of the vehicle, but protects the finish against oxidation and corrosive substances.

We recommend using a wax that is compatible with painted and gel-coated fiberglass finishes.

If the finish begins to look dull or discolored, it may need to be cleaned with a polishing or cleaning compound formulated for gel-coated fiberglass finishes.

NOTE: If you use a polish or a cleaning compound that does not contain a wax preservative, we recommend reapplying a coat of hard wax after cleaning or polishing the finish.

Inspection

A motor home exterior is subjected to many physical forces and environmental conditions. While the coach is parked, it is exposed to climate and weather extremes and other environmental conditions. While in operation, it is subjected to various twisting and flexing forces caused by routine cornering and turning, and by uneven road surfaces, such as bumps, potholes, railroad tracks, and parking lot entrances.

Inspect the exterior fiberglass shell periodically for cracks, which may represent a threat to the integrity of the fiberglass.

Minute cracks in the surface, commonly called "spider cracks" or "hairline cracks" caused by normal flexing of the fiberglass exterior are normal and typically pose no threat to the integrity of the vehicle other than appearance.

However, if a crack has opened up and the weave of the cloth is visible, this does represent a threat to the integrity of the fiberglass and must be repaired or covered as quickly as possible to avoid penetration by moisture, especially in freezing climates.

If the fiberglass has been damaged and contains cracks, tears or holes, use plastic sheeting and duct tape, if necessary, to prevent moisture from damaging the sidewall material or the interior of the coach.

EXTERIOR GRAPHIC CARE

The pressure-sensitive graphics on your coach require very little maintenance. In order to allow the graphics to have the longest life possible, the following steps should be taken.

- Wash graphics with plain soap and water or any car wash detergent. Rinse thoroughly.
- High pressure water spray may loosen or damage graphics. Keep spray nozzle at least 1 1/2 feet from the edge of the graphics.
- Test any cleaning solution on a small section of graphic before using.
- Never use aromatic solvents such as acetone, M.E.K., toluene, paint thinner or lacquer thinner on graphics. Solvents may soften the vinyl and smear colors.
- Gasoline or other fuels spilled on graphics should be rinsed off immediately with water.
- Do not apply paint or clearcoat over the graphics.
- Do not apply wax over the graphics, especially wax containing petroleum distillates. Wax that has dried along the edge of a graphic can be removed with cotton swabs after softening it with isopropyl alcohol. Rinse area thoroughly after cleaning.

PLASTIC PARTS – CLEANING

Many parts in your motorhome, such as the dash, exterior light lenses, and certain exterior body panels are made of high-impact plastic materials that can be damaged by wiping with solvents or improper cleaning products.

Always try cleaning plastic parts with the mildest cleaners first and work your way up to stronger cleaning products. Use the following cautionary lists as a guide when selecting cleaning products to use on plastic parts.

<h2>NOTICE</h2>

<p>Do not use citrus-based cleaners on polycarbonate finishes. Citric compounds will damage the high-gloss surface, causing it to appear dull or "flat". Always test a cleaning product on a hidden area to be sure it will not cause damage to the appearance of the part.</p>

Here is a list of mild cleaners that **may be used safely**:

- Car washing soap and water
- Glass cleaners *without ammonia*
- Mineral oil
- Multipurpose cleaners (such as Fantastik[®], Formula 409[®], etc.)

The following products, compounds, or solvents must be **wiped off immediately** to avoid damage:

- Ammonia
- Brake fluid
- Bathroom basin, tub, and tile cleaners
- Chlorine
- Ethyl alcohol
- Isopropyl (rubbing) alcohol
- Kerosene or gasoline
- Naphthalene
- Pine-type household cleaners

Do not use cleaners containing the following products, compounds, or solvents. These products **will damage** the finish.

- Acetic acid
- Acetone (nail polish remover)
- Aromatic solvents (lacquer thinners)
- Benzene
- Butyl alcohol

EXTERIOR LIGHTS

Most Winnebago Industries[®] vehicles have polycarbonate lenses on exterior lamps, which are very sensitive to a variety of chemical solvents and cleaners.

Use only soap and water to clean exterior lamp lenses, especially headlights.

- Contact with certain chemicals can cause etching, “crazing” or cracking of the lens, which can significantly reduce the lens clarity and effectiveness of the lamp and may require replacement of the complete lamp housing.

- Some popular citric acid cleaners may cause polycarbonate lenses to become “hazy” or “foggy”.
- Do not use a pressure washer to clean headlights.
- Inspect and operate the lights regularly to confirm proper operation and mounting condition.


INTERIOR SOFT GOODS

We recommend a weekly routine of vacuuming all fabrics and carpet throughout the motor home to prevent an accumulation of dirt, which can detract from the appearance and shorten the life of carpet and fabrics.

Fabric Upholstery

Some fabrics used in this motor home may contain fire retardant and lightfastness additives, which can be damaged by use of improper cleaning products. Some water-based household cleaning products are not formulated for use on fabrics and may cause excessive shrinkage or fading. Always test any cleaning product on a hidden area of fabric before using on visible areas. For best results, fabric cleaning should be referred to a professional carpet and upholstery cleaner.

NOTE: To minimize fading of upholstery, carpets and other interior fabrics caused by excessive sunlight, the drapes, blinds, or shades should be closed when the motor home is parked for an extended period of time.

 WARNING
<p>When cleaning upholstery and fabric, do not use lacquer thinner, nail polish remover, laundry soaps, or bleach. Never use carbon tetrachloride, gasoline, or naphthalene for any cleaning purpose. These materials may cause damage to the material being cleaned and most are highly flammable, posing risk of injury due to fire.</p>

**Ultraleather™
Leather-Like Upholstery
–If Equipped**

Ultraleather synthetic leather fabric material has the luxurious look and feel of the finest European calfskin, with the durability and resistance to soils and stains of vinyl fabrics. It is also tougher than real calfskin and has superior resistance to punctures, snags, and rips.

For most soils and stains, the fabric manufacturer recommends spot treatment with a solution of water and Tide® brand laundry detergent or equivalent. More stubborn stains may be treated with a water-based multipurpose cleaner/degreaser such as Simple Green® or equivalent. Solvent cleaners such as nail polish remover or other aromatic solvents are not recommended.

Care Instructions

- Spot clean with mild soap and water.
- Air dry or, if desired, dry quickly using a hair dryer on warm setting - not hot.
- For stubborn stains, use cleaner-degreaser.

