

**FORZA**



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# SECTION 1 – INTRODUCTION

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Congratulations! We welcome you to the exciting world of motorhome 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.

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 motorhome.

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## 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 motorhome 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 motorhome 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 motorhome.

*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 references are made to the vehicle chassis manual that is provided by the manufacturer of the chassis on which this motorhome is built.

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

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## SAFETY MESSAGES USED IN THIS MANUAL

Throughout this manual, certain items are labeled Danger, Warning, Caution, Notice, 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.

## SECTION 1 – INTRODUCTION

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### **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.*

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## **PRE-DELIVERY INSPECTION**

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

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

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## **BEFORE DRIVING**

Familiarize yourself with State/Province and local regulations before traveling. There are many local rules that may impact your travels.

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## **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.

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## **HEADLIGHT ALIGNMENT**

Headlights on this motorhome were aligned at the factory in an unloaded state. We recommend you have the high and low beam alignment checked after fully loading the vehicle to your needs. Thereafter, have the alignment inspected periodically to maintain visibility.

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## **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 motorhome. 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.

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## **REPORTING SAFETY DEFECTS**

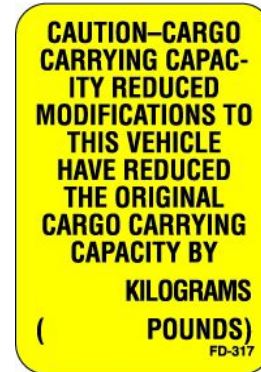
If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Winnebago Industries, Inc.

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, Inc.

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

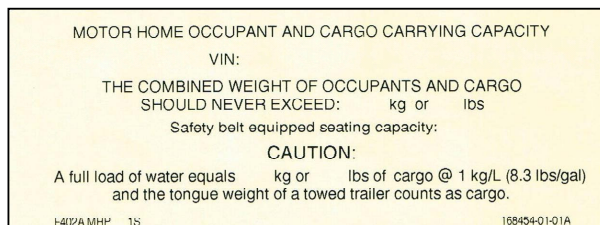
Administrator, NHTSA  
1200 New Jersey Avenue S.E.  
Washington, D.C. 20590

You can also obtain other information about motor vehicle safety 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 motorhome 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 in the following photo will be affixed inside your motorhome.

# SECTION 1 – INTRODUCTION

## 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: FRT 5 LB KG RR _____ LB KG	6	SUITABLE TIRE AND RIM CHOICE TIRE	7	RIM
	_____	_____	8	PSI
		_____	_____	KPA
		_____	9	PSI
		_____	_____	KPA
THIS VEHICLE HAS BEEN COMPLETED IN ACCORDANCE WITH THE PRIOR MANUFACTURER'S IVD, WHERE APPLICABLE. THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.				
SERIAL NO. 10 XXXXX XXXX XX XX/XX/XX XXX-XXXXX	VIN	11	TYPE	12
	_____	_____	_____	13
		14	15	XXXXXX-XXX

### EXPLANATION OF DATA

1. Chassis manufacturer.
2. Chassis manufacture date.
3. Month and year of manufacture at Winnebago Industries®.
4. Gross Vehicle Weight Rating: Total permissible weight of the vehicle, including driver, passengers, total cargo carried (including all liquids), and equipped with all options.
5. Gross Axle Weight Rating: Total permissible weight allowed for the front and rear axles (listed in pounds and kilograms).
6. Suitable Tire Choice: Tires recommended to meet handling and safety requirements. When replacing any of the tires on your vehicle, always replace with a tire that meets these specifications.
7. Suitable Rim Choice: Wheel rims recommended to meet handling and safety requirements. When replacing any of the rims on your vehicle, always replace with a rim that meets these specifications.
8. Cold Inflation Pressure: Inflation pressures at Gross Axle Weight Ratings recommended (while cold) for the tires originally equipped on your vehicle. These pressure levels must be maintained to assure proper handling, safety, and fuel economy.
9. Rear Axle Wheel Configuration: Single or Dual as it relates to the inflation.
10. Serial Number: This is the serial number assigned to the completed vehicle by Winnebago Industries.
11. Vehicle Identification Number (VIN): This number identifies the chassis on which the motorhome is built. The 10th digit of the VIN designates the chassis model year (J=2018, K=2019, L=2020 etc.). This information is useful when ordering chassis repair parts.
12. Type: States the NHTSA designated usage classification for your motorhome. MPV signifies a Multi-purpose Passenger Vehicle.
13. Color: Signifies the color code number of the decor used throughout the vehicle. This number is necessary for ordering replacement cushions, curtains, carpet, etc.
14. Winnebago® model year and series/family name.
15. Model: Lists the Winnebago product model number of your vehicle.

## **SPECIFICATIONS AND CAPACITIES**

	34T	36H	38W
	Freightliner® XCS 26,000 lb. Chassis	Freightliner® XCS 27,910 lb. Chassis	Freightliner® XCS 29,410 lb. Chassis
Feature Number	1BN	1BP	1BQ
Length	35' 6"	38' 2"	39' 11"
Exterior Height <sup>1</sup>	12'	12'	12'
Exterior Width <sup>2</sup>	8' 5.5"	8' 5.5"	8' 5.5"
Exterior Storage <sup>3</sup>	153 cu. ft.	222 cu. ft.	228 cu. ft.
Awning Length	17' 2"	11' 9"	20'
Interior Height	6' 8"	6' 8"	6' 8"
Interior Width	8' 0.5"	8' 0.5"	8' 0.5"
Freshwater Tank Capacity <sup>4</sup>	84 gal.	84 gal.	100 gal.
Water Heater Capacity	10 gal.	10 gal.	10 gal.
Holding Tank Capacity - Black <sup>4</sup>	48 gal.	48 gal.	49 gal.
Holding Tank Capacity - Gray <sup>4</sup>	54 gal.	44 gal.	48 gal./51 gal.
Propane Capacity <sup>5</sup>	97.29 lbs.	97.29 lbs.	97.29 lbs.
Wheelbase	208"	236"	260"
GVWR	26,000 lbs.	27,910 lbs.	29,410 lbs.
GAWR - Front	10,410 lbs.	10,410 lbs.	10,410 lbs.
GAWR - Rear	17,500 lbs.	17,500 lbs.	19,000 lbs.
GCWR <sup>6</sup>	33,000 lbs.	33,000 lbs.	33,000 lbs.
Fuel Capacity	90 gal.	90 gal.	90 gal.

**Notes:**

All information is based upon the most recent data available. Visit the Winnebago Industries, Inc. web page – [www.winnebago.com](http://www.winnebago.com) – for the most current product information.

<sup>1</sup> 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.

<sup>2</sup> 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.

<sup>3</sup> 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.

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

<sup>5</sup> 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.

<sup>6</sup> 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**

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**OWNER AND VEHICLE INFORMATION**

**OWNER INFO**

Owner's Name(s) \_\_\_\_\_

Address \_\_\_\_\_

\_\_\_\_\_

**VEHICLE INFORMATION**

Motorhome Model Number \_\_\_\_\_

Motorhome 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: Never place the shoulder belt behind your back or under your arm. Adjust the lap belt across your hips/pelvis, and below your belly. Place the shoulder belt across your chest (between your breasts) and away from your neck.
- 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.



### WARNING

Operating, servicing and maintaining this vehicle can expose you to chemicals including engine exhaust, carbon monoxide, phthalates, and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, avoid breathing exhaust, do not idle the engine except as necessary, service your vehicle in a well-ventilated area and wear gloves or wash your hands frequently when servicing your vehicle. For more information go to [www.P65Warnings.ca.gov/passenger-vehicle](http://www.P65Warnings.ca.gov/passenger-vehicle).



## SECTION 2 – SAFETY AND PRECAUTIONS

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### DRIVING SAFETY



#### WARNING

This motorhome has been designed, manufactured and tested with concern for the protection of it's occupants. We recommend you perform the following inspections for your safety and the safety of your passengers before starting your vehicle.

1. LP GAS SYSTEM - Turn off at tank for traveling. Test for leaks upon arrival at destination before lighting pilots.
  2. WHEELS - Inspect for damage and check lug nuts for tightness.
  3. TIRES - Inspect for wear and damage and check for recommended air pressure.
  4. LIGHTING - Test for proper operation of all interior and exterior lights including dash lights, headlights, tail lights, brake lights, clearance lights, and turn signals.
  5. EXITS - Inspect release mechanism on emergency exit window, test both locks on main entrance door for ease of operation and instruct passengers how to use both means of exit.
  6. SEAT BELTS - Direct passengers to designated seats, be certain swivel seats are locked into position, and require use of a seat belt. See operator's manual for occupancy and weight restrictions.
  7. APPLIANCES - Turn off and latch or lock doors where provided.
  8. LOOSE PARCELS - Store securely.
  9. UTILITY SUPPLY LINES - Disconnect all electrical, sewer and water lines and secure properly.
  10. ENTRANCE DOOR STEP - Assure step is in retracted position for traveling.
- Read your motorhome and chassis owner's manual for further precautions.

- 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 complete and related information on driving your vehicle.
- Doors - Verify all interior and exterior doors are shut and/or stowed and latches are in place where provided.

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### 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. Can cause ignition of flammable vapors, which can lead to a fire or explosion and result in death or serious injury.





 **WARNING**


Do not fill propane container(s) to more than 80 percent of capacity. A properly filled container contains approximately 80 percent of its volume as liquid propane. Overfilling propane container(s) can result in uncontrolled propane flow, which could lead to a fire or explosion and result in death or serious injury.

 **WARNING**


Do not place propane cylinders inside the vehicle. Propane cylinders are equipped with safety devices that relieve excessive pressure by discharging propane to the atmosphere. Propane gas is highly flammable. Can lead to a fire or explosion and result in death or serious injury.

- Do not place or store gasoline or other flammable liquid containers inside the vehicle.
- All pilot lights must be extinguished and appliances turned off while refilling the fuel tank or propane gas tank.
- Never smoke while refilling vehicle fuel tank or propane gas tank.
- 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 the door is latched securely.
- Never connect natural gas to the propane gas system.
- **Do not** turn burner controls to “On” and allow gas to escape before using ignitor or lighting a 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.
- Propane 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.

 **DANGER**

Do not use gas cooking appliances for comfort heating. Can lead to carbon monoxide poisoning, which can lead to death or serious injury.

 **WARNING**

Gas cooking appliances need fresh air for safe operation.  
Before operating:  
Open vents or windows slightly or turn on exhaust fan prior to using cooking appliance. Gas flames consume oxygen, which should be replaced to ensure proper combustion. Improper use can 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 appliance(s) avoids dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating, as the danger of



## SECTION 2 – SAFETY AND PRECAUTIONS

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

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### PROPANE GAS LEAKS

Check propane gas system for leaks yearly, or as necessary.

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.

DANGER

**IF YOU SMELL PROPANE**

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

Ignition of flammable vapors could lead to a fire or explosion and result in death or serious injury.

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### PROPANE GAS LEAK DETECTOR

Your motorhome is equipped with a Propane Gas Leak Detector, similar to the one shown in the following photo. The leak detector sounds an alarm if an unsafe amount of propane gas is present inside the motorhome.



Propane Gas Leak Detector

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 Disconnect 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.

### 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

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

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## CARBON MONOXIDE WARNING

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

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 motorhome 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.

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## CARBON MONOXIDE ALARM


Your motorhome is equipped with a Carbon Monoxide (CO) Alarm, which 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.

To reduce the risk of carbon monoxide poisoning, test this alarms operation after the motorhome has been in storage, before each trip, and at least once per week during use by pressing the Test/Reset button on the alarm.



Carbon Monoxide Alarm

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

### 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.



## SECTION 2 – SAFETY AND PRECAUTIONS

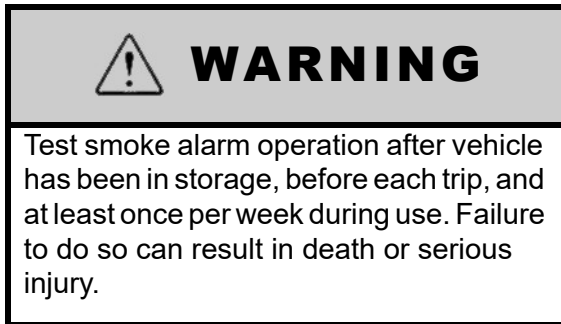
### SMOKE ALARM

Your motorhome 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.



### 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.

### Expiration and Further Information

See the manufacturer's information in your InfoCase for smoke alarm expiration and further instructions.

### FIRE EXTINGUISHER

A dry chemical Fire Extinguisher is located near the main entrance door.

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 extinguisher is past its expiration date or 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 motorhome. 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.

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## **LOADING**

- Store or secure all loose items inside the motorhome 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 - Miscellaneous*).
- Never load the motorhome in excess of the gross vehicle weight rating or the gross axle weight rating for either axle.

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## **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 leveling system (if equipped), or a jack only.
- Always release the air prior to getting under the vehicle (if equipped).

- 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.
- Refer to the chassis manual for complete maintenance precautions and recommendations.

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## **EMERGENCY EXITS**

### **Escape Window**

The escape window is secured by two red safety latches at the bottom or side 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 both red safety latch handles UP  
and push window OUT)  
\*Model 38W  
-Typical View



Escape Window  
(Lift both red safety latch handles UP  
and push window OUT)  
-Typical View



## SECTION 2 – SAFETY AND PRECAUTIONS



Escape Window  
(Lift both red safety latch handles UP  
and push window OUT)  
-Typical View

### Using Slider Windows As Emergency Exits

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



Slider Window Latch  
(Lift latch UP and slide window open)  
-Typical View

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

To use slider windows as an exit:

- Lift window latch UP.
- Slide the window open.
- Either slide the screen open or push the screen material out, depending on window construction.

### 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

Your motorhome 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.

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

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.



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## 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.

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## MOLD, MOISTURE, AND YOUR MOTORHOME

### 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 motorhome, it is natural for a motorhome 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.

Minimize moisture in your motorhome 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 motorhome. Plants, cloths, books, and other household items may already have mold present. It is easy to transfer mold into your motorhome environment.

Monitor your motorhome. 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 motorhome as a result of a manufacturing defect reported to Winnebago



## SECTION 2 – SAFETY AND PRECAUTIONS

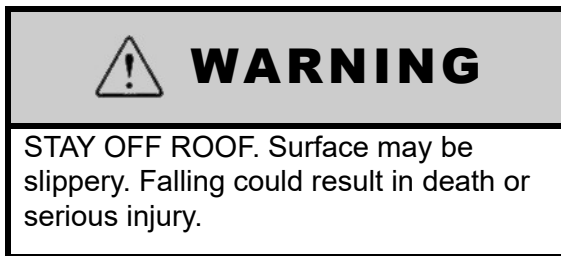
Industries within the limited warranty period, Winnebago will clean the affected area(s) and/or replace affected items as it deems necessary. This is the extent of coverage provided by Winnebago Industries. Winnebago Industries, however, will not assume responsibility for mold deemed to be a result of a motorhome 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.

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### 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.

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### 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.

### Recovery Towing

When calling a professional towing service, we recommend that you advise them of your motorhome 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.

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

*NOTE: Consult your chassis manual for towing instructions or precautions provided by the chassis manufacturer.*





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

### **NOTICE**

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



### **WARNING**

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

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## **JUMP STARTING**

To jump start the engine using another vehicle or booster system, see the chassis manual for connecting jumper cables to the automotive electrical system.

### **NOTICE**

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

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## **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.



# SECTION 3 – DRIVING YOUR MOTORHOME

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 motorhome.

## 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 transmission, parking brakes, cruise control, gauges, wipers, lights, etc.

## SEATS – DRIVER/CO-PILOT

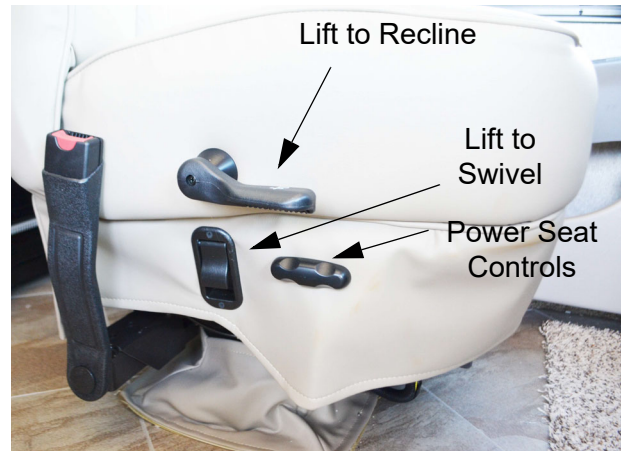
The driver and co-pilot seats may be independently adjusted to suit individual preference.

The seats may be swiveled to provide easy entrance and exit. The swivel feature also allows the seats to be turned toward the living area for additional seating while the vehicle is parked.

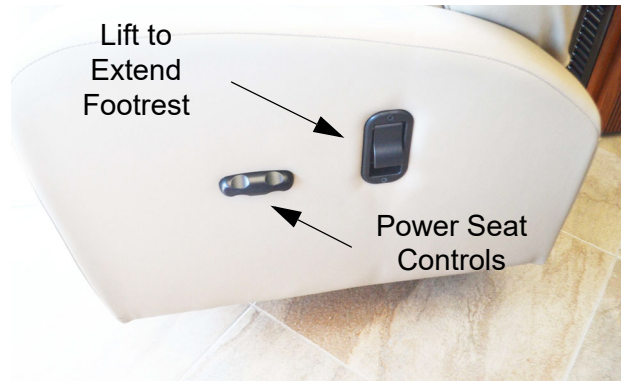


### WARNING

Assure seat is in its forward and locked position for travel. Do not adjust seat while vehicle is in motion. Failure to comply may result in injuries.

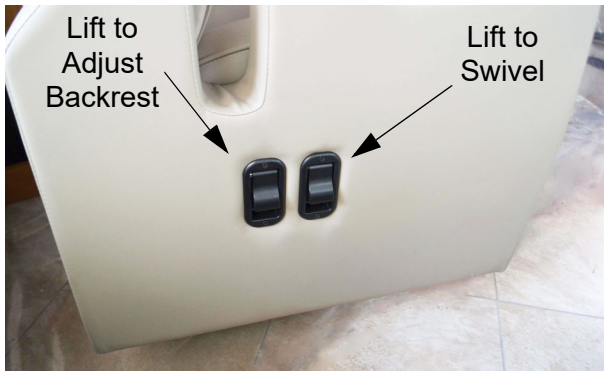


Driver Seat  
(right hand side of seat)  
-Typical View



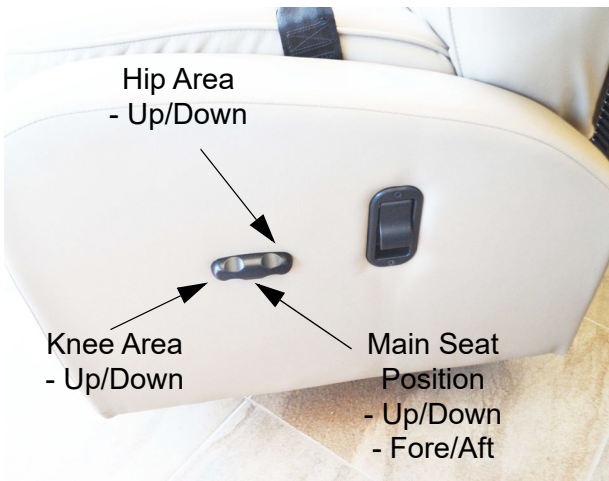
Passenger Seat  
(left hand side of seat)  
-Typical View

## SECTION 3 – DRIVING YOUR MOTORHOME



Passenger Seat  
(right hand side of seat)  
-Typical View

### Multi-Adjustable Power Seats -If Equipped



Passenger Seat Shown  
(right hand side of seat)  
-Typical View

### To Face Driver Seat Rearward

#### Power Seat

- Tilt the steering wheel all the way up and put the left armrest down.
- Move the seat rearward fully and then ahead a few inches.
- Swivel the seat to the right until it just contacts the steering wheel, then move the seat ahead all the way to clear the steering wheel.
- Swivel the seat the rest of the way to face the living area.

- Position the tilt wheel down and to provide maximum clearance to recline the seat.
- Reverse the procedure to face the seat forward.

### Armrest Adjustment

#### -If Equipped

The armrests may be swung upward out of the way for easy exit or access to the front seats. A roller on the underside of the front of the armrest also lets you adjust the resting angle for personal comfort, whether the seat is upright or reclined.

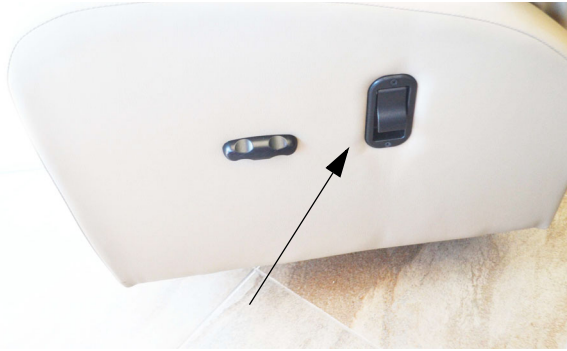


-Typical View

### Footrest (Co-Pilot Seat)

The co-pilot seat is equipped with a manual footrest that provides greater utility to be used as a lounge chair when rotated for television viewing or as part of a lounge conversational area.

- To extend footrest, lift black footrest lever (located on outboard side of seat).
- To retract footrest, push downward with your legs and the footrest will close.



**Co-Pilot Footrest Lever**  
(Located on inboard  
side of co-pilot seat)  
-Typical View

**+Lounger  
(Co-Pilot Seat)  
-If Equipped**

Your motorhome may be equipped with a +Lounger, which is featured with an extendable footrest (see previous operation instructions), and a convenient built-in workstation. This flip-up hard surface tablet feature stores on the outboard side of the seat when not in use.

**To Use Tablet**

- Extend tablet all the way out (toward front of the motorhome).
- Lift tablet up and rotate directly toward you (as you are sitting in the passenger seat).
- Once tablet is completely raised, lay down over lap. Tablet is now ready for use.

Reverse steps to lower tablet back into stored position.

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**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.

 <b>WARNING</b>
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.

## SECTION 3 – DRIVING YOUR MOTORHOME

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### Lap/Shoulder Belts

#### Fastening

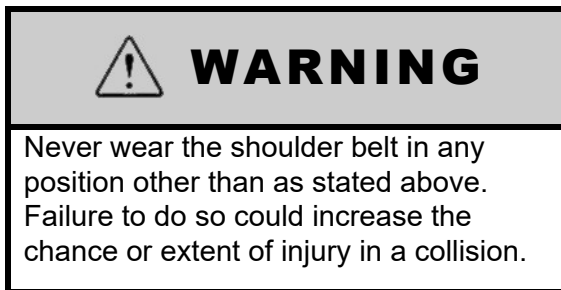
Hold the belt just behind the tongue. Next, bring the belt across the body and insert the tongue into the buckle until the latch engages.

#### Unfastening

Press the release button in the buckle. Hold onto the tongue when you release it from the buckle to keep it from retracting too rapidly.

When the lap-shoulder belt is in use, the lap belt must ride low across the hip area and the shoulder belt must ride diagonally over the shoulder toward the buckle.

The shoulder belt is designed to lock only during a sudden stop, sudden body movement, or a collision. At all other times it will move freely with the occupant.



### 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.

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### 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. Children are always safer in the rear seats (behind the cab area).

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.

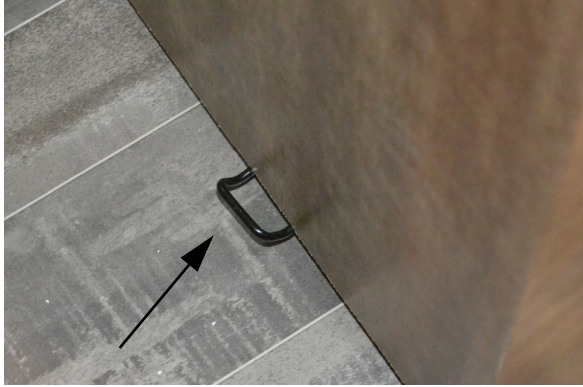
When purchasing a child restraint system, follow these guidelines:

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 motorhome has a dinette, it may be equipped with a child seat tether anchor loop located on the floor or wall directly behind the forward facing dinette seat.



Tether Anchor Loop

*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.

-Typical View,  
(Your motorhome may differ in appearance)

## Further Information

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

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## KEYONE™ LOCK SYSTEM

### -If Equipped

Your motorhome is equipped with the KeyOne lock system. A single key will open every door lock in the entire vehicle and ignition (except the security deadbolt lock on the entrance door).

The key number for your motorhome is registered in our factory database, so if you ever lose your keys, any Winnebago Industries® dealership can order a new key for you.

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## MIRRORS – POWER ELECTRIC

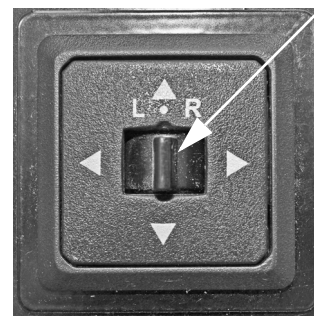
### -If Equipped

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

### Mirror Adjustment Control

The mirror control is located on the driver side armrest panel or the dash. The ignition key must be on to adjust the mirrors.

Move Selector Switch L or R to select mirror.  
Center "neutral" position disables arrows to avoid unintentionally moving a mirror.



Press Arrow Buttons to move mirror surface in direction indicated.

## Mirror Heaters

The mirrors may also contain heating elements to de-fog or de-ice the mirror glass during cold weather operation. A switch for the mirror heaters is located on the dash. To turn on, press the switch UP. Press DOWN to turn off.

## SECTION 3 – DRIVING YOUR MOTORHOME



Mirror Heat Switch  
(Located on driver side trim panel)  
-Typical View

### Mirror Arm/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.



Mirror Head Pivot Lock

- Loosen Allen head set screws to pivot mirror head.
- Torque 75-100 in./lbs.

*NOTE: Set screws may be located on the opposite side of the mirror arm. Passenger side mirror is similar.*

### Sideview Camera

The sideview cameras (built into the driver and passenger side mirrors) activate with the corresponding turn signals and replace the rear

camera view on the monitor until the turn is completed or the signal lever is canceled manually.



• Sideview Camera

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### ACCENT LED LIGHT STRIPS (FRONT)

The front of your motorhome is equipped with Accent LED Light Strips. The LED Light Strips are disabled when the ignition key is turned on (engine running).

The Front AUX switch (located on the dash) operates the LED Light Strips.

Press Front AUX switch UP to turn ON. Press Front AUX switch DOWN to turn OFF.



Front AUX Switch  
(Located on dash)  
-Typical View



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## **FRONT DROP-DOWN SHADE (12-VOLT)**

Your motorhome is equipped with a 12V Front Windshield Visor/Shade that provides privacy and solar heat protection as well as a sunvisor feature.

The power switches for the 12V Front Drop-Down Night Shade are located on the driver and passenger side trim panels.



12-Volt Front Drop-Down  
Night Shade Switch  
(Located on driver side trim panel)  
-Typical View

Press the Night Shade switch up or down to adjust the shade to the setting that best suits your needs.

Dual range motors provide lowering of the night shade to visor height restriction when the ignition is ON and lowers completely to cover the entire windshield when the ignition is OFF.

The Chassis Battery Disconnect switch must be ON to supply power to the night shade.

*NOTE: If power is gradually drained and falls below the lower limit of 11-volts, the motors may lose their electronic set limits and will require reprogramming once normal power has been restored. Refer to the Night Shade manufacturer's information provided in your InfoCase.*

## **Automatic Safety Retraction**

The Night Shade in your vehicle is equipped with an Automatic Safety Retraction feature, which will retract the Night Shade to the full upper position in the rare event of an internal motor failure.

Should the Automatic Safety Retraction feature deploy, go to your nearest Winnebago Industries® dealer for service before operating the shade again.

