

JOURNEY

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SECTION 1 – INTRODUCTION

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.

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.

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



WARNING

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



CAUTION

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

NOTICE

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

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

PRE-DELIVERY INSPECTION

This 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.

BEFORE DRIVING

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

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.

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.

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.

REPORTING SAFETY DEFECTS

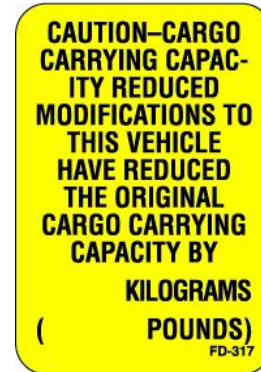
If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying Winnebago Industries, Inc.

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:

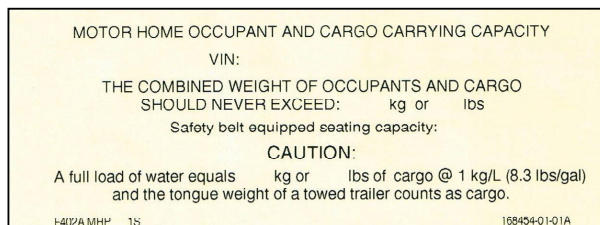
Administrator, NHTSA
1200 New Jersey Avenue S.E.
Washington, D.C. 20590

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:			SUITABLE TIRE AND RIM CHOICE			COLD INFLATION PRESSURE					
FRT	5	LB	KG	6	TIRE	7	RIM	8	PSI	KPA	9
RR		LB	KG					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	VIN	11	TYPE	12	COLOR	13
XXXXX XXXX XX XX/XX/XX XXX-XXXXX			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

	34N	36K	40P
	Freightliner® XCM 36,400 lb. Chassis	Freightliner® XCM 38,700 lb. Chassis	Freightliner® XCM 38,700 lb. Chassis
Feature Number	1BF	1BF	1BG
Length	35'6"	TBD	41'4"
Exterior Height ¹	13' 3"	13' 3"	13' 3"
Exterior Width ²	8' 5.5"	8' 5.5"	8' 5.5"
Exterior Storage ³	138 cu. Ft.	187 cu. ft.	256 cu. ft.
Awning Length	22'	22'	22'
Interior Height	7' 0"	7' 0"	7' 0"
Interior Width	8' 0.5"	8' 0.5"	8' 0.5"
Freshwater Tank Capacity ⁴	105 gal.	105 gal.	105 gal.
Water Heater Capacity	Continuous	Continuous	Continuous
Holding Tank Capacity - Black ⁴	57 gal.	57 gal.	57 gal.
Holding Tank Capacity - Gray ⁴	96 gal.	96 gal.	96 gal.
Propane Capacity ⁵	N/A	N/A	N/A
Wheelbase	205"	232"	275.5"
GVWR	36,400 lbs.	38,700 lbs.	38,700 lbs.
GAWR - Front	12,400 lbs.	14,700 lbs.	14,700 lbs.
GAWR - Rear	24,000 lbs.	24,000 lbs.	24,000 lbs.
GCWR ⁶	46,400 lbs.	48,700 lbs.	48,700 lbs.
Fuel Capacity	100 gal.	100 gal.	100 gal.

Notes:

All information is based upon the most recent data available. Visit the Winnebago Industries, Inc. web page – www.winnebagoind.com – for the most current product information.

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

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

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

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

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

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

**SECTION 1 –
INTRODUCTION**

OWNER AND VEHICLE INFORMATION

OWNER INFO

Owner's Name(s) _____

Address _____

VEHICLE INFORMATION

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.



SECTION 2 – SAFETY AND PRECAUTIONS

DRIVING SAFETY



WARNING

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

3. WHEELS - Inspect for damage and check lug nuts for tightness.
4. TIRES - Inspect for wear and damage and check for recommended air pressure.
5. LIGHTING - Test for proper operation of all interior and exterior lights including dash lights, headlights, tail lights, brake lights, clearance lights, and turn signals.
6. 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.
7. 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.
8. APPLIANCES - Turn off and latch or lock doors where provided.
9. LOOSE PARCELS - Store securely.
10. UTILITY SUPPLY LINES - Disconnect all electrical, sewer and water lines and secure properly.
11. 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.

FUEL

- Do not place or store gasoline or other flammable liquid containers inside the vehicle.
- Never smoke while refilling vehicle fuel tank.
- 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.
- The following warning label is located in the cooking area to remind you to provide an adequate supply of fresh air for combustion.

Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) avoids dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating, as the danger of asphyxiation is greater when the appliance is used for long periods of time. Failure to comply could result in death or serious injury.



CARBON MONOXIDE WARNING

WARNING

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

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.

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

WARNING

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

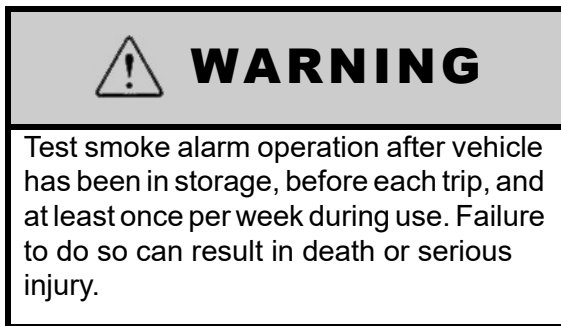
SMOKE ALARM

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.

- 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.

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.

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).

EMERGENCY EXITS

Escape Window

The escape window is secured by one red safety latch at the bottom of the window.

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



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

POWER SOFAS AND BEDS

WARNING

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



SECTION 2 – SAFETY AND PRECAUTIONS

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.

FORMALDEHYDE INFORMATION

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

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

MOLD, MOISTURE, AND YOUR 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?

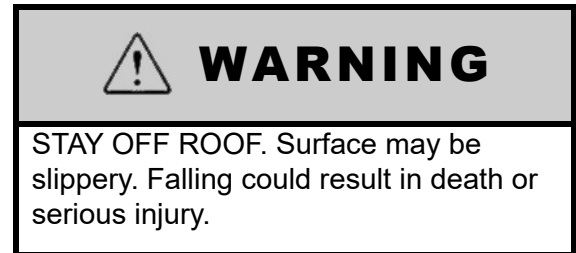
If Winnebago Industries determines that mold is present in the motorhome as a result of a manufacturing defect reported to Winnebago Industries within the limited warranty period, Winnebago will clean the affected area(s) and/or replace affected items as it deems necessary. This is the extent of coverage 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.

ROOF AND LADDERS

–If Equipped



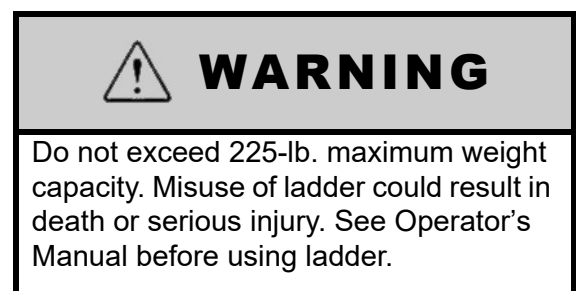
The ladder on your motorhome is provided for limited access to the roof.

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

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

Before Using the Ladder

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





SECTION 2 – SAFETY AND PRECAUTIONS

- **Maximum Capacity: 225 lbs.**
 - **Do not overload.** Ladder is intended for one person.
 - **Make sure you are physically capable** to safely use the ladder. Strength, flexibility, and stability are required.
 - **Be aware that the vehicle may sway** as you climb the ladder. Do not use the ladder in high winds.
 - **As you climb the ladder,** grasp the side rails firmly and always use both hands. Keep your body centered between the side rails. Do not over-reach.
 - **Never allow children** on the ladder.
 - **Do not transport items** anchored to the ladder. You could damage the ladder.
 - 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.

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.

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.

<h3>NOTICE</h3>
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.

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.

ENGINE OVERHEAT

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

NOTICE

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

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

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

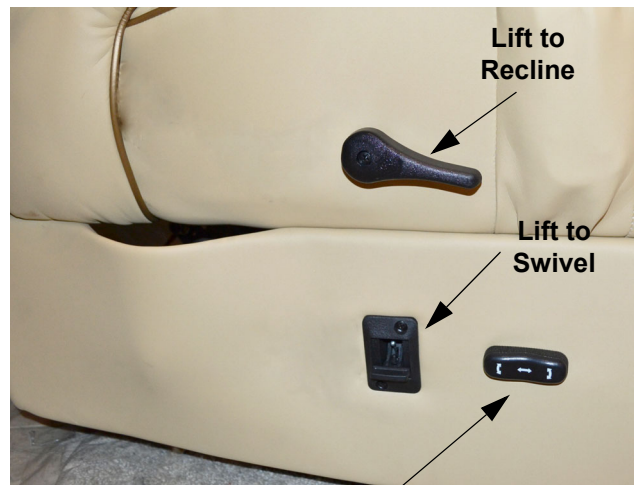
The driver and co-pilot seats may be independently adjusted to suit individual preference.

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.	

Multi-Adjustable Power Seats

Your motorhome is featured with multi-adjustable power seats for your travel convenience. The power seat controls are located on the lower aisle (inboard) side of the seat base.



6-way Switch

- Front of Seat Up/Down
- Forward/Back
- Back of Seat Up/Down

To Face Driver's Seat Rearward

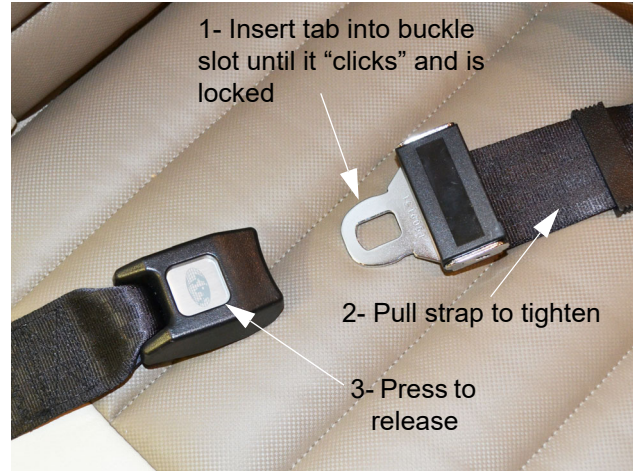
- Tilt the steering wheel all the way up and put the left armrest down.
- Move the seat rearward fully and then ahead a few inches.
- Swivel the seat to the right until it just contacts the steering wheel, then move the seat ahead all the way to clear the steering wheel.
- Swivel the seat the rest of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

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

SECTION 3 – DRIVING YOUR MOTORHOME

NOTE: Your comfort adjustment is retained when the armrest is folded upright to exit seat. When you return to your seat and fold the armrest forward, it will stop at the previously selected position.



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.

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.



WARNING

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

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

Lap/Shoulder Belts

Fastening

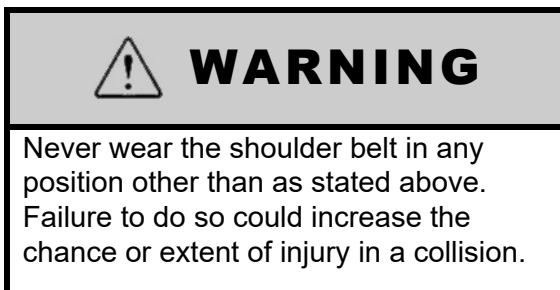
Hold the belt just behind the tongue. Next, bring the belt across the body and insert the tongue into the buckle until the latch engages.

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.

CHILD RESTRAINTS

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 seats).

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.

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.

SECTION 3 – DRIVING YOUR MOTORHOME

POWER DOOR LOCKS

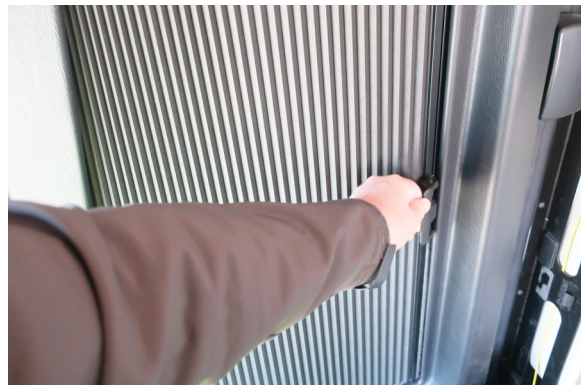
Your motorhome is featured with an entrance door power lock system. The Power Door Lock switches are located on the passenger side trim panel and the dash.



Power Door Locks - Entry Door
(Located on the passenger side control panel)



Press both buttons inward to release the shade.
-Typical View

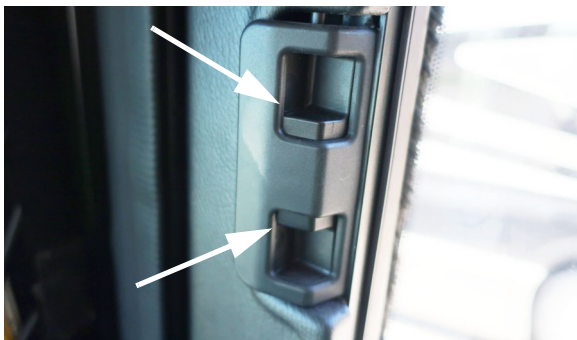


Pull the shade across until the magnet secures the shade. Reverse the steps to return the shade to the original position.
-Typical View

NOTE: Only handle the shade using the handle only. Do not pull or touch the shade itself to avoid binding or other damage.

ENTRY DOOR PRIVACY SHADE

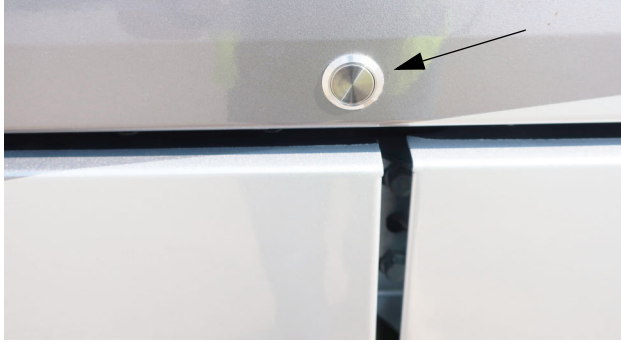
Your motorhome is featured with a magnetic entry door privacy shade. Follow the instructions below to operate.



Locate the release buttons on the left hand side of the entry door's window.
-Typical View

POWER COMPARTMENT DOORS

Your motorhome is featured with powered compartment doors. Turn the coach battery on to activate the power doors. To open, press the button above the corresponding door. The motor will activate, release, and open the door. When you close the door, push it shut until the motor grabs the door. **Do not try to force the door to close-** the motor will cycle and automatically close it the rest of the way.



Power Compartment Door- with chassis battery on, push button for automatic opening. To shut, press closed until the motor grabs the door and shuts it automatically.
-Typical View

Power Compartment Door Emergency Release Levers

If power to the doors is lost, open the rear engine access at the back of the motorhome and locate the driver and passenger side emergency release levers. When the lever is pulled on either side, it will open that side's rear compartment door. To open the next door, locate the emergency lever in the door that was just opened, and so on.



Power Compartment Door emergency release lever- pull to release corresponding door.
-Typical View

ACCENT LED LIGHT STRIPS

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 switches (located on the dash) operates the LED Light Strips.

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



Lighting Switches
(Located on dash)
-Typical View

MIRRORS – POWER ELECTRIC

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



Turn Signal Indicator Lights -If Equipped

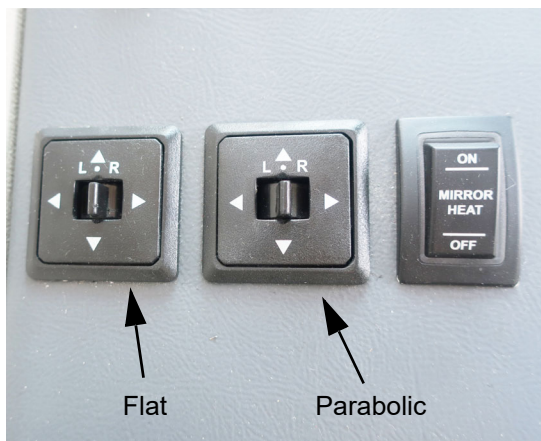
Your motorhome may be equipped with turn signal indicators, which are built into the driver and passenger side mirror arms. The indicators are activated with the corresponding turn signals and will remain activated until the turn is completed or the signal lever is canceled manually.

SECTION 3 – DRIVING YOUR MOTORHOME

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.

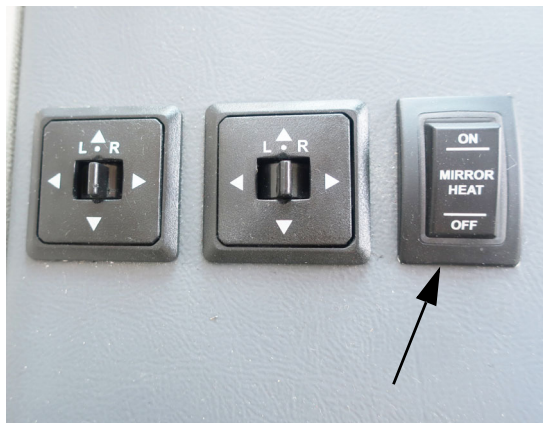


Press Arrow Buttons to move
mirror surface in direction indicated. The left switch is
for the upper flat glass, and the right switch is for the
lower parabolic glass.

-Typical View

Mirror Heaters

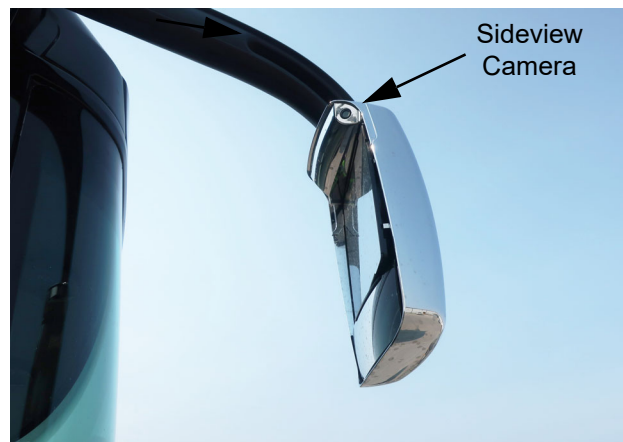
The mirrors may also contain heating
elements to defog or de-ice the mirror glass
during cold weather operation. An ON-OFF
switch for the mirror heaters is located near the
remote mirror controls.



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

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.

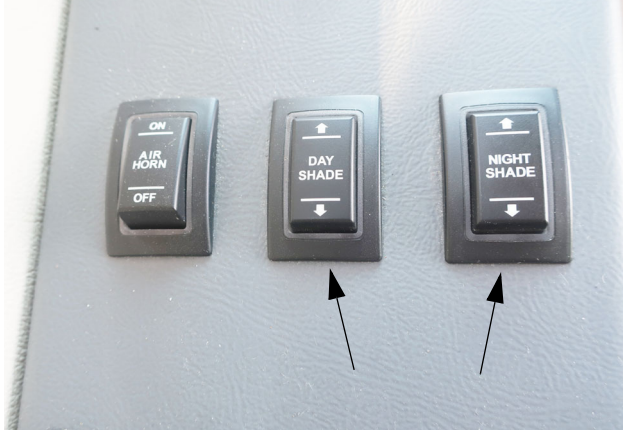


-Typical View

FRONT DROP-DOWN SOLAR/ NIGHT SHADE (12-VOLT)

Your motorhome is equipped with a 12V
Front Drop-Down Solar/Night Shade that
provides privacy and solar heat protection as well
as a sunvisor feature.

The power switches for the 12V Front Drop-
Down Solar/Night Shade are located on the
driver side trim panel.



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

Press the Solar Shade (black) or the Night Shade (white) switch up or down to adjust the shade to the setting that best suits your needs.

Dual range motors provide lowering of either two shades 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 solar/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 Solar/Night Shade manufacturer's information provided in your InfoCase.

Automatic Safety Retraction

The Solar/Night Shade in your vehicle is equipped with an Automatic Safety Retraction feature, which will retract the Solar/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 Solar/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.

RADIO IN-DASH/REARVIEW MONITOR SYSTEM

-If Equipped

The radio in your motorhome can receive AM/FM stereo stations.

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

The radio screen switches automatically when the transmission is shifted into reverse.



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

Bluetooth

-If Equipped

Your motorhome may be equipped with a Bluetooth microphone cable for hands-free cell phone usage.

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

SECTION 3 – DRIVING YOUR MOTORHOME

GPS

The GPS navigation system can help you confidently chart your course through the most dense concrete jungle or remote country backroad using global satellite positioning technology.

NOTE: Ensure GPS SD card is inserted in the slot on the dash radio core unit.