Type of Stain	Detergent/ Water	Cleaner/ Degreaser
Coffee, Tea	◆	
Red Wine, Liquor	◆	
Cola, Soft Drinks	◆	
Milk	◆	
Ketchup	◆	
Steak/Soy Sauce	◆	
Mayonnaise, Butter	◆	◆
Salad Oil	◆	◆
Chocolate	◆	◆
Cosmetic Makeup	◆	◆
Lipstick	◆	◆
Face Cream	◆	◆
Suntan Oil/Lotion	◆	◆
Shoe Polish	◆	◆
Urine	◆	◆
Machine Oil		◆

**Vinyl Fabrics
–If Equipped**

Vinyl should be cleaned with a soft, damp cloth, and a mild detergent only. Do not use solvents. Solvents may damage the surface of the vinyl.

**Draperies, Curtains and
Bedspreads**

These items may be woven from a variety of fabrics. We recommend that these be professionally dry cleaned only. A five percent shrinkage may occur when you have these items dry cleaned.

General Stains

As with any stain or contamination, the quick response is the best, especially when done in conjunction with the proper cleaner for the type of stain.

CEILING FABRIC CARE

While using your coach, your ceiling fabric may become soiled and require spot cleaning from time to time.

SECTION 11 – MAINTENANCE AND STORAGE



These materials are made from polypropylene or polyester synthetic fibers, so they clean very well with virtually no damage to the color or fabric itself.

Most commercially available carpet and upholstery cleaners will do an excellent job removing stains. From time to time, additional cleaning methods may need to be used to remove stubborn or difficult stains.

The following cleaning chart is provided as a guideline for care and cleaning of ceiling fabrics used in your coach.

CEILING FABRIC STAIN REMOVAL		
Type of Stain	Cleaning Agent	How to Remove
Mustard	Dry-Clean Solvent	Scrub-Soak-Blot Dry
Ketchup*	High Strength Detergent	Scrub-Soak-Blot Dry
Coffee*	High Strength Detergent	Scrub-Soak-Blot Dry
Chocolate*	Detergent	Scrub-Soak-Blot Dry
Tea	High Strength Detergent	Scrub-Soak-Blot Dry
Chewing Gum	Dry-Clean Solvent	Scrub-Soak-Blot Dry
Oil	High Strength Detergent	Scrub-Soak-Blot Dry
Grease	High Strength Detergent/Degreaser	Scrub-Soak-Blot Dry
Tar/Asphalt	K-1 Kerosene/Thinner	Scrub-Soak-Blot Dry
Wax	Detergent	Hot Iron on Detergent-Soaked Towel/Cloth
Rust	Rust Remover	Scrub-Soak-Blot Dry
Dirt*	Detergent	Scrub-Soak-Blot Dry
Lipstick	Dry-Clean Solvent	Soak-Blot Dry
Nail Polish	Dry-Clean Solvent	Soak-Blot Dry
Shoe Polish	Dry-Clean Solvent	Soak-Blot Dry
Crayon	High Strength Detergent	Scrub-Soak-Blot Dry
Marker (indelible)	Detergent	Scrub-Soak-Blot Dry
Ink (Ballpoint Pen)	Dry-Clean Solvent	Soak-Blot Dry
Pencil Lead (Graphite)	Detergent	Scrub-Rinse-Blot Dry
Vomit*	High Strength Detergent	Scrub-Rinse-Blot Dry-Deodorize w/Vinegar
Urine*	High Strength Detergent	Scrub-Rinse-Blot Dry-Deodorize w/Vinegar
Blood*	High Strength Detergent	Scrub-Rinse-Blot Dry
Excrement*	High Strength Detergent	Scrub-Rinse-Blot Dry-Deodorize w/Vinegar

NOTE: In many cases listed above, repeated steps may be required to fully extract contaminant from material. Items listed above with () may also be removed through steam extraction method by a professional cleaner or service. Always check to see that the cleaner used will not cause damage to the material or fabric by testing on an area out of sight.*

Water Stains

Water stains should be cleaned with a mixture of 1/4 cup of white powdered or clear liquid laundry detergent (no coloring) in a bucket of

warm water. Working with a clean sponge or white cloth, start from the outside of the stain and work your way to the center. This method will keep the stain from spreading. Do not over saturate as this may cause delamination. No need to scrub, simply rub lightly or dab the stain.

You may have to repeat this procedure more than once to achieve desired results. Finish up with clean water, using the same method, and blot dry.

Steam cleaning is also an option. Again, take care not to over-saturate the material.

CABINETRY – CLEANING

Wooden items may be cleaned with a soft cloth and a good quality wood finish cleaning product.

Vinyl simulated wood panels may be cleaned with a mild, water-based cleaner and a soft cloth. Do not use solvents on vinyl wood panels.

NOTE: Many cabinetry and furniture items throughout this motor home are constructed either partially or completely of real hardwoods. Because of natural variations in woodgrain density, slight differences in stain hue may exist between one item and another. This is the distinctive character and beauty of real wood.

TABLES AND COUNTERTOPS

Work surfaces are covered with a plastic or thermo-formed laminate that resists solvents, stains, and abrasions. A coat of furniture wax applied to these surfaces on the counters and table will help preserve their beauty and make cleaning easier. Always clean the surface before applying wax.

STAINLESS STEEL APPLIANCES

-If Equipped

Care and Maintenance

You can easily maintain the beauty of your stainless steel appliances with little effort, under most circumstances, by performing the following recommendations.

Typically, excellent results can be obtained by washing stainless steel with mild dishwashing liquid and hot water, followed by rinsing thoroughly and drying with a soft cloth. Drying is particularly important if the tap water is very hard and leaves scale deposits.

Stainless steel does not deteriorate due to frequent cleaning, so proper cleaning can be performed whenever necessary. For more

stubborn stains, perform the following procedures for your stainless steel appliances to start shining again.

Scale

To remove scale left by water, simply use a multipurpose cream detergent and a soft cloth. Thicker scale may be removed by generously applying 25% vinegar and hot water solution to the stain. Rinse thoroughly with a sodium bicarbonate and water solution, then follow up by rinsing with water. Clean carefully.

Oil and Grease Stains

To remove oil and grease stains, use a mild dishwashing liquid and hot water. Rinse thoroughly with clean water and dry with a soft cloth. For more stubborn stains, ethyl alcohol, acetone, or another non-halogenated solvent may be used with care.