*NOTE: Do NOT attempt to extend the Night Shade or operate the power switches after deployment.*

## **Further Information**

Refer to the manufacturer's user guide provided in your InfoCase for complete operating instructions, troubleshooting tips, and maintenance care.

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## **RADIO – IN-DASH**

The radio in your vehicle is chassis-supplied. Refer to the chassis manual for complete features, programming, and operating instructions.

## SECTION 3 – DRIVING YOUR MOTORHOME

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### CB RADIO POWER WIRING

Your motorhome is pre-wired for CB radio power connection. The wires are located beneath the dash to the left of the steering wheel.

Look for a pair of wires - yellow (+) and white (-) with connectors and flag labels suspended from the wiring harness.



CB Power Wires  
-Typical View

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### PARKING BRAKE

#### Freightliner® Chassis



Parking Brake Knob  
-Typical View

- Pull to apply
- Push in to release

Use the parking brake knob to apply the park brake whenever the vehicle is parked.

Never try to drive the vehicle with the parking brake applied. This can cause excessive wear on the brakes and may damage the transmission.

*NOTE: It is normal to hear an occasional burst of air pressure from the rear of the vehicle. This is an automatic moisture purging feature of the air brake system. See the Brakes section of your chassis manual for instructions on periodic draining of brake air tank.*

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### EXHAUST RESTRICTION BRAKING SYSTEM

#### Freightliner® Chassis

The Exhaust Brake generates additional “braking” power by controlled restriction of the engine’s exhaust gas flow.

#### How It Works

When the Exhaust Brake is activated, a valve closes off the engine’s exhaust causing the exhaust back pressure to increase, which causes the vehicle to slow down.

The increased back pressure would normally stop the engine except the forward momentum of the vehicle keeps the drivetrain and the engine turning.

This controlled back pressure helps to regulate a vehicle’s downhill speed, such as on mountainous or hilly roads. It also provides “braking” on level or near-level roads.

## To use the Exhaust Brake



**Exhaust Brake Switch**  
(Located on driver's steering column on the right hand stalk switch)  
-Typical View

- To activate exhaust brake automatically the shifter remains perpendicular to the column, or in the highest position.
- Operate the engine brakes manually by moving the shifter stalk in a clockwise direction.
- When the engine brake is set to the auto position with cruise control set, the engine braking is controlled by the parameter settings for the optional cruise control band switch.



### **WARNING**

Do not activate the engine exhaust braking system while on icy or extremely wet roads or in any other situation where abrupt deceleration could cause skidding or loss of vehicle control.

## Further Information

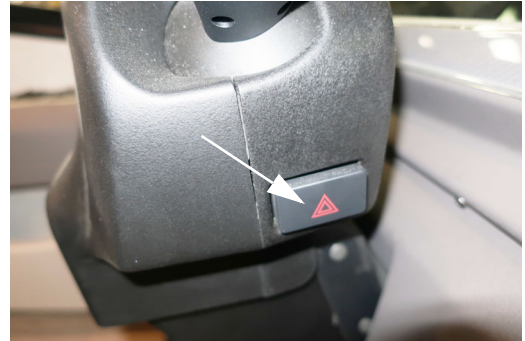
See your chassis manual in your InfoCase for more instructions, information, and precautions on using this feature.

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## 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.



**Hazard Warning Flashers**  
(Typical View - your motorhome may differ depending on model)

- Push button located on right side of steering column to activate, press again to deactivate.

## Further Information

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

---

## SIGNAL LEVER/HEADLIGHT HIGH-LOW BEAM

The signal lever controls the turn signals and headlight high/low beams.



**Turn Signals/High-Low Beams**  
(Located on the left hand stalk switch on the steering column. Typical View - your motorhome may differ depending on model)

## SECTION 3 – DRIVING YOUR MOTORHOME

- Move multi-function lever upward for right turn signal and downward for left turn signal. An audible chime will alert you when the signals are flashing.
- Push end of handle away from you to switch headlight beams to high, and back to center for low beams. Pull handle toward you to flash the headlights.

### Further Information

See your chassis manual for further operating instructions and features.

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## HEADLIGHT SWITCH

The headlight switch is located on the left side of the dash.



- **ALL Lights ON:** rotate the switch all the way to the right.
- **Parking Lights ON:** rotate the switch to the middle position.
- **ALL lights OFF:** rotate switch all the way to the left (vertical position).
- **Fog Lights:** with light activated, pull out switch to activate fog lights, push in to shut fog lights off.

### Further Information

Refer to the chassis manual provided in your InfoCase for additional information on the Headlight switch.

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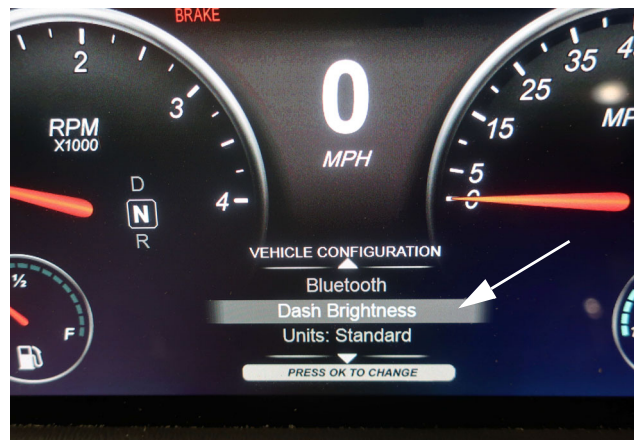
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## DASH PANEL BRIGHTNESS ADJUSTMENT

The dash panel adjustment is located on the driver's control panel in front of the steering wheel.



- Press the menu button on the steering wheel, you will see the options located on the screen in the center.
- Press menu again and scroll with the arrows until you find "vehicle configuration" and select it.



- Scroll down until you find "Dash Brightness" and select it.



- **Brighten:** press the up arrow.
- **Dim:** press the down arrow.
- Press the menu button to exit out of dash brightness screen.

---

## STEERING COLUMN ADJUSTMENT

The tilt/telescope adjustment pedal is located on the floor to the left of the steering column as shown.



Press pedal down to adjust steering wheel tilt or telescope  
-Typical View

## Adjust Steering Wheel or Column

Press the pedal down to adjust either the tilt or telescope. Release the pedal when you have adjusted the tilt angle or steering wheel distance to your preferred position.



## WARNING

Do not adjust the steering column or tilt wheel while the vehicle is in motion. Doing so may cause loss of vehicle control resulting in death or personal injury.

---

## 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: House batteries must be sufficiently charged for this feature to work.*



Battery Boost Switch  
(Located on driver side trim panel)  
-Typical View

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

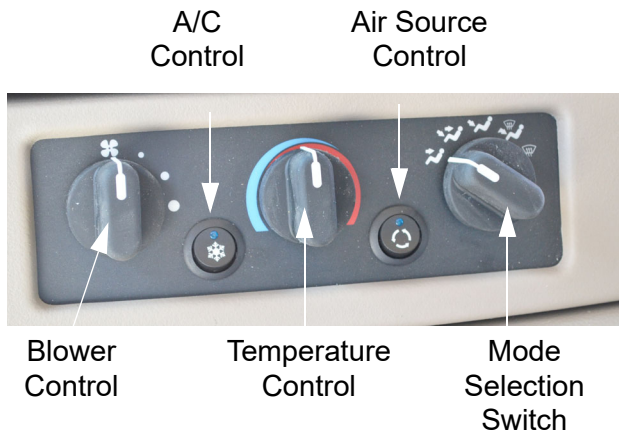
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## AIR CONDITIONER/HEATER – AUTOMOTIVE (DASH)

Controls for the air conditioner, heater, defroster, and vent are located on the dash.

## SECTION 3 – DRIVING YOUR MOTORHOME

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-Typical View

*NOTE: The dash air conditioner/heater is not designed to heat and cool the entire interior of the motorhome, but is intended only to provide heating and cooling for the cab area. A small amount of air will blow out all of the defrost and the dash vents regardless of the mode setting.*

### Further Information

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

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### AIR HORNS

Press the Air Horn switch (located on the driver side trim panel) to the ON (up) position - then use the horn button on the steering wheel to sound the air horns. The switch enables the air horn system to work with the standard chassis horn.

Press the Air Horn switch OFF (down) to disable the air horns.

The air horn sound units are located behind the front grille assembly.



Air Horn Switch  
(Located on driver side trim panel)  
-Typical View

---

### FUEL SELECTION – DIESEL ENGINE

Refer to your chassis manual for the manufacturer's recommendations on proper fuel selection (ULSD fuel only).

### Winter Fuel Waxing and Anti-Gel Additives

In sub-freezing temperatures, #2 diesel fuel can form small wax crystals that become trapped in the fuel filter and block the fuel flow to the engine, causing it to stall out. At sub-zero temperatures, the fuel can congeal and turn "slushy." If this happens, the only remedy is to have the vehicle towed into a heated facility to allow the fuel to warm up and become fully liquid again.

During winter time, most truck stops and reputable filling stations have winter blend diesel fuels available that are less susceptible to waxing.

There are also commercially available products (typically called anti-gel additives) to add to diesel fuel while filling the tank to inhibit wax formation in freezing temperatures.

### Further Information

Consult your chassis manual or diesel engine guide in your InfoCase for more information on fuel requirements and additives.

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## FILLING THE FUEL TANK – DIESEL ENGINE

Diesel fuel can foam up while being pumped into the tank. Sometimes this foam can cause the pump nozzle to shut off before the tank is actually full. Allow the foam to settle, then resume filling at a slower flow rate until the tank is full.

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## STARTING AND STOPPING DIESEL ENGINE


See also “Engine Block Heater” elsewhere in this section.

*NOTE: Never attempt to start the vehicle by hot-wiring.*

### Idling Diesel Engine

Do not idle the engine for excessively long periods.

**IMPORTANT:** Long periods of idling are not good for an engine because the combustion chamber temperatures drop so low that the fuel may not burn completely. This will cause carbon to clog the piston rings and may result in stuck valves.

	<b>WARNING</b>
Do not use ether or starting fluid. Intake manifold heater may cause explosion and injury.	

### Further Information

Refer to the chassis manual provided in your InfoCase for the manufacturer’s recommendations on starting and stopping the engine.

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## ENGINE BLOCK HEATER – DIESEL ENGINE

Your diesel engine is equipped with an engine coolant heater to assist starting in freezing temperatures. The power cord is located in the

rear cargo compartment on the driver side of the motorhome. When plugged into the receptacle, the heater is connected to both the shoreline and the auxiliary generator, so a separate extension cord is not needed. The power switch is located on the monitor panel.



Diesel Engine Heater Switch  
(Located on multiplex monitor panel)

- Press the AC button, then select BLOCK HEATER. The display will read off or on.  
-Typical View

**REMEMBER!** Turn the Diesel Engine Heater switch OFF after starting the engine. The heater will keep operating for as long as it is supplied with electricity. If the switch is left on, the engine heater will come on each time you hook up the shoreline cord or start the generator. The block heater can be damaged if left on for an extended period of time.

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## ENGINE ACCESS COVERS – REAR

The covers should only be removed if a complete view of the engine is needed for inspection, or service of upper engine parts.

Take precautions to protect carpet and interior furnishings when removing engine covers. The underside of the engine cover could contain deposits of oil and fuel or other engine fluids and substances that could damage fabrics and interior furnishings.

## SECTION 3 – DRIVING YOUR MOTORHOME

### Engine Access Cover Locations

#### Model 34T:

- Forward Engine Access Cover, Support Angle, and Vertical Access Cover - Lift the foot of the bed board.
- Rearward Engine Access Cover - Remove the top of the rearward bed board.

#### Model 36H:

- Forward Engine Access Cover and Support Angle: In the bedroom floor in front of the wardrobe.
- Vertical Access Cover - Remove the cabinet access panel on rear wardrobe face.
- Rearward Engine Access Cover - Remove access panel inside wardrobe.

#### Model 38F, 38W, and 38D:

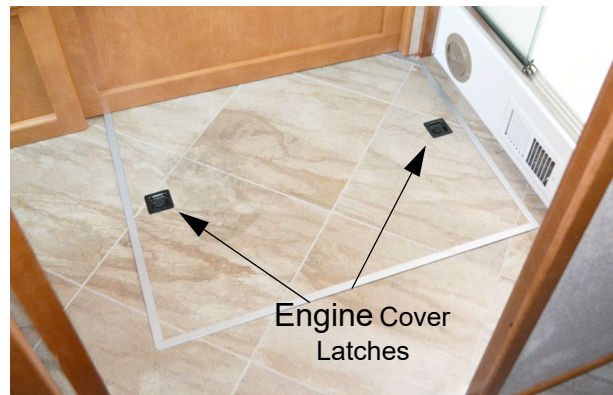
- Forward Engine Access Cover and Support Angle: In the lavatory floor in front of the lavatory cabinet.
- Vertical Access Cover - Remove the access panel on rear lavatory cabinet face.
- Rearward Engine Access Cover - Remove lavatory cabinet drawers and access panels inside lavatory cabinet.

### Forward Engine Access Cover

1. **For Model 34T:** Lift the bed board.  
**For Models 36H, 38F, 38W, and 38D:** Remove rear bath rug (if equipped) and set aside.
2. Using the Engine Cover Latch Key (located on your key ring), unlock the Engine Cover Latches by turning counter-clockwise.



Engine Cover Latch Key  
(Located on key ring)



\*Model 38W shown

3. Using a Suction Cup Lift (if needed), remove unlocked Forward Engine Access Cover and set aside.

*NOTE: Use care when removing the Engine Access Cover to avoid possible interior damage.*

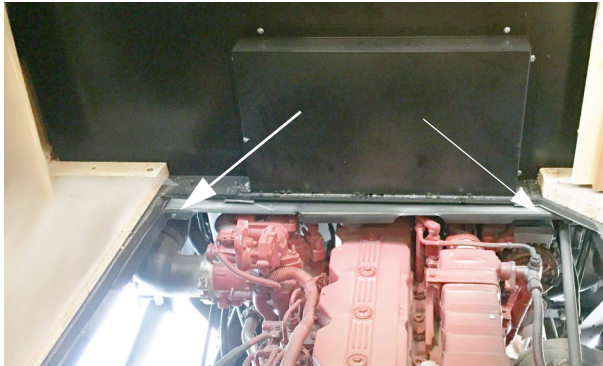
In some cases, you may need further access of the engine (beyond removing the Forward Engine Access Cover, as previously described.).

To gain further access to the engine continue with the next steps. If no further access is needed, reinstall the Forward Engine Access Cover ensuring the latch is in the locked position.

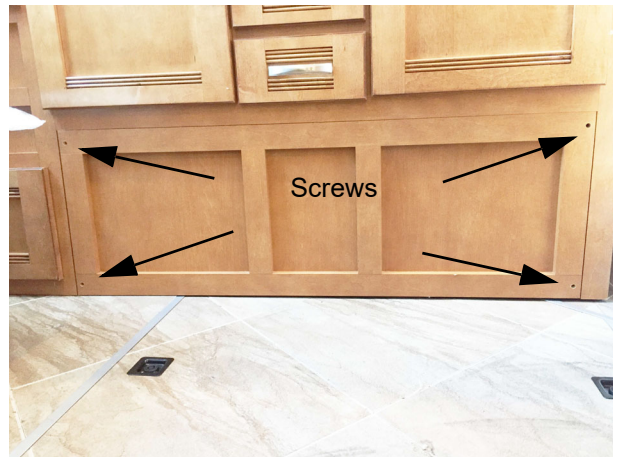
### Engine Cover Support Angle

4. To Remove the Engine Cover Support Angle, remove two (2) screws from the angle and set aside.





**Engine Cover Support Angle**  
\*Model 38F shown



**Access Panel**  
(Located on rear lavatory cabinet face)  
\*Model 38F shown

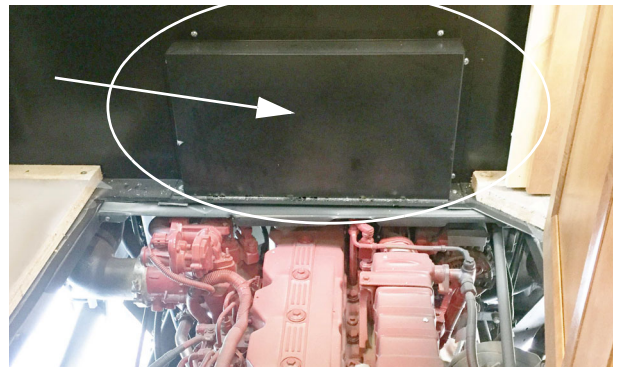
**Vertical Access Cover**

5. **For Model 34T.** The Vertical Access Cover is visible to the rear of the forward engine access cover. *Proceed to step 6.*

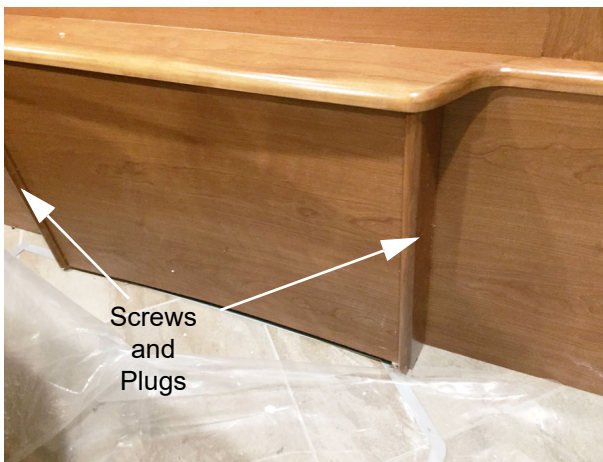
**For Models 36H, 38F, and 38W.** Remove Access Panel on rear wardrobe face (Model 36G) or rear lavatory cabinet face (Models 38F and 38W) by first removing the wooden screw plugs, then removing the screws from the panel and set aside.

*NOTE: On some models, the access panel is held on with spot nails. The panel must be carefully pried off so it will not be damaged. On other models, the panel is held on by screws located on each end of the panel.*

6. To Remove the Vertical Access Panel, remove the screws from the panel and set aside.



**Vertical Access Panel**  
\*Model 38F shown



**Access Panel**  
(Located on rear wardrobe face)  
\*Model 36H shown



**Vertical Access Panel**  
\*Model 38F shown

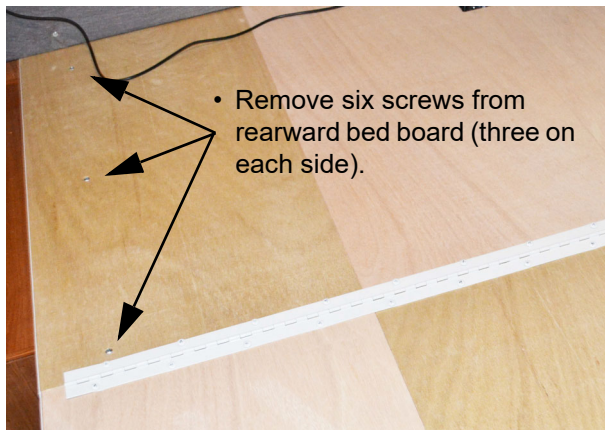
## SECTION 3 – DRIVING YOUR MOTORHOME

### Rearward Engine Access Cover

#### Model 34T

The Rearward Engine Access Cover is accessed by removing the screws at the head of the bed board and setting the bed board aside.

7. Unplug the air mattress pump.
8. Remove mattress from the bed board and set aside in another area of the motorhome.
9. Remove six screws (located on top of the rearward bed board) and set aside.



\*Model 34T shown

10. Remove bed board and set aside in another area of the motorhome.
11. Remove fasteners from metal engine cover (rearward) and set aside to access engine.

#### Models 36G

The Rearward Engine Access cover is located inside the wardrobe beneath an access cover.

- Lift access panel from wardrobe floor.



- Remove fasteners from the metal engine cover and set aside to access engine.

#### Models 38F, 38W, and 38D

The Rearward Engine Access Cover is located beneath the rear lavatory cabinet.

- Remove lavatory cabinet drawers and access panels inside lavatory cabinet.



\*Model 38W shown

- Remove fasteners from the metal engine cover and set aside to access engine.

*NOTE: Removal of the lavatory cabinet face is required before removing the Metal Engine Access Cover (see previous steps).*

12. Reverse steps to reinstall engine access covers, support angle, access panels, bed board, and lavatory cabinet face.

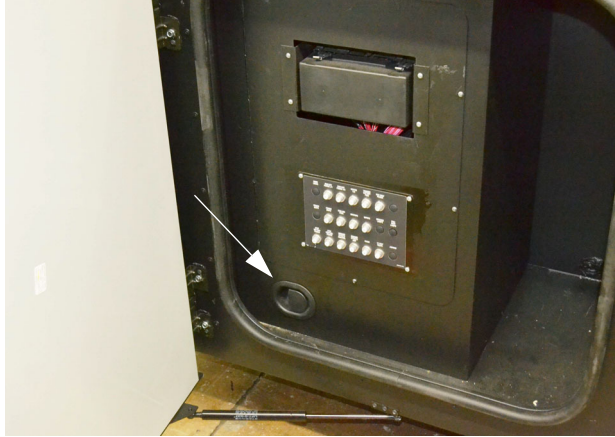
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## FRONT SERVICE ACCESS

### (HOOD)

The hood panel can be opened for access to service items such as the Windshield Washer Fluid Reservoir and Generator Oil Dipstick.



**Hood Release Latch**  
Located in front driver side compartment)

### To Open Hood

- Pull the Hood Release latch (located in front driver side compartment). The hood will automatically open.

### To Close Hood

- Swing hood upward into closed position. You will hear a click. Make sure both hood latches engage.

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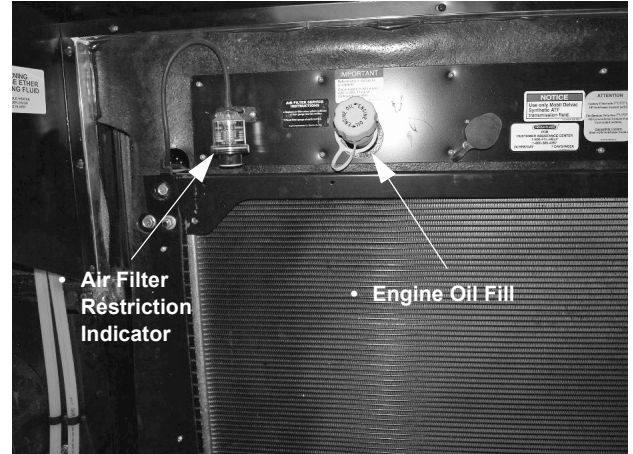
## ENGINE ACCESS GRILLE – REAR

The diesel engine is located behind the grille panel at the rear of the vehicle.

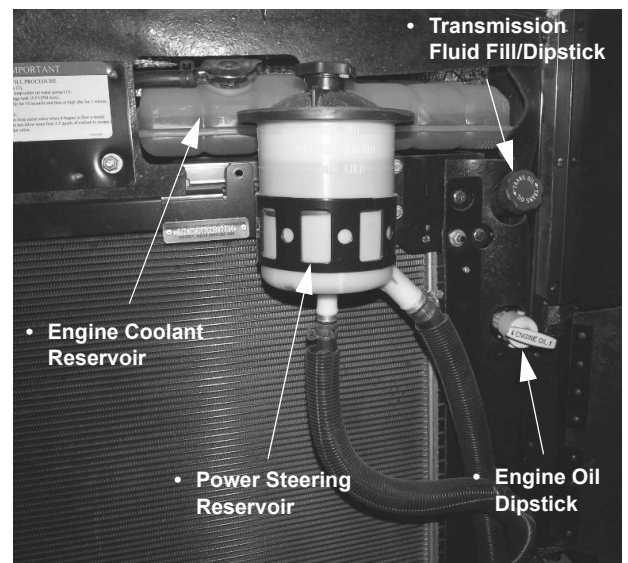
Unlock the latches near the ends of the grille panel and swing upward.

With the grille panel open, you can access the following service points:

- Engine Oil Dipstick
- Engine Oil Fill
- Power Steering Reservoir
- Engine Coolant Reservoir
- Transmission Fluid Fill/Dipstick
- Air Filter Restriction Indicator
- Engine Diagnostic Connector



**Rear Engine**  
(Shown with grille panel open)  
\* Driver Side



**Rear Engine**  
(Shown with grille panel open)  
\* Passenger Side

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## FUEL/WATER SEPARATOR – DIESEL

### Freightliner® Chassis

Diesel fuel often contains small quantities of water, which can damage the engine if not filtered out. The Fuel/Water Separator traps this water and prevents it from reaching the engine. The harmful water deposits must be drained from

## SECTION 3 – DRIVING YOUR MOTORHOME

the separator canister during normal periodic service and maintenance to keep the fuel filtration system working effectively.

The Fuel/Water Separator is located beneath the passenger rear side of chassis (at the forward right side of the engine).



Diesel Fuel/  
Water Separator  
(Filter)

Fuel Filter

(Located beneath passenger  
rear side of chassis)  
-Typical View

Place an appropriate container beneath the bottom of the Fuel/Water Separator Filter and open the water release drain valve several turns. Drain any water deposits from the canister until clean diesel fuel flows from the valve. Close valve by hand. Do not over tighten.



Fuel/Water Separator Drain Valve  
(Located on bottom end of separator)  
-Typical View

- Turn counter-clockwise (left) to open
- Turn clockwise (right) to close

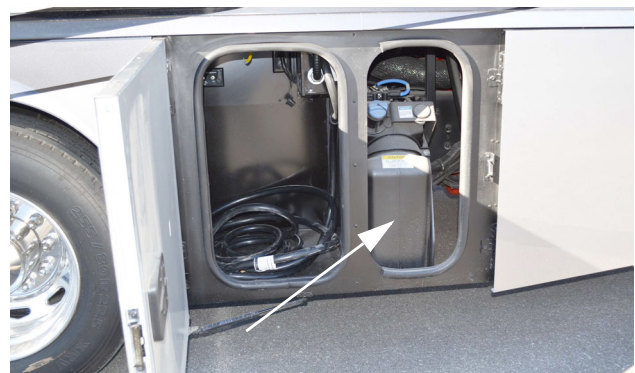
Dispose of the drained liquid in an environmentally responsible manner, such as taking to a waste oil disposal center.

---

### **DIESEL EXHAUST FLUID FILL**

The Diesel Exhaust Fluid Fill is located in driver side compartment behind the rear wheel.

*NOTE: Use only certified diesel exhaust fluid (DEF) in the Diesel Exhaust Fluid Fill tank.*



Diesel Exhaust Fluid Fill Tank  
(Located in driver side compartment  
behind rear wheel)  
-Typical View

### **Further Information**

Refer to the chassis manual provided in your InfoCase for complete information and precautions.

---

### **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. See the chassis manual for the correct type of coolant. The coolant system MUST be refilled or topped up with the same type of coolant as equipped to maintain the special long-life properties.*

## NOTICE

When refilling the coolant system of a vehicle equipped with a rear auxiliary automotive heater and motoraid water heater, be sure to allow for additional coolant capacity of the heater and its supply and return hoses.

### Further Information

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

## CHASSIS BATTERY DISCONNECT SWITCH

The Chassis Battery Disconnect switch disconnects most chassis electrical loads from the chassis (starting) batteries to avoid discharge by constant draws such as engine computers, radio clock, sensors, etc. (except the electric entrance step). This feature is intended to help conserve battery charge during storage.



Chassis Battery Disconnect Switch  
(Located near entrance door)  
-Typical View

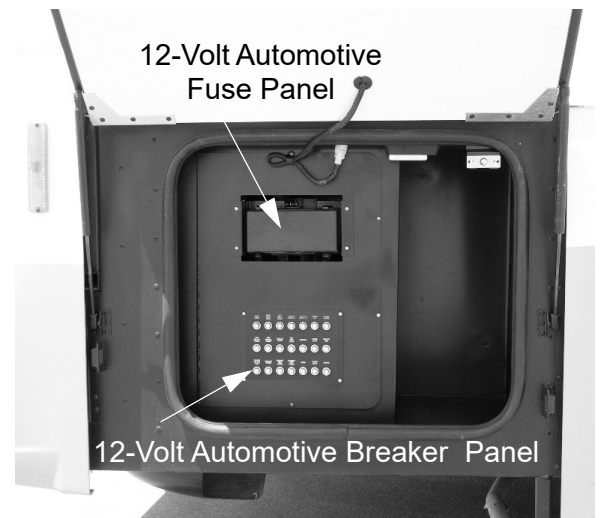
Turn the switch to the OFF or ON positions to disconnect or reconnect the chassis batteries.