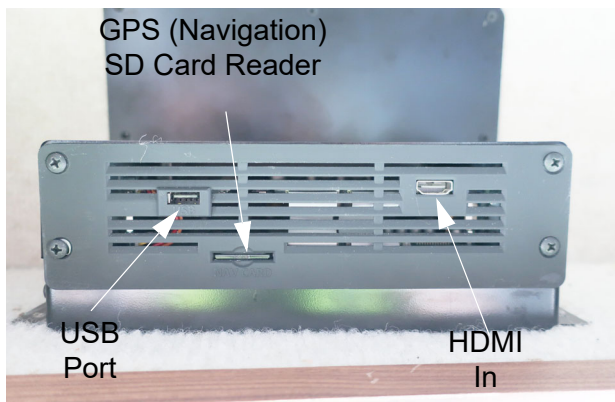
Navigational information can be displayed on both the GPS and radio monitors using either the radio or the remote control.

NOTE: Ensure the Input Button on the GPS Display Panel is set to VIDEO 1 and the “Aux Zone” on the radio is set to NAV.

HDMI

Your motorhome is equipped with an HDMI connection that plays through your dash radio.

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



GPS, USB port, and HDMI IN
(Located in front overhead cabinet)
-Typical View

Radio Power Switch

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

NOTE: The House/Coach Battery Disconnect switch must be ON while listening to the dash radio because the audio relay is

powered by house batteries. If the House/Coach Battery Disconnect switch is OFF, the speakers will not emit sound.



Radio Power Switch
(Located on dash)
-Typical View

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

Further Information

See the manufacturer’s user guide provided in your InfoCase for complete operating instructions, including bluetooth and numerous other options.

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

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.

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 in to activate Hazard Flashers, press again to de-activate..
- Typical View

Further Information

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

SECTION 3 – DRIVING YOUR MOTORHOME

SIGNAL LEVER/HEADLIGHT HIGH-LOW BEAM

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



Turn Signals/High-Low Beams
(Typical View - your motorhome may differ
depending on model)

- 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.
- Pull end of handle toward you to switch headlight high/low beams.

Further Information

See your chassis manual for further operating instructions and features.

HEADLIGHT SWITCH

The headlight switches are located on the left side of the dash.



- **ALL lights OFF:** Turn switch all the way to the left in the vertical position (image shown)
- **Lights ON:** press the switch all the way to the right.
- **Parking Lights ON:** press the switch to the middle position.
- **Fog Lights:** With the lights on, pull the switch outward.

Headlight Switch
(Located on left side of dash)
-Typical View

Further Information

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

**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

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**

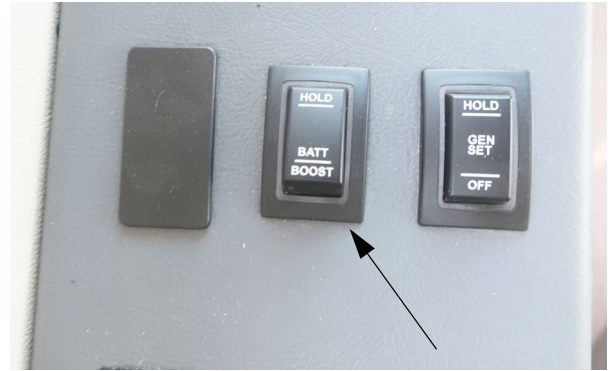
Do not adjust the steering column or tilt wheel while the vehicle is in motion. Doing so may cause loss of vehicle control resulting in death or personal injury.

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.

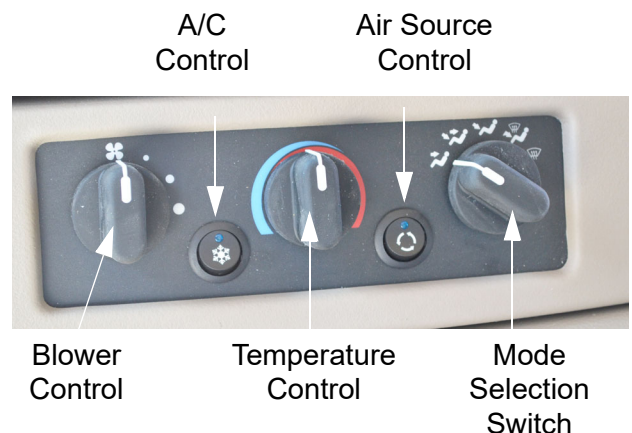


Battery Boost Switch
(Located on drivers side trim panel)
-Typical View

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

**AIR CONDITIONER/HEATER –
AUTOMOTIVE (DASH)**

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



-Typical View

NOTE: The dash air conditioner/heater is not designed to heat and cool the entire interior of the motorhome, but is

SECTION 3 – DRIVING YOUR MOTORHOME

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

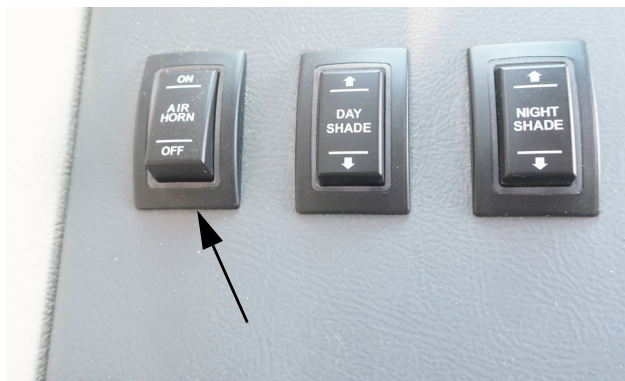
See the manufacturer's user guide provided in your InfoCase for complete operating instructions.

AIR HORNS

Press the Air Horn switch (located on the dash or driver side trim panel, depending on model) 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 drivers 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.

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.

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.



WARNING

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.

**FRONT SERVICE ACCESS
(HOOD)**

The front hood panel can be opened for access to the air hose connector and service items such as filling windshield washer fluid reservoir and checking the generator oil.

Extending Front Hood Panel

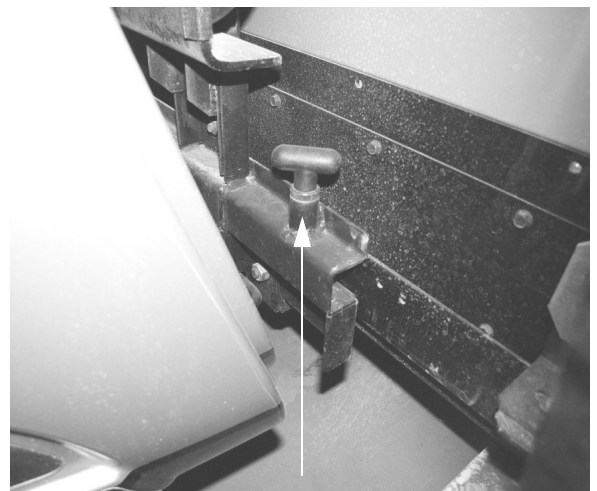
1. Pull Release Lever straight out (toward front end of motorhome) and extend hood.



Release Lever
(Located underneath the passenger side front hood)

NOTE: As a safety feature, the hood will only extend partially after disengaging the Release Lever. Proceed with Step 2 for full extension procedure.

2. Lift Security T-Pin straight UP while pulling hood out to the fully extended position.



Security T-Pin
(Located on the passenger side of the lower front hood bracket)

3. To store front hood panel, push hood in completely until the Release Lever “clicks” back into stored position.

SECTION 3 – DRIVING YOUR MOTORHOME

ENGINE SERVICE ACCESS GRILLE – REAR

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

Release the latches located at the top of the grille panel and swing out toward you.

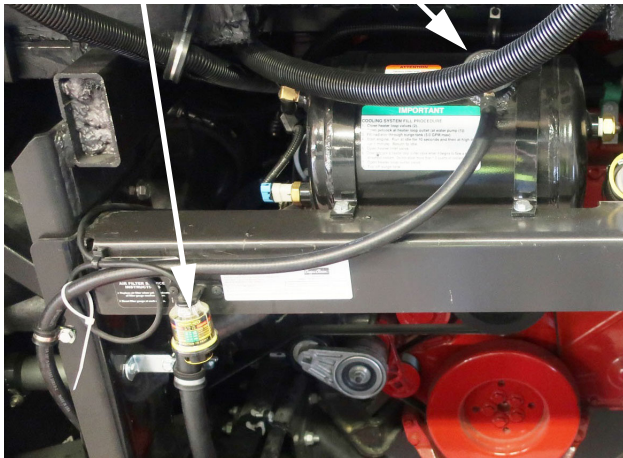
With the grille panel open, you can access the following service points:

- Engine Oil Dipstick
- Engine Oil Fill Cap
- Power Steering Reservoir
- Radiator Cap (rear radiator only). On side radiator vehicles, the radiator is located on the driver side rear.
- Engine Coolant Reservoir
- Transmission Dipstick/Fill Tube
- Air Filter Restriction Indicator
- Engine Diagnostic Connector

Service Points with Side Radiator

Air Filter
Restriction
Indicator

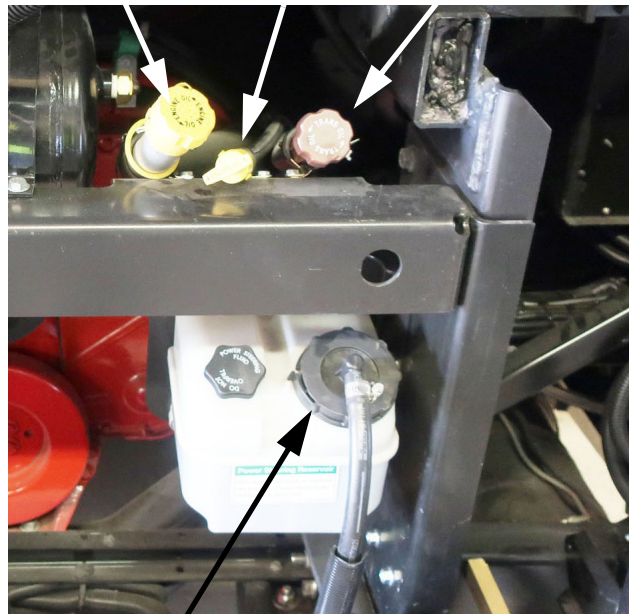
Engine Coolant
Reservoir



Engine
Oil Fill

Engine Oil
Dipstick

Transmission
Fluid Fill/Dipstick



Power Steering Fluid
Reservoir

ENGINE ACCESS COVER –

The Engine Access Cover is only 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 the Engine Access Cover. The undersides of the cover could contain deposits of oil and fuel or other engine fluids and substances that could damage fabrics and interior furnishings.

Models N34N, N36K, and N40P Engine Access Cover

1. Remove rear bathroom/bedroom rug (if equipped) and set aside.
2. Using the Engine Cover Latch Key (located on your key ring), unlock the Engine Cover Latch by turning counter-clockwise.



Engine Cover Latch Key
(Located on key ring)



Engine Cover Latch
-Typical View

3. Using a Suction Cup Lift, remove unlocked Engine Access Cover and set aside.

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

4. Remove fasteners from metal engine access cover and set cover aside.
5. Reverse steps to reinstall engine access cover.

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.

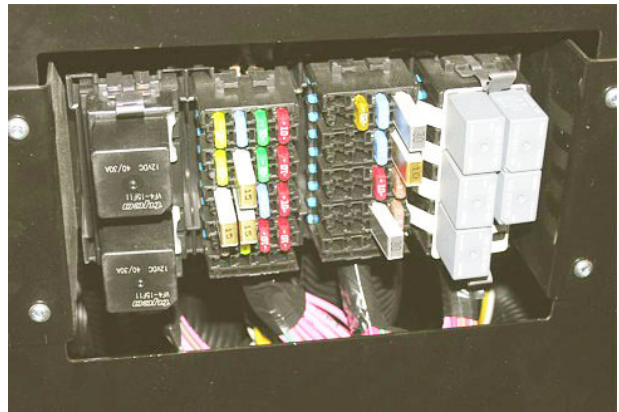
SECTION 3 – DRIVING YOUR MOTORHOME

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 passengers side exterior compartment.

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



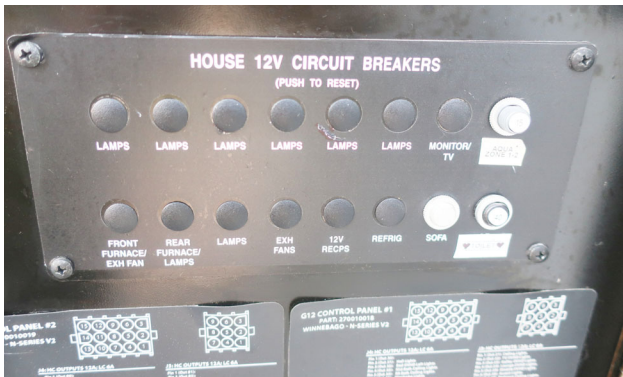
Automotive Fuses (cover removed)

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.

Further Information

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



Automotive Circuit Breakers (push to reset)
-Typical Views

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.

Further Information

Refer to the chassis manual provided in your InfoCase for instructions on filling and checking the washer fluid levels, and other information.

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.

HUB COVER

Freightliner® Chassis supplied with Alloy Wheels

- To remove the rear hub cover, locate the hub cover wrench (with directional indicator arrows) from the InfoCase.



Hub Cover Wrench
-Typical View

Attach the hub cover wrench to the hub cover.

- Align the hex of the wrench opening with the hex of the hub cover center nut and move wrench inward until the nut surface is outboard of the wrench.

Driver Side (left hand thread)

- To Remove turn clockwise.
- To Install turn counter-clockwise.

Passenger Side (right hand thread)

- To Remove turn counter-clockwise.
- To Install turn clockwise.



Further Information

Contact Freightliner® Custom Chassis for more information: 1-800-FTL-HELP (1-800-385-4357).

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.

SECTION 3 – DRIVING YOUR MOTORHOME

Further Information

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

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 – CONNECTED COACH

Many of your motorhome's system functions and monitoring are now conveniently observed and controlled using a LED touchscreen monitor and command center. This monitor is typically located in the central interior area of the floor plan.

The following are general descriptions of the typical command screens and their functions. More detailed operational information can be found in specific functional areas within this manual.

NOTE: Each motorhome is unique in it's specific features, equipment, systems and floor plan design, and each command center is programmed for that specific model's configuration. As a result your motorhome's configuration may vary somewhat from the illustrations shown here, but the basic navigation and user experience will be similar.

CONNECTED COACH HOME SCREEN

The Home Screen is indicated by the house shaped button located on the selector row at the top.

The Home Screen displays the fresh water and holding tank levels, as well as the chassis battery and house battery condition. You can start the generator or turn on the water pump and water heater, as well as some other basic user function controls described in the following section.

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: Empty (0%), and Full (100%). There is generally more fluid in a tank than indicated on the monitor panel.



Holding tank levels on the Home Screen
-Typical View

Tank Capacities

See "Tank Capacities" in *Section 1 - Introduction*.

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.

SECTION 4 – CONNECTED COACH

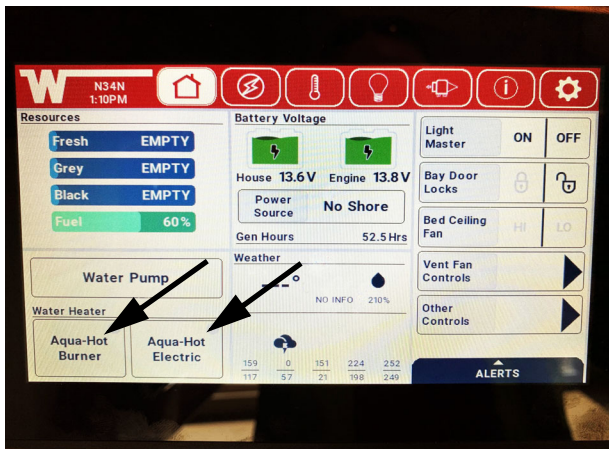


Water Pump Button
Tap Water Pump to turn off/on
-Typical View

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.

Water Heater Controls

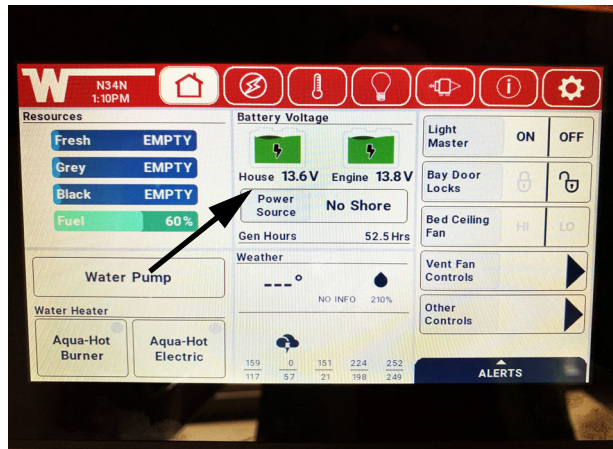
The water heater controls are located on the lower left of the Home Screen. Tap the desired button to turn off and on.



Water heater controls on the Home Screen
-Typical View

Battery Voltage

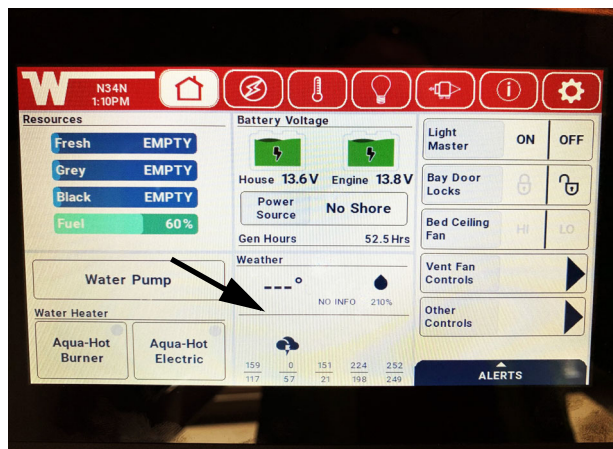
The Battery Voltage section on the Home Screen is used to monitor the House and the Engine (chassis) batteries. It also indicated the current power source being used and the total generator hours.



Battery Voltage section on the Home
Screen
-Typical View

Weather Section

The Weather Section on the Home Screen will show the local weather and forecast (when connected to Wi-Fi or cellular service).



Weather section on the Home Screen
-Typical View

Light Master

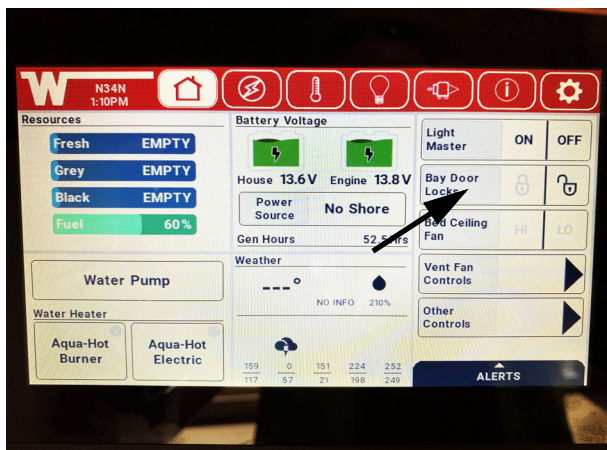
The Light Master button turns on all the available inside lights that have been selected.



Light Master on the Home Screen
-Typical View

Bay Door Locks

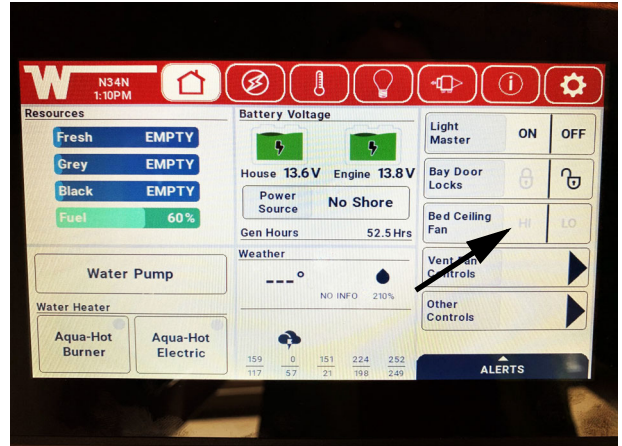
The Bay Door Locks button on the home screen will lock or unlock the outside cargo doors.



Bay Door Locks on the Home Screen
-Typical View

Bed Ceiling Fan

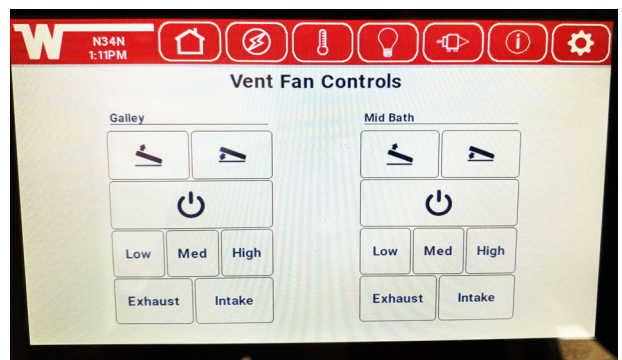
The Bed Ceiling Fan button on the home screen will turn on or off the bedroom ceiling fan. There is a hi and a low setting indicated on the controls.