Stubborn Dirt and Burnt Grease

Use a multipurpose cream detergent and a soft cloth.

Coffee and Tea Stains

Prepare a sodium bicarbonate solution and hot water. Apply generously to stain and let sit for 15 minutes. Rinse thoroughly and dry with a soft cloth.

Rust Stains

Apply a multipurpose cream detergent and rub delicately with a soft cloth. If stain persists, it may be necessary to apply a stainless steel-specific product.

Fingerprints

Use a mild dishwashing liquid and warm water. Rub delicately with a soft cloth. Window cleaner may also be used.

Scratches

Apply a stainless steel-specific detergent/polisher and buff with a soft cloth.

Important “Don’ts”

- Do not use hydrochloric acid or any other detergents containing chlorides on stainless steel.

- Do not use abrasive powder detergents that could ruin the surface finish.
- Do not use wool, abrasive brushes, or tools that have previously cleaned other metals, because as well as scratching the surface, they can generate contamination and unattractive stains.
- Do not use silver cleaners.

GALLEY SINK

Care and Cleaning Instructions

The galley sink has been designed and engineered to resist scratches and should not stain under normal household use if used properly.

To keep this product looking its best, we recommend that you take a few easy precautions.



General Cleaning

Rinse all food and beverage residue from the sink as soon as possible. Some food and beverage residues, if left to sit in the sink, may require the use of detergent or an abrasive cleaner.

Hard-to-Remove Food and Beverage Residue

Use an abrasive cleanser such as Ajax[®], Comet[®], Bon Ami[®] or Bar Keeper's Friend[®] to remove mild stains and for routine cleaning. Use an abrasive pad such as Scotch-Brite[®] to remove most of the tougher stains.

For the most stubborn stains, fill the sink about one quarter full with a 50/50 solution of bleach and water. After 10 or 15 minutes of soaking, drain solution from the sink as you rinse both sides and bottom.

NOTE: Do not use steel wool or metal scouring pads.

Mineral Based Stains.

Cleaners designed to remove iron or rust should not harm the sink, nor will solvents such as denatured alcohol, mineral spirits, or acetone.

Marks or Discoloration

White automotive rubbing compound may be used to remove stubborn marks or discoloration. Use of these products will not damage the solid surface. Always follow label directions.

NOTE: Improper use may damage this product and void the warranty.

RANGE AND REFRIGERATOR

For care and appearance maintenance of the range and refrigerator, refer to the appliance manufacturer's operation and maintenance manuals included in your InfoCase.

VINYL FLOORING

Care and Maintenance

You can easily maintain the beauty of your vinyl flooring with little effort, by following these recommendations:

- Sweep or vacuum floor daily (use a vacuum without a beater bar head.) Remove loose dirt with a soft brush or Swiffer[®] type product.
- For more intense cleaning, use a non-abrasive cleanser, such as Mr. Clean[®]. Rinse with clean water.

NOTE: Floor cleaners containing waxes, brighteners, or gloss agents are not recommended.

- Regular cleaning with solvent-based chemicals may adversely affect the topcoat performance.
- Do not use undiluted bleach or leave a dilution of bleach on the floor for longer than one hour.

Maintenance Tips

- Install protection (such as pads or casters) on furniture with legs or sharp edges. This protection should not contain bitumen, which may cause brown stains.

NOTE: Faulty pads and casters should be removed and replaced.

- Burning cigarettes and matches can cause damage to the flooring.
- Use doormats (that do not contain bitumen) to keep out most of the dirt and dust.
- Remove spills immediately with a damp cloth, followed by rinsing with clean water.
- The use of stiletto heels is not recommended, as they may cause permanent damage to the flooring.
- Protect flooring from prolonged direct sunlight exposure.

Treatment of Stains

Acids, alkali, alcoholic beverages, coffee, soft drinks, ketchup, fruit, fruit juices, food, vegetables, mustard, ink, and iodine:

- Remove the stain with lukewarm water and a cloth or sponge. If necessary, clean with a soft nylon pad and non-abrasive mild detergent or resilient floor cleaner.

Heel marks:

- Clean as soon as possible with a soft nylon pad and non-abrasive mild detergent or resilient floor cleaner.

Asphalt, candle grease, chewing gum, fat, oil, tar, and shoe polish:

- Gently remove with a blunt instrument and treat with a soft nylon pad and non-abrasive floor cleaner.

Lacquer and nail polish:

- Remove as soon as possible. Do not allow to dry. If necessary, apply nail polish thinner (sparingly) to remove any residue.

Corrosion, paint, and grass stains:

- Treat as soon as possible with a soft nylon pad and non-abrasive mild detergent or resilient floor cleaner.

Varnish, oil paint, and solvents:

- Blot up as soon as possible. Do not rub, as this will only spread material further across the surface. Carefully treat with a mild cleanser. When dry, carefully peel the stain off. MEK may be used sparingly, if necessary. Rinse immediately with clean water.

Pet stains:

- Treat with lukewarm water. If stain remains visible, clean with a soft nylon pad and non-abrasive resilient floor cleaner.

BATHROOM

Toilet

For instructions on the care of your toilet, refer to the information in your InfoCase.

Tub and Shower Walls

The tub and shower walls in the bathroom should be cleaned with mild soap and warm water. Do not use an abrasive cleaner on the shower walls and tub, as scratching and discoloration may occur. Stubborn stains may be removed with an automotive-type cleanser.

Lavatory Sink

The lavatory sink is made of the same material as the galley sink. See *Galley Sink - Care and Cleaning Instructions* previously in this section.

DOORS AND WINDOWS

Windows may be periodically cleaned with a good quality glass cleaner or mild soap solution using a soft cloth.

Use care when removing ice or frost from the windows. Always use a plastic ice scraper, never one made of metal. Use care when removing ice from the mirrors to protect the reflective surfaces.

Door locks and hinges should be lubricated periodically with powdered graphite to ensure trouble-free operation and to protect against freeze-up.

VEHICLE STORAGE – PREPARATION

Properly preparing your vehicle for storage will lessen the possibility of damage to your vehicle. Prepare the motor home for vacancy just as you would if you were leaving your house for an extended period.