*NOTE: The Chassis Battery Disconnect switch must be on to start the engine.*

## CIRCUIT BREAKERS AND FUSES – CHASSIS/DASH AUTOMOTIVE 12-VOLT

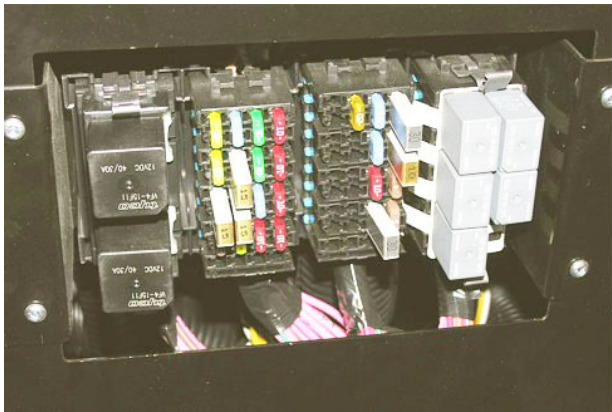
The fuses, breakers, and relays for automotive chassis and dash features are conveniently located on the main 12-volt electrical panel in the front left exterior compartment.

The circuit breakers pop outward if they are tripped. Simply push in to reset.



Automotive Circuit Breakers (push to reset)  
• Breakers are labeled for components equipped

## SECTION 3 – DRIVING YOUR MOTORHOME



Automotive Fuses (cover removed)

Always replace plug-in type fuses with those of the same amperage size.

See the chassis manufacturer’s fuse allocation chart on the inside of the fuse block cover.



Fuse Diagram (inside of cover)

### Further Information

See your chassis manual in your InfoCase for further information about chassis supplied fuses and relays.

---

## WINDSHIELD WASHERS AND WIPERS

The Windshield Washer Fluid Reservoir is located behind the front hood panel (see “Front Service Access” elsewhere in this section for instructions on opening the hood panel).

We recommend using commercially available premixed solutions for best results. Avoid using water in freezing temperatures, as the washer pump could become damaged.

---

## 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 motorhome 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**

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

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## **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 motorhome 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 – RESIDENTIAL

#### –If Equipped

Your motorhome may be equipped with a “residential style” refrigerator. This refrigerator operates off of the 120-volt electrical system in your motorhome.

In order to operate, the refrigerator requires either the shoreline to be plugged in, the generator running, or inverter power.

The inverter is intended to power your 120 volt residential refrigerator primarily when driving your vehicle. The house batteries will drain quickly if the refrigerator is powered from the inverter when the engine is not running. Other 120 volt appliances and other 120 volt devices are not intended to operate with inverter power for long periods of time as they too will quickly drain your house batteries.

*NOTE: The refrigerator operates off of 120-volt power. When power is off, the ice maker drain valve (located behind sidewall access compartment) needs to be in the ON position. This will ensure that water does not discharge from the water dispenser when power is reconnected to the appliance.*



### WARNING

At refrigerator/freezer or motorhome End of Life remove travel latch. Failure to remove travel latch could result in trapping a child inside resulting in suffocation leading to death or serious injury.

Do not let children play inside the motorhome unattended. Unlike your home refrigerator/freezer that one could push open the door from the inside, your motorhome refrigerator has a travel latch and when engaged would trap a child inside.

#### Travel Latch

To engage the travel latch, rotate the handle to lock position. To disengage the travel latch, rotate the handle to the unlock position.



(Latch shown in lock position)  
-Typical View

## SECTION 4 – APPLIANCES AND SYSTEMS

---



(Latch shown in unlock position)  
-Typical View

### Basic Refrigerator Operation

Temperature controls are factory preset for your convenience. When you first use your refrigerator, make sure the controls are still set to the recommended setting as shown.



Recommended setting is “Mid-setting 3”

See the manufacturer’s user guide provided in your InfoCase for information on adjusting refrigerator/freezer temperatures to best suit your needs.

*NOTE: Allow 24 hours for your refrigerator to cool completely before storing food.*

### Ice Maker Operation

- To turn the ice maker on, lower the wire shut-off arm.

*NOTE: Do not force the wire shut-off arm up or down.*

- To manually turn the ice maker off, lift the wire shut-off arm to the OFF (arm up) position until it clicks.

*NOTE: Your ice maker is equipped with an automatic shutoff. As ice cubes fill the storage bin, the wire arm is raised to the OFF (arm up position).*

### Further Information

Refer to the manufacturer’s user guide provided in your InfoCase for complete operating instructions, safety precautions, and maintenance information.

---

## REFRIGERATOR – RESIDENTIAL

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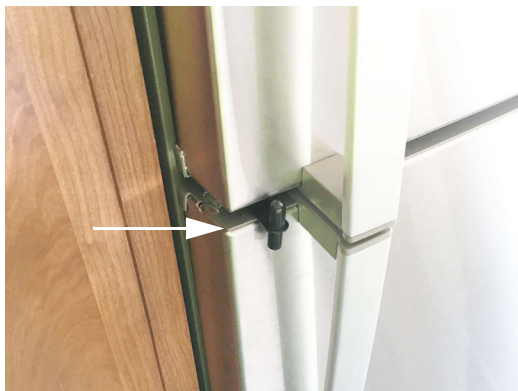
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### Travel Latch

To engage the travel latch, rotate the handle to lock position. To disengage the travel latch, rotate the handle to the unlock position.



(Latch shown in lock position)  
-Typical View



(Latch shown in unlock position)  
-Typical View

### Basic Refrigerator Operation

Temperature controls are factory preset for your convenience. When you first use your refrigerator, make sure the controls are still set to the recommended setting as shown.



Cooling ON/OFF  
Press and Hold for 4 seconds

See the manufacturer's user guide provided in your InfoCase for information on adjusting refrigerator/freezer temperatures to best suit your needs.

*NOTE: Allow 24 hours for your refrigerator to cool completely before storing food.*

### Ice Maker Operation

- To turn the ice maker on, lower the wire shut-off arm.

*NOTE: Do not force the wire shut-off arm up or down.*

- To manually turn the ice maker off, lift the wire shut-off arm to the OFF (arm up) position until it clicks.

## SECTION 4 – APPLIANCES AND SYSTEMS

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*NOTE: Your ice maker is equipped with an automatic shutoff. As ice cubes fill the storage bin, the wire arm is raised to the OFF (arm up position).*

### Further Information

Refer to the manufacturer's user guide provided in your InfoCase for complete operating instructions, safety precautions, and maintenance information.

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## ICE MAKER

### –If Equipped

Some refrigerators are equipped with an automatic ice maker system. The ice maker unit is installed in the freezer compartment of the refrigerator.

*NOTE: A water shut-off valve for the ice maker is located near the water faucet filter inside the galley cabinet beneath the sink.*

### Further Information

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

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## REFRIGERATOR SERVICE ACCESS COMPARTMENT – RESIDENTIAL

### (Exterior)

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

- Unlock access compartment with provided key (located on your key ring).



Residential Refrigerator  
Service Compartment  
(Located along driver or passenger  
sidewall, depending on model)  
-Typical View

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## MICROWAVE/CONVECTION OVEN WITH RANGE HOOD

### –If Equipped

The range hood vent is built into the microwave oven. The range hood fan carries cooking odors and gas fumes to the outside of the motorhome. A light on the underside of the hood provides illumination for food preparation. The hood fan and light switches are located on the microwave control panel.

## NOTICE

Do not store items in oven.  
If oven would turn on stored items can  
ignite resulting in fire and or property  
damage.

### Further Information

See the manufacturer's user guide provided inside the appliance for complete operating instructions and replacement of vent hood light bulbs and replacement or cleaning of grease filter elements.

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**RANGE TOP WITH GLASS  
RANGE COVER**

**–If Equipped**

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

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

Glass Range Cover - lift cover before igniting range.



-Typical View

- Turn the SPARK knob, you will hear the igniter “click”.

*NOTE: If the burner does not light within about ten seconds or if the flame should go out during cooking, turn the burner off. If gas has accumulated and a strong gas odor is detected, open a window and wait 5 minutes for the gas odor to disappear before relighting the burner.*

*If the appliance has not been operated for a period of time, the surface burner may be difficult to light due to air in the gas line.*

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

**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.



**DANGER**

Do not use gas cooking appliances for comfort heating. Can lead to carbon monoxide poisoning, which can lead to death or serious injury.



**WARNING**

Cover must be in the full open position when any top burner is in operation. After use of top burner(s), let top burner grate cool before replacing top cover.



**WARNING**

Gas cooking appliances need fresh air for safe operation.  
Before operating:  
Open vents or windows slightly or turn on exhaust fan prior to using cooking appliance. Gas flames consume oxygen, which should be replaced to ensure proper combustion. Improper use can result in death or serious injury.

**To Light Range Top Burners**


- Lift glass range cover.
- Depress the desired burner knob and turn counter-clockwise to the ON or LITE position (do NOT attempt to light more than one burner at a time).

## SECTION 4 – APPLIANCES AND SYSTEMS

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.

**NOTICE**

Turn off the range and allow it to cool before closing the range cover. The range cover is made of glass and may shatter when heated.

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### MONITOR PANEL

The Multiplex Switch Panel (located in the hallway) provides a convenient, central location for checking the condition of all utility systems in your motorhome.

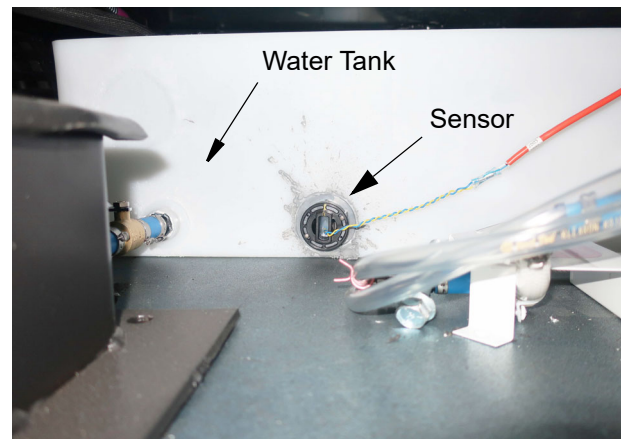
The switch panel displays the fresh water and holding tank levels, propane gas tank level, as well as the chassis battery and house battery condition. You can start the generator or turn on the water pump and water heater.

### Water and Holding Tank Levels

The approximate fluid levels are measured by electronic sensors on the sides of the tanks. Tank levels are displayed in 5% increments until it registers full. There is generally more fluid in a tank than indicated on the monitor panel.



“Home” Screen



### Tank Capacities

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

### Propane Gas 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.



“Home” Screen

### Battery Charge Meter

To get an accurate reading:

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



“DC” Screen

### 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.



“Home” Screen

- Tap Water Pump to turn off/on

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

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## POWER CONTROL SYSTEM (PCS)

The Power Control System (PCS) monitors the electrical usage of the appliances and equipment in the motorhome and allows you to use certain high energy appliances, such as the microwave or washer/dryer, without overloading the shoreline circuit breaker to prevent nuisance tripping.

## SECTION 4 – APPLIANCES AND SYSTEMS



“AC” Screen

(Located on multiplex monitor panel)

- Press the AC button, then select EMS Load Status.

-Typical View



EMS Load Status

(Located on multiplex monitor panel)

-Typical View

### Further Information

Refer to the manufacturer’s user guide provided in your InfoCase for important information on how this system operates under several conditions, whether 20-amp, 30-amp, or 50-amp connections.

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## WATER HEATER – GAS TANKLESS WITH DECALCIFICATION

### -If Equipped

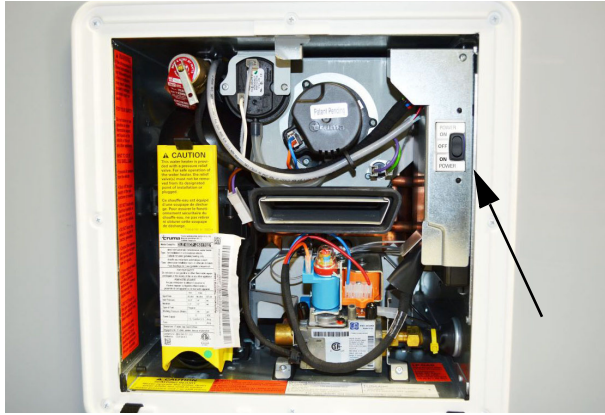
The Gas Water Heater operates from propane gas. In Comfort mode, the recirculation pump inside the water heater recirculates the hot water in the lines to ensure instant hot water at any faucet. To conserve propane gas and power, choose the Economy mode.

*See the Water Heater manufacturer’s operation manual provided in your InfoCase for complete operating instructions, safety warnings, decalcification instructions, and maintenance information before operating the Water Heater.*

1. **Be sure the Water Heater is filled with water before starting the Water Heater.** To fill the Water Heater, turn the Water Pump switch ON and open water faucets anywhere in the motorhome. When water begins to flow steadily from the faucet, the Water Heater is full. Close all water faucets.
2. **Turn on the Water Heater:** Turn “ON” the Water Heater Power Switch (located behind the water heater access panel on exterior of motorhome) by pressing up or down. When the water heater is on, a green light will illuminate above the switch.

*NOTE: Both on positions on the power switch have the same function.*

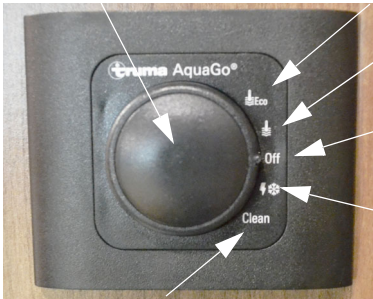




**Water Heater Power Switch**  
(Located behind water heater access panel on exterior of the motorhome)

3. **To select an operating mode**, rotate the switch (located in the lavatory) to the operating mode of your choice.

- Rotary Switch



- Decalcification

- ECO
- Comfort
- OFF
- Freeze Prevention (Antifreeze) *see manufacturer's operation manual - kit is required*

**Propane Gas Water Heater Control Panel**  
(Located outside the lavatory next to the multiplex monitor panel).

*See the Water Heater manufacturer's operation manual provided in your InfoCase for complete operating instructions.*

The AquaGo™ comfort plus is equipped with a circulation pump. The circulation pump as well as the burner are switched on automatically by the control unit in order to keep the water temperature above a certain level (102°F (39°C) in “Comfort” mode and 41°F (5°C) in “ECO” mode).

To conserve gas and power, use the “ECO” switch position. This will maintain a temperature above 41°F (5°C) in the Truma AquaGo™ instant water heater.

For maximum comfort (rapid availability of hot water at the faucet), use the “Comfort” switch position. This will maintain a temperature above 102°F (39°C) in the appliance and the hot water lines in the motorhome.

4. **To turn off the Water Heater.** First turn the control panel (located in the lavatory) to the OFF position. Then turn the Water Heater Power Switch (located behind water heater access panel on exterior of the motorhome) to the OFF position.

### **Decalcification**

Lime scale occurs especially as a result of precipitation from “hard” water. The appliance must be decalcified regularly depending on water hardness and hot water consumption.

See the Water Heater manufacturer's operation manual provided in your InfoCase for complete decalcification instructions and frequency.

### **Further Information**

See the Water Heater manufacturer's operation manual provided in your InfoCase for complete operating instructions, safety warnings, decalcification instructions, and maintenance information.

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## **WATER HEATER – GAS/ ELECTRIC**

### **–If Equipped**

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.

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

## SECTION 4 – APPLIANCES AND SYSTEMS

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 motorhome. When water begins to flow steadily from the faucet, the water heater is full.



Water Heater Switch  
“HOME” Screen  
(Located on Multiplex Monitor Panel)

### For Propane Gas Operation

Press the “WATER HTR GAS” switch on the Multiplex 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.

### For Electric Operation

Press the “WATER HTR ELECT” switch on the Multiplex Monitor Panel.

The shoreline must be connected or generator running for electric operation.

### For Quick Recovery Operation (Dual Heating)

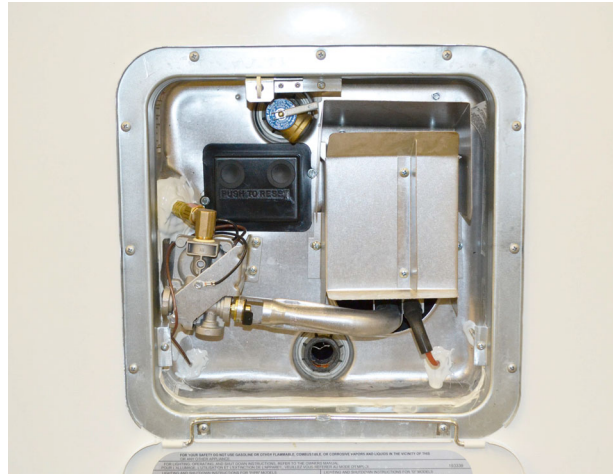
Turn On both Water Heater switches (Gas and Electric). This will help reheat the water heater tank more quickly than a single source would alone. Use this mode when you are using a larger than normal volume of hot water.

### Further Information

See the Water Heater manufacturer’s operation manual provided in your InfoCase for complete operating instructions, safety warnings, and maintenance information.

## 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

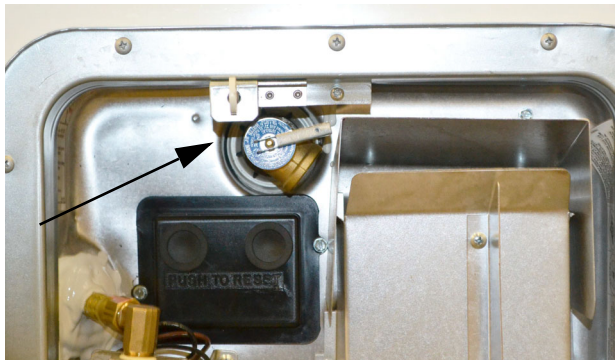
Normally there is an air gap at the top of the water heater tank, which acts as a pressure buffer. In time, however, heated water may expand and fill this air gap, causing a slight increase in water pressure. This may cause the P-T valve to “weep” until the air gap is manually replaced.

 **CAUTION**

Hot water can escape from tank causing injury. Operate this valve only when the tank water is cold.

**To Replace the Air Gap:**

1. Turn off the Water Heater switch and incoming water supply (city water and/or demand pump).
2. Open a faucet in the motorhome 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.*

**THERMOSTAT**

**(Heating and Cooling)**

The Electronic Thermostat (located on the multiplex monitor panel) controls the propane furnace, as well as the two separate roof air conditioners in your motorhome. The living and galley area is equipped with one air conditioner, and the bedroom and bath area is equipped with another.

When controlling the settings from the Thermostat, you must manually press the Zone Button and set to your preference by toggling to either Zone 1 or Zone 2.

- ZONE 1 - Living/Galley Area
- ZONE 2 - Bedroom/Bath Area

The Thermostat system will operate in both heat and cool modes, but will not allow you to run both heat and cool modes simultaneously.



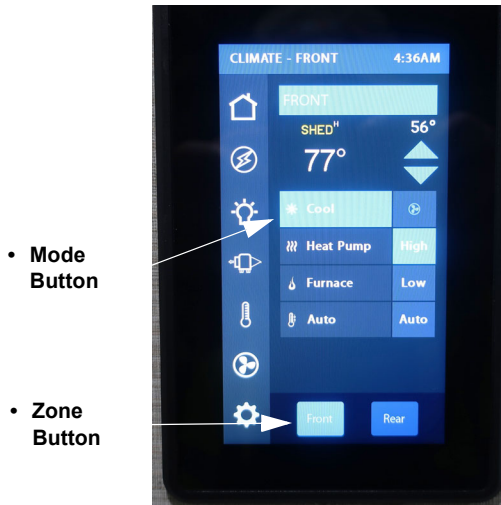
Thermostat “Climate” Screen  
(Located on Multiplex Monitor Panel)

Auto Mode allows you to set both a “Cool” temperature and a “Heat” temperature to automatically maintain a desired comfort temperature.

- Select the desired heat source.
- Fan speed is Auto only.
- Settings are shared between bedroom and lounge to ensure that A/C and Heat Pump cannot be run at the same time.

## SECTION 4 – APPLIANCES AND SYSTEMS

### Heating



Thermostat "Climate" Screen  
(Located on Multiplex Monitor Panel)

#### To Start Up

6. Open the LP gas tank valve by turning fully counter-clockwise.
7. Select the desired zone. (Zone 1 or Zone 2)
8. Press the Mode button and toggle between settings to select either "FURNACE" - (for Propane Furnace) or "HEATPMP" (for Heat Pump).

*NOTE: The Zone 2 furnace is not equipped on model 34T and 36G.*

*The Heat Pump is for Zone 1 only.*

9. Adjust the temperature by pressing the +/- buttons.
10. The furnace fan should start after setting the thermostat.
11. After approximately 30 seconds, the furnace burner should light.
12. 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 the thermostat off for 3-5 minutes, ensure Propane Gas Tank valve is open and tank is not empty, then repeat above steps.*

*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. Press the MODE button and select "OFF". Repeat steps for each zone.
2. Close the propane tank valve if the motorhome will be stored for a period of time.

*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.*

#### Cooling (A/C)



Thermostat "Climate" Screen  
(Located on Multiplex Monitor Panel)

1. Select the desired zone.
2. Press the MODE button and select "COOL":
3. Press the FAN SPEED button to select the desired speed:

- **Cool/Auto:** Allows the fan speed to vary depending on the cooling needs. This is the default setting.
  - **Cool High/Cool Low:** Sets the fan speed to run continuously at high or low, but the upper unit will cycle when cooling is needed.
  - **Fan High/Fan Low:** Sets the fan to run continuously at high or low speed. The upper cooling unit will not run to produce cooling. Setpoint is not adjustable in this mode.
  - **Off:** Turns the upper unit off for the zone displayed. By continuing to press the Mode Button, you can toggle through the settings for the zone displayed until you have reached your desired setting. Setpoint is not adjustable in this mode.
4. Adjust the temperature by pressing the +/- buttons.

*NOTE: Repeat steps for each zone.*

## Heat Pump



- Mode Button
- Zone Button

Thermostat “Climate” Screen  
(Located on Multiplex Monitor Panel)

Your motorhome is equipped with an air source Heat Pump built into the air conditioning system. Because the Heat Pump operates on electricity, it provides economical heat inside your motorhome and helps reduce the use of propane gas for heating in cooler weather.

A Heat Pump can be thought of as an air conditioner running in reverse. An air conditioner absorbs heat from the air on the inside of the motorhome and moves it to the outside. The Heat Pump does exactly the opposite. Even cold air contains some heat, so a Heat Pump will extract heat from the outside air on a cold day and carry it to the inside of the motorhome to maintain a comfortable temperature.

The efficiency of a Heat Pump decreases as the outdoor air temperature drops, so supplementary heat is often needed when the outside temperature nears freezing. This system is set to automatically start the propane furnace to assist the Heat Pump if room temperature cools to 5 degrees or more below the Thermostat set temperature. You may wish to manually switch to propane furnace heat to maintain a higher temperature when outside temperatures begin to reduce the efficiency of the Heat Pump. The Heat Pump will not operate when the outside temperature falls below 36 degrees F.

## To Run Fan Only (No Heat or Air)

- On the “Climate” screen, adjust fan speed to Low/High.

The fan will run continuously at the selected speed and is not controlled by Thermostat setting. The display will show current room temperature.

## Supply and Return Air Vents

Supply and Return Air Vents are located throughout the ceiling of the motorhome. The Supply Vents produce airflow. The Return Vents are for air intake, in which the air goes back into the air handler. There is a distinguishable difference between the two - Return Air Vents are equipped with a removable filter inside, and Supply Air Vents are not.

## SECTION 4 – APPLIANCES AND SYSTEMS



Supply/Return Air Vents  
(Located throughout the ceiling of the  
motorhome)  
-Typical View



Return Air Vent  
(Shown with filter installed)  
-Typical View

### Further Information

For complete Thermostat operating instructions and troubleshooting procedures, see the manufacturer's user guide provided in your InfoCase.

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### AIR CONDITIONER FILTER

The washable foam air conditioner filter is located in the ceiling-mounted return A/C grille in the lounge area of the motorhome.

It is recommended to check the filter monthly for dirt build-up and cleaned or replaced, as necessary.

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### WASHER/DRYER – STACKABLE

#### -If Equipped

Your motorhome may be equipped with a Stackable Washer/Dryer for the luxury of home as you travel.

*Before using the Stackable Washer/Dryer, please spend a few moments reading the manufacturer's user guide provided in your InfoCase for complete operating instructions, troubleshooting and maintenance tips, as well as safety precautions.*

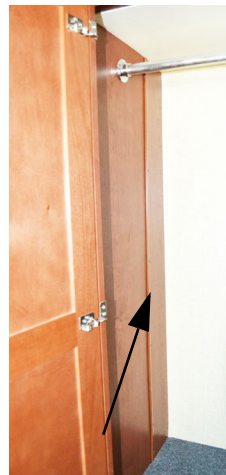


### CAUTION

Open a window or vent while operating dryer. It is dangerous to create a negative air pressure inside a vehicle containing fuel-burning appliances.

### Water Supply Faucets

Always turn the Water Supply Faucets OFF when not using the Washing Machine to avoid possible water leaks if a hose or hose gasket should fail.



- View with access panel removed



- Remove screws to access.

Water Supply Faucets  
(Located behind access panel within wardrobe)  
\*Model 34T



**Water Supply Faucets**  
(Located behind access panel rear of washer/  
dryer)  
\*Model 36H



**Water Supply Faucets**  
(Located behind access panel inside wardrobe)  
\*Model 38F

### Further Information

Refer to the manufacturer's user guide provided in your InfoCase for complete winterizing instructions, operating instructions, troubleshooting and maintenance tips, and safety precautions.

## WASHER/DRYER (MODEL 38W AND 38D)

### -If Equipped

Your motorhome may be equipped with a Washer/Dryer for the luxury of home as you travel.

*Before using the Washer/Dryer, please spend a few moments reading the manufacturer's user guide provided in your InfoCase for complete operating instructions, troubleshooting and maintenance tips, as well as safety precautions.*



## CAUTION

Open a window or vent while operating dryer. It is dangerous to create a negative air pressure inside a vehicle containing fuel-burning appliances.

*NOTE: The Dryer Cabinet Door must remain OPEN when in use. Push cabinet door UP to open.*



**Dryer Door**

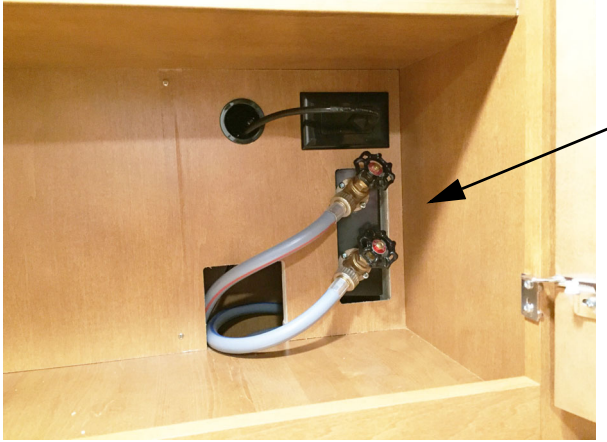
- The Dryer Cabinet Door must remain OPEN when in use.
  - Push cabinet door UP to open.
- Typical View

## Water Supply Faucets

The Washing Machine Water Supply Faucets are accessible inside the cabinet above the washer. Always turn the Water Supply Faucets OFF when not using the Washing Machine to avoid possible water leaks if a hose or hose gasket should fail.