Bed Ceiling Fan on the Home Screen
-Typical View

Vent Fan Controls

Selecting the Vent Fan Controls button will take you to the controls that operate the Galley and the Mid Bath vent fans. The top buttons on each as indicated by the picture, open and close the outside vent fan doors. The button with the circle and the line turn the fans on by tapping once to turn on and again to turn off. There are 3 speed setting being low, medium and high, and the vent fans can each be specified to exhaust or intake. Exhaust will pull air out of the coach and the intake will pull air into the coach.



Vent Fan Controls on the Home Screen
-Typical View

SECTION 4 – CONNECTED COACH

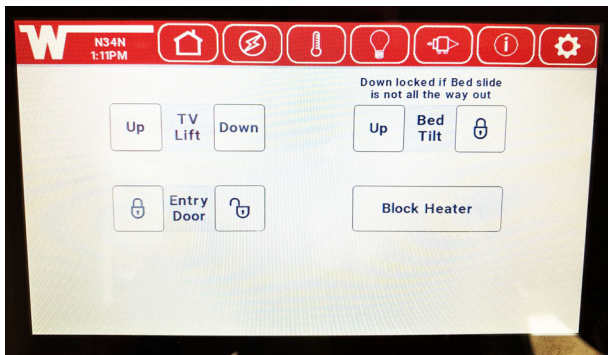
Other Controls

The lower right corner of the home screen has a button that selects other controls. The TV lift is operated by holding down the button to lift the TV up or Down.

The Entry door can be locked or unlocked from here.

The Bed Tilt buttons will tilt the bed up or down to the desired height. If the Bed slide out is not all the way out, the down button will be replaced with a lock icon. This prevents the bed from trying to go down when the slide out is in.

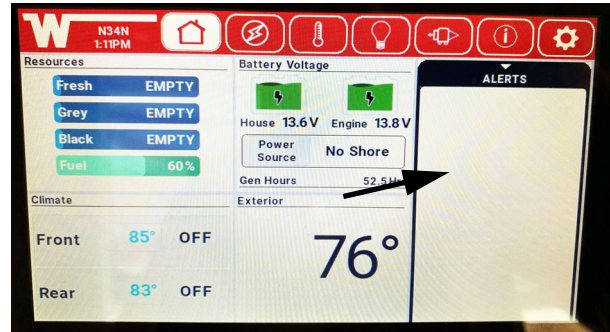
The last button on the bottom right of this screen is the Block Heater. Tap to turn on and off.



Other Controls screen. Including the TV lift, Entry Door, Bed Tilt and Block Heater controls.
-Typical View

Alerts Viewer

The lower right bottom of the Home Screen has an alerts viewer that when selected will display any trouble areas or faults. When selected the Alerts tab will raise up and the information will be displayed in the tab. Selecting this button will also bring up a quick display of the internal temperatures at the front and the rear of the motorhome as well as the outside temperature.



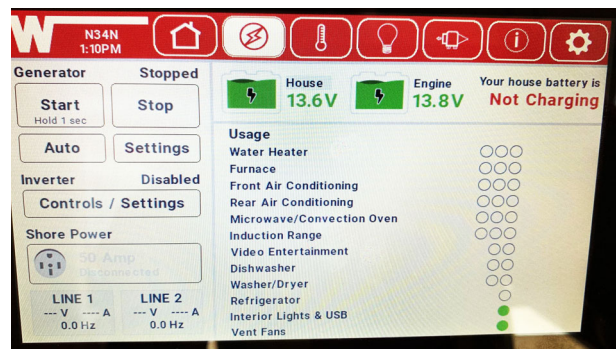
Alerts tab on the Home Screen
(Any alerts will be displayed in this space)
-Typical View

CONNECTED COACH ELECTRICAL SCREEN

The Electrical Screen is indicated by the lightning bolt shaped button located on the selector row at the top.

Electrical Main Screen

From the main screen of the electrical section you can start and stop the generator, customize generator and inverter settings, and check if shore power is connected. On the right side of the screen the individual electrical systems are listed and if they are being used are indicated by the circles being green.



Electrical Main Screen
-Typical View

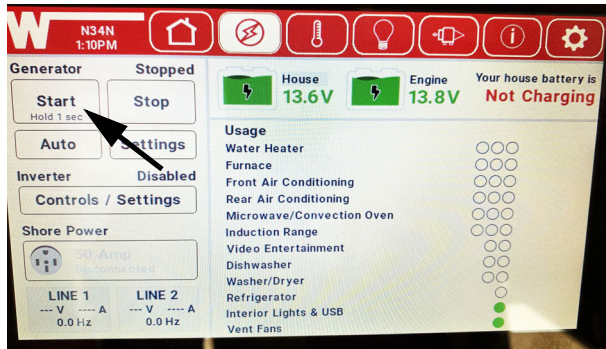
Generator Controls

The generator controls are located on the top left of the Electrical Main Screen. To start the generator hold the start button for a minimum of 1 second, the generator will start up. Press the stop button to stop the generator. The generator

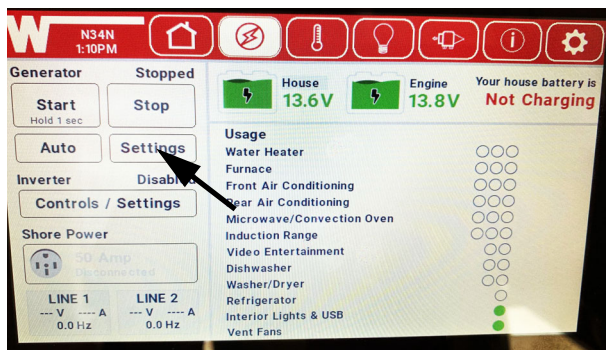
settings button will take you to the generator settings screen. The generator auto button will set the generator to turn on automatically according to the generator auto settings.

Further Information

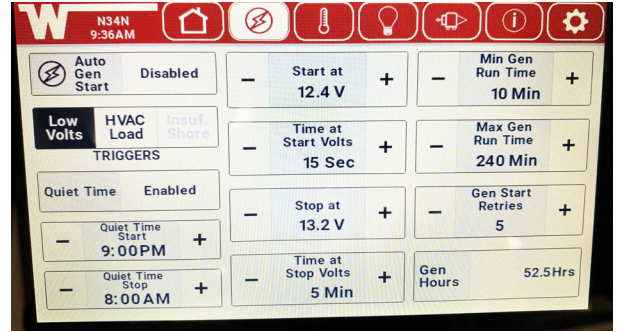
Refer to the Electrical Generator section in this manual’s electrical chapter and the generator manufacturer’s user guide provided in your InfoCase for complete operating instructions, specific recommendations, troubleshooting tips, safety precautions, and maintenance information.



Generator Start Button
-Typical View



Generator Settings Button
-Typical View



Generator Settings Screen

Use this screen to customize various triggers to automatically start and stop the generator. The total run hours are also displayed in the lower right side of the screen.

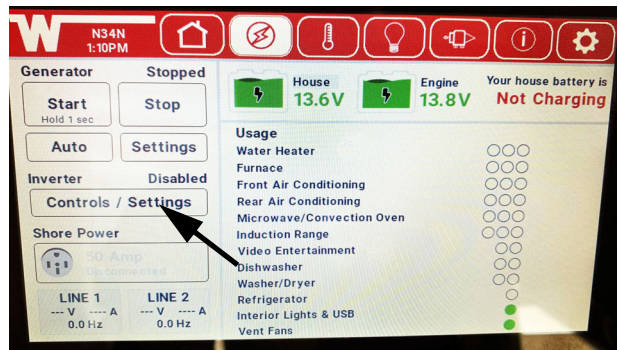
-Typical View

Inverter Controls

The Inverter Controls are located on the Electrical Main Screen on the left side below the generator. This button will take you to the 3 pages of inverter customization including low battery cutout, max charge current, output power limits, etc.

Further Information

See the Inverter/charger unit section in this manual’s electrical section and the inverter/charger manufacturer’s user guide provided in your InfoCase for complete instructions and charging setup directions.



Inverter Settings Button
-Typical View

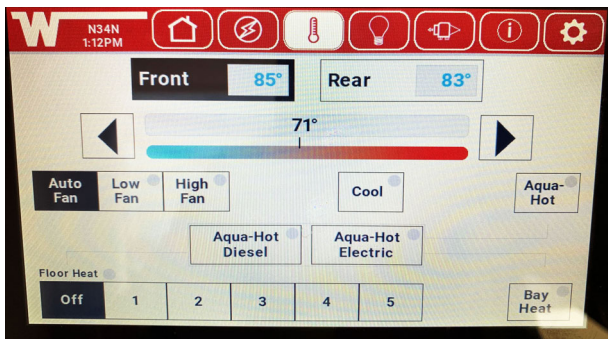
SECTION 4 – CONNECTED COACH

CONNECTED COACH CLIMATE SCREEN

The Climate Screen is indicated by the temperature icon button located on the selector row at the top. The Climate Screen has controls for the front and rear temperature, fan, air conditioner, water heater, floor heat and bay heat controls.

Further Information

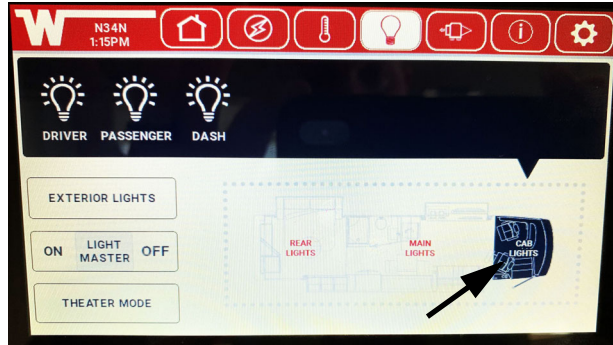
See the heating and air conditioning sections located in the Appliances chapter and the water heater section located in the Plumbing chapter of this manual for further information.



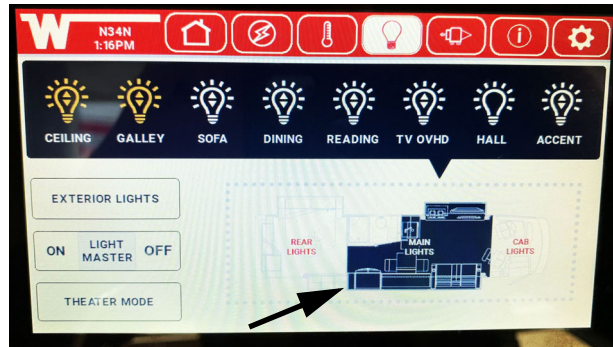
Climate Screen
-Typical View

CONNECTED COACH LIGHTING SCREEN

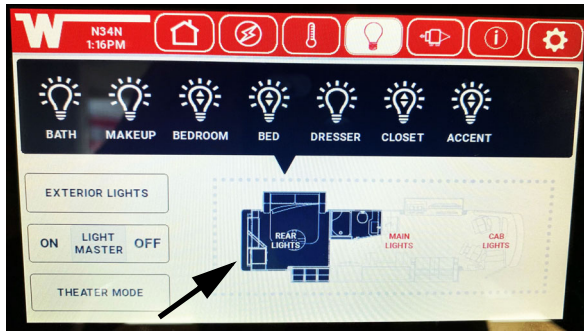
The Lighting Screen is indicated by the light bulb shaped button located on the selector row at the top. There are 3 primary zones of lights, consisting of the rear, main, and cab lights. These are selected using the overhead view picture of the motorhome shown on the screen. There is also an exterior lights button, light master button and theatre mode.



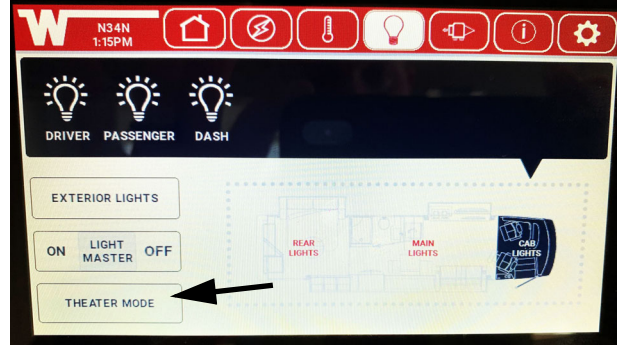
Selecting the Cab Lights button will allow you to turn on the Driver, Passenger, and Dash lights.
-Typical View



Selecting the Main Lights button will allow you to turn on the Ceiling, Galley, Sofa, Dining, Reading, TV Overhead, Hall, and Accent lights.
-Typical View



Selecting the Rear Lights button will allow you to turn on the Bath, Makeup, Bedroom, Bed, Dresser, Closet, and Accent lights
-Typical View

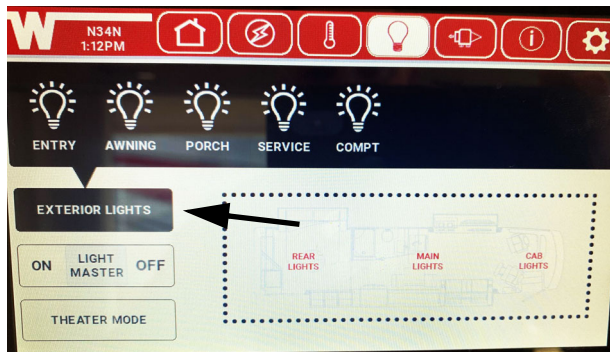


Pressing the Theatre Mode button will automatically set the Main Lights to Theatre Mode, and raise the TV. To return the TV back to the storage configuration, use the Buffet TV power lift controls on the galley control panel near the buffet.
-Typical View

NOTE: Ensure that the buffet counter is clear before raising/lowering the TV to protect the TV, lift/lower mechanism, and personal property from possible damage.

Further Information

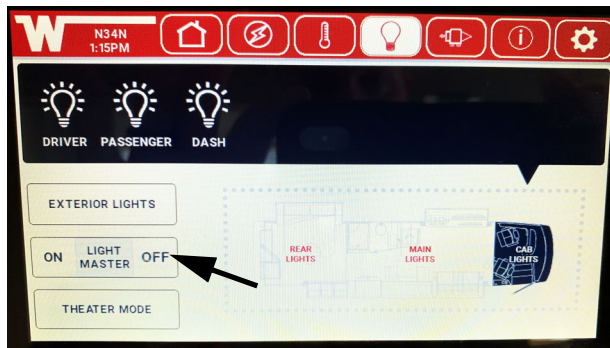
Refer to the TV Power Lift section in this manual's entertainment chapter for further information about the Power Lift TV.



Selecting the Exterior Lights button will allow you to turn on the Entry, Awning, Porch, Service, and Compartment lights.
-Typical View

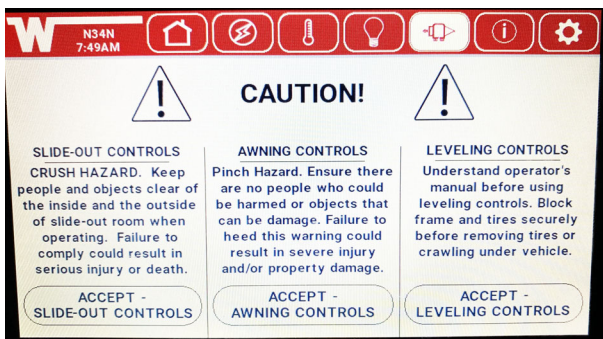
CONNECTED COACH SLIDEOUT, AWNING AND LEVELING SCREEN

This Screen is indicated by the coach icon located on the selector row at the top. Pressing this button takes you to a menu that accesses the Slide-out, Awning, and Leveling controls. Read the caution instructions carefully on the menu before selecting the corresponding controls.

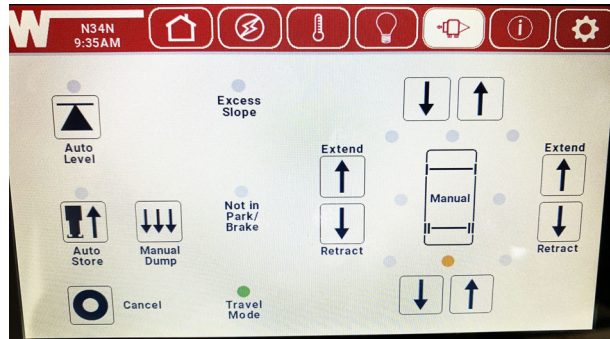


The Light Master button allows you to turn all of your previously selected lights on or off.
-Typical View

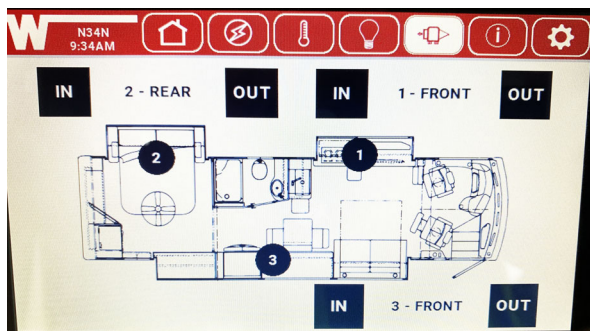
SECTION 4 – CONNECTED COACH



Slide-out, awning and leveling main screen
-Typical View



Leveling Controls
Refer to the leveling section in the slide-outs and leveling chapter in this manual for operating instructions and safety precautions.
-Typical View



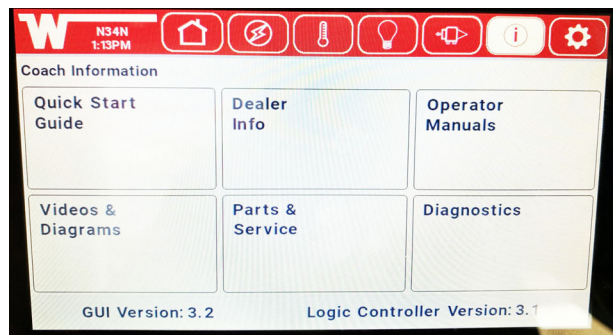
Slide-out Controls
Refer to the slide-out section in the slide-outs and leveling chapter in this manual for operating instructions and safety precautions.
-Typical View



Awning Controls
Refer to the awning section in the miscellaneous chapter in this manual for operating instructions and safety precautions.
-Typical View

CONNECTED COACH INFORMATION SCREEN

The Information Screen is indicated by the circled “i” button located on the selector row at the top. This screen can be used to access the quick start guide, Dealer Information, Operator Manuals, Videos and Diagrams, Parts and Service, and Diagnostics. Many of these selections will take you to a QR code that can be scanned by smartphones to access content. (Online documents and videos require Internet or cell service to access.)



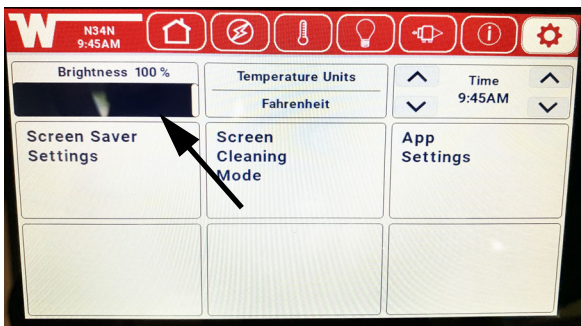
Information Screen
-Typical View

CONNECTED COACH SETTINGS SCREEN

The settings screen is indicated by the gear icon button located on the selector row at the top. This screen has controls for the brightness, screen saver settings, screen cleaning mode, app settings, temperature units, and time adjust.

Brightness Adjust Bar

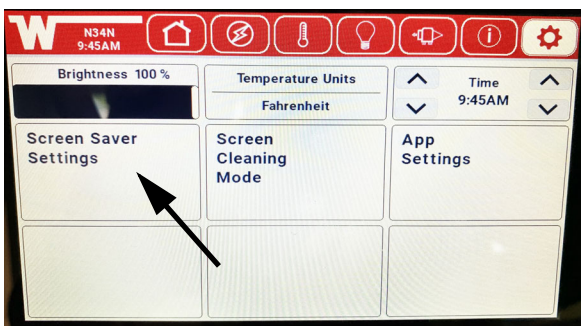
This controls the brightness of the Connected Coach control screen.



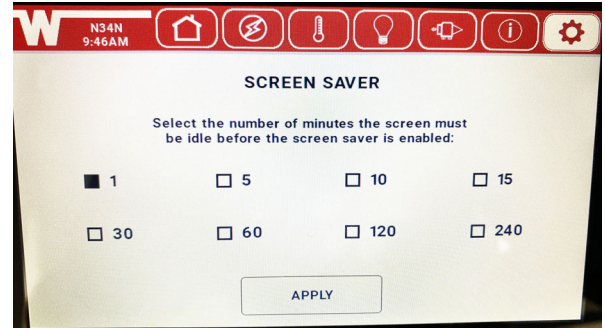
Brightness Adjust Bar on the Connected Coach settings screen.
-Typical View

Screen Saver Settings

This setting allows you to adjust the length of time it takes for the screen saver to activate.