Clean and Prep Coach for Storage

1. Turn off the propane gas tank.
2. Turn the Electronic Thermostat switch OFF.
3. **Remove all foods and items that may cause odors from cabinets and refrigerator.**
4. Clean and defrost the refrigerator. Prop the door open slightly to allow any odors to dissipate. Place an open box of baking soda inside the refrigerator to help absorb odors.
5. **Fully charge the batteries. Batteries must have at least 80% charge to survive freezing temperatures and long period of non-use.** We recommend that you connect a battery charger or plug in the shoreline once a month during long-term storage periods to maintain battery charge and to avoid sulfating. If connecting a charger directly to batteries, turn the House/Coach Battery Disconnect switch off to avoid electrical arcing when attaching and detaching charge clamps.

NOTE: We do not recommend leaving the shoreline plugged in continuously during storage periods because the batteries can lose electrolytic fluids and become damaged from continuous charging without periodic use. We recommend following regular battery inspection and maintenance especially in cold weather. See “Battery Care” in Section 6 - Electrical.

6. After charging batteries, turn the House/Coach Battery Disconnect switch off to disconnect the batteries and avoid parasitic* drain.

** Parasitic battery drain is the gradual drain by items connected directly to battery power*

such as clocks, radio memory, and the engine computer.

7. Have the vehicle chassis completely serviced and lubricated. Be sure radiator antifreeze protection level is sufficient for the lowest anticipated temperatures.
8. Wash and wax the coach.
9. Inspect all seams and seals around doors, windows, vents, and any other joints. Replace or repair any that are damaged. Sealing materials and compounds can be purchased from your dealer. Badly damaged weather seals may need to be replaced by your dealer.
10. Close all windows and roof vents. Protect all appliance vent openings from contamination by animals or insects (e.g. bird nest, wasp nests, etc.)
11. Lubricate all door hinges and locks.
12. Clean the interior of the coach. Dirt and stains are more easily removed when fresh.

If you are storing your vehicle through the winter, or in cold climates, extra preparations must be made to protect equipment and systems that can be damaged by freezing temperatures. See “Winterizing Procedures” in *Section 7 - Plumbing*.

VEHICLE STORAGE – REMOVAL

1. Completely air out the motor home.
2. Have the entire LP gas system checked for leaks.
3. Check window operation.
4. Check cabinet and door hinges. Lubricate with penetrating oil, if necessary.
5. Close all faucets and drain valves that are open.
6. Add a few gallons of water to the fresh water tank and turn on the water pump to check for leaks, especially at fittings.
7. Open all faucets in turn to release trapped air and check to be sure faucet washers have not hardened during storage.

8. Sanitize the water system as outlined under *Disinfecting the Fresh Water System* in the Plumbing section, then flush the waterlines thoroughly with fresh water.
9. After flushing fresh waterlines, install a new water filter cartridge on the galley sink water filter and/or full-coach water filtration system (if equipped). See appropriate filter installation instructions in Plumbing section.

NOTE: Always purge a new filter with clean running water before using. See filter manufacturer's directions included with the filter cartridge.

10. Check the toilet for proper operation.
11. Add water to the holding tank using the toilet flush pedal and galley sink faucet. Check to be sure dump valves seal tightly.
12. Check around all appliances for obstructions and ensure that all vent openings are clear.
13. Start refrigerator and check for proper cooling.
14. Clean wall and counter surfaces.
15. Replace batteries, if necessary, and check out electrical system to make sure all lights and electrical components operate.
16. Check tires for proper cold inflation pressure. See "Vehicle Certification Label" in *Section 1 - Introduction*.
17. After washing accumulated winter grime from the vehicle, it is important to carefully inspect the seams and sealants for separation or cracks that may have appeared around the window frames, vents, and any other joints. See *Sealants – Inspection and General Information* at the beginning of this section. Resealing is quite simple and the material is quickly and easily applied. Appropriate compounds are available from your dealer. See the *Sealants – Recommended Application* page in the Supplement Manual provided in your InfoCase.
Also inspect weather seals around doors, etc., and if necessary, have a dealer replace immediately.

CHASSIS SERVICE AND MAINTENANCE

Consult the appropriate sections in your chassis manual for specific information regarding operating safety, service recommendations, and maintenance schedules for the chassis section of your motor home.

**SECTION 11 –
MAINTENANCE AND STORAGE**



COACH MAINTENANCE CHART

These recommendations apply for normal recreational use. Heavy duty or full-time use may require more frequent maintenance intervals.

Always use specified sections or manufacturer's guide for further information and instructions.	Before Each Use	Weekly	Monthly	Every 3 Months	Every 6 Months	Every Year	As Necessary
Propane Gas System							
Have propane gas system checked for leaks						◆	◆
Pressure Regulator - inspect and adjust if needed						◆	
Check propane tank condition, mounting, and fittings						◆	
Electrical System							
Check Battery Condition Meter	◆						
Check battery fluid level and connections			◆				
Check 12V fuses and 120V breakers							◆
Check GFCI receptacles			◆				
Generator							
Visually inspect generator and compartment	◆						
See generator manufacturer's maintenance guide							◆
Plumbing System							
Sanitize plumbing system							◆
Winterize plumbing system							◆
Clean water pump strainer filter						◆	◆
Slideout & Leveling System							
Check and adjust							◆
Check hydraulic oil level			◆				◆
Check hydraulic lines (routing, leaks, etc.)						◆	
Inspect slideout room seals (bulb seals), clean as necessary				◆			
Check and inspect electric slideout lock drain line(s)							◆
Exterior							
Clean roof				◆			◆
Clean sidewalls			◆				◆
Clean windows							◆
Flush underside of vehicle				◆			◆

COACH MAINTENANCE CHART

These recommendations apply for normal recreational use. Heavy duty or full-time use may require more frequent maintenance intervals.

Always use specified sections or manufacturer's guide for further information and instructions.	Before Each Use	Weekly	Monthly	Every 3 Months	Every 6 Months	Every Year	As Necessary
Safety Equipment							
Check operation of the following items:							
Headlights, Taillights, and Marker Lights	◆		◆				
Turn Signals	◆		◆				
Horn	◆		◆				
Hazard Warning Flashers	◆		◆				
Windshield Wipers and Washers	◆		◆				
Fire Extinguisher - check charge indicator	◆		◆				
Smoke Alarm - test operation *	◆		◆				
Carbon Monoxide Alarm - test operation *	◆		◆				
Propane Gas Leak Detector - test operation	◆		◆				
(*replace battery if needed)							
Appliances							
Water Heater							
See water heater manufacturer's maintenance guide							◆
Inspect and clean exterior vent	◆						◆
Refrigerator							
See refrigerator manufacturer's maintenance guide							◆
Inspect and clean exterior vent/drip tray drain tube	◆						◆
Furnace							
See furnace manufacturer's maintenance guide							◆
Inspect and clean exterior vent	◆						◆
Air Conditioner							
See A/C manufacturer's maintenance guide							◆
Inspect for exterior damage				◆			◆
Check/replace filter			◆				
Range Top							
See range manufacturer's maintenance guide							◆
Inspect and clean/replace range hood grease filter							◆

**SECTION 11 –
MAINTENANCE AND STORAGE**



COACH MAINTENANCE CHART

These recommendations apply for normal recreational use. Heavy duty or full-time use may require more frequent maintenance intervals.