## SECTION 4 – APPLIANCES AND SYSTEMS

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Water Supply Faucets  
(Located inside cabinet above washer)  
\*Model 38W

### Further Information

Refer to the manufacturer's user guide provided in your InfoCase for complete winterizing instructions, operating instructions, troubleshooting and maintenance tips, and safety precautions.

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### WASHER/DRYER – PREP PACKAGE

If your motorhome is not equipped with a Washer/Dryer, plumbing may be present for installation.

Typically, the plumbing lines are located inside the wardrobe or storage cabinet depending on model.

We recommend obtaining parts and service for the Washer/Dryer installation from your Winnebago Industries® dealer.



# 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.

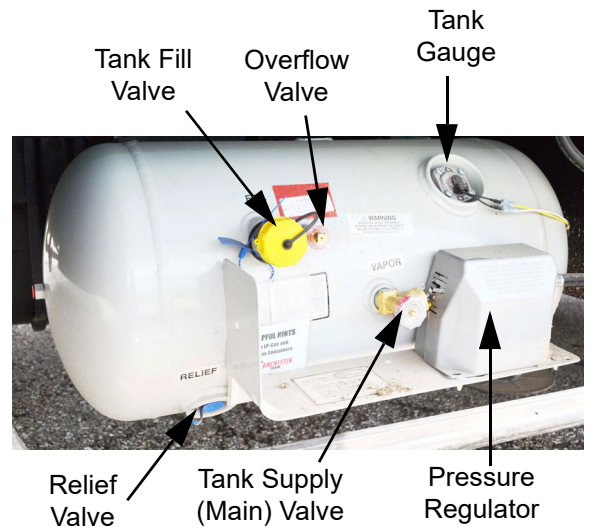
## How Propane Gas Works

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 motorhome 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.*

## SECTION 5 – PROPANE GAS

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### WARNING

Do not fill propane container(s) to more than 80 percent of capacity.

A properly filled container contains approximately 80 percent of its volume as liquid propane.

Overfilling propane container(s) can result in uncontrolled propane flow, which could lead to a fire or explosion and result in death or serious injury.



### DANGER

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



### WARNING

This propane piping system is designed for use with propane only.

Do not connect natural gas to this system. Securely cap inlet when not connected for use. After turning on propane, except after normal cylinder replacement, test propane piping and connections to appliances for leakage with soapy water or bubble solution.

Do not use products that contain ammonia or chlorine to test for leaks. Can lead to a fire or explosion, which could result in death or serious injury.

### 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 motorhome, 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.

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### 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 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 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 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 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.

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## **PROPANE GAS WARNINGS AND PRECAUTIONS**

It is illegal for vehicles equipped with propane container 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.

 **DANGER**

**IF YOU SMELL PROPANE**

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

Ignition of flammable vapors could lead to a fire or explosion and result in death or serious injury.

- All pilot lights must be extinguished and appliances and their ignitors turned off while refilling the fuel tank or propane container.
- Never smoke while refilling vehicle fuel tank or propane gas container.
- 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.

## SECTION 5 – PROPANE GAS



### WARNING

Do not place propane cylinders inside the vehicle.

Propane cylinders are equipped with safety devices that relieve excessive pressure by discharging propane to the atmosphere.

Propane gas is highly flammable.

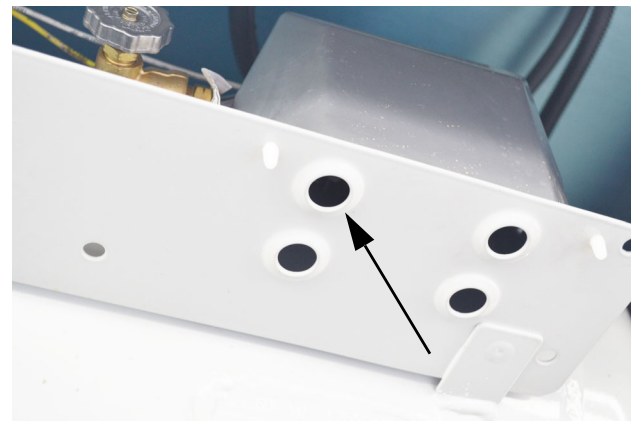
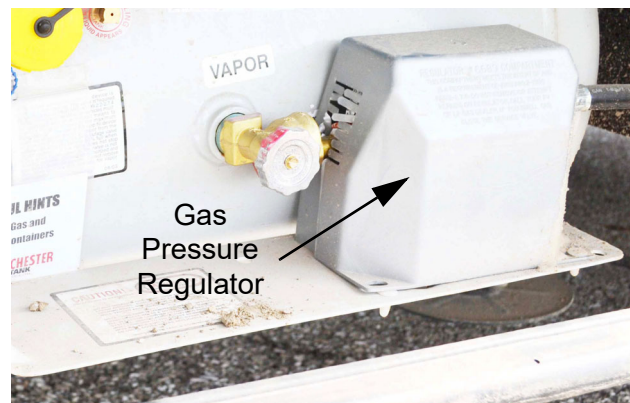
Can lead to a fire or explosion and result in death or serious injury.



### 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.

- 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.



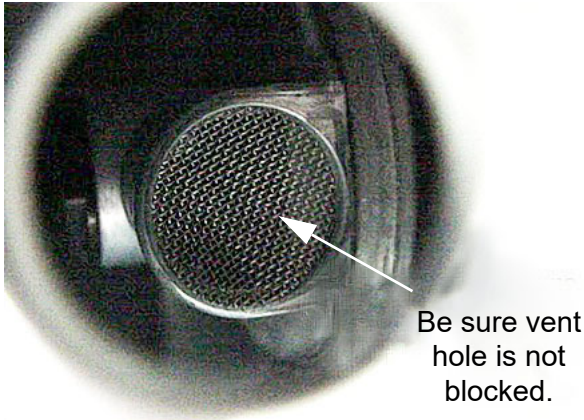
Look up inside hole on underside of regulator housing to see vent screen.

## 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.

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## **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

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Your motorhome 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.

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## 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.

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## 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 motorhome 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, microwave oven, and any 120-volt electrical equipment used at convenience outlets.

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## POWER CORD – EXTERNAL (Shoreline)

The external power cord (commonly referred to as a “shoreline”) is located in the utility compartment or water service center, depending on model.



### 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 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

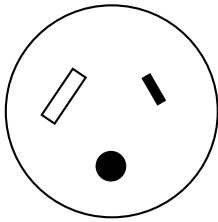
## SECTION 6 – ELECTRICAL

be used is designed to mate with the prongs of the power cord plug, the electrical connection can be expected to carry rated load.

### Connecting The Power Cord

To connect to an external source, remove the cord from the utility compartment and plug it into a suitable 50-amp power receptacle to provide external power to the motorhome and converter/charger system.

*NOTE: Some parks do not have 50-amp service available, so you will need to connect to a standard 30-amp service pole using an adapter.*

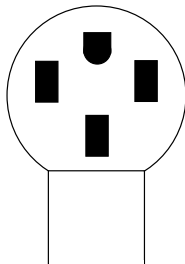


30 Amp Receptacle



### WARNING

This connection is for 110/125 Volt AC, 60 Hz 30 Ampere supply. Do not exceed circuit rating. Exceeding the circuit rating may cause a fire and result in death or serious injury.



50 Amp.  
Power Receptacle



### WARNING

This connection is for 208Y/120-Volt or 120/240 Volt AC, 3-pole, 4 wire, 60 Hz 50 Ampere supply. Do not exceed circuit rating. Exceeding the circuit rating may cause a fire and result in death or serious injury.

A flip-down hatch lets you route the power cord out the bottom of the compartment so you can close the compartment door while the power cord is connected.

1. Flip the hatch downward.



2. Swivel the cover section aside to reveal cord notch.



3. Route the cord through the notch and flip the hatch back up into place and close the compartment door.





**WARNING**

Service inlet access must be closed when utility connections are 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.

**INVERTER/CHARGER UNIT –  
2000W (PURE SINE WAVE)**

**–If Equipped**

The 2000-watt inverter/charger has an AC input circuit breaker to protect the inverter/charger from overloads. The inverter/charger also has “built in” features that protect the system from abnormal conditions. See the inverter/charger information included in your InfoCase for a complete explanation of the system and operating instructions.

*NOTE: The inverter is not intended for steady use while “dry camping”. Batteries will deplete quickly with use of the inverter. The inverter is intended for limited, short term power usage when not connected to shoreline or generator power. The inverter can also be used while*

*driving the motorhome because the engine alternator will charge the batteries while driving.*

The inverter/charger unit is located in the utility compartment or mid-passenger side compartment, depending on model.



**NOTICE**

Do not store items too closely around the inverter unit in the storage compartment. The inverter generates heat while operating and needs unrestricted airflow for proper cooling. Damage to the inverter can result.

The inverter converts 12-volt DC current from the house batteries into 120-volt AC current for use by 120-volt AC equipment in the motorhome.

**Charging Section**

While connected to 120-volt external power, the inverter/charger will recharge the house batteries using a 3-stage battery charger. It will also supply 12-volt DC current for use by 12-volt equipment in the motorhome.

If the house batteries have been significantly discharged, they will accept charge at a relatively high amperage rate. If they are only slightly discharged, they will charge at a lower amperage

## SECTION 6 – ELECTRICAL

rate. The rate of charge will decrease as the batteries reach full charge, then will continue “trickle” charging at a very low amperage rate.

The inverter/charger features a Battery Saver™ Mode, which is designed to keep batteries fully charged over long periods of time. See the inverter/charger information included in your InfoCase for more information on this feature.

If the batteries do not charge as described above, it is possible the batteries are defective. If the batteries are extremely discharged, the charger may not be able to recharge the batteries.

*NOTE: Do not leave the shoreline plugged in during storage. Follow regular battery inspection and maintenance.*

### Inverter/Charger Control Panel

The inverter/charger can be programmed for several charging options. It will also display warnings for overload conditions or other operating failure conditions.

The inverter/charger switches are located on the multiplex monitor panel.



- Press for Inverter charge options

When the inverter is not being used, it should be shut off at the control panel. The inverter could drain the house batteries if the shoreline is not connected to external power and the House/Coach Battery Disconnect switch is on.

### Further Information

See the inverter/charger manufacturer’s user guide provided in your InfoCase for complete instructions and charging setup directions.

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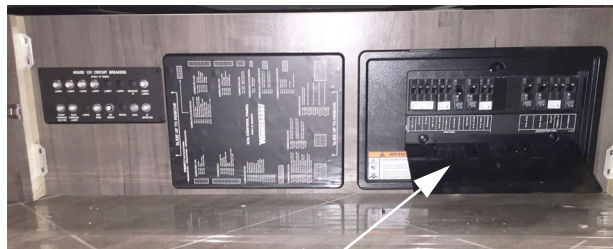
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## CIRCUIT BREAKERS – HOUSE 120-VOLT AC

The breaker panels protect all 120-volt components in the motorhome 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 “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.

The breaker panels are located behind a door or pull-off panel on a lower cabinet face in the galley or lounge area or beneath the rear bed, depending on model.



House Circuit Breakers  
-Typical Installation

*NOTE: Breakers are labeled on panel.  
Arrangement may vary according to  
appliance and equipment options.*

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## ELECTRICAL OUTLETS – HOUSE 120-VOLT AC

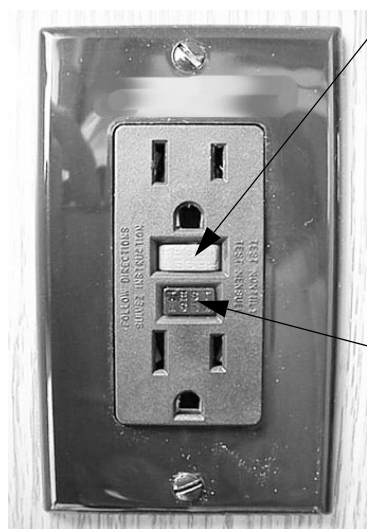
A number of standard household electrical outlets are provided throughout the motorhome for connecting small appliances such as televisions, radios, toasters, etc.

An exterior outlet is also located in the rear storage compartment on the passenger side of the motorhome.

## **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.

## **ELECTRICAL GENERATOR**



### **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.



### **WARNING**

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

## **Accessing the Generator**

Refer to “Front Service Access” in *Section 3 - Driving Your Motorhome*.

## **Automatic Power Transfer Switch**

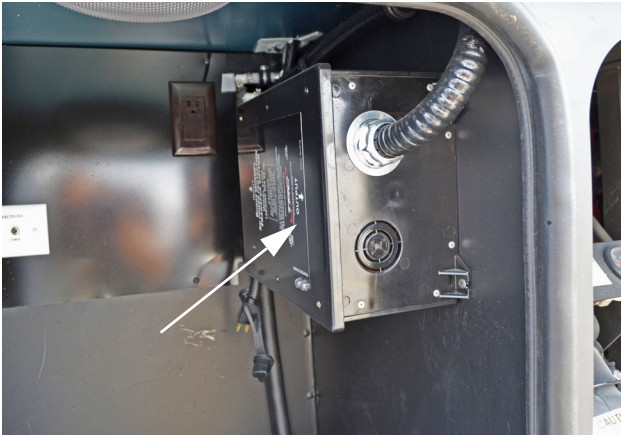
Whenever the Generator is started, an Automatic Power Transfer System automatically switches the household electrical system to the Generator approximately 30 seconds after the Generator is started. The 30 second delay allows the Generator to start easily without the burden of electrical loads.



### **WARNING**

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

## SECTION 6 – ELECTRICAL



Automatic Power Transfer Box  
(Located inside or behind  
utility compartment)  
-Typical installation shown

### Generator Basic Operation



Generator Switch and Hourmeter  
(Located on multiplex monitor  
panel “AC” Screen)  
-Typical View

## NOTICE

If operating the generator, always maintain 1/4 tank of diesel fuel to ensure proper system operation. The generator will shut down if the diesel fuel tank is below 1/4 tank. The system is designed to prevent you from depleting the entire fuel tank.

### To Start the Generator

Press and Hold the Generator switch in START position until you hear the generator running smoothly, then release.

### To Stop the Generator

Press and Hold the Generator switch in STOP position until you hear the generator come to a full stop, then release.

*NOTE: Your motorhome may be equipped with two additional Generator power switches (located on the dash and on the generator itself), depending on model.*

### Generator Hourmeter

The Generator Hourmeter 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.

### Further Information

See the Generator manufacturer’s user guide provided in your InfoCase for more information on this feature.

## 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 motorhome 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.

- Do not simultaneously operate the Generator and a power vent, which could draw exhaust gases into the vehicle.
- Do not open windows or vents on the end or side of the vehicle where exhaust pipe of the Generator is located.
- 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.
- 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 Generator oil level frequently during periods of use. Refer to the Generator manufacturer's user guide provided in your InfoCase for specific recommendations.*

### Further Information

Refer to the Generator manufacturer's user guide provided in your InfoCase for complete operating instructions, specific recommendations, troubleshooting tips, safety precautions, and maintenance information.

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## 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 “Converter” previously in this section.

### Chassis Battery

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

Refer to your chassis manual provided in your InfoCase 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 motorhome. 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, 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” in *Section 3 - Driving Your Motorhome*).

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

## SECTION 6 – ELECTRICAL

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### BATTERY INFORMATION

#### Chassis Batteries

The chassis batteries operate the engine starter and all automotive accessories and controls found on the instrument panel. The leveling jacks, slideout room system, and the electric step are also connected to the chassis battery.

The battery Isolation Manager (BIM) monitors the Battery Voltage of both the Chassis and Coach Batteries over long periods of time. If it senses a charging voltage, it connects the two batteries together. If the charging system is overburdened, the batteries will be isolated, however, if the BIM sees a long term charging of both batteries it will allow the batteries to remain connected and allow the charging system to do its job. Once the batteries have reached a Float Charge state for one hour, the BIM will isolate the batteries to prevent overcharging, and will only reconnect the batteries for charging if one of the Battery drops to approximately 80% charge, and the other is being charged. If the batteries are not being charged, BIM isolates the two batteries to prevent an electrical draw in one system from depleting the other battery.

If the house batteries are not being charged, the chassis batteries will be isolated to prevent an electrical draw on the house batteries from depleting the chassis batteries.

#### House Batteries

The house batteries supply current to 12-volt equipment located in the living area of the motorhome. This includes interior lights, range exhaust fan, water pump, water level and holding tank gauges, 120-volt generator starter, refrigerator, and bath roof vent fan. The house battery may also be used to start the engine if the automotive battery is discharged. (See “House/Coach Battery Disconnect switch” or “Battery Boost switch” in *Section 3 - Driving Your Motorhome*).

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

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### 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 motorhome 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 when the vehicle is in motion or in use.

*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)  
-Typical View

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### BATTERY ACCESS

#### House/Coach Batteries

The house/coach batteries are located behind the rear passenger side exterior door.



House/Coach Batteries  
-Typical View

### Chassis Batteries

The chassis batteries are located behind a rear driver side exterior door.



Chassis Batteries  
-Typical View

### 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 motorhome 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.

### NOTICE

Disconnect batteries before connecting external charging equipment to avoid damage to sensitive electronic components.



### WARNING

This vehicle, like other vehicles, may contain small amounts of one or more substances which are listed by the state of California for causing cancer or reproductive toxicity.

## SECTION 6 – ELECTRICAL

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### 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: Do not leave the shoreline plugged in during storage. Follow regular battery inspection and maintenance.*

**Further precautions are:**

- 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 motorhome 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 motorhome 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 motorhome, 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.



**House Circuit Breakers  
-Typical View**

*Typical view of breaker panel. Actual breaker panel location may vary according to model floorplan. Breakers are labeled on panel according to appliance and equipment options.*

## **Chassis Batteries**

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

Turn the Chassis Battery Disconnect switch (located near the entrance door) to the OFF position to disconnect batteries.

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## **CIRCUIT BREAKERS – HOUSE 12-VOLT**

All 12-volt circuits and equipment in the coach area of the motorhome are protected by the 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 press the breaker in to reset.

The House 12-Volt Breaker Panel is located behind a lower cabinet door in the galley area or beneath the bed, depending on model.

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



# 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 motorhome, or
- Any external fresh water source to which the motorhome 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 motorhome. 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



### WARNING

Potable water only.  
Sanitize, flush, and drain water tank before using.  
See owner's manual for instructions, care, and maintenance information.  
Failure to maintain tank can result in death or serious injury.

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

The tank is filled through the City Water Connection (Fresh Water Inlet) located inside the water service center.

The Fresh Water valve routes the water from the city water hose to the fresh water tank for filling.

1. Attach hose to the Fresh Water Inlet.



Fresh (City) Water Connection  
“Fresh Water Inlet”  
(Located in the water service center)  
-Typical View

2. Turn the Fresh Water valve to Tank Fill position.



Fresh Water Valve  
(Located in water service center)  
-Typical View

3. Turn city water supply ON.

## SECTION 7 – PLUMBING

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4. Use the level display on the monitor panel to oversee filling of the tank, or when the tank is full, water will flow from tank vent tube beneath motorhome.

### NOTICE

Do not leave fresh water connection unattended when filling tank. Failure to comply may result in tank expansion and property damage.

5. Turn OFF city water supply and disconnect from the Fresh Water Inlet.
6. Turn Fresh Water valve to Normal position to use the water pump. *The Tank Fill position is only for pressure filling the water tank from the city water hose connection.*



Fresh Water Valve  
(Located in water service center)  
-Typical View

### 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 pump prevents water from entering the pump and filling the storage tank.

1. Connect hose to Fresh Water Inlet as described in previous steps.
2. With the Fresh Water valve in the Normal position, turn the Water Pump switch(es) OFF.

*NOTE: Always keep the Fresh Water 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 supply OFF.
2. Open a faucet on the motorhome (such as the exterior wash station, if equipped) to relieve line pressure.
3. Disconnect hose from the motorhome and replace the cap on the Fresh Water Inlet.

*NOTE: Ensure the Fresh Water valve is in NORMAL position to use the water pump. If the valve is in Tank Fill position, the pump will run continuously without delivering water.*

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## WATER PUMP

When your motorhome 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.

### Water 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 if using the blowout winterization procedure.*



Water Pump Strainer  
-Typical View

### To Clean Pump Strainer

- Ensure 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.

### Water Pump Switch

The Water Pump switch is located on the monitor panel (some models may have an additional switch in the water service center, near the exterior shower, or within the bathroom area for your convenience).

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

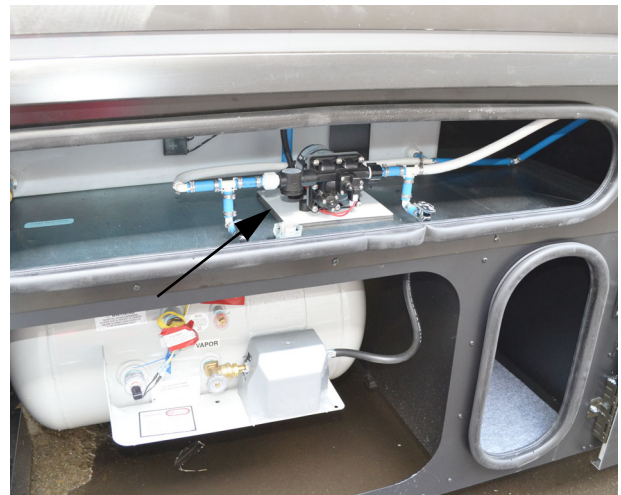
**Do not leave the pump on while away from your motorhome or while driving.** In time, a slow leak in a faucet could drain the water tank, fill the holding tank, and discharge the house batteries.

### Initial Waterline Priming

1. Ensure 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 the 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 ensure the Water Pump stops soon after all faucets have been closed.
8. The Water Pump is now ready for automatic operation. The pump will start when a faucet is opened and stop when the faucet is closed.

### Further Information

Refer to the Water Pump manufacturer’s operation, care, and maintenance information provided in your InfoCase.

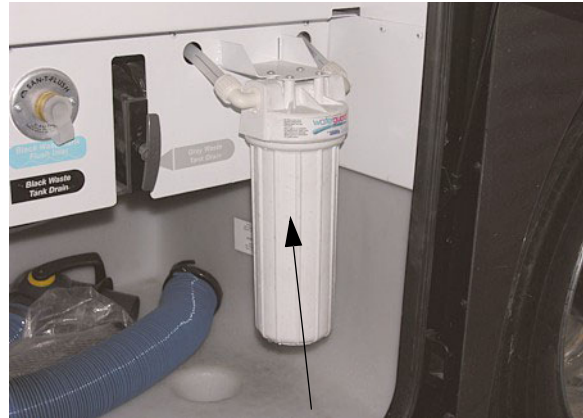


Water Pump  
(Located in driver side front compartment)  
\*Model 34T

## SECTION 7 – PLUMBING



Water Pump  
(Located in a passenger side compartment)  
\*Model 36G



Full-Coach Water Filter System  
(Located in water service center)  
-Typical View



Water Pump  
(Located in a passenger side compartment)  
\*Models 38F and 38W

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## FULL-COACH WATER FILTRATION SYSTEM

### –If Equipped

The full-coach water filtration system is connected to the cold water lines throughout the motorhome. It uses a flow-through filter that removes chlorine, cloudiness, and sediments, resulting in clear, odorless and taste-free clean water for drinking, cooking, and personal care.

### Replacing the Full-Coach Water Filtration Cartridge

Replace the filter cartridge after 1,000 gallons of usage or sooner if water flow from faucets is noticeably reduced.

- Turn off the water supply and relieve water line pressure by opening a faucet.
- Remove the filter canister from the filter head. Use the filter wrench supplied to loosen the filter canister.



- Unscrew the canister from the filter head. (There will be water inside the canister).
- Remove the large O-ring seal from the canister. Check seal for damage, wipe clean, and set aside. Discard the used filter cartridge.
- Wash the inside of the canister with dish soap and warm water using a nonabrasive sponge or cloth. Rinse thoroughly.
- Fill canister about 1/3 with clean water and add a couple of tablespoons of household bleach, then scrub with a sponge or brush to disinfect. Rinse thoroughly.
- Lubricate the O-ring with clean silicone grease to ensure a proper watertight seal, then place back into the groove at the bottom of the canister threads.

*NOTE: The O-ring should be replaced every third cartridge change to ensure proper sealing. See your dealer for replacement cartridges and O-rings.*

- Insert a new filter cartridge into the canister, then hand tighten the canister securely onto the filter head. **DO NOT OVER-TIGHTEN.**
- Turn the Fresh Water Valve to Normal position. Next open a faucet inside the motorhome or the exterior shower, then turn city water on **SLOWLY** to allow the canister to fill with water.
- Thoroughly flush the filtration system by running the water for twenty (20) minutes.
- Check for leaks.

See “Winterizing Procedure” in this section to prepare the water filtration system for freezing conditions.

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## **DISINFECTING YOUR FRESH WATER SYSTEM**

**(As required by NFPA®1192 Standard on Recreational Vehicles)**

### **–For motorhomes with Full-Coach Water Filtration 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.

### **Disinfecting with Gravity Fill –If Equipped**

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 through the gravity fill port. 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.

*NOTE: If a 100 ppm concentration is desired, 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.*



## **WARNING**

Chlorine is poisonous. Do not misuse. Recap bottle and clean all utensils after use.

2. Complete filling of tank with fresh water.
3. Open each faucet in the motorhome 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.

## SECTION 7 – PLUMBING

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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 (if equipped) 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.

### City Water Tank and Hose Disinfection

This procedure can be used periodically to sanitize the city water hose, and can be used as an alternate method of adding bleach solution to the fresh water tank if desired.

1. Connect a water hose to the Fresh Water Inlet (located in the water service center).
2. Turn the Fresh Water valve to the Tank Fill position.
3. Remove the Full-Coach Water Filtration cartridge from the filter canister. Refit empty canister to filter head for procedure.
4. Hold the “city end” of the water hose upright and use a funnel to pour 1 1/2 cups of household chlorine bleach (sodium hypochlorite solution) into the hose. Keep the end of the hose held upright to avoid draining the bleach solution.
5. Connect the hose to a city water source and turn on slowly, allowing the water to force the bleach through the hose, then continue filling the tank with water. (This will disinfect the city water hose at the same time).
6. 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.*
7. Drain the chlorinated water from the fresh water tank and refill with clean water.

### 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 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 will be removed from drinking water by the Full-Coach Water Filtration System.
- Superchlorination does not affect city water usage, only the fresh water tank.

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### 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.

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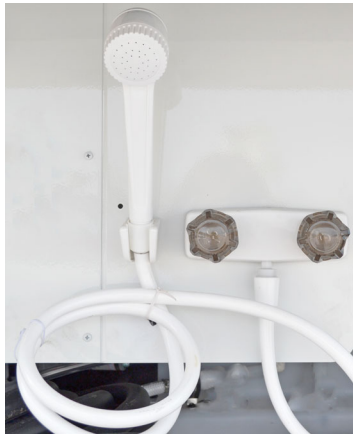
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### EXTERIOR SHOWER/WASH STATION

#### –If Equipped

The Exterior Shower/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 motorhome. Some models may have a Water Pump switch located near the shower faucet for convenience.

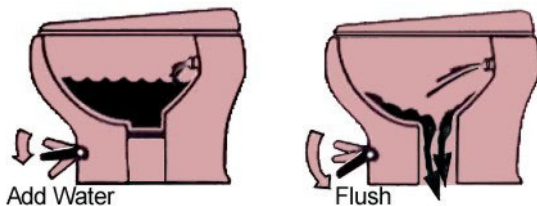




Exterior Shower/Wash Station  
-Typical View

## TOILET

The toilet in your motorhome 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.