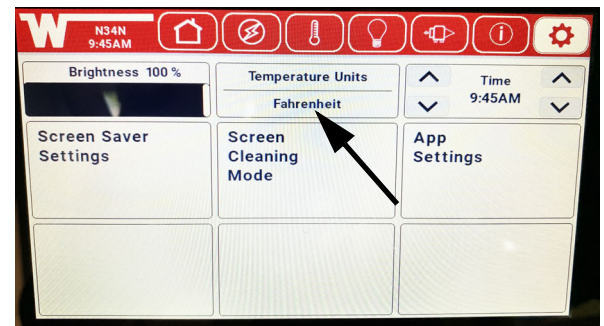
Select the Screen Saver Settings from the Settings screen.
-Typical View



Select the desired time it takes for the screen saver to activate.
-Typical View

Temperature Units

The Temperature Units selector will switch the temperature reading on the home screen between Fahrenheit and Celsius.

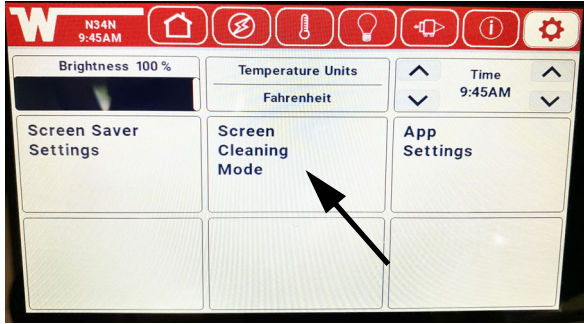


Temperature Units button
-Typical View

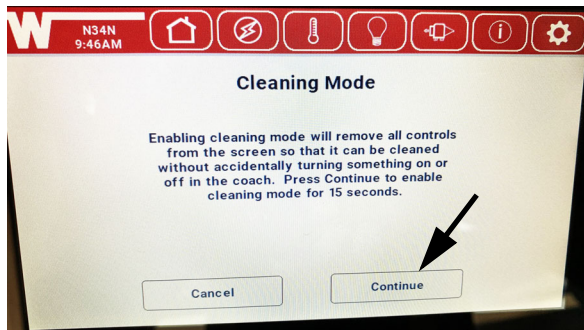
Screen Cleaning mode

The screen cleaning mode allows you to clean the Connected Coach screen without accidentally activating unwanted buttons. By selecting this button it will deactivate all buttons for 15 seconds at a time, allowing you to wipe and clean the screen using only approved cleaning products, and taking care not to scratch the screen.

SECTION 4 – CONNECTED COACH



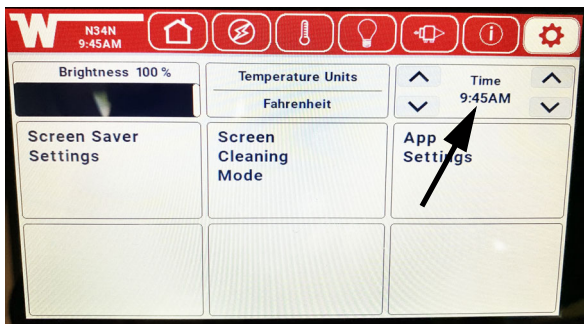
Select the Screen Cleaning Mode to access the screen cleaning control screen.
-Typical View



Select the continue button on the cleaning mode screen to start the cleaning mode.
-Typical View

Time Adjustment

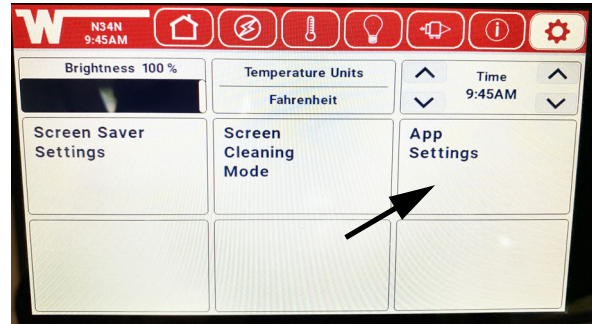
The left time adjustment up and down arrows change the Connected Coach screen's time hours, while the right side up and down arrows adjust the minutes.



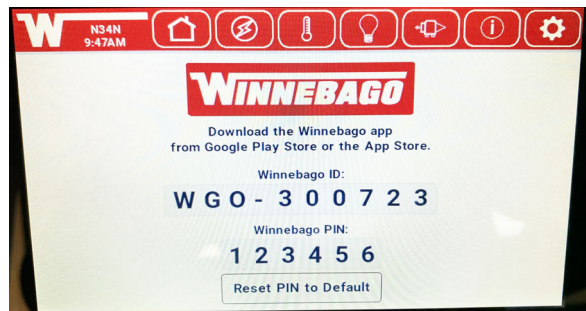
Time adjustment on the settings screen.
-Typical View

App Settings Screen

This screen has information to download the Winnebago App and Winnebago ID for the app as well as the pin. It also gives the option to reset the pin to the default mode.



App settings button.
-Typical View



App settings information screen and pin default button.
-Typical View

SECTION 5 – 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.

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



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.

Refrigerator/Freezer Operation

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

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

Ice Maker

- To turn ON the ice maker, lower the wire shutoff arm.
- To turn OFF the ice maker, lift the wire shutoff arm to the OFF (arm up) position until it “clicks”.

NOTE: Your ice maker is equipped with an automatic shutoff. As ice is made, the ice cubes will fill the storage tray raising the shutoff arm to the OFF (arm up) position. Do not force the wire shutoff arm up or down.

Replacing the Water Filter

The water filter is located in the upper right-hand corner of the refrigerator compartment.

SECTION 5 – APPLIANCES AND SYSTEMS

Your refrigerator is equipped with water filter indicator lights, which remind you when it is time to order and replace the water filter. When the Order light comes on, it is almost time to change the filter. When the Replace light comes on, a new water filter should be installed.

It is recommended to replace the water filter at least every 6 months, or earlier if the flow of water to your ice maker noticeably decreases.

See the manufacturer’s user guide included in your InfoCase for water filter ordering information.

NOTE: Air trapped in the water system may cause the filter to eject. Always dispense water for at least 2 minutes before removing the filter.

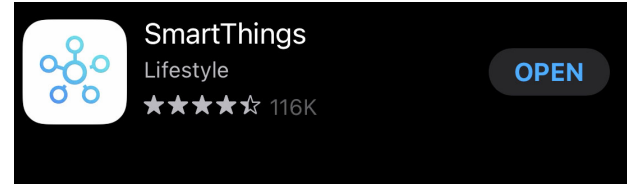
Removing/Replacing the Water Filter

- Turn water filter counter-clockwise to remove.
- Remove sealing label from replacement filter and insert the filter end into the filter head.
- Turn the filter clockwise until it stops.
- Snap the filter cover closed.

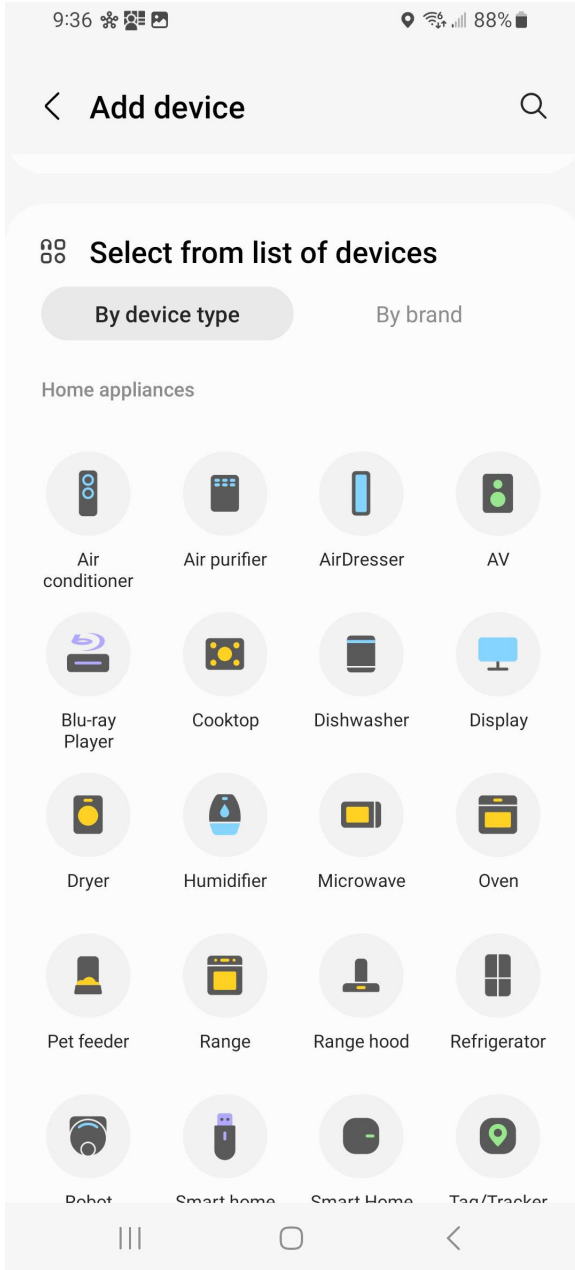
NOTE: Flush four gallons of water through water filter before use.

Peak Demand Setting

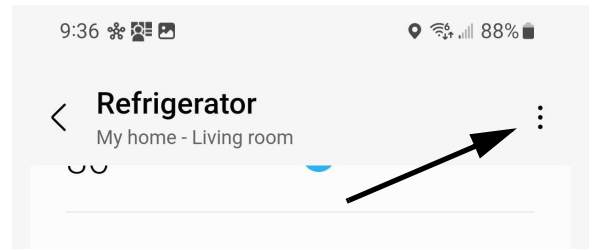
The refrigerator is factory set at the most economic setting. If the coach temperature is elevated above normal living conditions, it is recommended to override the peak demand usage for the best cooling results. The images below describe how to change that setting.



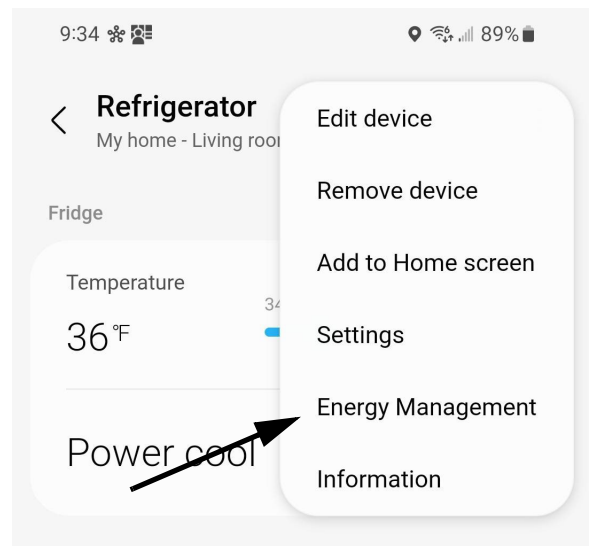
1. Locate the SmartThings app in the Apple Store for all Apple devices, or the Google Play Store for all android devices, and download it to your smartphone. (Apple Store version shown).
-Typical View



2. With the app downloaded, scan and add your refrigerator.
-Typical View



3. Select the drop down menu at the top.
-Typical View

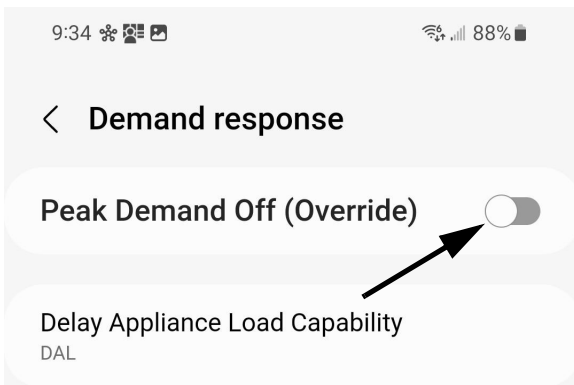


4. Select “Energy Management” from the selection.
-Typical View

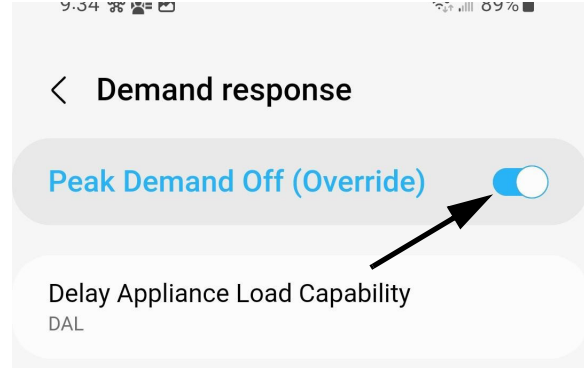
SECTION 5 – APPLIANCES AND SYSTEMS



5. Select “Demand response”.
-Typical View



6. Switch the “Peak Demand Off (Override)”
button.
-Typical View



7. Picture of “Peak Demand Off (Override)”
selected”. The letters will illuminate blue
when switched over.
-Typical View

Further Information

See the manufacturer’s user guide provided in your InfoCase for further key features as well as operating, safety, maintenance, and troubleshooting information.

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.

REFRIGERATOR/FREEZER – PORTABLE

–If Equipped

Your motorhome may be equipped with a 12/24-volt DC Portable Refrigerator/Freezer, which is mounted on a slide tray in a passenger side storage compartment.

- To extend the refrigerator/freezer unit for easier access, release the slide tray lock mechanism by lifting UP.



- Grasp the underside of the slide tray and extend.



- To store refrigerator/freezer, push unit in fully until the lock mechanism engages.

Further Information

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

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 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.

NOTE: The cabinet doors covering the face of the appliance must remain open and stowed when the appliance is in use.

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.

RANGE TOP (ELECTRIC)

–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 motorhome operates on electricity and will provide most of the functions of the range in your home.

Refer to the appliance manufacturer's user guide provided in your InfoCase for complete range features and operating instructions.

Avoiding Asphyxiation

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.

SECTION 5 – APPLIANCES AND SYSTEMS



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.

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, 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 as Empty (0%), 1/3 (33%), 2/3 (66%), and Full (100%). There is generally more fluid in a tank than indicated on the monitor panel.



“Home” Screen
-Typical View

Tank Capacities

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

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.



“Power” 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
-Typical View

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.

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 or generator to prevent nuisance tripping.



“Power” Screen

(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.

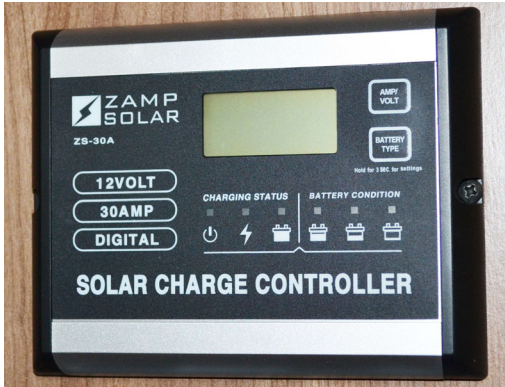
SOLAR CHARGE PANEL

–If Equipped

The roof-mounted Solar Charge Panel uses the sun to help keep your house batteries charged. A Solar Charge Controller is located near the monitor panel or in an exterior compartment (depending on model) to show you when the Solar Charge Panel is actively charging the house batteries.

The solar charging system installed in your motorhome has a maximum input rating of 510 Watts. Every solar panel connected to the system needs to be accounted for, this includes all roof mounted panels and the ground level single solar port.

SECTION 5 – APPLIANCES AND SYSTEMS



Solar Charge Controller
(Located near monitor panel or in an exterior compartment, depending on model)

3-Port Solar Cap –If Equipped

The Port Solar Cap (located on the roof) is intended to make it easy to add additional solar panels to the roof. Each Solar Port has a maximum input rating of 150 Watts. The 3 -Port Solar Cap when fully loaded has a maximum input rating of 450 Watts.



3-Port Solar Cap
(Located on the roof)

Single Solar Port –If Equipped

The Single Solar Port (located at ground level) is for using a portable solar panel, it has a maximum input rating of 150 Watts. The Single Solar Port is connected to the coach batteries through the solar charge controller (located on an exterior sidewall or inside an exterior compartment, depending on model). When

connecting a portable solar panel, a separate solar charge controller is not needed and will reduce the effectiveness of the portable solar panel.



Single Solar Port
(Located on an exterior sidewall or inside an exterior compartment, depending on model)

NOTE: The Solar Charge Panel is not intended to make the coach battery system “maintenance free.” The solar panel will not completely compensate for continuous low amperage draw from components such as the dash radio clock, and the radio station memory circuitry, for example.

Although the Solar Charge Panel can help to extend battery life, the motorhome shoreline should be plugged in routinely to “top off” the batteries. We also recommend following regular battery inspection and maintenance, especially in cold weather.

See “Battery Care” in Section 6 - Electrical.

Further Information

Refer to the manufacturer’s user manual provided in your InfoCase for complete operating instructions.

HYDRONIC HEATING SYSTEM

–If Equipped

The Hydronic Heating System in your RV provides a continuous supply of hot water and interior heat. This system features a 12-volt DC powered diesel burner (which utilizes on-board diesel fuel) and a 120-volt AC electric heating

element, along with a propylene glycol-based antifreeze and water heating solution to give you the luxury of quiet, continuous warmth in your motorhome.

NOTICE

If operating the heating system or generator, always maintain 1/4 tank of diesel fuel to ensure proper system operation. The heating system or 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.

Monitor Panel

Located above the Expansion Fill Tank is the monitor panel for the water heater. It allows the user to check the status of the hot water systems and allow for a system check. See the Hydronic Heating System Operation Manual in your InfoCase for further operation and usage.



Monitor Panel located above the Expansion Fill Tank.
-Typical View

Expansion Fill Tank



Hydronic Heating System
(Located in passenger side compartment)
-Typical View

NOTICE

When the water system is in use, the thermostat should never be set below 40-degrees F. to prevent freeze damage to components.

NOTE: If low voltage occurs, the Hydronic Heating System will shut down. Once the voltage level is restored, you must reset the system by turning OFF the diesel burner switch on the interior control switch panel for approximately 30 seconds, then turning the switch back ON.

SECTION 5 – APPLIANCES AND SYSTEMS



Expansion Fill Tank
-Typical View

- Check antifreeze/water heating solution level monthly. When the system is at maximum operating temperature (i.e. immediately after the diesel burner cycles OFF), the fluid level should be at the level marked HOT.
- If fluid level is low, see the Maintenance Section in the manufacturer's operating manual for replenishing the antifreeze/water heating solution.

NOTE: Use only Aqua-Hot® approved propylene glycol-based antifreeze.

Hot Water

The Hydronic Heating System allows water to be heated as it is being used. A continuous supply of hot water is obtained through a tankless, on-demand hot water system.

Interior Heat

This system is also equipped with circulation pumps, which allow individual interior heating zones. Whenever the room thermostat calls for heat, the water heating solution is circulated through interior heat exchangers (similar to radiators) located throughout your RV that distributes heat quietly and evenly.

- Front - Main Living Area.
- Rear - Bedroom and Bath(s).
- Bay - Lower storage compartments and holding tanks.



Hydronic Heating System
Interior Control Switches
"Climate" Screen
-Typical View

The Hydronic Heating System can be operated off of the 120-volt AC electric heating element or the 12-volt DC diesel burner.

NOTE: Please note that the diesel burner is the primary heat source for heating both the interior and the domestic hot water (such as when cool ambient temperatures exist and/or when there is a high demand for domestic hot water).

It is recommended that when starting up your RV in extreme cold weather conditions or when you are planning on taking a longer shower, to turn on the diesel burner switch located on your interior control switch panel.

If you normally run the Hydronic Heating System off of the 120-volt AC electric heating element only, it is recommended to fire up the diesel burner monthly as routine maintenance.

Increasing and Decreasing Water Temperature

A tempering valve is located on the back side of the Aqua-Hot unit for regulating the temperature of the hot water.

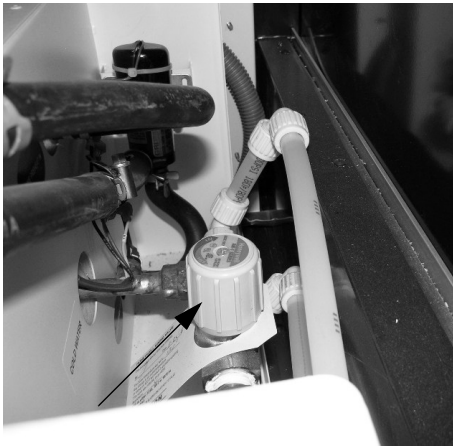
Turning the tempering valve an 1/8 of a turn either way will dramatically increase or decrease the water temperature.