Always use specified sections or manufacturer's guide for further information and instructions.	Before Each Use	Weekly	Monthly	Every 3 Months	Every 6 Months	Every Year	As Necessary
Sealants							
Inspect (see "Sealants - Inspection and General Information" at the beginning of this section for proper inspection technique)					◆		◆
Replace (see "Sealant Call-out Sheet" in the supplement manual provided in your InfoCase)							◆
Frame & Chassis							
Follow chassis manufacturer's maintenance guide (refer to chassis manual)							◆
Inspect hitch receiver (if towing)	◆						
Tires							
Check and adjust air pressure	◆						◆
Check tread wear	◆						◆
Check front end alignment and adjust if needed							◆
Miscellaneous							
Lubricate locks, hinges, and latches						◆	◆

SECTION 12 – MISCELLANEOUS

LOADING THE VEHICLE

NOTE: Your motor home's load capacity is designated by weight, not by volume, so you cannot necessarily use all available space when loading your motor home.

- Store or secure all loose items inside the motor home before traveling. Possible overlooked items such as canned goods or small appliances on the countertop, cooking pans on the range, or free-standing furniture items can become dangerous projectiles during a sudden stop or evasive maneuver.
- Be aware of GVWR, GAWR, and individual load limit on each tire or set of duals.

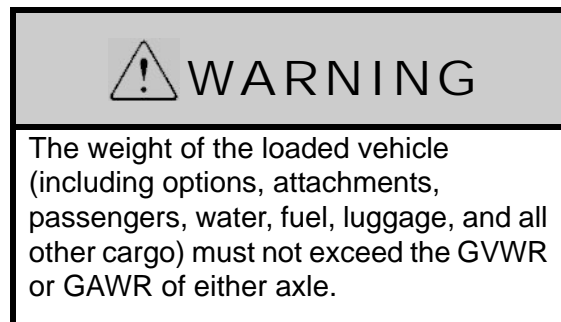
When loading the vehicle, distribute the cargo load equally so that you do not exceed either the Front or Rear Gross Axle Weight Rating (GAWR) or the Gross Vehicle Weight Rating (GVWR). The Gross Axle Weight Rating (GAWR) means the weight value specified by the chassis manufacturer as the load carrying capacity of a single axle system as measured at the tire-to-ground interfaces. This is the total weight a given axle is capable of carrying. Each axle has its own rating.

Have your vehicle weighed to determine the proper load distribution for your vehicle. Also distribute cargo side-to-side so the weight on each tire or dual set does not exceed one half of the GAWR for either axle.

For example, if the Front GAWR is 6,000 lbs., there should be no more than 3,000 lbs. on each tire. (If the left side weighs 3,100 lbs. and the right side weighs 2,700 lbs., at least 100 lbs. of the load must be shifted from the left side to the right side.) The GVWR is listed on the Vehicle Certification Label. (See sample in Specifications section).

The GCWR (Gross Combination Weight Rating) means the maximum allowable loaded weight of this motor home and any towed trailer or towed vehicle.

NOTE: We recommend that you dump all holding tanks before traveling to avoid carrying unnecessary weight.



WEIGHING YOUR LOADED VEHICLE

To check the weight of your fully loaded coach, locate a commercial weighing scale that is capable of weighing large trucks.

NOTE: Sales literature may give approximate or standard weights. Your actual coach weight may differ based on added factory and/or dealer options.

Loading

Load your vehicle completely as if you were going on a long trip with everything you would carry, including food, clothing, bedding, lawn chairs, etc., a full fuel tank, full propane tank, and a partial tank of fresh water, but empty holding tanks.

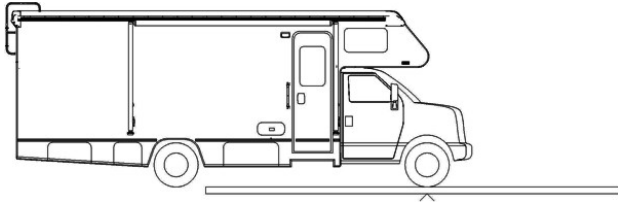
Finding a Scale

In urban areas, the most common places to find a public access scale are commercial truck stops. In rural areas, most grain storage elevators have scales available. Most scales charge a nominal fee for weighing a vehicle.

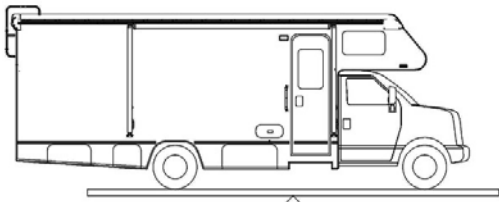
Weighing

There is typically a scale operator to direct you, but the basic routine is to take three separate weights - front axle, whole vehicle, and rear axle.

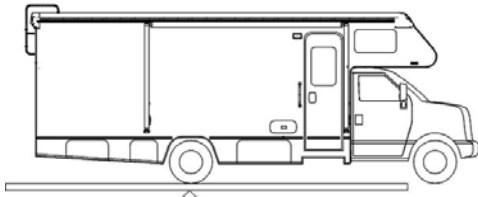
You will first drive only your front wheels onto the scale pad, then drive ahead so that the whole vehicle is on the scale, then finally pull off until just the rear wheels are on the pad.



Front GAWR (Front Axle Only)



GVWR - Whole Vehicle (All Axles)



Rear GAWR (Rear Axle Only)

You will receive a weight “ticket” that states your current Front Gross Axle Weight, Rear Gross Axle Weight, and Gross Vehicle Weight. You can compare these weights to the weight ratings listed on your Vehicle Certification Label to use as a guideline for future loading limits and weight distribution.

The gross weight of the vehicle must not exceed the Gross Vehicle Weight Rating (GVWR) specified on the Vehicle Certification Label. The front and rear axle weight also should not exceed the corresponding Axle Weight Rating specified on the Vehicle Certification Label.