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

### Further Information

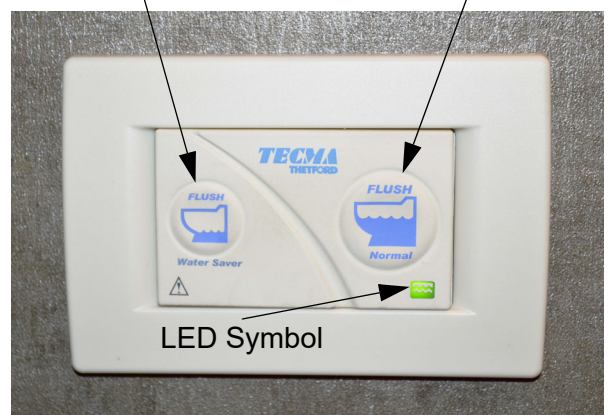
See the toilet manufacturer's operation information in your InfoCase for complete operating, care, and maintenance information.

## TOILET – ELECTRIC FLUSH

### -If Equipped

Your motorhome may be equipped with an electric macerating toilet, which provides powerful, yet whisper quiet operation. It is equipped with a wall-mounted push button control and operates on minimal water consumption.

Water Saver Flush      Normal Flush



Wall Switch/Controller  
(Located on wall near toilet)

### Water Saver Flush Button

- Press and release to flush liquids and small amounts of toilet paper.

### Normal Flush Button

- Press and release to flush solids and toilet paper.

### LED Symbol

- Symbol not lighted - Toilet is OFF, in sleep mode, or not receiving power.
- Symbol lighted GREEN - Toilet is ON and the holding tank is between empty and half full.
- Symbol lighted YELLOW - Toilet is ON and the holding tank is at least half full.
- Symbol lighted RED - Toilet system is ON and the holding tank is full.

## SECTION 7 – PLUMBING

### 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.

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

### Further Information

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

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## 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 motorhome.

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

### Washer/Dryer

#### –If Equipped

In addition to pouring water down sink and shower drains, also run a wash cycle to ensure there is an adequate amount of water in the washer p-trap.

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## 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.

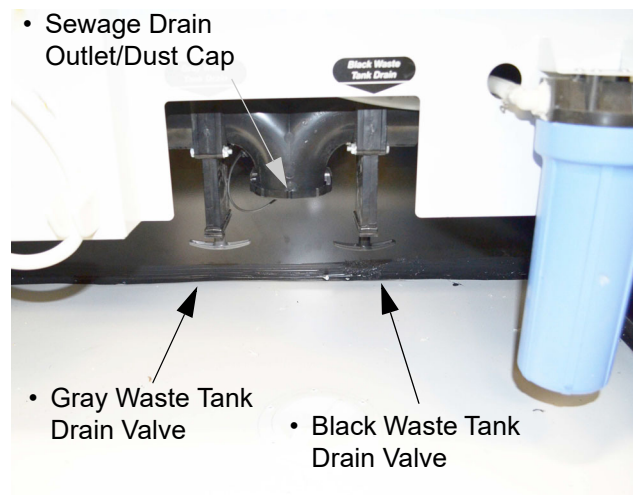
The black water holding tank contains the sewage from the toilet and may include bathroom lavatory on some models. The gray water holding tank contains the waste water from the galley sink and shower, and may include bathroom lavatory.

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

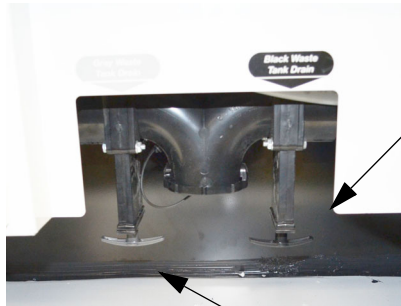
### Dumping Holding Tanks

1. Remove sewage drain hose from water service center.
2. Remove dust cap from sewage drain outlet and connect sewage drain hose. Be sure it is firmly attached.

#### Model 34T and 36H



Holding Tank Drain Valves  
(Located in holding tank compartment)  
-Typical View



- 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.

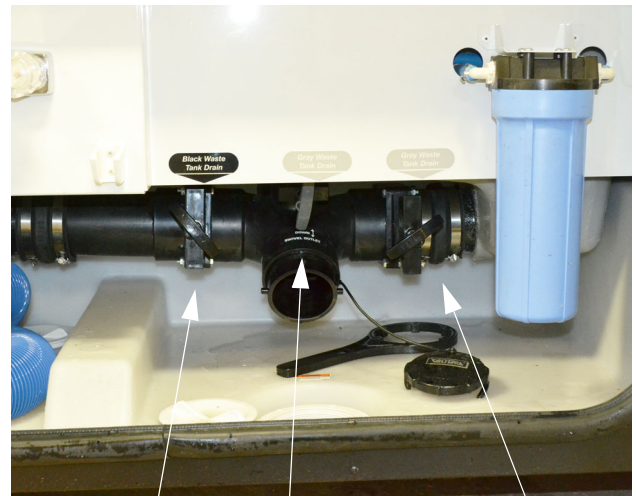
**Model 38F**



Gray Waste Tank Drain Valve      Black Waste Tank Drain Valve      Gray Waste Tank Drain Valve

Black and Gray Waste Tank Drain Valves  
(Located in water service center)  
\*Model 38F

**Model 38W and 38D**



Black Waste Tank Drain Valve      Gray Waste Tank Drain Valve      Gray Waste Tank Drain Valve

Black and Gray Waste Tank Drain Valves  
(Located in water service center)  
\*Model 38W

*NOTE: The sewage drain outlet swivels downward (on certain models) 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.

*NOTE: Black and Gray waste tank drain 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*

## SECTION 7 – PLUMBING

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.

**Models 38F, 38W, and 38D is featured with two gray waste tanks. Therefore, two Gray Waste Tank Drain Valves must be opened.**

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

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

### Flushing your Black Water Holding Tank

The black water holding tank is equipped with an internal spray head that allows you to rinse the inside of the tank with a shower of clean water after dumping.



#### CAUTION

Do not use the tank flush valve unless the fullway termination valve is in the open position. May result in an unsanitary condition leading to illness or personal injury.

1. Dump your black water holding tank in the usual manner at approved sewage disposal station.
2. Leave Black Waste Tank Drain valve open while flushing tank.
3. Attach a garden hose from a city water hydrant to the Black Waste Tank Flush Inlet fitting in the water service center. (This inlet is clearly marked separate from the City Water inlet).



Black Waste Tank Flush Inlet  
(Located in water service center)  
-Typical View

4. Turn the water on to begin flushing. Allow water to run for about three minutes.
5. Disconnect hose from flushing system and close Black Waste Tank Drain valve.

### Using On-Site Sewer Hook-Ups

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



#### WARNING

Service inlet access must be closed when utility connections are 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.

*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.

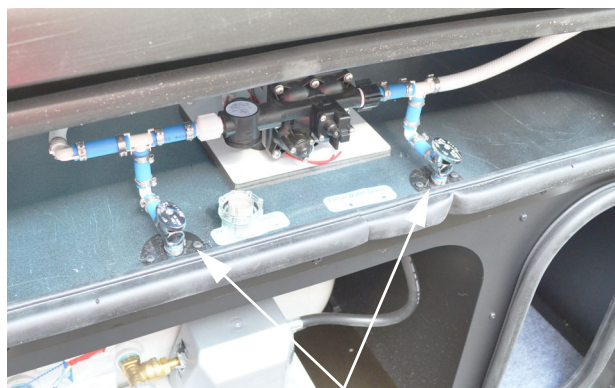
See “Specifications” in *Section 1 - Introduction* for tank capacities for your model.

## **WATERLINE AND TANK DRAIN VALVES**

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

See the “Water System Drain Valve Locations” chart at the end of this section for locations on your model.

### **Waterline Drain Valves**



Waterline Drain Valves  
(Located in second driver side compartment)  
\*Model 34T shown

### **Water Tank Drain Valve**



Water Tank Drain Valve  
(Located in passenger side compartment)  
\*Model 38W shown

## **WINTERIZING PROCEDURES**

Certain areas of your water system require additional attention and disconnecting or blowing out these lines may be required. Be sure all water is drained from the system.

You can winterize the water and plumbing system of your motorhome 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 Motorhome.** If the motorhome 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 the end of this section for locations on your model).
3. **Drain Exterior Shower/Wash Station.** Open exterior shower knobs and lay shower head on ground to drain any water left in the shower line. Also, place the tip of your finger

## SECTION 7 – PLUMBING

into the Fresh Water Inlet and gently press the backflow valve “button” in the center of the inlet to drain any water trapped in the city waterline.

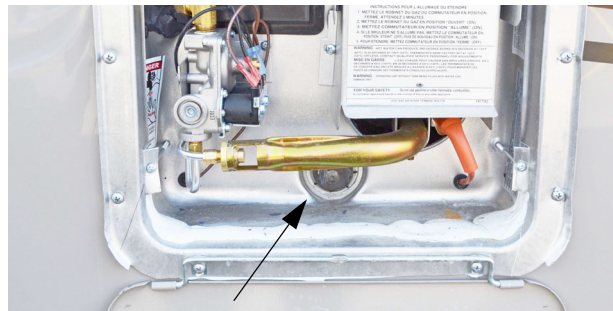


Using exterior shower to drain waterline  
-Typical View

- 4. Remove Full-Coach Water Filter.** Remove the filter canister from the Full-Coach Water Filtration System in the water service center and discard the filter cartridge. After emptying the canister, remount it onto the filter assembly and continue the Blow-Out Procedure.
- 5. Drain Optional Appliances.** At this time, if your motorhome is equipped with an optional refrigerator ice maker or washer/dryer, the waterlines for these appliances must also be drained. (See “Winterizing Optional Appliances” at the end of this section for further information.)  
If not, proceed to the next numbered step.

### Drain Water Heater (with Tank) -If Equipped

- 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 motorhome. (Requires socket and ratchet).

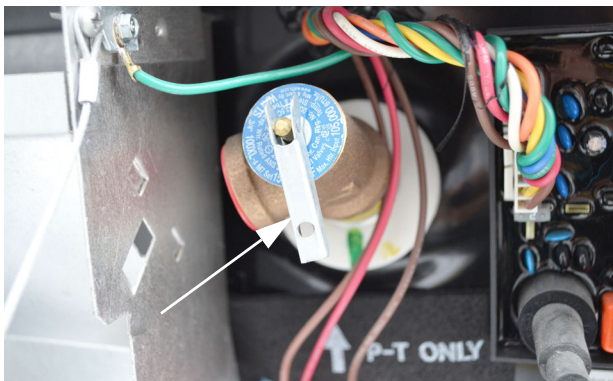


Water Heater Drain Plug  
(Remove with socket)

### CAUTION

Hot water can escape from tank causing injury. Operate relief valve or remove drain plug only when the tank water is cold.

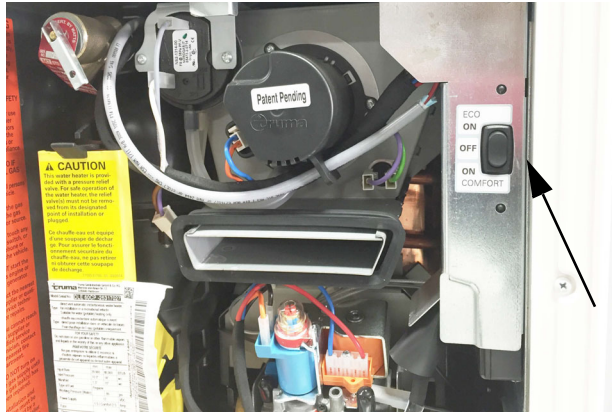
- Also, open the Pressure-Temperature Relief valve at the top right portion of the tank to prevent air locking in the tank while draining.



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

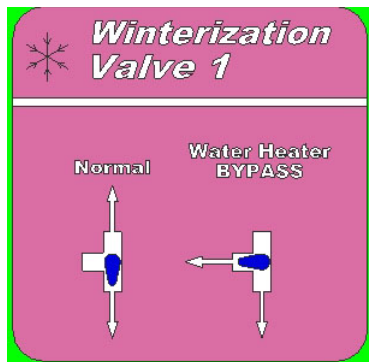
### Drain Water Heater (Tankless) -If Equipped

- Turn the Water Heater Power Switch (located behind water heater access panel on exterior of the motorhome) to the OFF position and allow hot water to cool down.

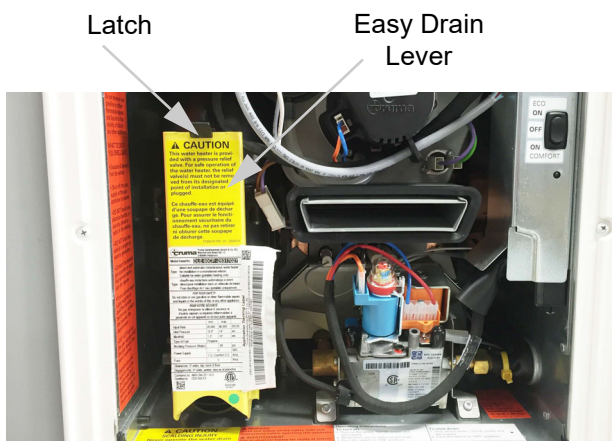


**Water Heater Power Switch**  
(Located behind water heater access panel on exterior of motorhome)

- **Turn Winterization Valve 1 (Water Heater Bypass)** to bypass position.

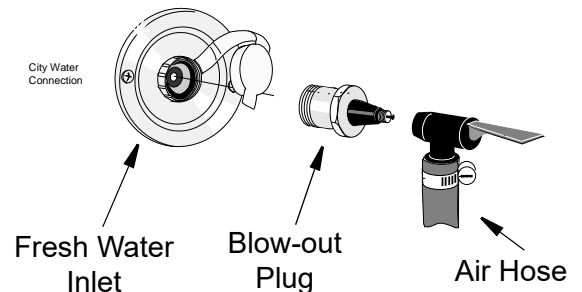


- Open the latch with your thumb while pulling the Easy Drain Lever down as far as it will go.



**Easy Drain Lever**  
(Located behind water heater access panel on exterior of the motorhome)

- Remove the water inlet filter and clean with clean water. Leave the water filter inlet removed until the Winterization process is complete or the system is placed back in use.
- 6. **Open Faucets.** Turn on the Water Pump switch and open all sink faucets and shower head knobs. Leave open after water stops flowing.
- 7. **Drain Toilet.** Press the toilet flush pedal (or electric wall switch, if your motorhome is equipped with an electric flush toilet) and hold until water stops flowing in the toilet. Then turn Water Pump switch off.
- 8. **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 Fresh Water Inlet (city water connection) in the water service center. 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 Industries® 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.*

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

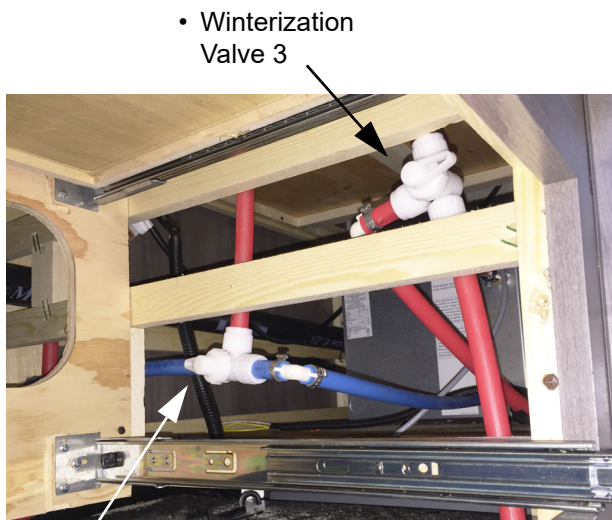
## SECTION 7 – PLUMBING

- 10. Drain Toilet.** Press and hold the toilet flush lever (or electric wall switch, if your motorhome is equipped with an electric flush toilet) until water is completely drained from toilet.

### Tankless Water Heater Only

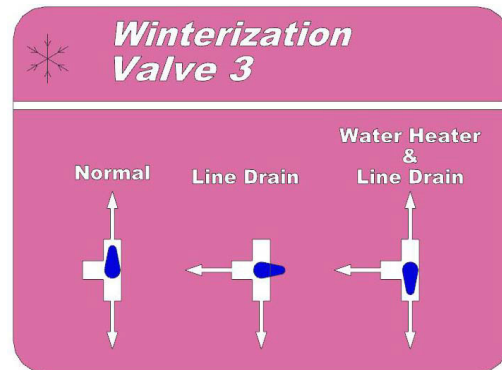
If your motorhome is not equipped with a Tankless Water Heater continue to next numbered step.

See “Water System Drain Valve Locations” chart at the end of this section for location of bypass valve on your model.

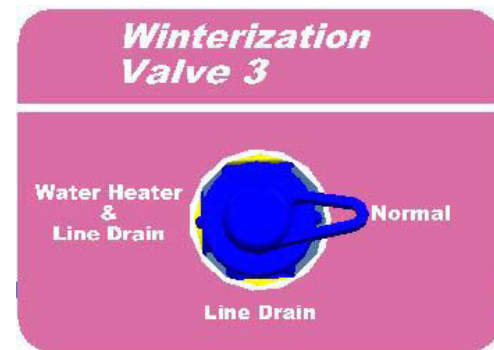


- Winterization Valve 3
- Winterization Valve 1
- **Turn Winterization Valve 3** from “Normal” position to “Line Drain” position to blow out the hot water recirculation line.
- **Turn Winterization Valve 3** to “Water Heater & Line Drain” position to allow all remaining water to leave the system. Leave the valve in this position until the Winterization process is complete or the system is placed back in use.

\*Model 38W shown



\*Models 34T, 38F and 38W



\*Model 36G

*NOTE: See the tankless water heater operator’s manual located in your InfoCase for additional draining procedures.*

- 11. Turn air pressure off.** Disconnect water purge adapters. Recap the Fresh Water Inlet to avoid contamination by dirt or insects.

### After Disconnecting Air Pressure

12. Empty the Full-Coach Water Filtration canister of any water trapped during the Blow-Out Procedure. Remount empty canister onto filter assembly.
13. Close all waterline and tank drain valves and all faucets to avoid contamination by dirt, insects, or rodents.
14. Reinstall the Water Heater drain plug and close the P-T Relief valve.



15. 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 motorhome 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.*

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

### **Dump and Clean Holding Tanks**

17. 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 hose.
18. Flush the sewage tank using the Black Waste Tank Flush Inlet.
19. Close waste tank drain 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 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 motorhome.*

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

The system features a Winterization (diverter) valve with an antifreeze siphon 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.

Leave Water Heater Bypass valve 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. Automotive coolant/antifreeze contains ethylene glycol which, if ingested, can cause blindness and can be fatal.

1. **Level the Motorhome.** If the motorhome 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 the end of this section for locations of drain valves on your model).

### **Remove Water Filter**

3. Remove and discard the filter cartridge from the cold water filter assembly below the galley sink. (If your motorhome is not equipped with filtered cold water, continue to next numbered step).

## SECTION 7 – PLUMBING

- Place a container beneath the filter to catch any water remaining in the waterlines during filter removal.
- Twist the filter cartridge “counter-clockwise” about one-quarter turn, then pull it down and out of the filter socket.

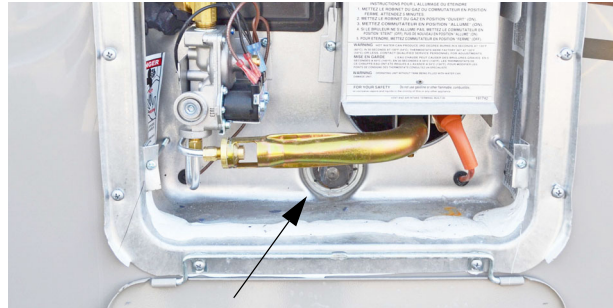


- Install the diverter plug into the filter socket. Insert plug up into the filter socket as far as possible and twist “clockwise” one-quarter turn until it stops.



### Drain Water Heater (With Tank) –If Equipped

- 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 motorhome (requires socket and ratchet).

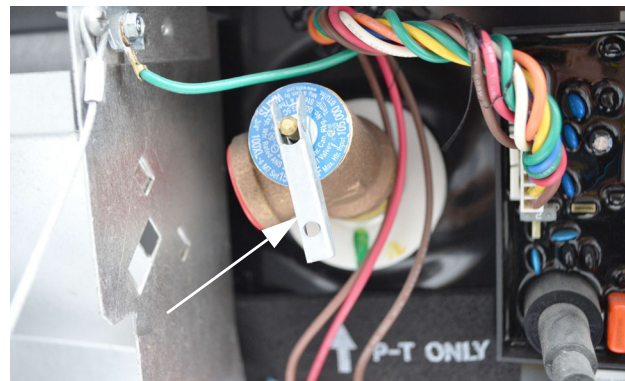


Water Heater Drain Plug  
(Remove with socket)

### CAUTION

Hot water can escape from tank causing injury. Operate relief valve or remove drain plug only when the tank water is cold.

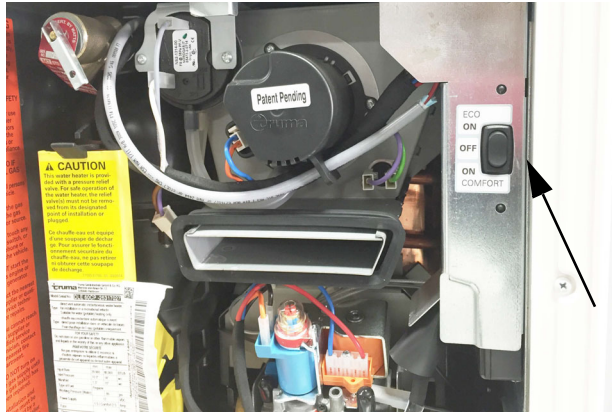
- Open the Pressure-Temperature Relief Valve at the top right portion of the tank to prevent air locking in the tank while draining.



- Lift handle straight out to open P-T valve when water heater is cold.
- Reinstall the water heater drain plug and close the P-T Relief Valve when drained.

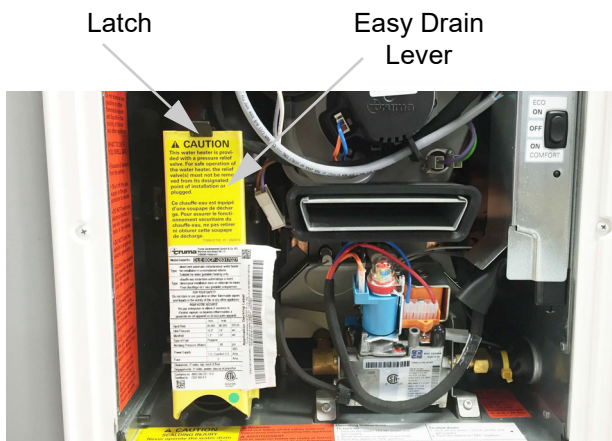
### Drain Water Heater (Tankless) –If Equipped

- Turn the Water Heater Power Switch (located behind water heater access panel on exterior of motorhome) to the OFF position and allow hot water to cool down.



**Water Heater Power Switch**  
(Located behind water heater access panel on exterior of the motorhome)

- Open the latch with your thumb while pulling the Easy Drain Lever down as far as it will go.
- Remove the water inlet filter and clean with clean water. Leave the water filter inlet removed until the Winterization process is complete or the system is placed back in use.

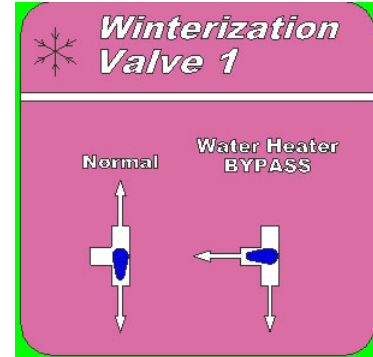


**Easy Drain Lever**  
(Located behind water heater access panel on exterior of the motorhome)

**Set Up Winterization Valves**

See “Water System Drain Valve Locations” chart at the end of this section for location of bypass valve on your model.

4. Turn **Winterization Valve 1** to **BYPASS** position (to avoid filling water heater with antifreeze).



5. Remove and save the protective cap from the end of the antifreeze siphon tube (save cap to cover tube after use.)
6. Insert the end of the siphon tube into a pail or container with 2 to 3 gallons of non-toxic RV antifreeze solution.
7. Turn **Winterization Valve 2** handle so that it points toward the siphon tube.  
**See “Water System Drain Valve Locations” chart at the end of this section for location on your model.**

*NOTE: Ensure that all drain valves are CLOSED before pumping RV antifreeze into the water system. Refer to the “Water System Drain Valve Locations” chart at the end of this section for valve locations on your model.*

**Fill Lines**

8. Turn the Water Pump switch ON.
9. Open each hot and cold water faucet handle/knob in the motorhome – 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).
10. Press the toilet flush pedal (or electric wall switch, if your motorhome is equipped with an electric flush toilet) and hold until antifreeze begins flowing into the toilet. Leave a small amount of antifreeze that remains in the bowl.  
*If your motorhome is not equipped with a tankless water heater continue to Step 12.*

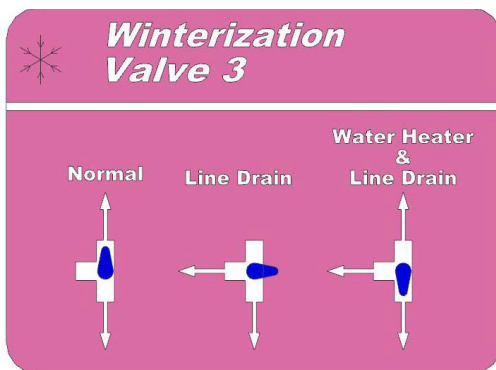
## SECTION 7 – PLUMBING

### 11. For Tankless Water Heater Only: Turn

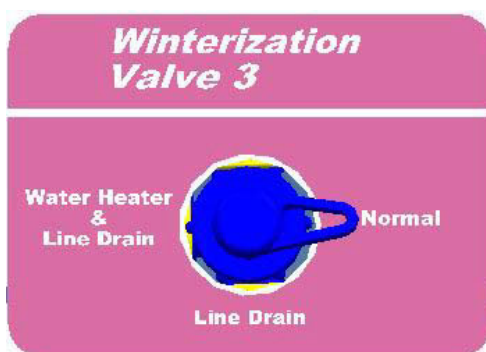
**Winterization Valve 3** from “Normal” position to “Line Drain” position to allow water and antifreeze to flow through the recirculation line.

- Turn Water Pump switch OFF.
- **Turn Winterization Valve 3** to “Water Heater & Line Drain” position to allow all remaining water and antifreeze to leave the system. Leave the valve in this position until the Winterization process is complete or the system is placed back in use.

*NOTE: See the tankless water heater operator’s manual located in your InfoCase for additional draining procedures.*



\*Models 34T, 38F, 38W and 38D



\*Model 36H

### When Done Adding RV Antifreeze

12. Turn the Winterization valve so it points toward the waterline connected to the water pump.

This will stop the flow from the antifreeze siphon tube and revert the tank line flow to the water pump.

13. Replace the protective cap onto the end of the antifreeze siphon tube to keep out insects or debris when not in use.

### Fill Drainage System P-Traps

14. 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 motorhome during storage.

### 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 dump outlet and sewer hose.
16. Close dump valves and refit the dust cap onto the 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 winterized.*

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

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## WINTERIZING OPTIONAL APPLIANCES

### Winterizing Ice Maker (Residential Refrigerator)

1. Remove Ice Maker Drain Line from exterior Residential Refrigerator service compartment and allow to hang loose on outside of vehicle.



**Ice Maker Drain Line**  
(Located in exterior Residential  
Refrigerator service compartment)

2. Turn Ice Maker Winterization Drain valve to the OPEN position.



**Ice Maker Winterization Drain Valve**  
(Located in exterior Residential  
Refrigerator service compartment)

*NOTE: Leave the Ice Maker Winterization Drain valve in the OPEN position throughout storage period.*

3. Use an air compressor with pressure output of 30 psi to blow out drain lines.
4. After the last batch of ice dispenses, raise the wire shut-off arm to the OFF position.
5. Empty ice bin.

**To use Ice Maker again after seasonal storage:**

1. Close all drain valves.
2. Turn Ice Maker Winterization Drain valve to the CLOSED position.

3. Turn the water supply ON.
4. Ensure the ice bin is in place and the wire shut-off arm is lowered to the ON position.
5. Allow the refrigerator to cool down to ice making temperature. Remember, this can take up to 24 hours.