WARNING

Increasing water temperature may result in scalding and serious injury.

- Turn tempering valve COUNTER-CLOCKWISE to INCREASE water temperature.
- Turn tempering valve CLOCKWISE to DECREASE water temperature.



Hydronic Heating System
Tempering Valve
(Located on back side of the
Aqua-Hot unit)
-Typical View

Changing the Fuel Filter and Fuel Nozzle

To keep the Aqua-Hot system running smoothly, it is recommended to have the diesel burner tuned up annually. This consists of replacing the fuel filter and the fuel nozzle. To ensure maximum performance, always replace with the fuel filter and fuel nozzle recommended for your Aqua-Hot system.



Aqua-Hot Fuel Filter
(Located in center of motorhome
behind front wheels)
-Typical View



Fuel Nozzle

See “*Winterizing Procedure*” in Section 7 - *Plumbing (ANTIFREEZE FILL PROCEDURE)* for complete instructions in winterizing your Hydronic Heating System. The Aqua-Hot will be winterized along with the rest of the RV water systems.

NOTICE

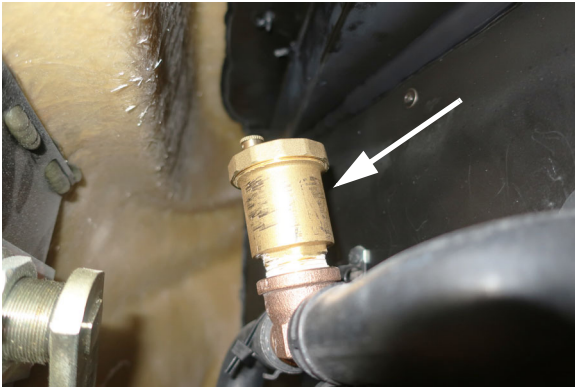
Do not blow out Aqua-Hot Hydronic Heating System. Failure to comply may result in system damage.

Pressure Relief Valves

Your motorhome is equipped with 2 pressure relief valves that are used in an event of an air lock in the system to relieve pressure. They are located on the top passenger side of the generator compartment in the front of the motorhome (all

SECTION 5 – APPLIANCES AND SYSTEMS

models). The other one is located in the cabinet behind the rear toilet (model N40P), or under the bed on the heating unit.(model N34N).



Example of pressure relief valve in generator compartment
-Typical View



Example of second pressure relief valve in motorhome (N40P shown)
-Typical View

Further Information

Read the operating, safety, and maintenance information as well as troubleshooting and parts and service information provided in the Hydronic Heating System Operation Manual in your InfoCase.

THERMOSTAT (Heating and Cooling)

The Electronic Thermostat (located on the monitor panel) controls the Hydronic Heating system, as well as the roof air conditioners in your motorhome.

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, Zone 2, Zone 3, or all zones simultaneously.

Roof Air Conditioners

The N34 and N36 have 2, and the N40 has 3 AC units.

- REAR - (1) A/C Unit in Bedroom/Bath Area
- MID (if equipped)- (1) A/C Unit in Living/ Galley Area
- FRONT - (1) A/C Unit in Front Cab 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 can be selected.

- Settings are shared between bedroom and lounge to ensure that A/C and Heat Pump cannot be run at the same time.

Heat

The lounge heating mode is controlled by the “Mid” temperature setting.

1. Select the desired temperature on the temp bar.
2. Under the desired area of the motorhome (Front, Rear, or Bay) use button to toggle to Aqua-Hot zone heat mode.
3. The Heating system will default to “Heat Pump”. Select the AquaHot Power Source (either Diesel Heat or Electric Heat) if desired.

Floor Heat

The Floor Heat selector is in the lower right of the Climate screen. This heats the floor, and the status is displayed on the selector.

Cool

The lounge cooling mode allows independent temperature settings between the Front A/C and Middle A/C.

1. Select “Cool” mode.
2. Under the desired area of the motorhome (bedroom, mid, or front) use button to toggle to “Cool” mode.
3. Adjust the temperature.
4. Select the fan speed of your choice (High, Low, or Auto).

Auto

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

- Select the desired heat source.
- Select the Fan Speed.
- Settings are shared between Bedroom and Lounge to ensure that A/C and Heat Pump cannot be run at the same time.

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.

Condensate Drain Lines

The three roof air conditioners are equipped with condensate water pumps, which allows water that is extracted from the roof air conditioners to be pumped through three separate drain lines (located at the rear of the motorhome).

If you notice water running off of the roof when the air conditioners are running, this is a sign that one or more of the drain lines have plugged and water is now flowing out of the safety overflow of the air conditioner(s).

NOTE: It is normal for some water to run off the roof when using your air conditioner in “heat pump” mode.

See your Winnebago Industries® dealer for service and proper cleaning of the drain lines.

NOTICE

Water running off the roof is a sign the condensate drain lines are plugged and require service. Failure to comply may result in water damage to the roof.

AIR CONDITIONER FILTERS

Air Conditioner Filters are located inside the Return Air Vents throughout the ceiling of the motorhome and must be inspected monthly and cleaned periodically so the air conditioners will operate efficiently.

In some areas of the motorhome, the return air vents may be located above removable panels in the ceiling.

SECTION 5 – APPLIANCES AND SYSTEMS



Return Air Vent
(Grasp louvers and pull straight
down to remove air vent)
-Typical View

It is recommended to use mild soap and warm water to clean the air filters. When finished, allow filters to air dry.



Air Filter
(Located on back side of Return Air Vent)
-Typical View

NOTE: There are multiple Supply and Return Vents throughout the motorhome. Therefore, you must remember to remove each separate air filter from each Return Air Vent to clean.

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

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



Water Supply Faucets
-Typical View

Water Supply Faucet Locations

- Model N40N and N36K - inside wardrobe behind access panel.
- Models 34N - beneath the access panel left side of rear dresser.

See “Winterizing Optional Appliances” in *Section 7 - Plumbing* for steps in winterizing your Stackable Washer/Dryer.

Further Information

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

WASHER/DRYER – PREP PACKAGE

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

Typically, the plumbing is located inside a rear storage cabinet (pull out drawer or remove shelving and panels to access).

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

DISHWASHER

(Drawer Style)

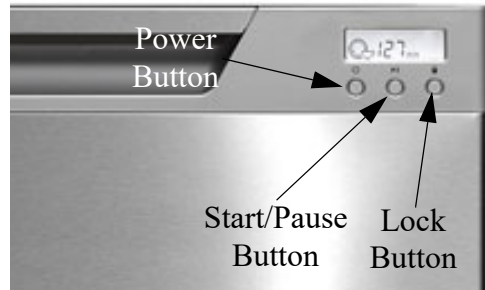
–If Equipped

NOTE: The cabinet doors covering the face of the appliance must remain open and stowed when the appliance is in use.



Lock Feature

The Dish Drawer must be programmed to the “Closed Drawer” mode to keep the drawer locked while driving.



1. Press the Power button (left side of touch panel).
2. Open the drawer, then press the ECO button on the inside of the drawer and the Lock button (right side of touch panel) at the same time until you hear one long beep.
3. Press the Start/Pause button (center of touch panel) 3 times (the light above the button will be red).
4. Press the Lock button (right side of touch panel) to turn the “Closed Drawer” feature on. The lights on display panel inside of the drawer will light up.
5. Press the Power button (left on touch panel) the unit is set.

NOTE: If the power is disconnected and restored, the drawer will unlock then lock itself after 30 seconds. It will stay locked when power is disconnected and must have power connected to open.

To open the drawer in this mode, you must press the Start/Pause button.

Further Information

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

DISHWASHER

(Drawer Style)

–If Equipped

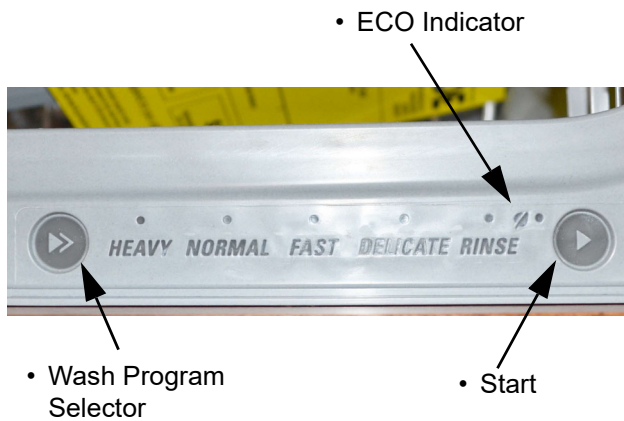
Lock Feature

The Dish Drawer must be programmed to the “Closed Drawer” autolock feature to keep the drawer locked while driving.

SECTION 5 – APPLIANCES AND SYSTEMS

NOTE: If the power to the dishwasher is disconnected, the drawer will remain locked.

The dishwasher can be operated by either the remote control (located inside the InfoCase) or by using the wash program panel (located inside the dishwasher).



Wash Program Panel
(located inside the dishwasher)
-Typical View



Dishwasher Remote Control
-Typical View

Basic Dishwasher Operation

1. Press the Wash Program Selector button repeatedly to select a wash setting. The ECO Indicator light will illuminate red when an energy efficient setting has been selected.
2. Press the Start button. Close the drawer to start the wash cycle.
3. The dishwasher will beep six (6) times when the wash cycle is complete.

NOTE: The dishwasher can be paused with the remote only. Press the remote control button and wait for three (3) beeps before opening the drawer.

Further Information

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

CENTRAL VACUUM CLEANER

If your motorhome is equipped with a central vacuum cleaner, it will be located in a passenger side storage compartment.

The central vacuum cleaner operates on 120-volt household current, so the shoreline must be connected to provide power.

To Use The Vacuum

Plug the hose into the hose outlet. The Central Vacuum Cleaner will start automatically. When you remove the hose, the vacuum will stop.



Interior Hose Outlet- lift cover to access
-Typical View

If The Vacuum Will Not Start

Check for a tripped circuit breaker. Also be sure that the vacuum unit is plugged into the electrical outlet in the exterior storage compartment, and the shoreline is connected.

Exterior Storage Compartment Vacuum

A hose outlet is located on the central vacuum cleaner for convenient cleaning of exterior storage compartments and other items outside of the motorhome. To open the hose outlet, push the slider cover on the front panel to the open position.



Exterior Hose Outlet

Further Information

See the central vacuum cleaner manufacturer's user guide provided in your InfoCase for complete operating instructions, filter bag replacement, maintenance, and troubleshooting information.

SECTION 6 – ELECTRICAL

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.

ELECTRICAL CAUTIONS

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

ELECTRICAL SYSTEM – HOUSE 120-VOLT AC

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

when the auxiliary electric generator is running, the power converter automatically changes a portion of the 120-volt current to 12-volt DC current. All equipment in the 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.

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

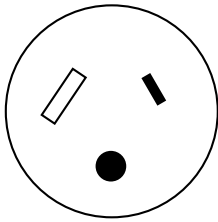
SECTION 6 – ELECTRICAL

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.

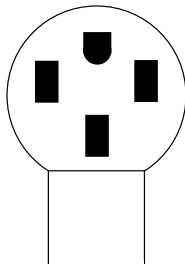


30 Amp Receptacle



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 accessible through a mid-passenger side compartment door.



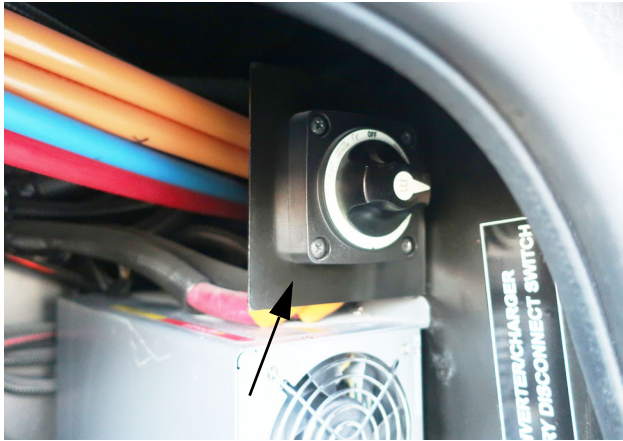
Inverter Charger Unit
(Accessible through mid-passenger side compartment door)
-Typical View

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.

SECTION 6 – ELECTRICAL

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.



Inverter/charger disconnect switch.
(Located next to the inverter right in
passengers side storage compartment)
-Typical View

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

If 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 has a wall-mounted control panel that can be programmed for several charging options. It will also display warnings for overload conditions or other operating failure conditions.

The inverter/charger control panel is located near the monitor panel or near the slideout control switches, depending on model.



- Press for Inverter
Charger Settings

Inverter/Charger Switches “DC” Screen

(Located on the Monitor Panel)

- On the “DC” screen, press the INVERTER button to enable (ON) or disable (OFF) the inverter.

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.

NOTE: Your motorhome may be equipped with a residential-style refrigerator, which will only operate on 120-volt AC. The residential refrigerator requires either the shoreline to be plugged in, the generator running, or inverter power. When the residential refrigerator is operating from inverter power, special care should be taken to ensure adequate power is available from the house batteries and condition of the batteries should be monitored periodically. The inverter is not intended to power devices for long periods of time.

Further Information

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

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:

- N34N and N36K-behind a compartment door on the passengers side 3rd door rearward.
- N40P- Behind a compartment door on the passengers side 4th door rearward.



House Circuit Breakers
-Typical Installation
-Typical View

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

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.



- 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.

GFCI Outlet
(Ground Fault Protector)



WARNING

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

SECTION 6 – ELECTRICAL

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

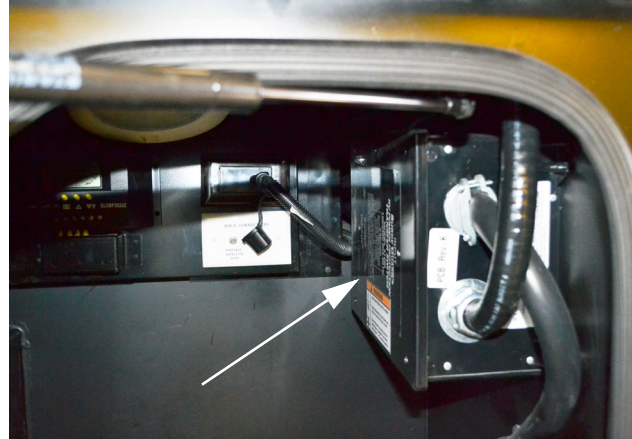
Do not plug the power cord into the generator receptacle while the generator is running. Electrical shock can cause personal injury.

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.



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



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

Generator Operation

NOTICE

If operating the heating system or generator, always maintain 1/4 tank of diesel fuel to ensure proper system operation. The heating system or 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

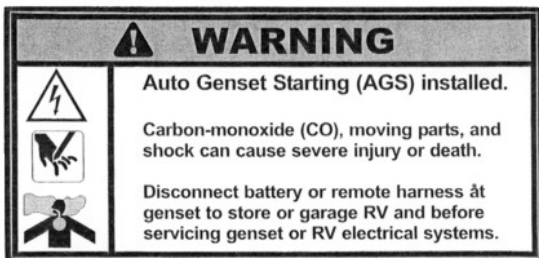
Press and Hold the Generator switch in START position until you hear the generator running smoothly, then release.

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.

The following label is located near the 120-volt house circuit breaker panel and at the Generator to warn you to disconnect specific electrical connections before servicing the Generator and storing the motorhome.



Automatic Generator Start (AGS)

The Automatic Generator Start feature monitors house battery voltage and motorhome interior temperature, and has the ability to

automatically start the Generator to help maintain full air conditioning function and house battery charge.

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.

SECTION 6 – ELECTRICAL

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.

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, 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.

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.

NOTE: House batteries are AGM (Absorbed Glass Mat). Because of their construction, AGM batteries do not require an addition of water to the cells.

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

BATTERY ACCESS

House/Coach Batteries

NOTE: Your house battery (batteries) are “Absorbed Glass Mat” type, or AGM. They are maintenance-free and do not require checking or adding battery fluid.

The house/coach batteries are located within the basement of the motorhome, which is accessible beneath an access cover inside driver and passenger side exterior doors.

- Extend sliding tray (if equipped) inside the driver and passenger side exterior doors.
- Remove screws from Battery Access Cover.
- Remove Battery Access Cover and set aside.



House/Coach Batteries
(Shown with access cover removed)
-Typical View

- Reverse steps to reinstall Battery Access Cover.

Chassis Batteries

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

SECTION 6 – ELECTRICAL



Chassis Batteries
(Located behind a rear driver
side exterior door)
-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 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.



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.

 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.

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.

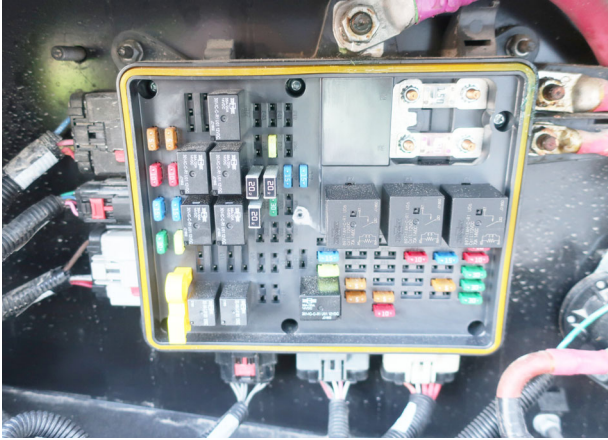
**CIRCUIT BREAKERS – HOUSE
12-VOLT**

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 in the passenger side rear cargo door.

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

SECTION 6 – ELECTRICAL



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.

SECTION 7 – PLUMBING

FRESH WATER SYSTEM

The Fresh Water System provides water to the galley sink, shower, bathroom lavatory, and toilet. 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”.

There are two ways to fill the fresh water tank on your motorhome - City Fill or Gravity Fill.


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.

Method 1 - Filling the Fresh Water Tank Through City Fill Connection

 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 (located in the water service center) routes the water from the city water hose to the fresh water tank for filling.

1. Attach hose from a city water faucet 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 the Tank Fill position.

SECTION 7 – PLUMBING



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



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

3. Turn city water supply ON.
4. Use the level display on the interior monitor panel to oversee filling of the tank, or when the tank is full, water will flow from tank vent tube beneath the 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.

NOTE: The Tank Fill position is only for pressure filling the water tank from the city water hose connection.

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(s). A check valve built into the pump prevents water from entering the pump and filling the storage tank.

- Connect hose to Fresh Water Inlet as described in previous steps.
- 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

- Turn the city water supply OFF.
- Open a faucet on the motorhome (such as exterior wash station) to relieve waterline pressure.
- Disconnect hose from the motorhome and replace cap on the Fresh Water Inlet. *Be sure to replace the protective cap on the hose end to avoid entrance by debris or insects.*

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.

UTILITY LIGHT

A light is located on the sidewall to illuminate the utility hook-up area when needed.

The switch is located in the water service center compartment.



- Typical View

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.

SECTION 7 – PLUMBING

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 below the water center panel)
-Typical installation shown

COLD WATER FILTER

–If Equipped

To obtain filtered cold water for drinking or cooking, simply open the galley sink cold water faucet.

NOTE: Only the galley cold water faucet is filtered.

The cold waterline flows through an activated carbon filter that removes chlorine and odors for taste-free drinking water.



Cold Water Filter Assembly
(Located inside lower galley cabinet)

NOTE: Hot waterline is not filtered.

Replacing the Cold Water Filter Cartridge

You should replace the filter cartridge every season and when water flow from the faucet is too slow for convenience. The cartridge must be replaced at least every 12 months.

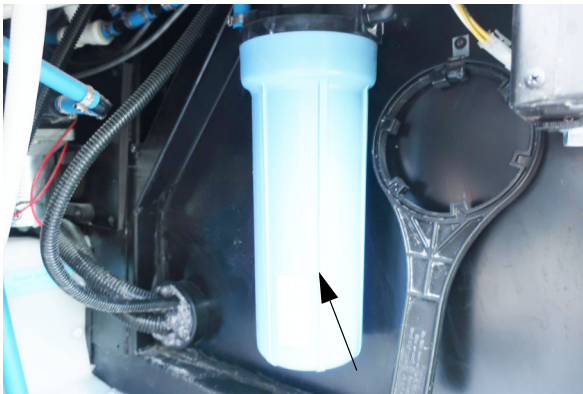
Further Information

See the water filter manufacturer’s operation information in your InfoCase for filter cartridge replacement.

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.



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



Filter Wrench
(Located in water service center)
-Typical View



Use the Filter Wrench to loosen
the filter, then unscrew it
-Typical View

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.

SECTION 7 – PLUMBING

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.

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.
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.