Corner Weighing (Side-to-Side)

The most accurate method of weighing a motor home is to weigh each “corner” of the coach separately (single L/R front wheels or L/R rear dual sets.) This method will help you determine how to distribute your cargo to avoid overloading, especially on tires.

To determine the weight distribution on each tire or dual set, you will need to find a scale capable weighing side-to-side, or all four “corners” of the vehicle separately.

A truck scale may be used if the ground is level with the scale surface and the scale has clearance to drive one side of the coach onto the scale as shown.

Drive the coach on the level area next to the scale and straddle the scale so that only one side of the coach will be on the scale pad.

NOTE: Wind and precipitation can also cause weight inaccuracies.

Pull only the right front wheel onto the scale pad as shown.



Weighing Right Front Corner

When the front wheel has been weighed, pull the coach straight ahead until only the right rear wheel/dual set is on the scale pad as shown.



Weighing Right Rear Corner

Now, turn the coach around and repeat the process for the other side.

The load on each wheel or dual-wheel set should not exceed one-half of the corresponding GAWR. For example, if the GAWR for the rear

axle is 12,000 lbs., then the load on each rear dual set (left rear duals or right rear duals) should not exceed 6,000 lbs.

Tires must be filled to the recommended air pressure for the highest loaded tire set on that axle. For example, on the rear axle, if the left side weighs more than the right, fill the left tires to the pressure required for that weight, then fill the right tires to the same pressure as the left ones.

If your actual weight is considerably less than GAWR, you may be able to lower your tire pressure. See a tire dealer for a load/pressure chart.

NOTE: The Hitch Load from a Towed Vehicle or carrier box must also be counted on the Rear GAWR and subtracted from the rear axle cargo capacity.

Be aware that hitch load can affect handling characteristics. The more weight on the hitch, the lighter the front end will feel at the steering wheel.

CAR OR TRAILER TOWING

Hitch Capacity*

5,000 lbs. max.

Tongue Weight*

350 lbs. max.

The factory installed towing hitch on this coach is capable of pulling 5,000 lbs. load (max.), however, the vertical (tongue) weight may vary according to chassis and model combinations (*see label on hitch). Towing capacity may be less than hitch rating.

When towing a trailer or vehicle, do not exceed either the GVWR, the rear axle GAWR, or the chassis GCWR by the combined loaded weight of the coach and the towed vehicle. See preceding items “Loading the Vehicle” and “Weighing Your Loaded Vehicle” for explanation of weight ratings.

Because of individual vehicle use and loading habits, we recommend weighing the vehicle while fully loaded to avoid exceeding any of the

listed Gross Weight Ratings. See “Vehicle Certification Label” in the Introduction section for information on gross weight ratings.

Towing will affect vehicle handling, durability, and fuel economy. Exceeding any of the listed Gross Weight Ratings will result in unacceptable overall vehicle performance. Maximum safety and satisfaction when towing depends on proper use of correct equipment.

When towing a vehicle behind your motor home, the tow bar should be level or pointing slightly upward towards the tow vehicle.

When coupling the vehicle tow bar to the Factory Receiver Hitch using a “drop receiver” or a conventional “ball mount” (commonly referred to as a “stinger” or a “draw bar”), do not exceed a 4” drop, nor one that the centerline of the hitch pin to the centerline of the ball exceeds 8”. See the following Hitch Assembly illustration.

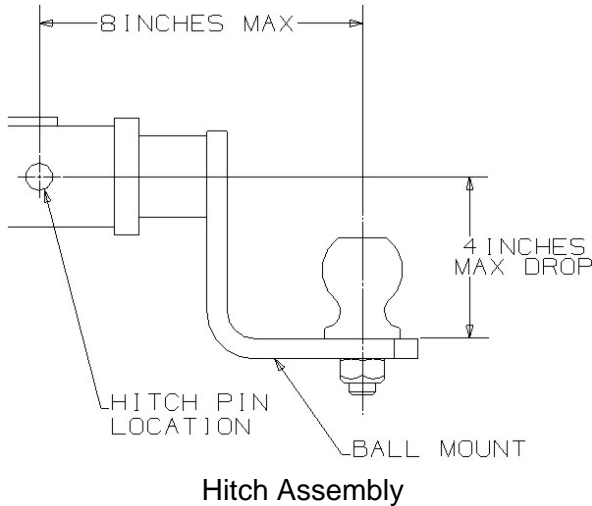
If a towing “brake system” is required, we recommend that a “modulated” towed vehicle braking device be installed. This means that when the motor home brakes are applied, whether hard or soft, a mirror effect occurs in the braking of the towed vehicle. In other words, the more force applied to the motor home brakes, the more force will be applied to the rear vehicle’s braking system.

We do not recommend the usage of a “surge-style” braking device. The usage of a surge brake (especially when coupled with a hitch ball located outside our recommended limits) places excessive stress on the hitch. This abuse of the ball mount and the hitch may cause premature hitch assembly failure.

Finally, do not forget to consider the actual tongue weight. This should not exceed the stated hitch vertical load for your vehicle. This weight is typically defined as the tongue weight of a towed vehicle hitch, boat trailer tongue weight, or a receiver-mounted carrier rack.

Check state regulations on trailer weight and trailer brake requirements to be sure you select the right equipment before towing.

Before descending a steep or long grade when towing a trailer, reduce speed and shift into a lower gear to control vehicle speed. Avoid prolonged or frequent application of brakes, which could cause overheating and brake failure.



! WARNING

For safe towing and vehicle handling, maintain proper trailer weight distribution. The total weight of the motor home and the vehicle towed must not exceed the Gross Combined Vehicle Weight rating. See the Body and Chassis Specification chart in the Introduction section.

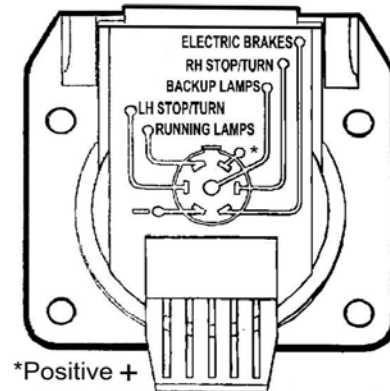
NOTICE

Exceeding any of the recommended gross vehicle weight ratings may result in vehicle damage. Do not install a frame equalizing-type hitch on your vehicle.