*NOTE: Discard the first two batches of ice cubes. It will take approximately three cycles for the Ice Maker to produce fully formed, clean ice cubes.*

**Winterizing Washer  
–If Equipped**

*See the appliance manufacturer's user guide provided in your InfoCase for complete winterizing instructions, operating instructions, and safety precautions.*

**SECTION 7 –  
PLUMBING**

<b>WATER SYSTEM DRAIN VALVE LOCATIONS</b>	
<b>System</b>	<b>Drain Valve Locations</b>
<b>Waterlines</b>	<ul style="list-style-type: none"> <li>• <b>Model 34T:</b> Two (2) waterline drain valves located inside water pump compartment (second compartment on driver side). Open exterior shower faucet and lay shower head on ground.</li> <li>• <b>Model 36H, 38F, 38W, and 38D:</b> One (1) waterline drain valve located inside water pump compartment (fourth compartment on passenger side). Open exterior shower faucet and lay shower head on ground.</li> </ul> <p><i>NOTE: Also, to drain any water left in the city waterline, place the tip of your finger inside the city water connection and gently press the backflow valve (small “button” in center of connector).</i></p>
<b>Water Tank</b>	<ul style="list-style-type: none"> <li>• <b>Model 34T:</b> One (1) valve located inside water pump compartment (second compartment on driver side).</li> <li>• <b>Models 36H, 38F, 38W, and 38D:</b> One (1) valve located inside water pump compartment (fourth compartment on passenger side).</li> </ul>
<b>Water Heater</b>	<ul style="list-style-type: none"> <li>• <b>Water Heater with Tank</b> - Drain plug on outside of the motorhome behind service door. Use socket to remove drain plug.</li> <li>• <b>Tankless Water Heater</b> - Drain from outside of the motorhome behind service door. Pull down the Easy Drain Lever and remove the Water Inlet Filter.</li> </ul>
<b>Winterization Valve 1</b>	<ul style="list-style-type: none"> <li>• <b>Model 34T:</b> One (1) valve located beneath bed. Lift bed board to access.</li> <li>• <b>Model 36H:</b> One (1) valve located beneath galley sink. Remove panel to access.</li> <li>• <b>Model 38F:</b> One (1) valve located inside rear bathroom sink cabinet.</li> <li>• <b>Model 38W and 38D:</b> One (1) valve located inside bathroom sink cabinet. Remove lower right side drawer to access valve.</li> </ul>

<p><b>Winterization Valve 3 Tankless Water Heater Only</b></p>	<ul style="list-style-type: none"> <li>• <b>Model 34T:</b> One (1) valve located beneath bed. Lift bed board to access.</li> <li>• <b>Model 36H:</b> One (1) valve located beneath galley sink. Remove panel to access.</li> <li>• <b>Model 38F:</b> One (1) valve located inside rear bathroom sink cabinet.</li> <li>• <b>Model 38W and 38D:</b> One (1) valve located inside bathroom sink cabinet. Remove lower right side drawer to access valve.</li> </ul>
<p><b>Winterization Valve 2 (Antifreeze Siphon)</b></p>	<ul style="list-style-type: none"> <li>• <b>Model 34T:</b> One (1) valve located inside water pump compartment (second compartment on driver side).</li> <li>• <b>Models 36H, 38F, 38W, and 38D:</b> One (1) valve located inside water pump compartment (fourth compartment on passenger side).</li> </ul>





# SECTION 8 – ENTERTAINMENT

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## 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.*

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## BLU-RAY™ PLAYER AND SOUND BAR SYSTEM

### –If Equipped

The Blu-ray™ Player and Sound Bar 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 Sound Bar and Blu-ray player.

### To Watch a Blu-ray:

1. Turn “ON” the TV, Sound Bar, and Blu-ray player.
2. Set TV Input to HDMI1 by using the TV remote or the controls on the TV.
3. Set Sound Bar Source to Optical input by using the Sound Bar remote.
4. Insert Blu-ray into the player. Blu-ray will begin to load automatically.
5. The Blu-ray 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 chapter “skip” button on the Blu-ray player remote until you see the main menu screen.
6. When the main menu screen appears, use the arrow buttons on the Blu-ray player remote to select the desired entry or press the “Enter” button on the Blu-ray player remote to begin playing the feature.

## TV Sound through the Sound Bar (Lounge TV Only)

When watching TV programs (broadcast, cable, or satellite), the TV normally plays sound through its own built-in stereo speakers. To connect TV sound output to the Sound Bar for a richer sound quality, follow these steps:

- Turn “ON” the TV and Sound Bar.
- Select the TV channel you wish to watch.
- Press the “Source” button on the Sound Bar remote until the display reads “D.IN”.
- Turn Sound Bar volume up or down.

## Listen to Music stored on a Bluetooth device

- Press the “Source” button on the top panel of the Sound Bar or on the Sound Bar remote until display reads “BT”.
- On your Bluetooth device, perform the pairing operation. A list of devices found will appear on your device. Select the Sound Bar.
- Enter the PIN code 0000 (if required).
- When the devices are paired, the Sound Bar will display the device name.
- Turn the Sound Bar volume up or down.

## Turning TV Speakers On/Off

TV speakers can be turned off to prevent an echo effect when using an external speaker (sound bar). Every TV is slightly different, refer to the TV manufacturer’s user guide provided in your InfoCase for detailed instructions on turning TV speakers off.

## Further Information

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

## SECTION 8 – ENTERTAINMENT

### TV – BEDROOM (FLIP DOWN)

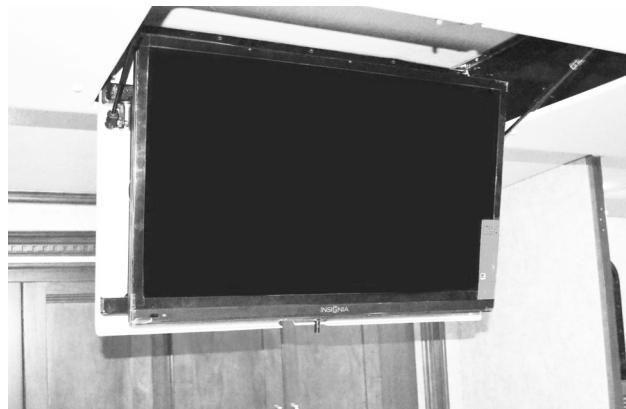
–If Equipped

(Typical View - your motorhome may vary in appearance)

Your motorhome may be equipped with a Flip Down TV mounted above the bed.

#### To Flip Down TV

- Place hand on TV housing and Push the release lever to lower TV.



- Reverse steps to store TV. 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.

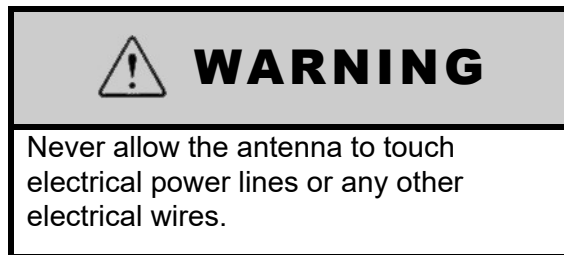
### TV ANTENNA – DIGITAL

(Omnidirectional Digital HDTV Over-the-Air Antenna)

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

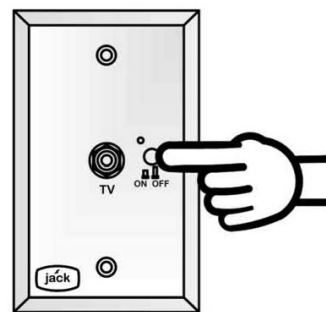
The digital antenna is equipped with a built-in amplifier for maximum VHF and UHF programming.

A built-in signal amplifier designed to strengthen signals, is controlled by a power switch built into the optional video selector panel or on a wall plate assembly.



#### Operating the Digital Antenna

- Turn the Digital Antenna Power Switch ON.



Digital Antenna Power Switch  
(Located in an overhead cabinet or mounted on a wall near the TV)

*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.

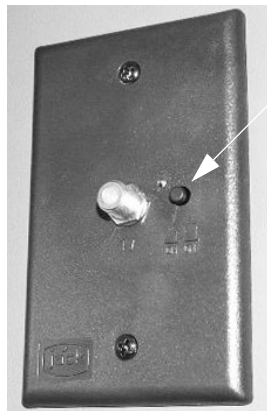
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## **TV SIGNAL AMPLIFIER**

The TV Signal Amplifier is built into the antenna and can be turned on or off with a power switch.

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



- Power Switch

TV Signal Amplifier Power Switch  
(Located in passenger side overhead compartment).  
-Typical View

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## **SATELLITE DISH AND CABLE TV CONNECTIONS (INPUT)**

The portable satellite dish and cable television input connectors are located in the utility compartment, shoreline compartment, or water service center, depending on model.

To receive a cable signal, turn off the TV Signal Amplifier.



Satellite Dish and Cable TV Connections  
(Located on the Water Center Panel)  
-Typical View

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## **TV DIGITAL SATELLITE SYSTEM WIRING**

Your motorhome is pre-wired for installation of a digital satellite TV system. Coaxial cable and high definition component cable connections are available to hook up your satellite receiver and are located in 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 Satellite Dish Connections  
(Located in the entertainment center cabinet)  
-Typical View

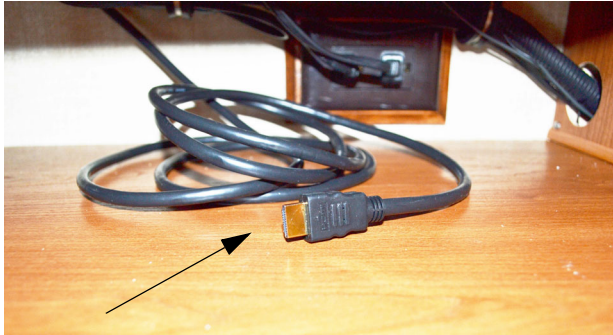
*NOTE: Your motorhome is pre-wired with two satellite dish coaxial cables from the roof-mounted satellite dish. Both cables*

## SECTION 8 – ENTERTAINMENT

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are located near the front TV entertainment center cabinet (satellite prep area).

If you desire a satellite receiver in the bedroom area, a third coaxial cable is provided from the front satellite prep area to the bedroom satellite prep area (a jumper cable is required at the front satellite prep area for operation).



HDMI Connection Cable  
(Located in the entertainment center cabinet)  
-Typical View

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### TV DIGITAL SATELLITE SYSTEM – AUTOMATIC

#### -If Equipped

The Automatic Multi-Satellite Television System allows you to receive TV programs directly from satellite to your motorhome.

We recommend that you read the satellite dish manual thoroughly to understand the system completely before attempting any setups or adjustments.

- The motorhome must be parked and level before attempting to operate the automatic antenna dish.
- There must be a clear “line of sight” to the satellite. Mountains, buildings, trees, telephone poles and other obstructions can all block the satellite signal from reaching the dish.
- When activated while parked, the dish antenna will seek the selected satellite automatically.



Automatic Multi-Satellite Dish Control  
(Located in overhead cabinet or  
entertainment center cabinet,  
depending on model)  
-Typical View

### Automatic Operation

1. Press and Hold the Power button for two seconds until the display reads “POWER ON”.
2. The antenna will start the “searching” process first locating the home position. Then it will lock onto three different satellites. The antenna will display an asterisk for each satellite found.
3. To turn off the power after it has locked onto satellites, press the “POWER” and “SELECT” buttons at the same time.

*Note: The Automatic Multi-Satellite antenna is not meant for use while traveling. Do not move the vehicle until the antenna is stowed.*

### Further Information

See the Automatic Multi-Satellite System owner’s manual in your InfoCase for a complete description of features and instructions.

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### EXTERIOR ENTERTAINMENT CENTER (ADJUSTABLE)

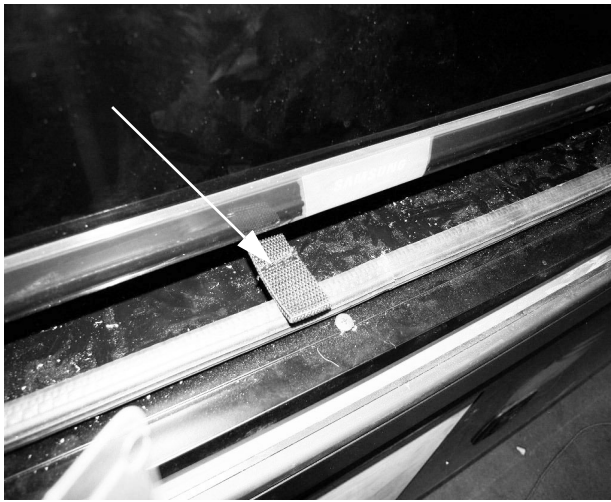
#### -If Equipped

Your motorhome may be equipped with an Exterior Entertainment Center, which contains an HDTV and Audio/Video Connections for your outdoor listening or viewing pleasure. The Exterior TV is mounted on an adjustable bracket which allows you to angle the TV to best suit your viewing needs.

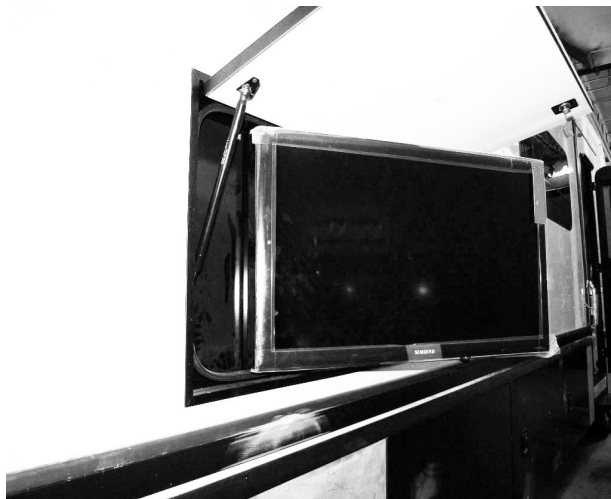
*NOTE: Refer to “HDMI Video Selection System” elsewhere in this section for exterior FM stereo and home theater capability.*

These electronic devices and speakers are not designed to be waterproof. Please take measures to prevent rain or other precipitation from entering the entertainment center by closing the compartment door or ensuring that an awning will prevent entrance of precipitation.

### 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. You will hear a “click” when the TV is secured into locked position.


### Further Information

Please read the manufacturer’s user guide in your InfoCase for complete operating instructions.




# 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**

**CRUSH HAZARD.** Keep people and objects clear of the inside and outside of the king bed power slide when operating. Failure to comply could result in death or serious injury.

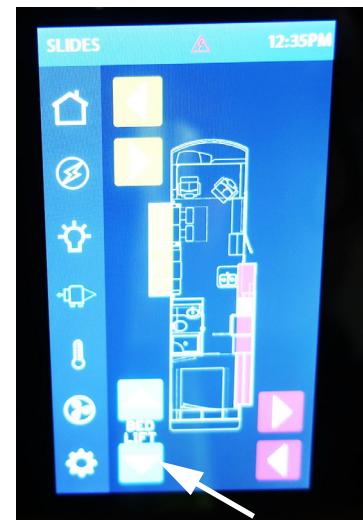
## KING BED WITH POWER SLIDE

### \*L34T Model Only

The L34T Model Forza is equipped with a side-to-side sliding bed top and mattress system providing for in-transit clearance of passenger's side slideout and living mode walk around bed accommodation. The bed lifts up on shocks to reveal storage space under the bed. The bed also magnetic mobile device charging ports on either side for convenience.

To operate, navigate to the slide-out controls on the operating panel. The buttons will appear locked if the slide-out is not extended all the way out. With the slide-out extended, press the arrow to move the bed from the driver's side wall to create a walk around space. The bed must be moved back against the driver's side wall in order to retract the slide-out back to the travel configuration. View the slideout room operation instructions earlier in this chapter for complete slide-out instructions.

*NOTE: Ensure that the bed is fully retracted and stored before retracting the slideout back in to the travel configuration.*



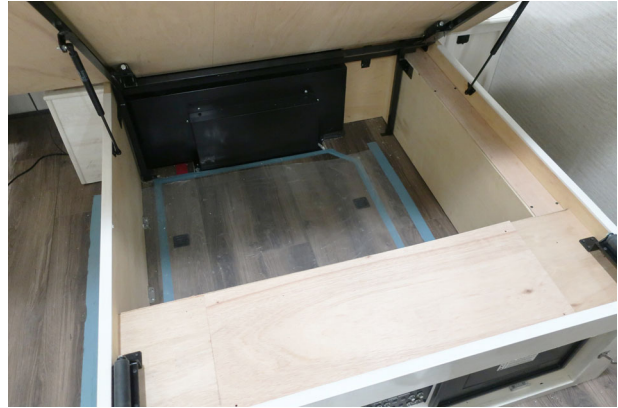
Power Slide Bed Controls located in the slideout section of the monitor panel.  
-Typical View (Computer button configuration may vary).

## SECTION 9 – FURNITURE AND SOFTGOODS

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King Bed shown in the retracted position (touches the driver's side wall).  
-Typical View.



Lift up the foot of the bed and the shocks will assist and hold up the bed, revealing the storage space underneath.  
-Typical View.



King Bed shown in the extended position (creates a space to walk on the driver's side of the bed).  
-Typical View.



Both sides of the bed have magnetic mobile device charging ports.  
-Typical View.

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### **LOUNGE CHAIR – SWIVEL**

**-If Equipped  
(Typical View – Your motorhome may differ in appearance)**

This chair is not equipped with a seat belt and is not intended for seating while the vehicle is in motion.

When the vehicle is in motion, the base of the Lounge Chair must be fastened to the floor using the provided base clamp, as shown.





## WARNING

The chair must be clamped back into place before driving the coach.



Lounge Chair Base Clamp  
(Travel position shown)  
-Typical View

When the vehicle is parked, you may unscrew the knob and remove the base clamp to position the chair away from the wall.



## DINETTE/BED CONVERSION – DREAM DINETTE™

–If Equipped  
(Typical View – Your motorhome may differ in appearance)



### Dinette to Bed

1. Remove both dinette back cushions and set aside.

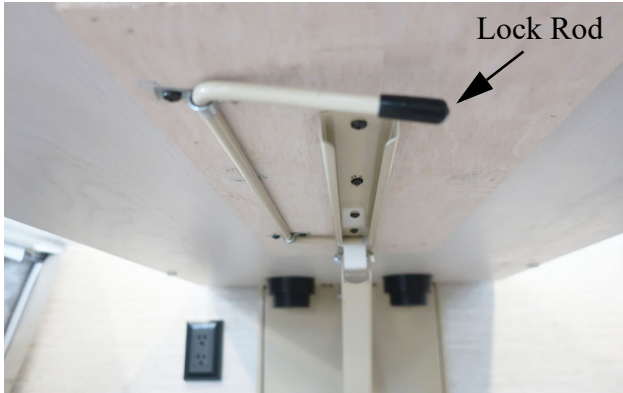


2. Lift both dinette seat cushions upward.



## SECTION 9 – FURNITURE AND SOFTGOODS

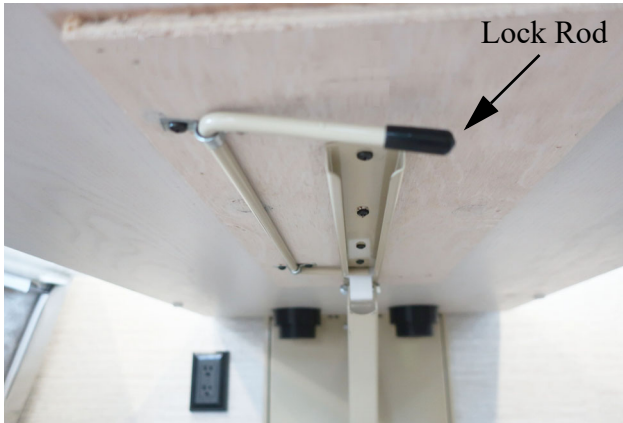
3. Release the lock rod on the bottom of the dinette table by pulling down.



4. Push table straight down. Lower dinette seat cushions.



5. Rotate lock rod up to secure table in the lowered position.



6. Arrange dinette cushions to cover bed area.

*NOTE: Additional bolsters may be included with your dinette to cover bed area.*



Reverse steps to convert back into dinette seating.

Once the table is up, engage the lock rod by pushing the lock rod up.



### **WARNING**

Failure to engage the lock rod when the table is raised may result in injury.

### **SOFA/SLEEPER**

**–If Equipped  
(Typical View – Your motorhome may differ in appearance)**

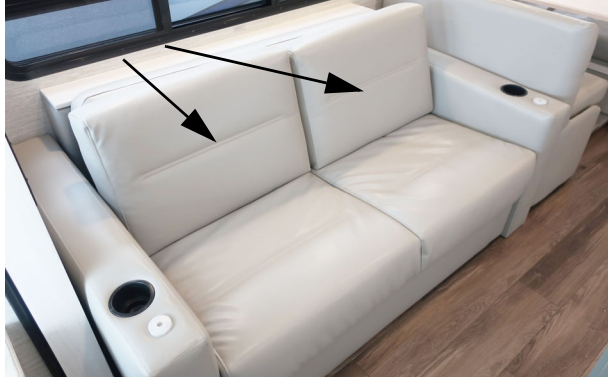


### **WARNING**

Stow sofa extensions before retracting slide rooms. Failure to observe can cause injury and will cause equipment damage.

**Sofa to Bed**

1. Remove sofa seat backs, set aside.



2. Pull sofa seat UP and OUT.



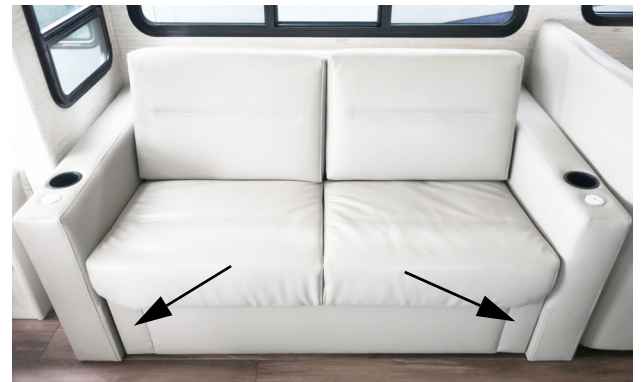
3. Pull sofa support back in downward motion.



4. Bed is now ready for use.



5. Reverse steps to store bed into sofa position.  
6. When the bed is back in the sofa position, close the two (2) doors located on each end of the sofa.



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**LOFT BED**

**–If Equipped  
(Typical View – Your coach may differ in  
appearance)**

*NOTE: The Power Loft Bed is not intended for  
storage and should not be used for  
storage.*

The Loft Bed is stowed near the cab ceiling as  
shown in the following photo.

## SECTION 9 – FURNITURE AND SOFTGOODS



### Loft Bed Operation

1. The park brake must be applied and the ignition key in the on or run position to operate the loft bed.
2. Turn the key (located near the monitor panel) to the “ON” position.
3. Push the BED DOWN switch to lower the Loft Bed.



- **Maximum Capacity: 300 lbs.**
- To avoid injury to young children, do not leave them unattended on the loft bed.

### To store the Loft Bed

1. Push the BED UP switch until the Loft Bed reaches the ceiling.
2. Turn the key (located near the monitor panel) to the “OFF” position.



### WARNING

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

4. The bed is now ready for use. To access the Loft Bed see “Loft Bed Ladder” later in this section.

### Loft Bed Ladder

The top of the loft bed ladder must be hooked onto the brackets on the rear edge of the loft bed for use. The loft bed ladder is stored beneath the loft bed mattress.




### CAUTION

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

### Before Using Loft Bed 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:

	<b>WARNING</b>
Do not exceed 225 lbs. 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.
- **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 Loft Bed Ladder

1. Lift ladder horizontally.
2. Slide C-shaped retainer ends at the top of ladder onto brackets at rear edge of the Loft Bed.



Attaching Bunk Ladder

3. Lower ladder to floor.



*NOTE: Ensure top of ladder is properly engaged onto retainer brackets and ladder is resting firmly on floor before using.*

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## BUNK BEDS/WARDROBE CONVERSION

**–If Equipped  
(Typical View – Your motorhome may differ in appearance)**

Your motorhome may be equipped with bunk beds which convert easily into a wardrobe.

*NOTE: This low bunk design may be accessed without the use of a ladder. If needed, a multi-purpose step stool may be used.*

- Maximum Capacity: 300 lbs.
- To avoid injury to young children, do not leave them unattended on the bunk.

## SECTION 9 – FURNITURE AND SOFTGOODS

### Bunk Beds to Wardrobe

1. Lift top mattress and bunk board to the upright position. Engage security lock located on the front bunk cabinet wall.



*NOTE: Ensure that security lock (located on front bunk cabinet wall) is fully engaged.*

2. Gently pull down on wardrobe hanging rod.



Reverse steps to reassemble to bunk bed configuration.

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### THEATRE SEATING

**–If Equipped  
(Typical View – Your motorhome may differ in appearance)**

Your motorhome may be equipped with theatre seating. Both seats recline with inside levers, and include 2 USB ports in the center armrest. To retract the recliner, push down with your legs as you get up and lock the seat back to the upright position.



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### DIGITAL SLEEP AIR BED

**by Innomax®**

**–If Equipped**

The air bed operates on 120-volt AC household current only, so you must have the shoreline plugged in, the generator running, or inverter power (if equipped) to adjust the air pressure settings in this bed.

If loss of power occurs, the memory setting will default to the pre-set threshold and re-programming the memory setting will be necessary.

*NOTE: If your bed is equipped with the power lift feature, it is recommended to deflate the air mattress to 25 or below when elevating the bed into the fully upright position. This will help prolong the life of your air mattress.*



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.



### Basic Operation

1. Push “Bed Fill” once to fill air chamber.
2. Push “Soft” for comfort level.
3. When comfortable, push “Memory” button and hold until desired set point preference appears. Memory is now set.
4. When awake push “Bed Fill” once for Bed Ready.
5. When in sleep system push “Memory” twice for desired sleep mode.

### Further Information

For complete operating instructions and cautions, see the Innomax air bed user guide included in your InfoCase.

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## ROLLER SHADES (MANUAL) – SOLAR/BLACKOUT

### –If Equipped

Your motorhome 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.

### Further Information

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

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## WOOD FURNITURE AND CABINETS

### –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

## SECTION 9 – FURNITURE AND SOFTGOODS

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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 chose 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 AND LEVELING

## SLIDEOUT ROOM LOCK SYSTEM

The ignition key must be placed in the on or run position to operate the slideout room(s). The park brake must be applied for the room(s) to run. Winnebago recommends running the engine whenever you run the slideout rooms in or out, the engine alternator should insure the rooms have adequate 12-volt DC power to operate correctly.

## SLIDEOUT ROOM OPERATION – ELECTRIC

 **WARNING**

Your motorhome 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.

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


*NOTE: Your motorhome may have one or more slideout switches depending on model, options, and available equipment.*



Slideout Switch  
-Typical View



Slideout Switch  
(Located on Multiplex Monitor Panel)  
-Typical View

 **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.

## SECTION 10 – SLIDEOUT ROOMS AND LEVELING

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*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. After initially starting a cold diesel engine the engine preheat grid may cycle on and off for up to 90 seconds, the cycling of the preheat grid will result in a momentary drop in chassis battery voltage that may cause a low voltage error in the slideout or leveling controller. If this happens, wait until the preheat grid is no longer cycling to operate your slide room and leveling jacks.*



### **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 motorhome and set the Parking Brake.
- Ensure exterior compartment doors are closed so that they will not interfere with slideout operation.
- Ensure driver and co-pilot seat backs are clear of slideout trim before extending slideout.
- 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.*

- Engage the parking brake.
- Start the engine so the alternator can provide maximum power for proper operation of slideout mechanisms.
- 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.
- Remove and Secure the Ignition Key.