SHOWER HOSE VACUUM BREAKER

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

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

EXTERIOR SHOWER/WASH STATION

–If Equipped

The Exterior 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

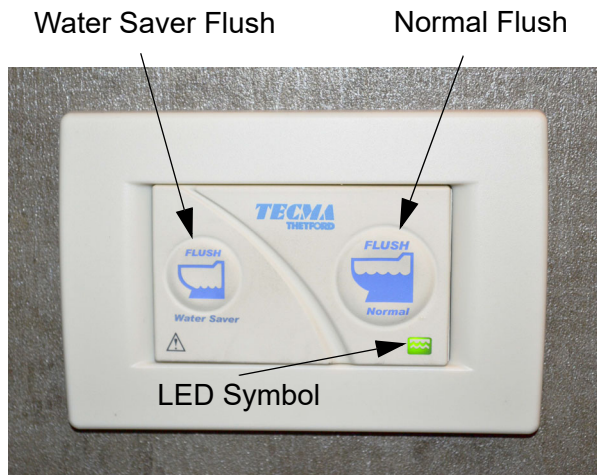
TOILET – ELECTRIC FLUSH

–If Equipped

Your motorhome may be equipped with an electric macerating toilet, which provides powerful, yet whisper quiet operation. It is

SECTION 7 – PLUMBING

equipped with a wall-mounted push button control and operates on minimal water consumption.



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.

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.

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.

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(s) 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

Your motorhome is equipped with a sewage drain hose that is located in the water service center.

1. Remove the dust cap from the sewage drain outlet and connect the sewage drain hose. Be sure it is firmly attached with the 90 degree fitting.

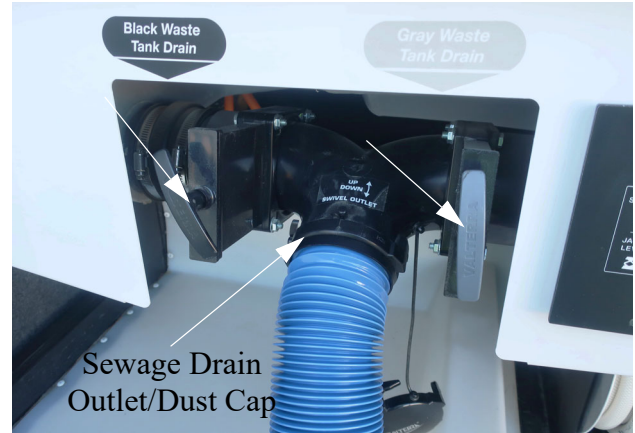
NOTE: The sewage drain outlet swivels downward when necessary to avoid bends in the sewage drain hose, which could trap solids while dumping or to provide more direct drainage while using on-site sewer hook-up.



Sewage Drain Hose- twist on to install
-Typical View

2. Open the Black Waste Tank Drain valve with a quick pull. Move the sewage drain hose gently about to dislodge any waste and to ensure complete drainage. Close the Black Waste Tank Drain valve as soon as the 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 closed to avoid sewage back-up into gray tank. Gray water also rinses any black water solids from the sewage drain hose.



Black and Gray Waste Tank Drain Valves
(Located in water service center)
-Typical View

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

3. Open the Gray Waste Tank Drain valve with a quick pull. Close Gray Waste Tank Drain valve as soon as tank is empty.
4. After both tanks have been drained, flush the black water tank as described in “Flushing Your Black Water Holding Tank” following this procedure. (If hose is not available, run several gallons of water into the sewage tank through the toilet. Then open the Black Waste Tank Drain valve and drain the tank again. Close Black Waste Tank Drain valve when done).
5. Close sewage drain hose valve by pulling handle up until lock snaps into place (if equipped).
6. Rinse end of sewage drain hose thoroughly with water and stow.

NOTE: If the sewage drain hose will not collapse while storing, open the sewage drain hose end valve (if equipped) to release air trapped inside the hose.

7. Add an odor control chemical to the black waste holding tank through the toilet. These chemicals are available at most RV stores.

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

SECTION 7 – PLUMBING

Flushing Your Black Waste Holding Tank

The black waste 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 waste holding tank in the usual manner at an 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 garden 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 flip-down hatch in the bottom of the compartment while the motorhome is parked and connected to an on-site sewage hook-up.

The center outlet section may be swiveled downward for better hose alignment and drainage.



WARNING

Service inlet access must be closed when utility connections are not in use.

When using a sewer hook-up, keep the Black and Gray Waste Tank Drain 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 sewage drain hose, fill the tank about half full with water, and drive a few miles to dislodge the solids. A few starts and stops will aid in the process. Then reconnect the sewage drain hose and drain in the normal manner.

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

Holding Tank Level Indicators

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

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

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.

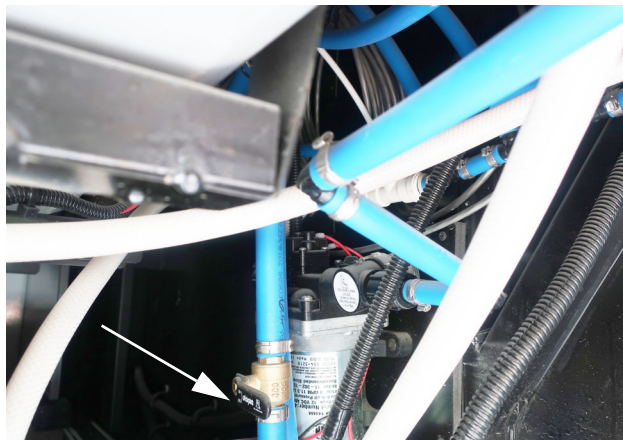
See the “Water System Drain Valve Locations” chart at the end of this section for locations on your model.

Waterline Drain Valves



Waterline Drain Valves
(Located in the water service center)
Remove the filter to drain the water lines
-Typical View

Water Tank Drain Valve



Water Tank Drain Valve
(Located in the water service center
compartment, right rear corner)
-Typical View

WATER HEATER BYPASS VALVE

-If Equipped

Your motorhome may be equipped with a water heater bypass valve for easier winterization of waterlines using RV antifreeze. See Water System Drain Valve Locations chart at the end of this section for valve location on your model.

Turn the handle as shown to either Bypass or Normal flow through the water heater.



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

WINTERIZING PROCEDURES

You can winterize the water and plumbing systems in your motorhome by using one of the following two methods:

- Blow out waterlines using compressed air, **or**
- Fill waterlines with RV water system antifreeze.

NOTICE

Do not blow out Aqua-Hot Hydronic Heating System. Failure to comply may result in system damage.

SECTION 7 – PLUMBING

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 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 the filter canister from the Cold Water Filtration System under the lavatory sink and discard the filter cartridge.

After emptying the canister, remount it onto the filter assembly and continue the Blow-Out Procedure.



5. **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.
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. **Drain Residential Refrigerator.**
 - Shut off water supply to the Ice Maker. The water supply valve is located inside a galley cabinet near the filter.

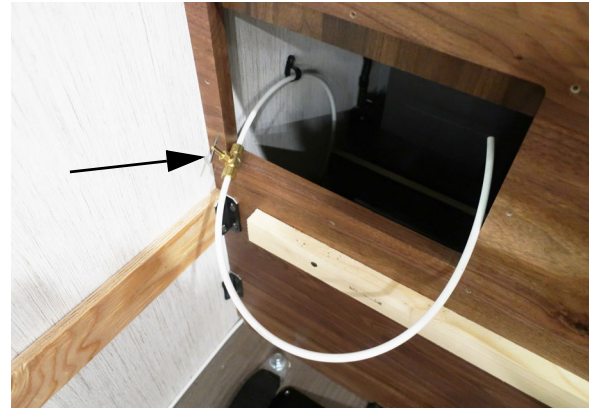


Locate and remove the access panel on the passenger side interior.
-Typical View



Inside the compartment is the drain line.
-Typical View

- Remove Drain Line from the compartment and position the line in a water collection source to avoid spilling inside the motorhome.



The valve is located on the waterline.
Place the end in a water collection source before draining.
-Typical View

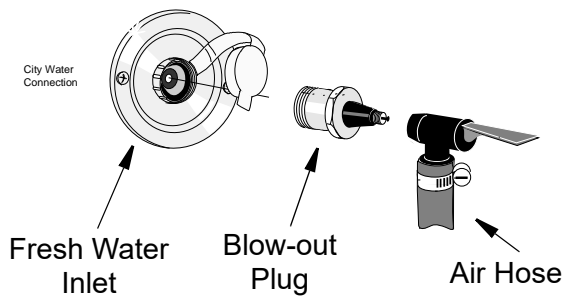
- Turn Ice Maker Winterization Drain valve to the OPEN position.
- After the last batch of ice dispenses, raise the wire shut-off arm to the OFF position.
- Empty ice bin.

Further Information

Refer to the refrigerator manufacturer's user guide provided in your InfoCase for complete winterizing information.

9. **Drain Optional Appliances.** At this time, if your motorhome is equipped with an optional 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.
10. **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.

SECTION 7 – PLUMBING



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.

11. Let air flow for five minutes until water is completely drained out of faucets and drain valves. Then close faucets one at a time.
12. **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.
13. **Turn air pressure off.** Disconnect water purge adapters. Recap the Fresh Water Inlet to avoid contamination by dirt or insects.

After Disconnecting Air Pressure

14. Empty the Cold Water Filtration canister of any water trapped during the blow-out procedure. Remount empty canister on to filter assembly.
15. Empty the Full-Coach Water Filtration canister of any water trapped during the Blow-Out Procedure. Remount empty canister onto filter assembly.
16. Close all waterline and tank drain valves and all faucets to avoid contamination by dirt, insects, or rodents.

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

17. Reinstall the Water Heater drain plug and close the P-T Relief valve.
18. 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.

19. 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

20. 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.
21. Flush the sewage tank using the Black Waste Tank Flush Inlet.
22. 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.

Antifreeze Fill Procedure

(Fill plumbing lines with RV water system antifreeze)

NOTE: Winterize tanks and waterlines 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. This feature is located near the water pump.

WARNING

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

Remove Water Filters

1. Remove the filter canister from the Cold Water Filtration System under the galley sink and discard the filter cartridge. After emptying the canister, remount it onto the filter assembly and continue the Antifreeze Fill Procedure.



2. Remove the filter canister from the Full-Coach Water Filtration system in the water service center and discard the filter cartridge.

After removing filter, remount the empty canister onto the filter assembly and continue the Antifreeze Fill Procedure.

Set Up Winterization Valves

3. Turn Winterization Valve 1 to “Water Heater Bypass” position to avoid filling water heater with antifreeze. *If your motorhome is equipped with a Tankless Water Heater, skip this step and proceed to the next numbered step.*



Winterization Valve 1

(See “Water System Drain Valve Locations” chart at the end of this section for location on your motorhome)
-Typical View

4. Turn Winterization Valve 2 to the “Winterize” position.



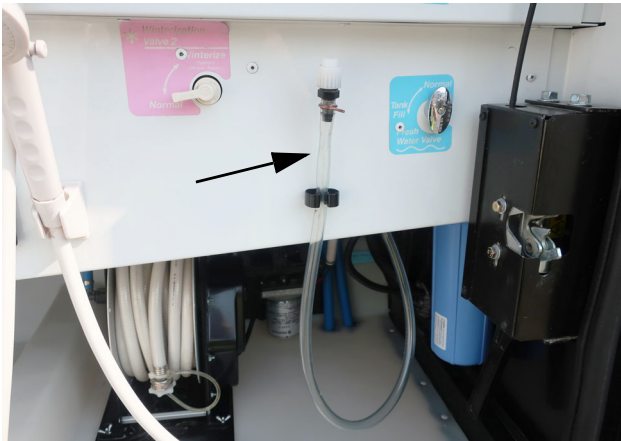
Winterization Valve 2

(See “Water System Drain Valve Locations” chart at the end of this section for location on your motorhome)
-Typical View

5. Remove and save the protective cap from the end of the antifreeze siphon tube (which connects to Winterization Valve 2). Insert the

SECTION 7 – PLUMBING

end of the siphon tube into a pail or other container with 2 to 5 gallons of non-toxic RV antifreeze solution.



RV Antifreeze Siphon Tube
(Located near water pump - in the water center, third compartment on driver side of the motorhome)

- Insert into container of RV water system antifreeze -Typical View

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

6. Turn the Water Pump switch on.
7. 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.
8. 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 small amount of antifreeze that remains in the bowl.

When Done Adding RV Antifreeze

9. Turn Water Pump switch off.

10. Turn the Winterization Valve 2 to “Normal”. This will stop the flow from the antifreeze siphon tube and revert the tank line flow to the water pump.
11. Replace the protective cap onto the end of the antifreeze siphon tube to keep out insects and debris when not in use.

Drain Appliances

12. At this time, if your motorhome is equipped with an optional washer/dryer, the waterlines for these appliances must also be drained. (See “Winterizing Optional Appliances” instructions at the end of this section.) If not equipped with optional appliances, proceed to the next numbered step.

Fill Drainage System P-Traps

13. Pour about one cup of RV antifreeze down each drain for the galley sink, lavatory sink, and shower/tub. This fills the drain trap pipes to prevent holding tank odors from entering the motorhome during storage.

Dump and Clean Holding Tanks

14. Completely drain the sewage and waste water holding tanks at an approved waste disposal site. Drain the sewage tank first so the following waste water can rinse any waste solids from the sewage drain outlet and hose.
15. Flush the sewage tank using the Black Waste Tank Flush Inlet.
16. 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.

WINTERIZING OPTIONAL APPLIANCES

Winterizing Washer/Dryer (Stackable)

–If Equipped

Method 1 – Drain Water

If you have decided to completely drain the motorhome waterlines, follow these steps to winterize your Washer/Dryer:

1. With the Washer/Dryer power OFF, pour 1/2 quart of RV-type antifreeze into the Washer drum.
2. Close door. Advance Cycle Selector to “B”.
3. Press ON/OFF button, then press START. Let the Washer/Dryer run for 1 to 2 minutes.
4. Press ON/OFF button to turn power OFF.
5. Unplug Washer/Dryer from electrical outlet (or disconnect power).
6. Turn Water Supply Faucets OFF. Disconnect inlet hoses from faucets.
7. Drain remaining water from hoses. Finished.

To use Washer/Dryer again after seasonal storage:

1. Reconnect water inlet hoses to corresponding HOT/COLD faucets. Turn faucets ON.

NOTE: Check water inlet hoses and pump periodically (see manufacturer’s user guide for further information).

2. Plug Washer/Dryer into electrical outlet (or reconnect power).
3. With Washer/Dryer power OFF, pour 1/2 TBSP. of powder detergent (or liquid equivalent) into “Compartment 2” inside Dispenser Drawer.
4. Advance Cycle Selector to “Position 4”.
5. Press ON/OFF button, then press START.
6. Allow machine to run through the complete cycle to clean out any remaining antifreeze. Finished.

Method 2 – Fill with RV Antifreeze

If you have decided to fill the motorhome waterlines with RV antifreeze, follow these steps to winterize your Washer/Dryer:

1. With machine power OFF, advance Cycle Selector to “Position 3”.
2. Press ON/OFF button, set water temperature to WARM, then press START. Let machine fill until the drum turns (this could take up to 1 to 2 minutes).
3. Press ON/OFF button to turn power OFF.
4. Advance Cycle Selector to “B”.
5. Press ON/OFF button, then press START.
6. After letting antifreeze drain completely from drum, press the ON/OFF button to turn power OFF. Finished.
7. Turn Water Supply Faucets OFF. Disconnect inlet hoses from faucets.
8. Drain remaining water from hoses. Finished.

To use Washer/Dryer again after seasonal storage:

1. Reconnect water inlet hoses to corresponding HOT/COLD faucets. Turn faucets ON.

NOTE: Check water inlet hoses and pump periodically (see manufacturer’s user guide for further information).

2. Plug Washer/Dryer into electrical outlet (or reconnect power).
3. With Washer/Dryer power OFF, pour 1/2 TBSP. of powder detergent (or liquid equivalent) into “Compartment 2” inside Dispenser Drawer.
4. Advance Cycle Selector to “Position 4”.
5. Press ON/OFF button, then press START.
6. Allow machine to run through the complete cycle to clean out any remaining antifreeze. Finished.

**SECTION 7 –
PLUMBING**

WATER SYSTEM DRAIN VALVE LOCATIONS	
System	Drain Valve Locations
Waterline Drain Valves	<ul style="list-style-type: none">• Two (2) waterline drain points located in the water center area, drivers side 3rd or 4th compartment area. Remove water filter to drain cold water lines and open hot water recirculation line drain valve to drain hot water recirculation lines. See winterization section for additional information. <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>
Water Tank Drain Valve	<ul style="list-style-type: none">• One (1) valve inside the water center compartment right hand rear corner.
Winterization Valve 2 (Antifreeze Siphon)	<ul style="list-style-type: none">• One (1) valve and siphon tube located inside the water center compartment (3rd or 4th compartment on the drivers side.

SECTION 8 – ENTERTAINMENT

HDMI VIDEO SELECTION SYSTEM

The HDMI Video Selection System allows you to watch high definition video from multiple sources on multiple TV's at the same time.

TVs connected to this system are:

- *Output A - Lounge TV*
- *Output B - Bedroom TV*
- *Output C - Exterior Entertainment Center TV*
- *Output D - 2nd Lounge TV/Bathroom (if equipped)*

You can select either:

- *1 = Blu-ray*
- *2 = Satellite Receiver 1*
- *3 = Satellite Receiver 2*
- *4 = Auxiliary (Dash Radio House Mode).*

All TV's and A/V sources operate 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).

NOTE: Green lights that are illuminated on the HDMI Video Selection System indicate that video sources are active.



HDMI Video Selection System
(Located in front passenger overhead cabinet)

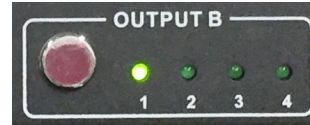
NOTE: There will be a slight delay when changing sources. Winnebago Industries® recommends setting each component to a maximum video output resolution of 1080i for proper operation.



HDMI Video Selector Control
(Located in your InfoCase Box)

- Used to control main HDMI Video Selection System only.

Select Video Source and TV



HDMI Video Selection System

- Power “ON” TV, HDMI Video Selection System, TV, Sound Bar (if desired), and Video source (DVD player, Satellite receiver(s), or Dash radio).
- Press and release button for desired TV viewing (e.g. “Output B” for bedroom TV) until the number is lit for the desired source (e.g. Blu-Ray).
- At the TV, ensure the source (or input) is set to HDMI.

Infrared Emitters

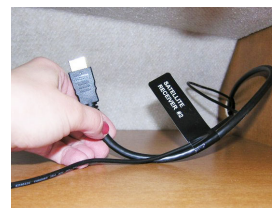
The HDMI Video Selection System in your motorhome is also featured with Infrared Emitters (connected to both Accessory Connection Cables), which are used to extend the remote control from all TV's in the motorhome to either Satellite 1 or Satellite 2. Install Infrared Emitter by removing the protective cover from adhesive and place directly in front of the I.E. Receiver on the component.



• Infrared Emitter

Connecting Satellite Dish Receiver

- Connect Satellite Receiver to the Accessory Connection Cable (Satellite Receiver 1 or 2.) These cables are located in a front overhead cabinet.



Accessory Connection Cables

- * Satellite Receiver 1 and Satellite Receiver 2

SECTION 8 – ENTERTAINMENT

Further Information

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

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.*

SOUND BAR SYSTEM

–If Equipped

The 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.

TV Sound through the Sound Bar

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.

Lounge TV with Sound Bar System

- Turn on TV and ensure TV source is set to HDMI by pressing the source or input button on the TV remote.
- Turn on the sound bar and set the input to optical.
- Volume is controlled by the sound bar remote.

NOTE: TV will operate without using the sound bar if desired.

Bedroom TV with Sound Bar System

- Turn on TV and ensure TV source is set to HDMI by pressing the source or input button on the TV remote.
- Turn on the sound bar and set the input to optical.
- Volume is controlled by the sound bar remote.

NOTE: TV will operate without using the sound bar if desired.

Exterior TV with Sound Bar System

- Turn on TV and ensure TV source is set to HDMI by pressing the source or input button on the TV remote.
- Turn on the sound bar and set the input to optical.
- Volume is controlled by the sound bar remote.

NOTE: TV will operate without using the sound bar if desired.

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.

INFOTAINMENT CENTER (HOUSE MODE)

–If Equipped

The Infotainment Center in your motorhome allows you to view, listen, and control various modes such as SiriusXM® satellite radio or Navigation from the dash radio to all TV's in your motorhome while parked.

Basic Operating Instructions

- Engage the parking brake.
- On the Infotainment System, go to Main Menu and select House Mode. This disables the cab speakers and sends video and audio source from the radio to AUX input (4) on the HDMI matrix.
- Use the dash radio remote control to operate the dash radio from all the TV's in your motorhome.