**TRAILER WIRING
CONNECTOR**

Your coach is pre-wired for trailer or car towing lights with a 7-pin socket. The connector plug is supplied in the coach parts package provided to you by your dealer when you took delivery of the vehicle.

The following diagram shows proper connection of trailer or tow vehicle wiring to the coach light system. The “pigtail” assembly with the (car/trailer end) connector plug should be wired by a qualified technician. Provision for an electric brake controller is located near the steering column.



TOWING GUIDELINES

Gross Vehicle Weight Rating (GVWR)

This is the maximum allowable weight of the fully loaded vehicle. Included are fuel, water, LP, passengers, cargo, tools, and optional equipment installed by the motor home manufacturer, dealer, or owner. This value is found on the VIN label, typically placed near the driver position.

Gross Axle Weight Rating (GAWR)

This is the total weight a given axle is capable of carrying, measured at the ground. Each axle has its own rating. These values are also found on the Vehicle Certification Label: front and rear.

Gross Combination Weight Rating (GCWR)

This is the maximum allowable weight of the motor home and loaded trailer, including the items noted in GVWR above. For purposes of this definition, the “trailer” can be a trailer, a vehicle towed on a dolly, or a vehicle towed by means of a tow bar. GCWR is typically specified based on durability and performance of the tow vehicle drive train: engine and cooling systems, transmission, drive line, drive axle, and others. The tow vehicle brakes may be rated for operation at GVWR, not GCWR.

*NOTE: State or provincial laws/regulations may require the “trailer” to be equipped with brakes that are activated when the motor home brakes are applied. **The user is responsible to know and understand the laws of the state or province being traveled.** The Department of Transportation in a given state or province should be able to provide specific information.*

Hitch Ratings

SAE Standard J684 defines:

- Class 1 trailers as “GVWR not to exceed 2,000 lbs”.
- Class 2 trailers as “GVWR over 2,000 lbs. and not to exceed 3,500 lbs. GVWR”.
- Class 3 trailers as “GVWR over 3,500 lbs. and not to exceed 5,000 lbs. GVWR”.
- Class 4 trailers as “GVWR over 5,000 lbs. and not to exceed 10,000 lbs. GVWR”.

Hitches are to be permanently marked with “Maximum trailer GVWR to be drawn” and “Maximum vertical tongue weight to be imposed.” The SAE standard does not specify a vertical load rating.

Traditionally, hitches are labeled 3,500/350 as Class 2, 5,000/500 as Class 3, and 10,000/1,000 as Class 4. The vertical tongue load value of 10 percent of drawn rating comes from the collective experience that 10 percent is the minimum value that provides stable towing of a trailer.

Ford’s towing guide suggests 10 to 15 percent for trailers over 2,000 lbs. Within GCWR, a Class 3 hitch allows “dingy” towing a large car or mid-size SUV; a Class 4 hitch allows “dingy” towing a large SUV or pickup. (Hitch ratings are independent of towing vehicle ratings.)

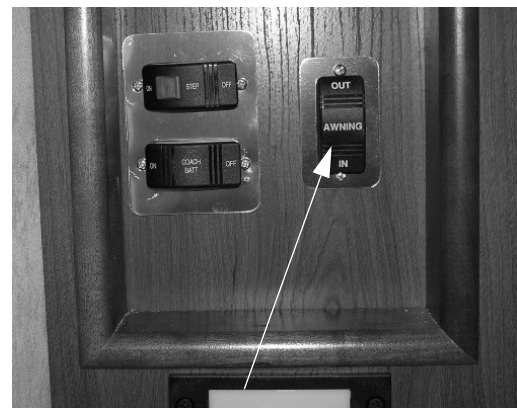
NOTE: Some Winnebago Industries® models equipped with a Class 3 hitch may have a label limiting vertical tongue load to 350 lbs. All Winnebago Industries models equipped with a Class IV hitch have a label limiting vertical tongue load to 500 lbs. On a 228" wheelbase, a 500-lb. load on a hitch 11' from the rear axle will apply about 800 lbs. at the axle.

The user must verify that the hitch equipment being used is adequate for the application.

POWER AWNING

–If Equipped

The awning control switch is located near the entrance door.



Awning Control Switch
(Located near entrance door)
-Typical View

Operating the Awning

- Press the Awning Control Switch IN or OUT to extend or retract the awning as desired.

Ignition Lockout System

The ignition lockout system will disable the extend function while the vehicle ignition key is in the On position. With this feature, the awning

will only extend when the vehicle ignition key is in the Off position. The awning can retract anytime regardless of the ignition key position.

Further Information

For complete operating instructions, features, safety precautions, and maintenance care, refer to the awning manufacturer's information provided in your InfoCase.

STORAGE COMPARTMENT DOORS

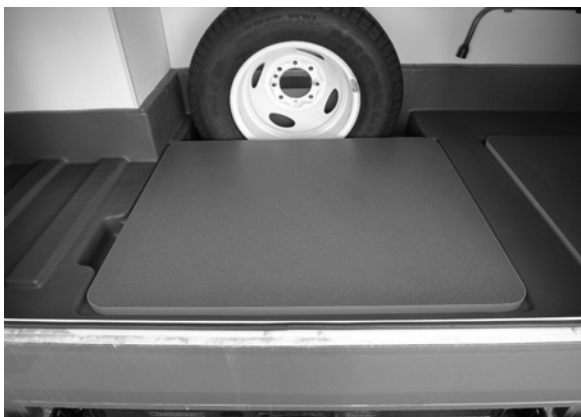
The high-density gaskets used on the exterior storage compartments are designed to provide a more positive seal against dust and weather.

To ensure that exterior storage compartment doors have latched properly, press firmly on the bottom edges of the doors with the palms of your hands while twisting latches.

STORAGE COMPARTMENT COVER/FOLDING TABLE

-If Equipped

Depending on model, your coach may be equipped with a rear storage compartment cover that converts easily into a folding table for your convenience. The cover/table is located in the rear storage compartment.



Storage Compartment Cover/Folding Table
(Located in rear compartment)
* Models 26Q and 31C only

TOOL AND LADDER STORAGE

The roof ladder extension and various tools supplied with your coach are stored in one or more of the exterior storage compartments.

NOTE: Actual features and locations may vary depending on model, available equipment, and storage compartment configuration.

ROOF LADDER

-If Equipped



The ladder on your vehicle is provided for limited access to the roof.

Walking or working on the roof should be left to qualified service personnel using proper safety equipment in a safe environment. You should only walk or work on the roof if you are qualified and have created a safe environment.