### **To Retract Slideout Room**

#### **Before Retracting!**

- Be sure the motorhome is level and the Parking Brake is set.
- Ensure exterior compartment doors are closed so that they will not interfere with slideout operation.
- Ensure driver and co-pilot seat backs are clear of slideout trim before retracting slideout.
- 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 motorhome 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.

- Engage the parking brake.
- Start the engine so the alternator can provide maximum power for proper operation of slideout mechanisms.
- 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, Remove and Secure the Ignition Key.

## 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.

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 (POWER GEAR®) IN WALL SLIDEOUT

–If Equipped

### Battery Voltage or Circuit Breaker Problems

If the slideout room will not work:

- Turn the Chassis Battery Disconnect switch OFF (leave off for 20 seconds) and then turn ON again. This will, in many cases, reset power to the slideout system.
- 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.

### Problems Retracting or Extending the Room



- Fault Code LED

Slideout Control Box  
(Located in the driver or passenger side compartment on the 24D and 24J, and located behind the couch on the 24V)  
-Remove panel to access  
-Typical View

## SECTION 10 – SLIDEOUT ROOMS AND LEVELING

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If an error is detected on your slide system, the LED light on the control panel will blink an error code. If an error code appears, see the In Wall Slideout manufacturer's user guide in your InfoCase to determine the problem. The error code must be cleared prior to operating the room.

### Further Information

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

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## SLIDEOUT EMERGENCY RETRACTION (POWER GEAR®) IN WALL SLIDEOUT

### –If Equipped

If the slideout mechanism is malfunctioning and the room will not retract using the interior control switch, see the In Wall Slideout Room operating guide included in your InfoCase for further instructions and troubleshooting information.

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## GENERAL SLIDEOUT CARE

- Keep slideout room seals clean.
- Clean the floors inside the motorhome 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 motorhome.

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## LEVELING SYSTEM

The Hydraulic Leveling System makes selecting a parking site easier and faster by reducing the effect of uneven ground.

Hydraulic jacks raise the affected low corners of the motorhome to make leveling “set up” faster and easier for you.

The Hydraulic Leveling System Control Panel is located on the driver side lower dash.

See the **Leveling System Operation Guide provided in your InfoCase for complete operating instructions.** It also contains additional precautions, technical information, and instructions for manual operation if a system failure occurs.

*NOTE: When parking at an uneven site, always park the front of the vehicle to the downhill side. This allows you to level by raising the front end rather than the rear. Since only the rear wheels are locked while in PARK, raising either one or both of the rear wheels off the ground could allow the vehicle to roll off the jacks.*



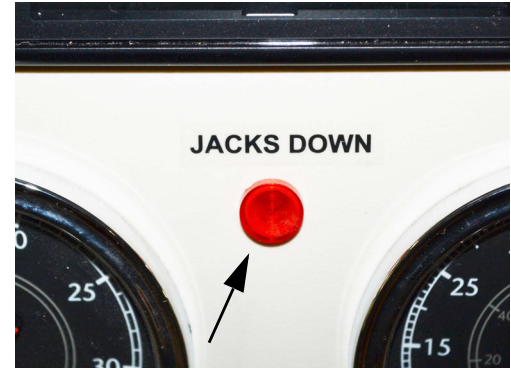


## WARNING

- Keep all people clear of the coach while the leveling system is operating.
- When extending the rear stabilizers, do not lift the wheels beyond ground contact. This makes it possible for the vehicle to roll unexpectedly forward (or backward) off the jacks. This could cause severe injury or death.
- Do not use the levelers on icy or slick surfaces on which the foot pads may slip.
- Do not use leveling jacks to support the vehicle for service or tire changing.
- Do not use the leveler as an emergency brake. They are not designed for any type of vehicle braking purpose.
- Never check for hydraulic fluid leaks using your hands and/or any other body part. The leaking fluid is under pressure and is capable of cutting and penetrating your skin, resulting in severe injury.

### Jacks Down Light

The “Jacks Down” reminder is intended to warn you to retract your Leveling Jacks before moving the vehicle. The light will come on briefly and a chime will sound when the ignition key is turned to the On or Run positions if the jacks are down.



“Jacks Down” Light  
(Located on dash)  
-Typical View

## NOTICE

- Do not try to drive vehicle unless “TRAVEL” light is glowing with ignition switch on.
- Do not try to drive the vehicle until the air suspension system has built up sufficient pressure if you have used the coach leveling system or have used the DUMP button to manually exhaust the air suspension system.
- Do not rely only upon the warning lights to indicate when jacks are up. It is the owner’s responsibility to check that all jacks are up before moving the coach.

*NOTE: If the Leveling Jacks should fail to retract, see “Troubleshooting” and emergency operation instructions in the Leveling System Operation Guide provided in your InfoCase.*

### In The Event Of Accidental Jack Extension

1. Bring the vehicle to a safe and complete stop as soon as possible.
2. Turn the Leveling System Power switch ON, use the arrow “Down” button and select “Auto Retract”, and press Enter.

## SECTION 10 – SLIDEOUT ROOMS AND LEVELING

3. Visually inspect the vehicle undercarriage for any problems.
4. See the Leveling System Operation Guide supplied in your InfoCase for troubleshooting instructions or operating the Leveling System if jacks fail to retract or any other functions fail.

### Further Information

See the manufacturer's operation guide provided in your InfoCase for complete operating instructions, safety precautions, and troubleshooting tips.

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## CHECKING HYDRAULIC OIL LEVEL

See the Leveling System Operation Guide provided in your InfoCase for complete maintenance instructions and information.

All maintenance should be done as part of the normal servicing of the motorhome.

The hydraulic oil level should be checked when the vehicle is first purchased and after any extended storage. During regular vehicle use the hydraulic fluid level should be checked once a month. If an oil leak develops, the hydraulic oil level needs to be checked frequently until repairs can be completed.

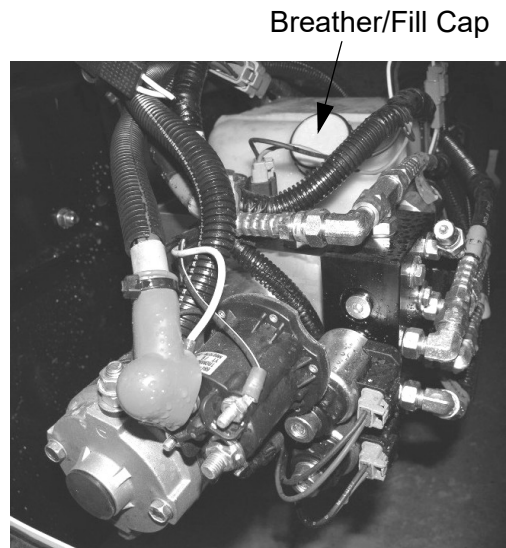
The hydraulic pump is located inside passenger side compartment front of the entrance door (Model 34T) or beneath the entrance step (Models 36H, 38F, 38W, and 38D). Lift step cover and remove storage bin (if equipped) to access.

*NOTE: Leveling jacks must be in the retracted (UP) position to get an accurate oil level.*

The hydraulic oil level is checked visually by inspecting the hydraulic oil reservoir. Always keep the hydraulic oil level full (to the lip of the breather cap).

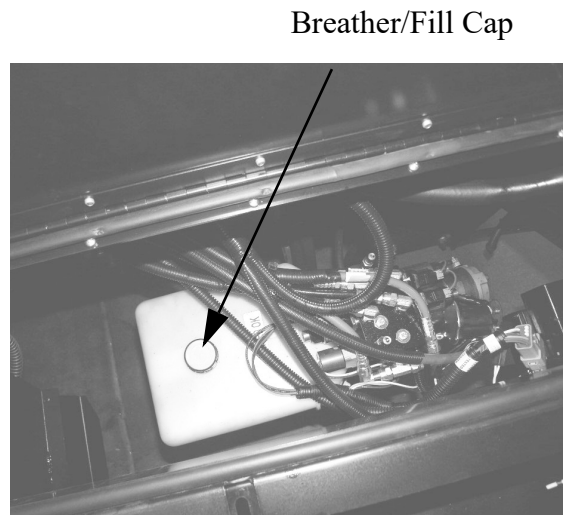
*NOTE: Always clean away any dirt and debris from the top of the reservoir before removing the breather cap to avoid entry of debris and contamination of hydraulic oil in the reservoir, which could lead to pump failure or other problems.*

### Model 34T



Hydraulic Oil Reservoir  
(Located inside passenger side  
compartment front of the entrance door)  
-Typical View

### Model 36H, 38F, 38W, and 38D



Hydraulic Oil Reservoir  
(Located below entrance step)  
-Typical View

*NOTE: Only fill the hydraulic reservoir with the jacks in the retracted (UP) position. Adding fluid with the jacks in any other position will cause fluid to leak through the breather/fill cap.*

### **Hydraulic Fluid Recommendation**

The leveling system is filled from the factory with Automatic Transmission Fluid (ATF).

DO NOT USE brake fluid or hydraulic jack oil, which can damage the seals and cause leaks.

### **Further Information**

For replacement fluids, see the manufacturer's recommendation in the leveling system operation manual provided in your InfoCase.





# SECTION 11 – MAINTENANCE AND STORAGE

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## 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.

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## ROOF



### WARNING

STAY OFF 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” New Vehicle Limited Warranty” provided at the beginning of this manual).

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## UNDERCARRIAGE

Buildup of mud and dirt under the body of the vehicle can cause damaging rust or corrosion on steel or aluminum parts and can add needless

## SECTION 11 – MAINTENANCE AND STORAGE

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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.

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### EXTERIOR AUTOMOTIVE PAINT FINISH

The exterior finish of your motorhome is fully or partially finished with the highest quality automotive paint and clearcoat.

Follow these precautions to keep the finish looking its best and preserve maximum gloss and durability.

#### Parking

- **Avoid parking under trees** – When this happens you should rinse the bird droppings and tree sap off as soon as possible. Tree sap is a form of sugar and will dissolve after a couple of rinses. Bird droppings can eat into a painted surface if left unattended and need removed as soon as possible. Lukewarm soapy water can help speed up the cleaning process.
- **Avoid parking near salt spray** – When this happens you need to rinse off the salt mineral residue to minimize the corrosiveness of the salt.
- **Avoid parking near factories with heavy smoke or industrial fallout** – Industrial fallout can eat into your exterior finish when dew or rain mixes with it to create nitric or sulfuric acid that gets magnified by the intensity of the sun. As the water evaporates, the acid becomes more powerful and attacks the painted surface. Rinsing and washing the surface helps remove the fallout and neutralize the acid. After the

initial 60-day cure stage, a coat of wax or polish can help protect the surface from these types of contaminants.

- **Do not scrape ice or snow from the painted surface.** Brush off gently with a soft-bristled snow brush – avoid being forceful with the brush. If brush scratches show after the motorhome thaws out, it may be possible to remove them by hand waxing with a silicone-free liquid wax.
- **Avoid covering painted surface.** When paint is covered (especially in outdoor conditions), water may appear between the cover and the motorhome due to rapid temperature fluctuations. The water may vaporize under certain conditions and migrate into the painted surface, possibly resulting in blisters and/or bubbles in the paint. These blisters/bubbles are not covered under warranty. Covering your motorhome is at owner's risk.

#### Driving

- Avoid driving on gravel roads.
- Rinse off bugs and bird droppings with water daily.
- Antifreeze, fuel, or windshield/window solution spilled on the painted surface should be rinsed off immediately with water and allowed to air dry. Wiping dry with a towel may create fine scratches due to the solvent nature of these types of fluids.
- Fuel cannot be diluted and dissipated with water. It must be removed with a mineral spirit type cleaner (such as *SEAFOAM Bugs-B-Gone*, or equivalent) or a silicone-free spray wax and microfiber cloth to remove the stain left by fuels.
- Ensure that all motorhome fluids (such as gas, oil, grease, antifreeze, transmission fluid, brake fluid, etc.) are completely wiped off of painted surfaces. Failure to comply may cause the paint to blister and/or peel.

*NOTE: When driving in wintry conditions, the road surface may be covered with heavy salts or small rocks to improve traction.*

*These types of road conditions may cause surface damage to your motorhome. If possible, it is best to avoid these types of exposures. However, if you do use your motorhome under these types of conditions, you may want to consider, among other things, washing both the undercarriage and the body of your motorhome after exposure to these types of conditions.*

## **Washing**

- Commercial vehicle wash facilities should be strictly avoided! They will scratch your motorhome!

*Truck-style wash centers have high-pressure wands that emit higher than necessary water pressures and the brushes are very aggressive.*

*Most truck wash brushes are made from a heavy plastic for durability and are under heavy pressure. They are designed to clean heavy road films on semi trailers and are often dirty. They are not designed for custom painted motorhome's and they will scratch the clearcoat finish. Many times these scratches can penetrate the clearcoat finish, possibly causing delamination and/or other paint related issues that are not covered under warranty.*

- Wash your motorhome with cool or lukewarm water using a quality automotive detergent that does not contain bleach solution. Most auto stores offer car wash detailing soaps that are similar and do not have bleach in the formulation (such as Meguiars #62).
- Never use a bristled brush or broom to wash the painted surface. This will cause scratches in the finish. Using a microfiber cloth, mitt, or mop is strongly recommended.
- Be sure your cloth or applicator is clean. A dirty applicator can scratch your motorhome.

## **Washing Procedure**

- Rinse area to be washed with cold water to remove surface residue. Ensure you are not in direct sunlight.
- With area to be washed still wet from the rinse, use the recommended soapy mixture to clean the area. To avoid scratching painted surfaces, a microfiber cloth, mitt, or mop is strongly recommended to apply soapy water.
- Rinse washed area before soap evaporates.
- Dry the rinsed area before the water evaporates.

*NOTE: Avoid aiming water flow from a hose or spray from high-pressure washing equipment into any appliance intake, as damage or difficulty in operating appliances may occur.*

- After washing the motorhome, carefully inspect sealant around window frames, 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.

## **Bug Removal**

- Rinse any loose debris off with water and allow the remaining residues to soak and soften. Use soap and water to wash the residue, then rinse.

*NOTE: You may wish to repeat and leave soap on longer than normal to help with softening hardened residue.*

- For more stubborn areas, use an ammonia-based glass cleaner followed by washing with warm soapy water, then rinse.
- Remember to use microfiber towels during this process to help avoid scratches.
- If this does not work, as a last resort, use a bug removal product (like SEAFOAM Bugs-B-Gone, or equivalent) in a shady area and follow the directions on label. Ensure cleaner is completely wiped off of painted surfaces. Failure to comply may cause the paint to blister and/or peel.

## SECTION 11 – MAINTENANCE AND STORAGE

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### Polishing and/or Waxing

*NOTE: When your motorhome is new or has been repainted for any reason, no polish or wax should be applied to the finish until after a 60-day cure cycle at temperatures higher than 60 degrees for 60 days. Failure to observe this precaution could void your paint warranty.*

- We recommend a silicone-free polish with an orbital machine and terry cloth applicator.
- Liquid waxes are easier to apply and bring to a gloss with fewer residues.
- Avoid paste waxes. They sometimes have fillers and additives that give a very short term result. Stay away from silicones in polishes and soaps.
- Buffing compounds remove some of the mil film of the clearcoat, so we recommend that only professionals or very experienced users apply this type of product.

### Inspection

A motorhome exterior is subjected to many physical forces and environmental conditions. While the motorhome 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 referred to as "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 motorhome 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 motorhome.

### Protective Film

#### –If Equipped

Your motorhome may be equipped with a protective film to defend against everyday road hazards. This film creates a barrier against bugs, road grime, bird droppings, and other harmful elements.

#### Further Information

See the manufacturer's information provided in your InfoCase for complete care and maintenance instructions.

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## EXTERIOR GRAPHIC CARE

The pressure-sensitive graphics on your vehicle 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.

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## FRONT END MASKS AND PAINT DAMAGE

*NOTE: This information is to make you aware of a potential paint failure that could occur when moisture is trapped between front end masks and painted surfaces.*

If you choose to install an aftermarket protective front end mask, please follow these preventive guidelines:

- The front end mask must be removed if the vehicle sits longer than 5 days without being driven.
- The front end mask must be thoroughly dry before storing or reinstalling on the front of the vehicle.
- When reinstalling the mask, ensure both the mask and the painted surface are free of debris to avoid damage by abrasion.
- Failure to follow recommendations will void any paint warranty.

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## PLASTIC PARTS – CLEANING

Many parts in your vehicle, 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.

### NOTICE

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.

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<sup>®</sup>, Formula 409<sup>®</sup>, 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

## SECTION 11 – MAINTENANCE AND STORAGE

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### HEADLIGHTS AND EXTERIOR LIGHTS

#### Exterior Light Lenses

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 bicarbonate 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.

#### Headlight Moisture

Your motorhome is equipped with composite headlights, which contain replaceable halogen “bulb” elements, common to most current automobiles. This type of lamp assembly is not sealed from the atmosphere and is designed with a moisture venting system.

Because they are not sealed, under “dew point” conditions the headlights may exhibit signs of humidity condensation on the reflector surface and lens, such as small droplets of water or “fogging over”.

If this happens, drive with the headlights on so the moisture can evaporate and expel through the venting system designed into the headlamp assembly.

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### INTERIOR SOFT GOODS

We recommend a weekly routine of vacuuming all fabrics and carpet throughout the motorhome 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 motorhome 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 motorhome is parked for an extended period of time.*



#### **WARNING**

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.

#### Leatherette –If Equipped

Leatherette materials are easy to care for and require no recommended maintenance other than regular cleaning. To clean, only use:

- Mild soap and water

- For stubborn spots, use alcohol-based solutions such as Fantastik® or Formula 409®
- To disinfect, use a 5:1 bleach/water solution
- Always rinse with clean water
- Allow to air dry

### **Vinyl Fabrics (including ceiling) –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.

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## **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 motorhome 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.*

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## **DECORATIVE VINYL WALL PANELING – CLEANING**

Decorative Vinyl Wall Paneling may be cleaned with mild detergent and warm water. The soap product should contain no abrasives, and the use of a soft cloth or sponge with the cleaning liquid should help preserve the finish of the vinyl.

Do not use bleach, cleaning agents with solvents or harsh chemicals, oil based spray cleaners, or other multipurpose cleaners such as Fantastik® or Formula 409® as they could damage the vinyl surface.

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## **SOLID SURFACE COUNTERTOP – CORIAN®**

### **Care and Maintenance**

You can easily maintain the beauty of your countertop with little effort, under most circumstances, by using warm soapy water or an ammonia-based cleaner (not window cleaner) then rinse and wipe dry. You can also use liquid or gel-type cleaners containing bleach. Because the material is nonporous, stains cannot penetrate below the surface and will nearly always disappear using these cleaning methods.

**If a stain has dried on**, allow the cleaner or soapy water time to soften the area, after which the stain will wipe off.

**If the stain is not water-base or oil-base material**, you may need to gently remove it using a plastic scraper (disposable plastic knife for example) followed by normal cleaning methods described above.

**You may want to scrub** the entire surface periodically. Do this lightly and evenly with a mild abrasive powdered or liquid cleaner.

**Always use a cutting board** rather than slicing foods directly on your countertop. The underside of one of your sink covers will provide an easily accessible cutting surface. This will keep your countertop looking its best and minimize care efforts. (An occasional sanding

## SECTION 11 – MAINTENANCE AND STORAGE

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with a medium grade (120 grit) sandpaper will remove any cut marks accumulated on the sink cover bottom).

**To remove cuts and scratches,** use a more aggressive cleaning powder such as Comet<sup>®</sup>, a moistened steel wool soap pad, or green scouring pad. We recommend that you finish the entire surface using the same cleaning material and scrubbing method to maintain a uniform appearance.

**If you prefer a glossier look,** follow up with a good quality furniture polish or a liquid automotive wax (non-cleaner type).

**Use trivets and “hot pads”** under hot cooking pans. Do not set hot pots or pans directly from the stove or oven onto the counter. The solid surface material is extremely heat resistant, but sudden contact by a very hot material with a cold countertop surface could cause a crack that would need to be repaired. Likewise, concentrated high heat sources in a small area, such as a crock pot or an electric griddle may cause a crack. We strongly recommend using a trivet under these. Also, do not allow candles to burn directly on the counter surface.

**Avoid paint remover or oven cleaner.** The solid surface material is also resistant to most chemical substances but exposure to some harsh chemicals and solvents such as these can cause damage that would need professional repair or replacement. If one of these materials does spill or drip onto the counter surface, wipe it up immediately to avoid damage.

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### 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.

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### 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.

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## **SINK – STAINLESS STEEL**

### **Care and Cleaning Instructions**

The stainless steel sink can usually be cleaned with water and soap or detergent using a soft cloth or sponge.

- **Rinse thoroughly** with warm water and wipe dry quickly to avoid spots and streaks.
- **For stubborn stains**, use a mild abrasive cleanser like Soft Scrub<sup>®</sup>, Comet<sup>®</sup>, etc. Work in the direction of the “grain” of the brushed finish lines.
- **Never use steel wool.** Particles of steel from the wool pad can embed into the sink surface, then become rusty and unsightly.
- **Avoid contact with full-strength** bleaches, household chemicals, and acid-based cleaners. If this happens, rinse and wipe dry quickly.

- **Salt, mustard, and mayonnaise** can cause pitting if left on the steel sink surface. If spilled, clean and rinse immediately.
- **A high iron content** in the water (hard water) may result in a brown or rust-colored stained appearance. If noticed, dry towel sink after each use.
- **Do not use rubber mats** in the sink bowl. Material trapped under mats can complicate cleaning.

*NOTE: Improper use may damage this product and void the warranty.*

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## **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.

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## **VINYL FLOORING**

### **Care and Maintenance**

You can easily maintain the beauty of your vinyl flooring with little effort, by following these recommendations:

- Sweep, vacuum, or dust surface.
- Clean the floor with a damp mop and mild detergent that **contains no waxes or polishes.**
- Rinse thoroughly with clean water.

*NOTE: For heavy soil, a damp mop with a heavy-duty cleaner may be used. Rinse with clean water. Dried adhesive or stubborn stains may be removed with mineral spirits or turpentine.*

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## **BATHROOM**

### **Toilet**

For instructions on the care of your toilet, refer to the information in your InfoCase.

## SECTION 11 – MAINTENANCE AND STORAGE

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### 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.

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## 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.

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## VEHICLE STORAGE – PREPARATION

Properly preparing your vehicle for storage will lessen the possibility of damage to your vehicle. Prepare the motorhome for vacancy just as you would if you were leaving your house for an extended period.

### Clean and Prep Motorhome 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.*

6. After charging batteries, turn the House/Coach Battery and Chassis Battery Disconnect switches 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 motorhome.
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 motorhome. 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 Procedure” in *Section 7 - Plumbing*.

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## **VEHICLE STORAGE – REMOVAL**

1. Completely air out the motorhome.
  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 *Section 7 - Plumbing*, 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 *Section 7 - Plumbing*.
- 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 (or the “Normal Flush” switch if your motorhome is equipped with an electric flush toilet) 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. Re-sealing is quite simple and the material is quickly and easily applied. Appropriate compounds are available from your dealer. See *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.

### **Ice Maker Start-Up**

- Flush antifreeze from the waterlines (if antifreeze fill winterization procedure was performed).
- Close all drain valves.
- Turn Ice Maker Winterization Drain valve to the CLOSED position.
- Turn the water supply ON.
- Ensure the ice bin is in place and the wire shut-off arm is lowered to the ON position.
- Allow the refrigerator to cool down to ice making temperature. Remember, this can take up to 24 hours.

*NOTE: Discard the first two batches of ice cubes. It will take approximately three cycles for the Ice Maker to produce fully formed, clean ice cubes.*

### **Washer/Dryer (if equipped)**

See “Winterizing Optional Appliances” in *Section 7 – Plumbing* for information on how to remove from storage.

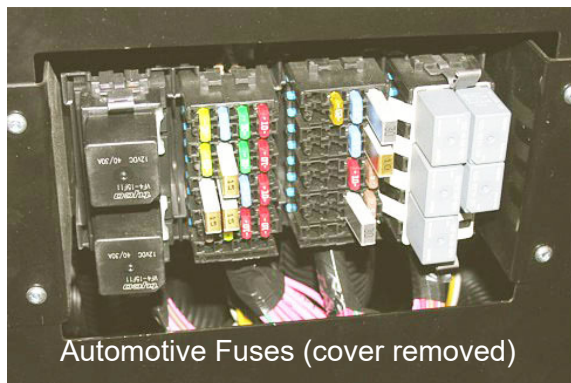
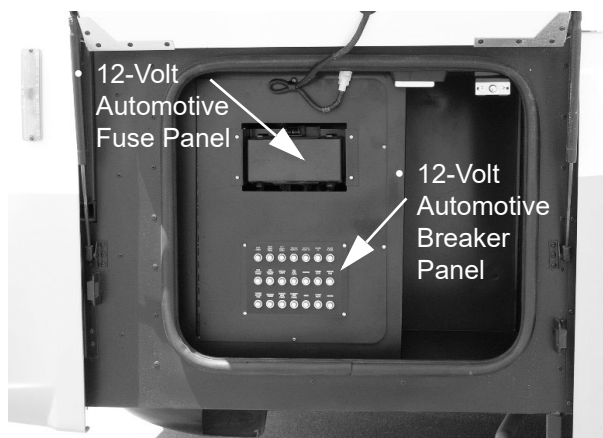
## SECTION 11 – MAINTENANCE AND STORAGE

### CHASSIS SERVICE AND MAINTENANCE

Consult the appropriate sections in the chassis manual for specific information regarding operating safety, service recommendations, and maintenance schedules for the chassis section of your vehicle.

### CHASSIS FUSES AND RELAYS –Freightliner® Chassis

Chassis and dash component fuses and relays are located in the 12-volt electrical compartment at the left front of the motorhome.



See the chassis manufacturer's fuse allocation chart on the inside of the fuse block cover.

### Towing Fuses

The fuses for the chassis supplied towing package are located inside the driver side rear compartment.



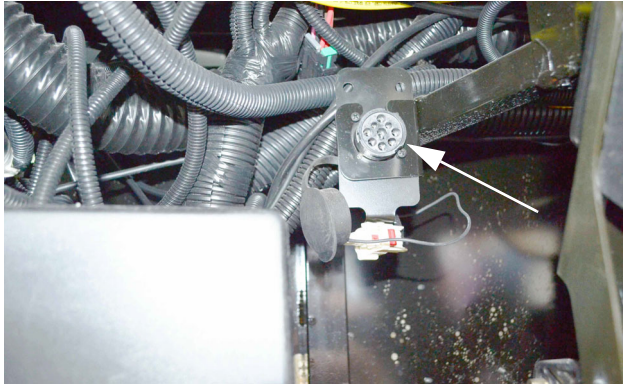
- Unhook (3) latches to remove cover.
- See chassis manufacturer's information on inside of cover.

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## CHASSIS DIAGNOSTIC CONNECTORS

The Chassis Diagnostic Connectors are located near the steering column support plate beneath the dash and in the rear engine compartment, as shown in the following photos.