Further Information

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

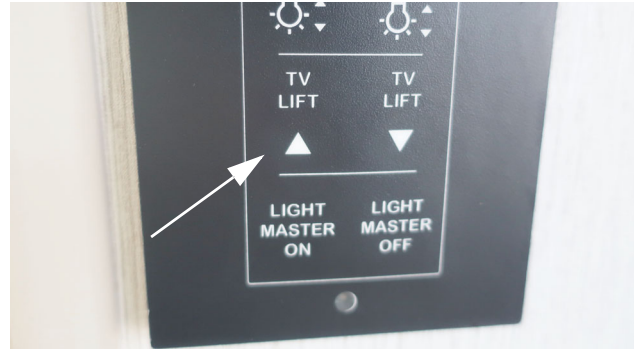
TV (DINING BUFFET) – POWER LIFT

–If Equipped

(Typical View - your motorhome may vary in appearance)

Your motorhome may be equipped with a TV power lift/lower mechanism built into the dining buffet which allows you to raise and lower the TV with a touch of a switch.

The control switch is located on the galley end near the buffet. Some models are equipped with an additional control switch located on the bottom of the sofa/lounge chair overhead.



Buffet TV Power Lift/Lower Control Switch
(Located on galley end near buffet)
-Typical View

Road vibration may damage the TV and/or power lift mechanism in the extended position. If you encounter significant road vibration, lower the TV into stored position to avoid possible property damage.

Power Lift Operation

1. To raise the TV, press the control switch UP and the TV will pop up through the access lid.



Buffet TV popping through the access lid.
-Typical View

2. Continue to raise TV to the height that best suits your viewing needs.

SECTION 8 – ENTERTAINMENT



Buffet TV fully extended.
-Typical View

- To lower the TV back into stored position, press the control switch **DOWN**. The power lift/lower mechanism will stop automatically when the TV is all the way seated into stored position.

NOTE: Ensure that the buffet counter is clear before raising/lowering the TV to protect the TV, lift/lower mechanism, and personal property from possible damage.

TV ANTENNA – DIGITAL (Winegard® Rayzar® Automatic Antenna) –If Equipped

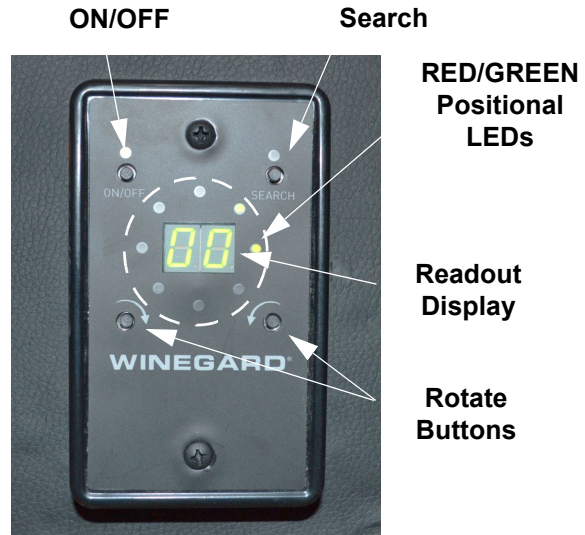
Your motorhome is featured with a digital antenna, which provides crystal clear digital HD reception of over-the-air channels in addition to superior broad reception range.

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



WARNING

Never allow the antenna to touch electrical power lines or any other electrical wires.



Digital Antenna Power Switch
(Located inside entrance door
overhead cabinet)
-Typical View

- ON/OFF** - Switch between antenna mode and park cable mode. When in antenna mode, the LEDs will flash and begin to power on. When in cable mode, the LEDs will be turned off.
- SEARCH** - Press to initiate a new search. The antenna will go through the initialization process and begin searching for TV frequencies. This may take 2-3 minutes. After a search is complete, the antenna will stop at the position with the most watchable TV channels.
- GREEN POSITIONAL LEDs** - Indicate antenna position.
- RED POSITIONAL LEDs** - Indicate main antenna pointing location and other unique channels found during the search.
- ROTATE Buttons** - Fine tune a channel that may be pixelating or weak.
- READOUT DISPLAY** - Shows the number of TV frequencies found at the current position.

Operating the Digital Antenna

- Turn **ON** the Digital Antenna by pressing the **ON/OFF** button.

2. Press the Search button to initiate a new search. Within 2-3 minutes, the antenna will be accurately pointed to maximize reception in your location.
3. On your TV Menu, go to Channel Menu and perform a Channel Scan. This will program the stations in your area into the TV. Do this whenever the antenna is re-pointed.

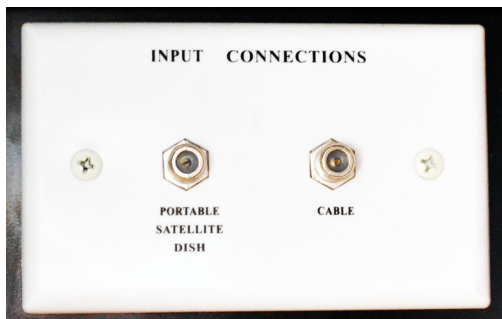
Further Information

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

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 in utility compartment, or shoreline compartment)
-Typical View

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 overhead cabinet above entrance door (remove panel to access).

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

To Access Interior Satellite Dish Connections

- Open the passengers side front compartment door to access.



Satellite Dish Connections
(Located in the passengers side front compartment door.
-Typical View

NOTE: Your motorhome is pre-wired with two satellite dish coaxial cables from the roof-mounted satellite dish. Both cables are located in the right front compartment door (satellite prep area).

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.

SECTION 8 – ENTERTAINMENT

- 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.

EXTERIOR ENTERTAINMENT CENTER (ADJUSTABLE)

–If Equipped

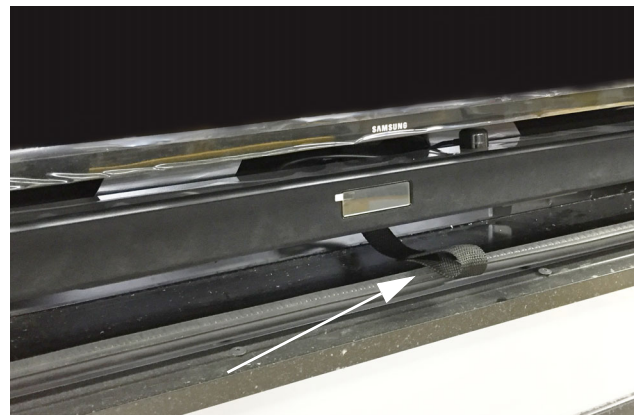
Your motorhome may be equipped with an Exterior Entertainment Center, which contains an HDTV with Sound Bar and Subwoofer for your outdoor listening or viewing pleasure. The Exterior TV and Soundbar is mounted on an adjustable bracket which allows you to angle the TV to best suit your viewing needs. The subwoofer is located inside the right front compartment.

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 below the TV) straight out 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.

TV Sound through the Sound Bar (Exterior TV Only)

–If Equipped

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 TV and/or 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.

TV Sound through Subwoofer (Exterior TV Only)

–If Equipped

- Remove subwoofer from inside the right front compartment.
- Plug the subwoofer into the outlet (located above the Central Vacuum Cleaner) inside the right front compartment.
- Turn on the subwoofer.

Listen to Music stored on a Bluetooth device

–If Equipped with Sound Bar

- 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.

Further Information

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


SECTION 9 – FURNITURE AND SOFTGOODS

SLIDING BUFFET TABLE AND CHAIRS

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


Buffet Chairs

The Buffet Chairs are free-standing to allow greater freedom of movement. Before driving, always return Buffet Chairs to their storage location.

	WARNING
This chair not intended for occupancy when vehicle is in motion and must be returned to the stowed position.	

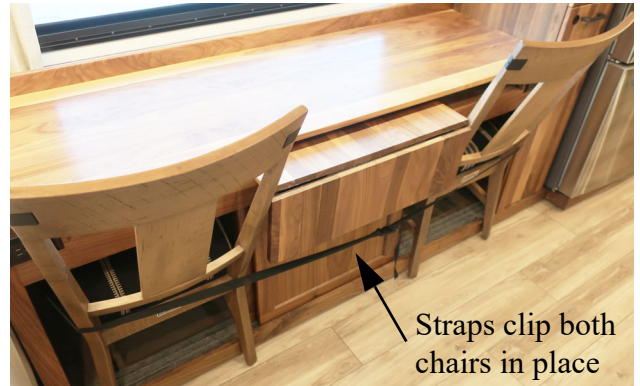
Chottoman chairs are also provided for additional seating when needed. The chottoman chairs are typically stored in an exterior compartment.

Free-standing chairs are not intended for occupancy while the vehicle is in motion and must be stored before driving.

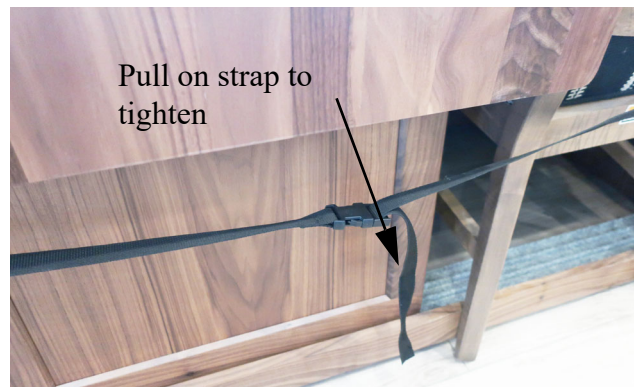
	WARNING
Properly secure all free-standing chairs, furniture, and loose items prior to driving. Moving items can cause driver distraction, possibly resulting in an accident that can result in death or serious injury.	

Storing Buffet Chairs

1. Place the chairs all the way into the desk, and secure them with the attached strap around the back of the chairs.



2. Latch strap and tighten as necessary for security.



3. Latch strap and tighten as necessary for security.

Buffet Table Extension

1. Pull the folding part of the table upward, and with the other hand, extend the locking bar until it is in the outermost position.



SECTION 9 – FURNITURE AND SOFTGOODS

2. Push edge of buffet table in until it locks into place.



Table in the extended position
-Typical View

3. Reverse the steps to return the table to the storage position.



Kitchen Sink Table shown in the fully
extended and locked position.
-Typical View

KITCHEN SINK TABLE

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

Your motorhome may be equipped with a pull out table attached to the sink. To operate, pull the table out until it locks into place. To return to the storage position, press in on both release buttons located under the table to unlock and lower the table.



Kitchen Sink Table

- Pull up on the table until it locks into place.
-Typical View



Release button locations

- Press both release buttons to unlock and lower the table back to the storage position.
-Typical View

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.

REST EASY® MULTI-POSITION LOUNGE

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

NOTICE

Do not recline the lounge completely flat unless the footrest trundle section is extended. Do not occupy the lounge when elevating the seat back from the flat bed position to upright lounge position. If house battery voltage is low, the mechanism may require assistance by lifting the seat back while returning upright from flat bed position.



WARNING

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

To Operate

Your motorhome may be equipped with two or three seating positions.

NOTE: Ensure house batteries contain adequate charge. If the batteries are partially discharged, the lounge may not fully recline or return to the upright position.

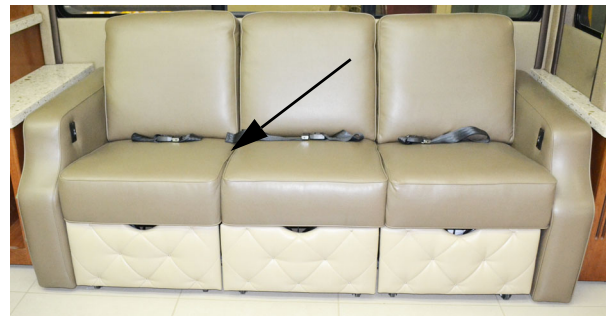


Rest Easy Power Switch

(Located on the inside of the lounge armrest)

- Press the switch down to recline.
- Press the switch up to return upright.

If your motorhome is equipped with three seating positions, the center cushion power switch is located between the cushions in the location shown below.



Rest Easy Power Switch

(Center Cushion)

–If Equipped

- Press the switch toward the inboard side of the lounge to recline.
- Press the switch toward the outboard side of the lounge to return upright.

To Extend Footrest

- Squeeze the release latch (located behind the front panel opening) and pull footrest trundle out until it locks in the fully extended position.

SECTION 9 – FURNITURE AND SOFTGOODS



Footrest Release Latch

- Lift footrest up and away from lounge to raised position.



NOTE: The gap between the footrest and seat should provide ample room to enter and exit the lounge. If you wish, however, you may unlatch the footrest and push it against the lounge seat. The footrest will lock when in the fully extended position. You must squeeze the release latch to retract the footrest.

Tip for “Power Users”

- If you have the footrest unlatched and positioned against the seat cushion, it will move out with the lounge when you press the Rest Easy Power switch in the recline position.
- When you return to the upright position, you can hook your heels over the front edge of the footrest and pull it back with you.
- When you want to get up, simply push the footrest section forward with your feet to provide a gap for you to exit.

Bed Conversion

- Extend footrest and push together with the lounge seat cushion.
- Press Rest Easy Power switch in the recline position until entire lounge lies flat.
- Reverse steps to return to lounge seating.



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. A table can be attached to the seat in either of the attachment points located on the outside arm rests.



Table attachment points
-Typical View



Table attachment point- the peg on the bottom of the table inserts here
-Typical View

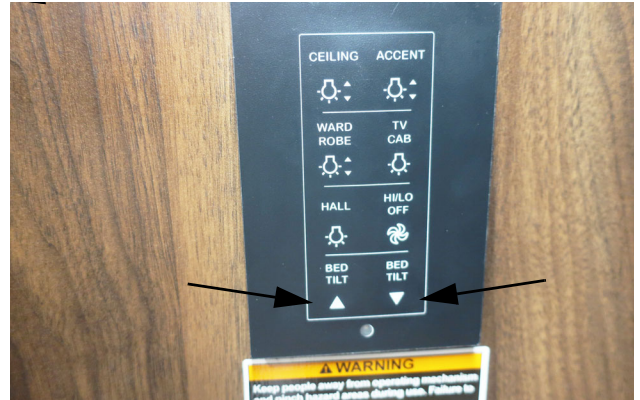


With the table attached, it can be rotated to desired position.
-Typical View

BED – POWER LIFT

Your motorhome may be equipped with a power lift/lower mechanism that raises and lowers the head of your bed with a touch of a switch to best suit your comfort needs.

The Power Lift/Lower Control switch is located on the bed overhead cabinet or on the wall near the bed for your convenience.



Power Lift/Lower Control Switch
(Located on bed overhead cabinet or on a wall near the bed)
-Typical View

- Press the UP arrow to raise the head of the bed.
- Press the DOWN arrow to lower the head of the bed.
- Hold the DOWN to extend the bed away from the wall.



WARNING

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

NOTE: The power lift/lower mechanism is equipped with an interlock feature, which will not allow you to retract the bedroom slideout unless the bed is in the fully

SECTION 9 – FURNITURE AND SOFTGOODS

upright position. The bed will also not recline unless the slideout is fully extended.

NOTICE

Bed must be in the fully upright (vertical) position to fully retract slideroom.

NOTICE

The slideout room must be fully extended to operate the bed.



-Typical View

Further Information

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

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.

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

WOOD FURNITURE AND CABINETRY

–If Equipped

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

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

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

No matter which species you 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 RETRACTION (WITH SLIDING BED)

–If Equipped

Your motorhome may be equipped with a side-to-side sliding bed mechanism which provides walk-around bed accommodation and clearance to access the side cabinets.

This sliding bed mechanism is equipped with an interlock feature, which will not allow you to retract the passenger side slideout unless the bed is positioned toward the driver side.

NOTICE
Bed must be positioned toward the driver side to fully retract slideroom.

Further Information

For further sliding bed operating instructions, refer to *Section 9 - Furniture and Softgoods* in this manual.

SLIDEOUT ROOM RETRACTION (WITH POWER LIFT BED)

–If Equipped

Your motorhome may be equipped with a power lift/lower mechanism that raises and lowers the head of your bed to best suit your comfort needs.

This power lift/lower mechanism is equipped with an interlock feature, which will not allow you to retract the bedroom slideout unless the bed is in the fully upright position.

NOTICE
Bed must be in the fully upright (vertical) position to fully retract slideroom.


Further Information

For further power bed operating instructions, refer to *Section 9 - Furniture and Softgoods* in this manual.

SECTION 10 – SLIDEOUT ROOMS AND LEVELING


SLIDEOUT ROOM OPERATION (HWH)– ELECTRIC

-If Equipped


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.

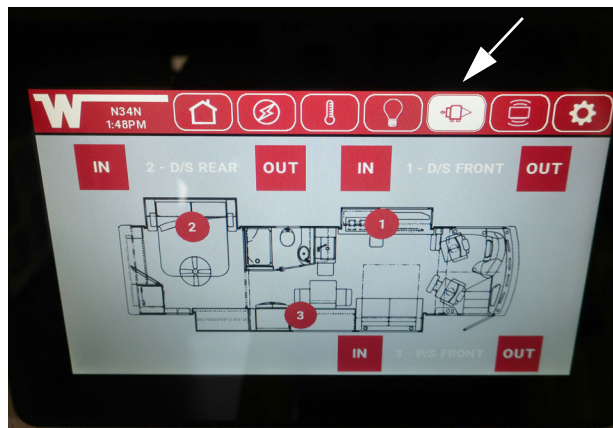

CAUTION

Never drive the vehicle with a slideout room extended!

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




Slideout Switches
(Located above entrance door)
-Typical View



Slideout Switches
(Located on the monitor panel)
-Typical View

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

NOTE: We recommend that you KEEP THE ENGINE RUNNING WHILE EXTENDING OR RETRACTING SLIDEOUT ROOMS so the engine alternator can provide maximum power for proper operation of the slideout mechanisms. 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.
- Release the travel lock or latch (if equipped) inside the motorhome. *See information at beginning of this section (if equipped).*
- 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.

NOTICE

Release slideout room travel latch before attempting to extend slideout room.
Secure travel latch before driving vehicle.

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 Securely store 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.

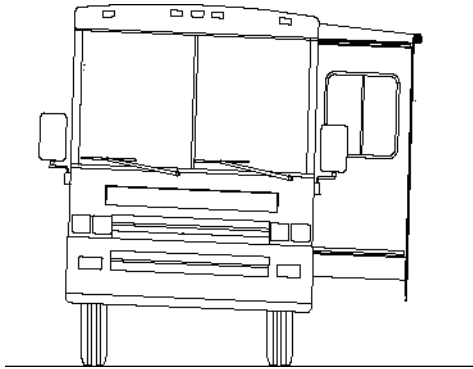
NOTICE

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.

If it has rained recently before you retract the slideout room, we recommend using the hydraulic leveling system (if equipped) to lean the motorhome and drain off any excess water possibly remaining on the roof before retracting. Lean the motorhome slightly to the left or right (depending on slideout location), by raising both right or left side jacks to let excess water flow away from the rooftop weather seal and toward

SECTION 10 – SLIDEOUT ROOMS AND LEVELING

the outside of the slideout roof. Retract the slideout slowly, starting and stopping to allow water to drain off room cover.



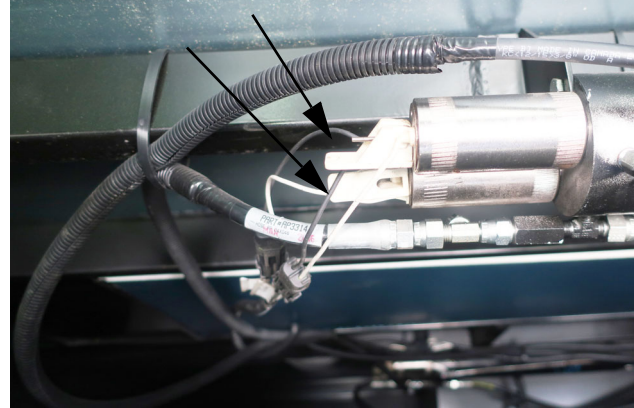
Retract Procedure:

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 Securely store the Ignition Key, then refasten the travel lock or latch inside the motorhome (if equipped).

Emergency Retraction

In the case of a power failure, the HWH slideout can be retracted by locating the slideout Cylinder retract valves, 2 per slideout, and placing them in the “open” position. The pressure will release, and you can then manually push in the room.



Cylinder Retract Valves (shown in closed position)
-Typical View

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 or reduce effectiveness of the slideout room weather seals.

Also, freezing rain and snow can prevent the slideout from closing and may cause damage to the slideout room, weather seals, and mechanisms.

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

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.

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.



SLIDEOUT ROOF WAXING

The slideout roof needs to be waxed every spring and fall (or as needed). If the slideout is chattering on the roof during room cycling, wax should be applied after cleaning. The roof needs to be clean to provide a low friction surface. Check the surface on a regular basis to ensure that there is a thin layer of wax present. Use a good, reputable brand name of wax.

Regular waxing will also help snow and ice from bonding to the surface if the room needs to be retracted.