For your safety, it is not recommended that you store or carry items on the roof.

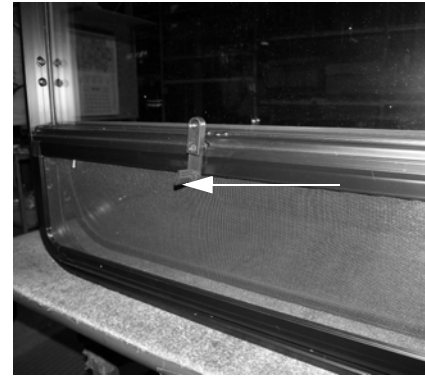
Before Using the Ladder

- **Inspect the ladder** to make sure it is not damaged. Never use a damaged ladder.
- **Keep the rungs of the ladder clean and dry** while in use. Never use the ladder when it is raining, snowing, or icy. The rungs can become slippery. Do not step onto the rungs if the rungs are wet, or if your shoes are wet or carry mud or debris that could result in a loss of footing.
- **Never ignore warning labels** or weight limits defined on your ladder. The following warning label is located on or near the ladder:

WARNING

Do not exceed 225-lb. maximum weight capacity. Misuse of ladder could result in death or serious injury. See Operators Manual before using ladder.

- **Maximum Capacity: 225 lbs.**
- **Do not overload.** Ladder is intended for one person.
- **Make sure you are physically capable** to safely use the ladder. Strength, flexibility, and stability are required.
- **Be aware that the vehicle may sway** as you climb the ladder. Do not use the ladder in high winds.
- **As you climb the ladder,** grasp the side rails firmly and always use both hands. Keep your body centered between the side rails. Do not over-reach.
- **Never allow children** on the ladder.
- **Do not transport items** anchored to the ladder. You could damage the ladder.



- To close, crank the window in snugly (by turning the crank-out handle clockwise), then back off 1/4 turn to help avoid glass warping, which can result in wind noise.
- Push the lever back in on the crank-out handle and lay back in the horizontal position.

If the window will not open after three or more full turns of the knob, the glass may be stuck to the sealing gasket. Go to the outside of the coach and gently free the glass with your fingers. A periodic light dusting of talcum powder on the gasket should prevent this from recurring.

WINDOWS

Crank-Out Windows

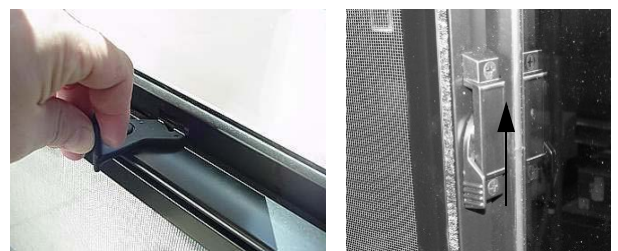
- Turn the crank-out handle from the horizontal position to the vertical position.



- Pull out the lever on the crank-out handle and begin cranking out the window counter-clockwise to the position desired.

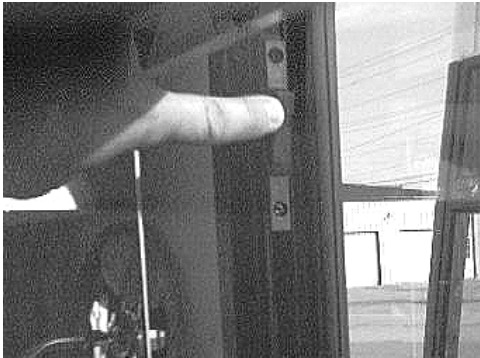
Horizontal Slider Windows

Swing the latch handle straight out or up (depending on the style of window). Grasp the sliding window edge frame and slide the window to the side. Be sure the latch is open before trying to slide the window closed.



Vertical Slider Windows

Vertical windows have spring-loaded catches on both sides of the window that pop out to hold the window in its fully raised position. Press the catches outward toward the frames while lowering the window.



Vertical Window Catches

POWER ROOF VENTILATOR

Lounge, Galley, or Bath Area

–If Equipped

The vent dome is raised and lowered using the Dome Crank knob on the fan.

The turbine fan will start automatically as the vent is raised, and stop as the vent is lowered.

Dome Crank Knob Fuse Fan Speed Selector



Power Roof Ventilator

To Operate Ceiling Ventilator

1. Turn the Dome Crank Knob to raise the dome about 3" or more to allow the turbine fan to operate. *(A built-in safety switch will not let the fan motor run unless the dome is partially open).*

2. The turbine fan will start automatically as the vent dome is raised and stop as the vent dome is lowered and closed. *(Fan Speed knob must be in a position other than 0-Off).*
3. Turn the Fan Speed knob to the desired level (1-Low, 2-Med, 3-Hi).
4. Open a window or door to provide airflow. Direction of airflow is determined by which window or door is opened.

NOTE: For best results, close all other roof vents, windows, and doors, then open one (1) window the farthest distance from the roof ventilator. The fan speed selector on the fan allows you to adjust the amount of circulation you need at any time.

5. If you want the vent dome raised without the fan running, turn the Fan Speed knob to 0-Off.

Further Information

See the power ventilator manufacturer's operating instructions supplied in your InfoCase for further instructions, care, and cleaning information.

EFFECTS OF PROLONGED OCCUPANCY

Your motor home was designed primarily for recreational use and short-term occupancy. If you expect to occupy your coach for an extended period, be prepared to deal with condensation and humid conditions that may be encountered.

Humidity and Condensation

Moisture condensing on the inside of windows is a visible indication that there is too much humidity inside the coach. Excessive moisture can cause water stains or mildew, which can damage interior items such as upholstery and cabinets.

When you recognize the signs of excessive moisture and condensation in your coach, you should take immediate action to minimize their effects.

You can help reduce excessive moisture inside the motor home by taking the following steps:

Ventilate with outside air

Partially open one or more windows and a roof vent to circulate outside air through the coach. In cold weather, this ventilation may increase use of the furnace, but it will greatly reduce the condensation inside the coach.

Minimize moisture released inside the coach

Run the range hood fan while cooking and open a bath vent while bathing or showering to carry water vapor out of the coach. Avoid making steam from boiling water excessively or letting hot water run. Avoid bringing extra moisture into the coach by way of soaked clothing or snow on shoes. Do not hang-dry wet overcoats or clothing inside the coach.

Impulse

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