Diagnostic Plug  
(Located on steering column  
support beneath left side of dash)  
-Typical View



Diagnostic Plug  
(Located on rear engine compartment shroud)  
-Typical View

# SECTION 11 – MAINTENANCE AND STORAGE

## MOTORHOME 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
<b>Propane Gas System</b>							
Have propane gas system checked for leaks						◆	◆
Pressure Regulator - inspect and adjust if needed						◆	
Check propane tank condition, mounting, and fittings						◆	
<b>Electrical System</b>							
Check Battery Condition Meter	◆						
Check battery fluid level and connections			◆				
Check 12V fuses and 120V breakers							◆
Check GFCI receptacles			◆				
<b>Generator</b>							
Visually inspect generator and compartment	◆						
See generator manufacturer's maintenance guide							◆
<b>Plumbing System</b>							
Sanitize plumbing system							◆
Winterize plumbing system							◆
Clean water pump strainer filter						◆	◆
<b>Slideout &amp; Leveling System</b>							
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)							◆
<b>Exterior</b>							
Clean roof				◆			◆
Clean sidewalls			◆				◆
Clean windows							◆
Flush underside of vehicle				◆			◆

**SECTION 11 –  
MAINTENANCE AND STORAGE**

**MOTORHOME 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
<b>Safety Equipment</b>							
Check operation of the following items:							
Headlights, Taillights, and Marker Lights	◆		◆				
Turn Signals	◆		◆				
Horn	◆		◆				
Hazard Warning Flashers	◆		◆				
Windshield Wipers and Washers	◆		◆				
Headlight Alignment							◆
Fire Extinguisher - check charge indicator	◆		◆				
Smoke Alarm - test operation *	◆		◆				
Carbon Monoxide Alarm - test operation *	◆		◆				
Propane Gas Leak Detector - test operation	◆		◆				
(*replace battery if needed)							
<b>Appliances</b>							
<b>Water Heater</b>							
See water heater manufacturer's maintenance guide							◆
Inspect and clean exterior vent	◆						◆
<b>Refrigerator</b>							
See refrigerator manufacturer's maintenance guide							◆
Inspect and clean exterior vent/drip tray drain tube	◆						◆
<b>Furnace</b>							
See furnace manufacturer's maintenance guide							◆
Inspect and clean exterior vent	◆						◆
<b>Air Conditioner</b>							
See A/C manufacturer's maintenance guide							◆
Inspect for exterior damage				◆			◆
Check/replace filter			◆				
<b>Range Top</b>							
See range manufacturer's maintenance guide							◆
Inspect and clean/replace range hood grease filter							◆

# SECTION 11 – MAINTENANCE AND STORAGE

## MOTORHOME 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
<b>Sealants</b>							
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)							◆
<b>Frame &amp; Chassis</b>							
Follow chassis manufacturer's maintenance guide (refer to chassis manual)							◆
Inspect hitch receiver (if towing)	◆						
<b>Tires</b>							
Check and adjust air pressure	◆						◆
Check tread wear	◆						◆
Check front end alignment and adjust if needed							◆
<b>Miscellaneous</b>							
Lubricate locks, hinges, and latches						◆	◆



## SECTION 12 – MISCELLANEOUS

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### LOADING THE VEHICLE

*NOTE: Your motorhome's load capacity is designated by weight, not by volume, so you cannot necessarily use all available space when loading your motorhome.*

- Store or secure all loose items inside the motorhome 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.

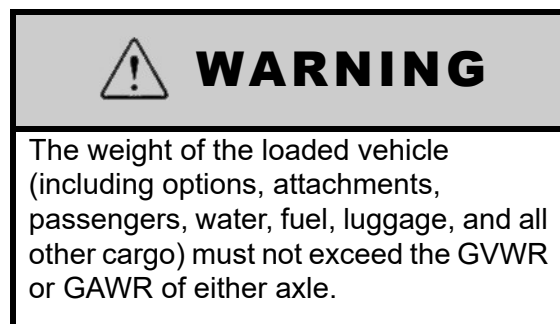
When loading the vehicle, distribute the cargo load equally so that you do not exceed either the Front or Rear Gross Axle Weight Rating (GAWR) or the Gross Vehicle Weight Rating (GVWR). The Gross Axle Weight Rating (GAWR) means the weight value specified by the chassis manufacturer as the load carrying 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 *Section 1 - Introduction*).

The GCWR (Gross Combination Weight Rating) means the maximum allowable loaded weight of this motorhome and any towed trailer or towed vehicle.

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



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### WEIGHING YOUR LOADED VEHICLE

To check the weight of your fully loaded motorhome, locate a commercial weighing scale that is capable of weighing large trucks.

*NOTE: Sales literature may give approximate or standard weights. Your actual motorhome 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. Remember, tongue weight must be included in the GVWR.

#### Finding a Scale

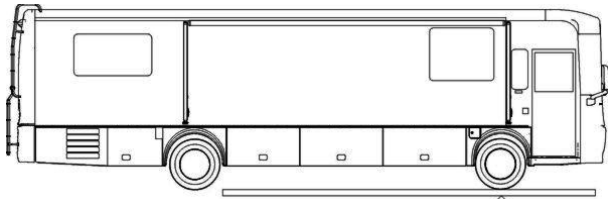
In urban areas, the most common places to find a public access scale are commercial truck stops. In rural areas, most grain storage elevators have scales available. Most scales charge a nominal fee for weighing a vehicle.

#### Weighing

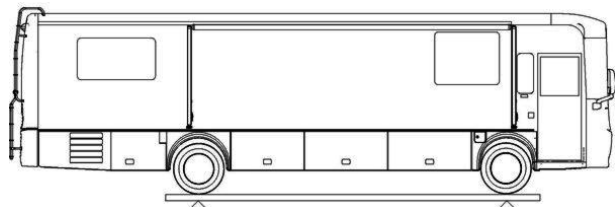
There is typically a scale operator to direct you but the basic routine is to take three separate weights - front axle, whole vehicle, and rear axle.

## SECTION 12 – MISCELLANEOUS

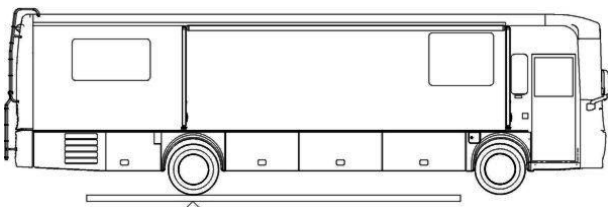
You will first drive only your front wheels onto the scale pad, then drive ahead so that the whole vehicle is on the scale, then finally pull off until just the rear wheels are on the pad.



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 motorhome is to weigh each “corner” of the motorhome 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.

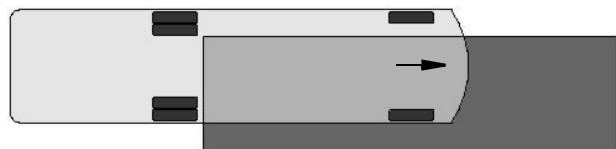
To determine the weight distribution on each tire or dual set, you will need to find a scale capable weighing side-to-side, or all four “corners” of the vehicle, separately.

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 motorhome onto the scale as shown.

Drive the motorhome on the level area next to the scale and straddle the scale so that only one side of the motorhome 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 motorhome straight ahead until only the right rear wheel/dual set is on the scale pad as shown.



Weighing Right Rear Corner

Now, turn the motorhome 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.

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## **CAR OR TRAILER TOWING**

### **Hitch Capacity\***

**10,000 lbs. max.**

### **Tongue Weight\***

**500 lbs. max.**

The factory installed towing hitch on this motorhome is capable of pulling 10,000 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.

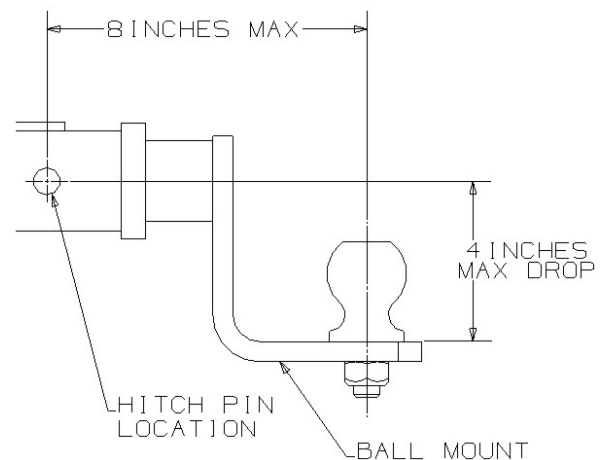
**When towing a trailer or vehicle, do not exceed either the GVWR, the rear axle GAWR, or the chassis GCWR by the combined loaded weight of the motorhome and the towed vehicle. See preceding items “Loading the Vehicle” and “Weighing Your Loaded Vehicle” for explanation of weight ratings.**

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 motorhome, 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.



Hitch Assembly

If a towing “brake system” is required, we recommend that a “modulated” towed vehicle braking device be installed. This means that when the motorhome 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 motorhome brakes, the more force will be applied to the rear vehicle’s braking system.

## SECTION 12 – MISCELLANEOUS

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 motorhome 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

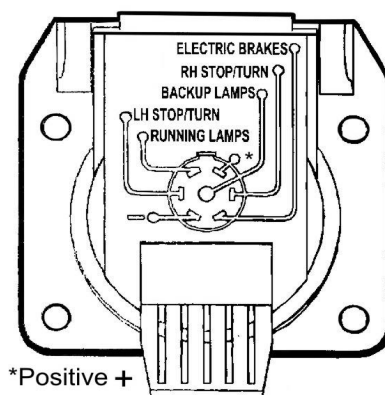
Exceeding any of the recommended gross vehicle weight ratings may result in vehicle damage. Do not install a frame equalizing-type hitch on your vehicle.

## TRAILER WIRING CONNECTOR

Your motorhome is pre-wired for trailer or car towing lights with a 7-pin socket.

The following diagram shows proper connection of trailer or tow vehicle wiring to the motorhome light system. The “pigtail” assembly with the (car/trailer end) connector plug should be wired by a qualified technician.

The trailer brake controller connector is located to the left of 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: Your hitch may be rated for a higher load than the motorhome can tow based on the 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.

*NOTE: Some Winnebago Industries® models equipped with a Class 3 hitch may have a label limiting vertical tongue load to 350 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.

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## FIREPLACE

### –If Equipped

The fireplace can be operated by either the remote control or the control panel.

### Further Information

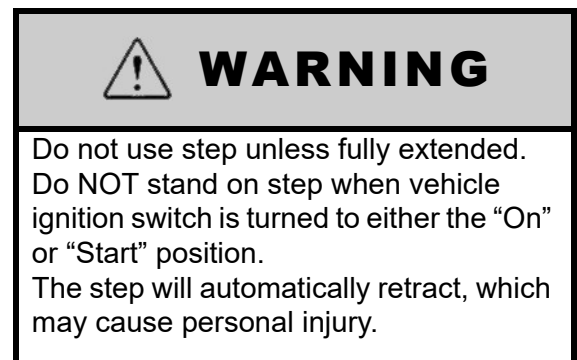
Refer to the Fireplace user guide provided in your InfoCase for complete operating and maintenance instructions, as well as safety precautions.

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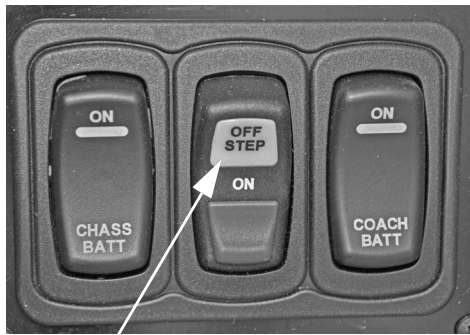
## STEP (ENTRY) – ELECTRIC

### –If Equipped



The power switch for the electric entry step is located to the left of the main entry door as you enter the motorhome.

## SECTION 12 – MISCELLANEOUS



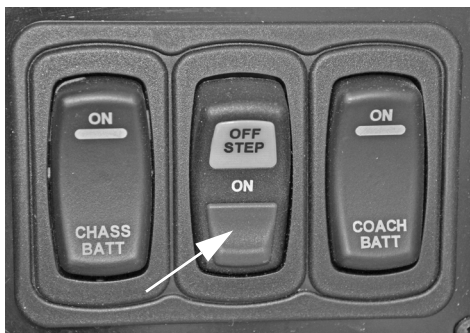
Entry Step Switch  
(Located near the entrance door)  
-Typical View

The step has several automatic extend/retract functions that are controlled by the position of a sensor mounted on the inner edge (hinge side) of the screen door.

### Automatic Mode - Entry Step Switch ON

#### (Step Operates with Door)

With the Step switch in the ON position, the step is in Automatic Mode. This means it will extend and retract automatically whenever the screen door is opened or closed.



Red Activation Lever

- The red Activation Lever located on the entry step switch must be depressed in order to put the step switch in the ON position.

### Stationary Extended Mode - Step Switch OFF

#### (Step Remains Extended)

With the Step power switch in the OFF position, the step will extend when the screen door is opened and will stay extended whether the door is opened or closed.

*NOTE: The step switch is “locked” in the OFF position.*

This position is normally used to keep the step extended when parked at a campsite or whenever people will be going in and out the vehicle frequently.

### Automatic Retraction Feature

The step is equipped with an automatic retraction feature that stores the step automatically if the main entry door is closed and the Ignition Switch key is turned to the On or Run positions.

The step WILL RETRACT even if the Step switch is OFF.

This feature is intended to prevent injury or damage by an extended step while the vehicle is moving.

### Further Information

For additional information on the step, see the manufacturer’s operators manual included in your InfoCase.

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## TOOL STORAGE

Various tools supplied with your motorhome 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.*

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## 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. Sometimes this seal firmness can inhibit complete latching of the compartment doors if they are simply “dropped shut” or closing force is applied only to the center of the door.

To ensure that exterior storage compartment doors have latched properly, press firmly on the bottom edges (side edges - if equipped) of the doors with the palms of your hands. If the door is ajar you will hear and feel a loud “click” when the latches engage properly.

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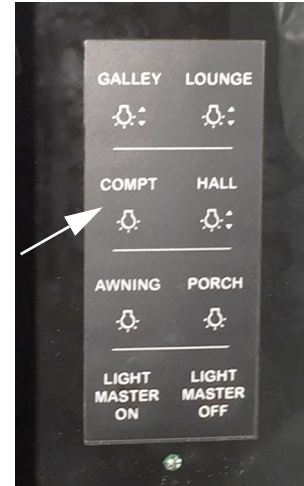
## COMPARTMENT LIGHTS SWITCH

The Compartment Lights switch powers the lights inside of the compartments. This switch is located near the entrance door.

- Press the switch UP (On) to supply power to the compartment lights.
- Press the switch DOWN (Off) to disable power to the compartment lights.

*NOTE: The Compartment Lights switch provides power to the compartment lights. You must manually turn each individual compartment light on or off inside of the compartments.*

We recommend turning this switch OFF when the motorhome is not in use to avoid battery drain if a compartment light is left on accidentally.



Compartment Lights Switch  
(Located near entrance door)  
-Typical View

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## LIGHTING - GROUND EFFECT -If Equipped

Your motorhome may be equipped with ground effect lighting strips that are located on the underside of the motorhome.

The AUX LIGHT switch on the dash will turn the lights on/off.



Ground Effect Lighting Switch  
(Located on the dash)

To operate the lighting, you will need to download an App on your smartphone or tablet. See the manufacturer’s user guide provided in your InfoCase for complete Bluetooth Controller Operating Instructions.

The lights will not operate with the ignition on.

## SECTION 12 – MISCELLANEOUS

### Further Information

Refer to the manufacturer’s user guide provided in your InfoCase for complete Bluetooth Controller Operating Instructions.

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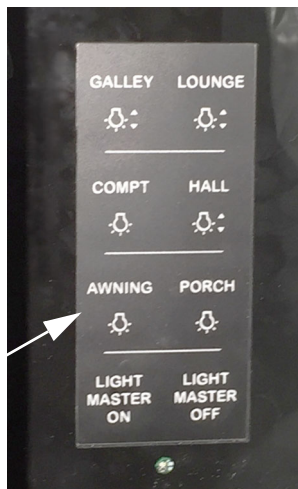
### AWNING – POWER

Your motorhome is equipped with entry door and patio power awnings to provide protection against outdoor elements, such as sun, light rain, and wind.

The awning control switches are located on the switch panel just inside the entrance door.



Awning Control Switches  
(Located near entrance door)  
-Typical View



Awning Light Switches  
(Located near entrance door)  
-Typical View

### NOTICE

The Power Patio Awning is extremely durable and can be operated during light rain and wind conditions. However, when periods of heavy rain, or wind is expected; or you leave the awning unattended the awning should be closed. Damage caused by wind and rain is not covered by warranty.

### CAUTION

Pinch Hazard. Ensure there are no people who could be harmed or objects that can be damaged. Failure to heed this warning could result in severe injury and/or property damage.

### Patio Awning Operation

1. Turn the Awning Power switch ON.
2. Use the Patio Awning switch to extend or retract the awning as desired.

### Power Switch

- **Power ON** - The On position activates the Patio Awning switch and the Auto-Retract system as well as provides power to the awning.
- **Power OFF** - The Off position shuts down the system. The awning cannot be extended or retracted in this mode. The Auto-Retract system is also disabled.

### Entry Door Awning -If Equipped

Your motorhome may feature an entrance door awning for additional protection. A second Awning Control switch is provided and operates in the same manner as the Patio Awning switch.

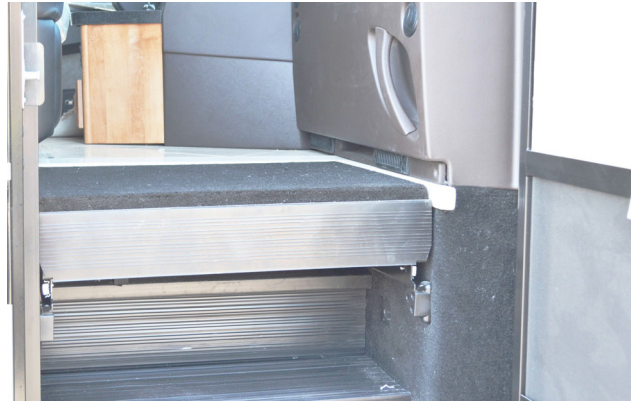


## **Ignition Lockout System**

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, refer to the manufacturer's information provided in your InfoCase.



Stepwell Cover shown in extended position  
-Typical View

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## **STEPWELL COVER**

### **-If Equipped**

The stepwell cover can be extended to cover the stepwell area and increase usable floor space in the front of the motorhome while the entrance door is not in use.

- Press and Hold the Step Cover switch (located on the passenger side armrest). Release when the stepwell cover has extended or retracted fully.



Step Cover Switch  
(Located on passenger side armrest)  
-Typical View

## **CAUTION**

Stay clear of the entrance step area when the step cover is being extended or retracted. Loose clothing may catch on components of the mechanism when entering or exiting the coach. Failure to observe can cause injury.

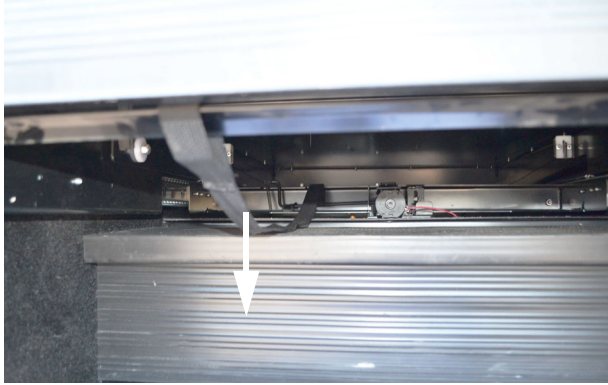
## **Emergency Retract Feature**

The stepwell cover is equipped with an Emergency Retract feature in event of an emergency exit situation and/or the stepwell cover fails to retract while in the extended position.

Do not use the Emergency Retract feature unless necessary for an emergency.

## SECTION 12 – MISCELLANEOUS

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Emergency Retract Strap  
(Located underneath stepwell cover)  
Typical View

- To retract the stepwell cover for an emergency exit, pull the Emergency Retract Strap (located underneath the stepwell cover) DOWN. Then push the step IN to store.

---

## WINDOWS

### Crank-Out Windows

#### –If Equipped

- To open, pull out the lever on the window handle and begin cranking the window out “counter-clockwise” to desired position.



-Typical View

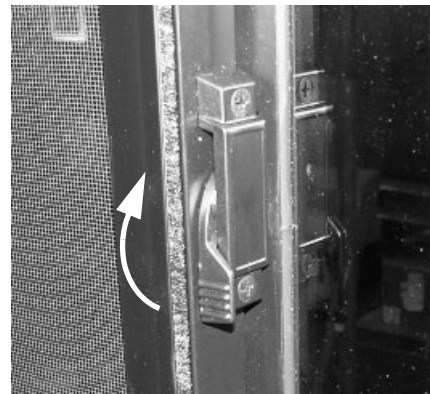
- To close, crank the window in snugly (by turning the window handle “clockwise”), then back off 1/4 turn to help avoid glass warping, which can result in wind noise.
- Push the lever back in on the window handle.

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 motorhome and gently free the glass with your fingers. A periodic light dusting of talcum powder on the gasket should prevent this from recurring.

### Horizontal Slider Windows

#### –If Equipped

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. Ensure the latch is open before trying to slide the window closed.

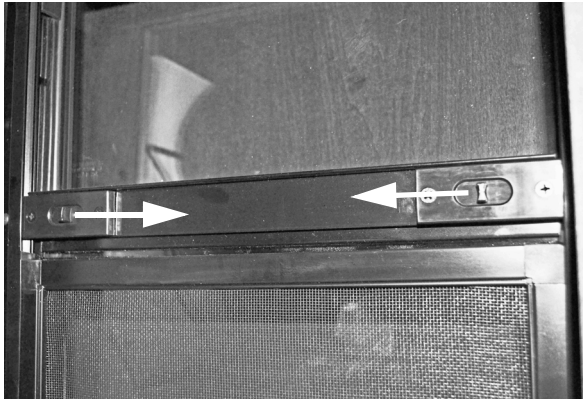


-Typical View

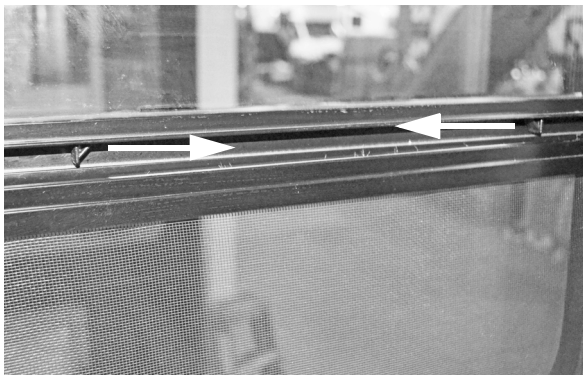
### Vertical Slider Windows

#### –If Equipped

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 both catches inward while opening and closing the window.



-Typical View



-Typical View

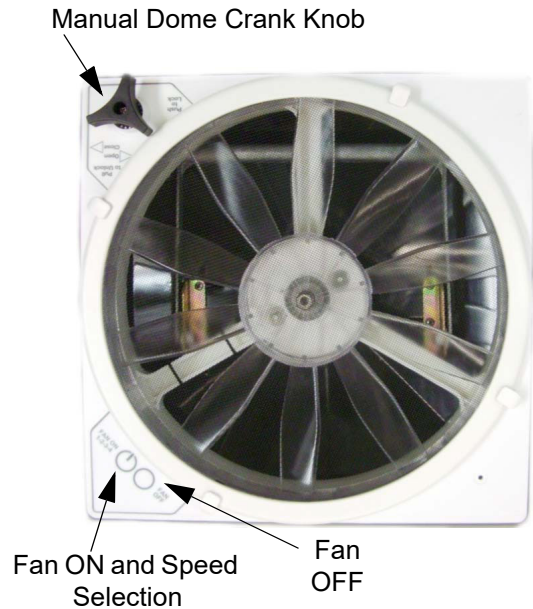
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## POWER ROOF VENTILATOR

### -If Equipped

The vent dome is raised and lowered using the Dome Crank knob on the fan.



Power Roof Ventilator

### To Operate Ceiling Ventilator

- Pull Dome Crank Knob to unlock, then turn counter-clockwise to open lid. Push in the Dome Crank Knob to lock the Vent Lid when open or closed.
- Press the Fan ON switch to turn on the fan. Press the Fan ON switch again to cycle through four (4) speeds; after high-speed, the fan cycles back to low.
- Open a window or door to provide airflow. Direction of airflow is determined by which window or door is opened.
- Press the Fan OFF switch to turn off the fan.

*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.*

### Further Information

See the power ventilator manufacturer's operating instructions supplied in your InfoCase for further instructions, care, and cleaning information.

## SECTION 12 – MISCELLANEOUS

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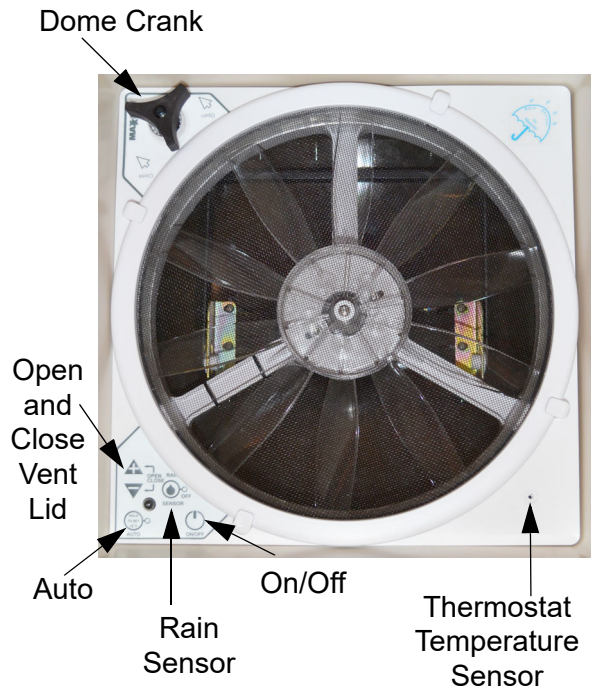
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### POWER ROOF VENTILATOR

#### –If Equipped

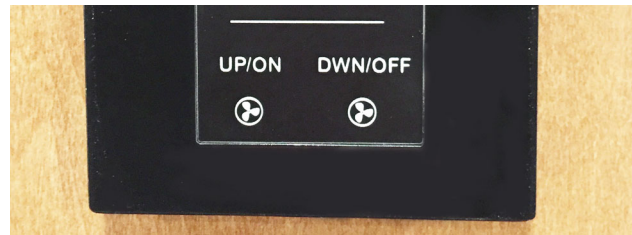
The vent is controlled by a switch on the wall or keypad controls on the fan.

*NOTE: In event of power failure, the ventilator dome may be opened or closed manually using the Dome Crank knob.*



Power Roof Ventilator

- **On/Off** - turns the fan on or off.
- **Dome Crank** - manually opens and closes vent lid.
- **Rain Sensor** - turns the rain sensor off (the light will illuminate red when deactivated).
- **Open/Close Arrows** - In Auto Mode, use the (+) and (-) buttons to adjust the thermostat. In Manual Mode, use the (+) and (-) buttons to adjust the fan speed.
- **Auto** - The thermostat will turn the fan on and off depending on the thermostat setting. Press once for less than three (3) seconds. You will hear three (3) quick beeps to confirm Auto Mode (the green light will illuminate). To exit Auto Mode, press the On/Off button.



Power Roof Ventilator Switches

#### To Operate Ceiling Ventilator

- Press the UP/ON switch to turn on and open the vent lid.
- Press the DWN/OFF switch to turn off and close the vent lid.
- 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 allows you to control the amount of circulation you need at any time.*

#### Rain Sensor

The ventilator features a Rain Sensor; when it detects moisture it will turn off the fan and close the lid. After the rain sensor has dried, turn the fan on.

*NOTE: If the lid is opened Manually, the Rain Sensor will not close the vent lid.*

#### Further Information

See the power ventilator manufacturer's operating instructions supplied in your InfoCase for further instructions, care, and cleaning information.

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### EFFECTS OF PROLONGED OCCUPANCY

Your motorhome was designed primarily for recreational use and short-term occupancy. If you expect to occupy your motorhome 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 motorhome. 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 motorhome, you should take immediate action to minimize their effects.

You can help reduce excessive moisture inside the motorhome 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 motorhome. In cold weather, this ventilation may increase use of the furnace, but it will greatly reduce the condensation inside the motorhome.

### **Minimize moisture released inside the motorhome**

Run the range hood fan while cooking and open a bath vent while bathing or showering to carry water vapor out of the motorhome. Avoid making steam from boiling water excessively or letting hot water run. Avoid bringing extra moisture into the motorhome by way of soaked clothing or snow on shoes. Do not hang-dry wet overcoats or clothing inside the motorhome.



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