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.



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.

SECTION 10 – SLIDEOUT ROOMS AND LEVELING



Leveling System
(Located on drivers side trim panel)
-Typical View



Auto Level Remote Switch
(Located in the water center compartment)
-Typical View



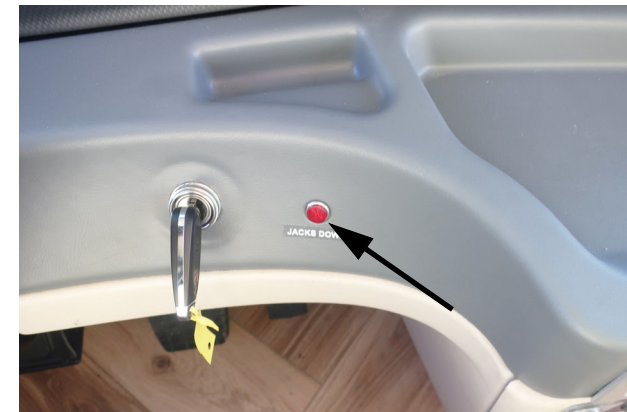
Leveling System
(Can also be located in the monitor panel)
-Typical View

Auto Level Remote Switch

In addition to the Leveling System Control Panel, there is an additional remote switch for your leveling convenience.

This switch allows you to extend or retract your jacks and observe them at the same time. It also allows you to stop them suddenly, if needed, without having to climb in and out of the motorhome.

The Auto Level Remote switch is located in the utility compartment.



“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.
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.

CHECKING HYDRAULIC OIL LEVEL (HWH®)

See the Leveling System Operator’s Manual 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 then twice a year - or more often if an oil leak develops in the system.

The hydraulic pump is located in the front of the motorhome on the passengers side of the generator. Extend the generator slide tray to access the pump and the manual pump controls.

Jacks Positions

To get an accurate indication of oil level:

- Leveling Jacks must be UP

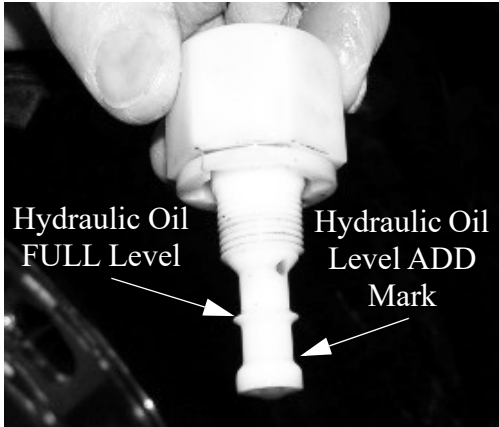
Checking Dipstick

The hydraulic oil level is checked with a dipstick built into the breather/filler cap on top of the oil reservoir, which is part of the hydraulic pump/manifold assembly.

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.

The oil level should be between the two marks on the breather cap dipstick shown in the following photo.

SECTION 10 – SLIDEOUT ROOMS AND LEVELING



Hydraulic Oil Breather Cap/Dipstick
-Typical View

NOTE: Overfilling the hydraulic reservoir can cause leakage of oil through the breather cap.

Hydraulic Fluid Recommendation

HWH[®] specialty hydraulic fluid or Dexron[®] III automatic transmission fluid is recommended for use in this system.

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

SECTION 11 – MAINTENANCE AND STORAGE

SEALANTS – INSPECTION AND GENERAL INFORMATION

Water is a recreational vehicle's worst enemy when it is allowed to enter where it is not intended. Sealants perform a very important function and should be inspected closely and maintained regularly. Winnebago Industries® utilizes many different types of sealants. Refer to the "Sealants Call-Out Sheet" provided in your InfoCase for further information.

Sealants, in general, do not have "set" lifetimes. Varying environmental factors affect the pliability and adhesiveness of sealants. You or your dealer must:

- Inspect all sealants, a minimum of every six months.
- Inspect the moldings, windows, clearance lights, exterior compartment doors, and all their attachments.
- Also, inspect weather seals around entrance door, etc., and if necessary, have a dealer replace them immediately.
- Check for cracks, voids, gaps, breaks, adhesion, and any sign of physical deterioration.

NOTE: Proper sealant inspection includes not just visual observation but running a finger along sealant seams to verify proper adhesion to the surface. Any loosened areas must be replaced.

- Have the sealant replaced if you notice any of the above. Your local Winnebago Industries dealer has the correct and necessary parts and experience to help you maintain your sealants. See "Sealants Call-Out Sheet" provided in your InfoCase.
- Always use the same type sealant that was removed.
- Immediately have dealership check moldings, windows, and exterior attachments for leak source if you notice water inside of unit.

NOTICE

Sealants must be inspected every 6 months and replaced if necessary.

ROOF



WARNING

STAY OFF ROOF. 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).

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

weight to the vehicle. This, in effect, reduces the amount of cargo you can carry and remain within GVWR and GAWR limits.

Corrosive materials, such as those used for ice and snow removal and dust control, can also accumulate on the underside of a vehicle. These materials should be removed by flushing the undercarriage regularly with water, especially horizontal surfaces, cavities, and other areas where mud and other deposits may collect.

EXTERIOR 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.

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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.

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.

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.

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[®], Formula 409[®], etc.)

The following products, compounds, or solvents must be **wiped off immediately** to avoid damage:

- Ammonia
- Brake fluid
- Bathroom basin, tub, and tile cleaners
- Chlorine
- Ethyl alcohol
- Isopropyl (rubbing) alcohol
- Kerosene or gasoline
- Naphthalene
- Pine-type household cleaners

Do not use cleaners containing the following products, compounds, or solvents. These products **will damage** the finish.

- Acetic acid
- Acetone (nail polish remover)
- Aromatic solvents (lacquer thinners)
- Benzene
- Butyl alcohol

SECTION 11 – MAINTENANCE AND STORAGE

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.

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.

Ultraleather™ Leather-Like Upholstery

Ultraleather synthetic leather fabric material has the luxurious look and feel of the finest European calfskin, with the durability and

resistance to soils and stains of vinyl fabrics. It is also tougher than real calfskin and has superior resistance to punctures, snags, and rips.

For most soils and stains, the fabric manufacturer recommends spot treatment with a solution of water and Tide® brand laundry detergent or equivalent. More stubborn stains may be treated with a water-based multipurpose cleaner/degreaser such as Simple Green® or equivalent. Solvent cleaners such as nail polish remover or other aromatic solvents are not recommended.

Care Instructions

- Spot clean with mild soap and water.
- Air dry or, if desired, dry quickly using a hair dryer on warm setting - not hot.
- For stubborn stains, use cleaner-degreaser.

UltraLeather Cleaning Chart		
Type of Stain	Detergent/ Water	Cleaner/ Degreaser
Coffee, Tea	◆	
Red Wine, Liquor	◆	
Cola, Soft Drinks	◆	
Milk	◆	
Ketchup	◆	
Steak/Soy Sauce	◆	
Mayonnaise, Butter	◆	◆
Salad Oil	◆	◆
Chocolate	◆	◆
Cosmetic Makeup	◆	◆
Lipstick	◆	◆
Face Cream	◆	◆
Suntan Oil/Lotion	◆	◆
Shoe Polish	◆	◆
Urine	◆	◆
Machine Oil		◆

Vinyl Fabrics (including ceiling)

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.

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.

**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.

SECTION 11 – MAINTENANCE AND STORAGE

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 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®, 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.

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.

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[®], Comet[®], 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.

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.

SECTION 11 – MAINTENANCE AND STORAGE

CERAMIC TILE – POLISHED

Care and Maintenance

You can easily maintain the beauty of your polished ceramic tile flooring with little effort, by routinely cleaning with an everyday cleaner, such as Aqua Mix® biodegradable concentrated stone and tile cleaner.

When used regularly, this neutral cleaner prevents soap scum and hard water deposits, along with leaving your motorhome smelling fresh and clean.

NOTE: Before use, test a small area according to the application instructions. Read entire label before using.

- Sweep, vacuum, or dust surface.
- Apply solution to surface with mop or sponge (see Aqua Mix label for concentration to water parts recommended).
- Allow solution to dwell 1 to 2 minutes.
- Agitate with a natural-bristle brush or white nylon scrub pad. Do not allow solution to dry on surface.
- Mop up dirty solution.

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.

BATHROOM

Toilet

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

Tub and Shower Walls

The tub and shower walls in the bathroom should be cleaned with mild soap and warm water. Do not use an abrasive cleaner on the tub and shower walls, as scratching and discoloration may occur. Stubborn stains may be removed with an automotive-type cleanser.

After cleaning, you can return the soft glow to your tub and shower walls by applying a light application of an automotive-type wax.

Lavatory Sink

Do not use abrasive cleaners, harsh detergents, or solvents.

General Cleaning. Rinse all food, beverage, or cosmetic residue from the sink as soon as possible. Some residues, if left to sit in the sink, may require the use of detergent or a mild liquid or gel abrasive cleaner.

Hard-to-Remove Food and Beverage

Residue. Use an abrasive cleanser such as Ajax®, Comet®, Bon Ami® or Bar Keeper's Friend® to remove mild stains and for routine cleaning. Use an abrasive pad such as Scotch-Brite® to remove most of the tougher stains.

For the most stubborn stains, fill the sink about one quarter full with a 50/50 solution of bleach and water. After 10 or 15 minutes of soaking, drain solution from the sink as you rinse both sides and bottom.

NOTE: Do not use steel wool or metal scouring pads.

Mineral-Based Stains. Cleaners designed to remove iron or rust should not harm the sink, nor will solvents such as denatured alcohol, mineral spirits, or acetone.

Marks or Discoloration. White automotive rubbing compound may be used to remove stubborn marks or discoloration. Use of these products will not damage the solid surface. Always follow label directions.

DOORS AND WINDOWS

Windows may be periodically cleaned with a good quality glass cleaner or mild soap solution using a soft cloth.

Use care when removing ice or frost from the windows. Always use a plastic ice scraper, never one made of metal. Use care when removing ice from the mirrors to protect the reflective surfaces.

Door locks and hinges should be lubricated periodically with powdered graphite to ensure trouble-free operation and to protect against freeze-up.

VEHICLE STORAGE – PREPARATION

Properly preparing your vehicle for storage will lessen the possibility of damage to your vehicle. Prepare the 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 the electronic thermostat switch OFF.**
2. **Remove all foods and items that may cause odors from cabinets and refrigerator.**
3. **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.
4. **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.

5. **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.*
6. **Have the vehicle chassis completely serviced and lubricated.** Be sure radiator antifreeze protection level is sufficient for the lowest anticipated temperatures.
7. **Wash and wax the motorhome.**
8. **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.
9. **Close all windows and roof vents.** Protect all appliance vent openings from contamination by animals or insects (e.g. bird nest, wasp nests, etc.)
10. **Lubricate all door hinges and locks.**
11. **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*.

VEHICLE STORAGE – REMOVAL

1. Completely air out the motorhome.

SECTION 11 – MAINTENANCE AND STORAGE

2. Check window operation.
3. Check cabinet and door hinges. Lubricate with penetrating oil, if necessary.
4. Close all faucets and drain valves that are open.
5. Add a few gallons of water to the fresh water tank and turn on the water pump to check for leaks, especially at fittings.
6. Open all faucets in turn to release trapped air and check to be sure faucet washers have not hardened during storage.
7. Sanitize the water system as outlined under “Disinfecting the Fresh Water System” in *Section 7 - Plumbing*, then flush the waterlines thoroughly with fresh water.
8. 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.

9. Check the toilet for proper operation.
10. 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.
11. Check around all appliances for obstructions and ensure that all vent openings are clear.
12. Start refrigerator and check for proper cooling.
13. Clean wall and counter surfaces.
14. Replace batteries, if necessary, and check out electrical system to make sure all lights and electrical components operate.
15. Check tires for proper cold inflation pressure. See “Vehicle Certification Label” in *Section 1 - Introduction*
16. 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.

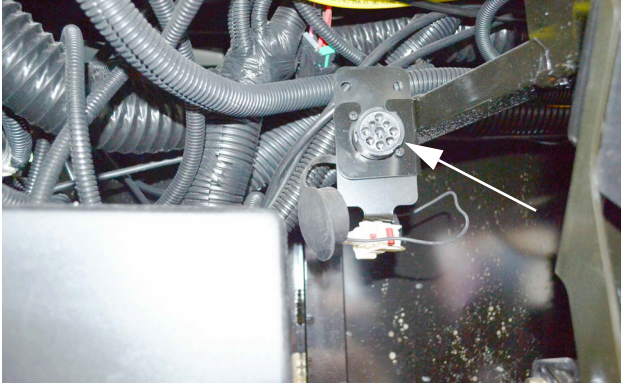
Washer/Dryer (if equipped)

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

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.

SECTION 11 – MAINTENANCE AND STORAGE



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



Diagnostic Plug
(Located in the passenger side rear access
compartment)
-Typical View

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
Electrical System							
Check Battery Condition Meter	◆						
Check battery fluid level and connections			◆				
Check 12V fuses and 120V breakers							◆
Check GFCI receptacles			◆				
Generator							
Visually inspect generator and compartment	◆						
See generator manufacturer's maintenance guide							◆
Plumbing System							
Sanitize plumbing system							◆
Winterize plumbing system							◆
Clean water pump strainer filter						◆	◆
Leveling System							
Check and adjust							◆
Check hydraulic oil level			◆				◆
Check hydraulic lines (routing, leaks, etc.)						◆	
Slideout System							
Inspect slideout room seals (bulb seals), clean and lubricate as necessary				◆			
Wax the slideout roof					◆		◆
Exterior							
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
Safety Equipment							
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 *	◆		◆				
Appliances							
Water Heater							
See water heater manufacturer's maintenance guide							◆
Inspect and clean exterior vent	◆						◆
Refrigerator							
See refrigerator manufacturer's maintenance guide							◆
Inspect and clean exterior vent/drip tray drain tube	◆						◆
Furnace							
See furnace manufacturer's maintenance guide							◆
Inspect and clean exterior vent	◆						◆
Air Conditioner							
See A/C manufacturer's maintenance guide							◆
Inspect for exterior damage				◆			◆
Check/replace filter			◆				
Range Top							
See range manufacturer's maintenance guide							◆
Inspect and clean/replace range hood grease filter							◆

**SECTION 11 –
MAINTENANCE AND STORAGE**

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
Sealants							
Inspect (see "Sealants - Inspection and General Information" at the beginning of this section for proper inspection technique)					◆		◆
Replace (see "Sealant Call-out Sheet" in the supplement manual provided in your InfoCase)							◆
Frame & Chassis							
Follow chassis manufacturer's maintenance guide (refer to chassis manual)							◆
Inspect hitch receiver (if towing)	◆						
Tires							
Check and adjust air pressure	◆						◆
Check tread wear	◆						◆
Check front end alignment and adjust if needed							◆
Miscellaneous							
Lubricate locks, hinges, and latches						◆	◆
Air Intake Screen- Inspect and clean as required			◆				
Entrance Step Mechanism- Clean, inspect wire connections for wear			◆				
Dishwasher Water Lines- Drain line and inspect						◆	
Clothes Washer- Drain line and inspect						◆	
Clothes Dryer vent- Clean duct and exhaust outlet			◆				

SECTION 12 – MISCELLANEOUS

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.

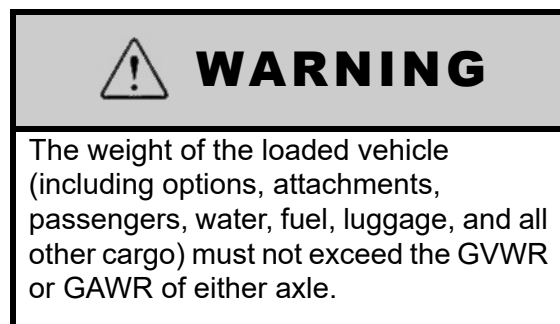
When loading the vehicle, distribute the cargo load equally so that you do not exceed either the Front or Rear Gross Axle Weight Rating (GAWR) or the Gross Vehicle Weight Rating (GVWR). The Gross Axle Weight Rating (GAWR) means the weight value specified by the chassis manufacturer as the load carrying 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.



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, and a partial tank of fresh water, but empty holding tanks. Remember, tongue weight must be included in the GVWR.

Finding a Scale

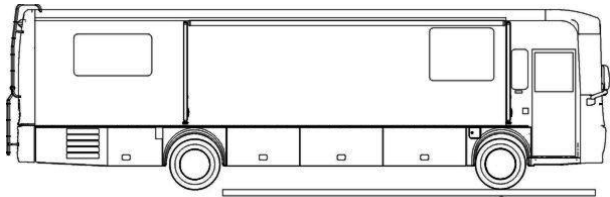
In urban areas, the most common places to find a public access scale are commercial truck stops. In rural areas, most grain storage elevators have scales available. Most scales charge a nominal fee for weighing a vehicle.

Weighing

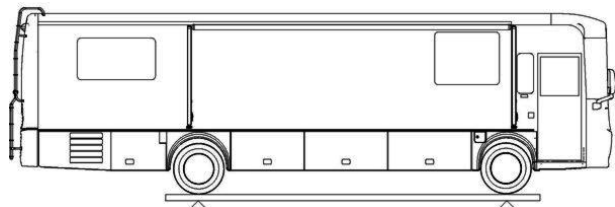
There is typically a scale operator to direct you but the basic routine is to take three separate weights - front axle, whole vehicle, and rear axle.

SECTION 12 – MISCELLANEOUS

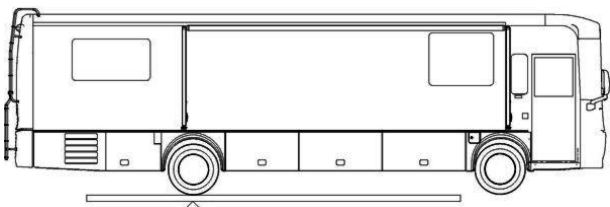
You will first drive only your front wheels onto the scale pad, then drive ahead so that the whole vehicle is on the scale, then finally pull off until just the rear wheels are on the pad.



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.

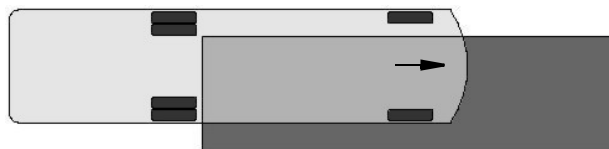
To determine the weight distribution on each tire or dual set, you will need to find a scale capable weighing side-to-side, or all four “corners” of the vehicle, separately.

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.

CAR OR TRAILER TOWING

Hitch Capacity*

10,000 lbs. max.

Tongue Weight*

1,000 lbs. max.

The factory installed towing hitch on this motorhome is capable of pulling 15,000 lbs. (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.

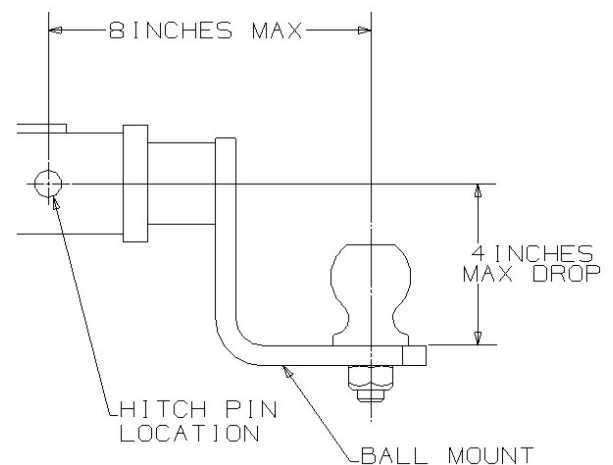
When towing a trailer or vehicle, do not exceed either the GVWR, the rear axle GAWR, or the chassis GCWR (the combined loaded weight of the motorhome and the towed vehicle). See preceding items “Loading the Vehicle” and “Weighing Your Loaded Vehicle” for explanation of weight ratings.

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

SECTION 12 – MISCELLANEOUS

force applied to the motorhome brakes, the more force will be applied to the rear vehicle's braking system.

We do not recommend the usage of a “surge-style” braking device. The usage of a surge brake (especially when coupled with a hitch ball located outside our recommended limits) places excessive stress on the hitch. This abuse of the ball mount and the hitch may cause premature hitch assembly failure.

Finally, do not forget to consider the actual tongue weight. This should not exceed the stated hitch vertical load for your vehicle. This weight is typically defined as the tongue weight of a towed vehicle hitch, boat trailer tongue weight, or a receiver-mounted carrier rack.

Check state regulations on trailer weight and trailer brake requirements to be sure you select the right equipment before towing.

Before descending a steep or long grade when towing a trailer, reduce speed and shift into a lower gear to control vehicle speed. Avoid prolonged or frequent application of brakes which could cause overheating and brake failure.



WARNING

For safe towing and vehicle handling, maintain proper trailer weight distribution. The total weight of the 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

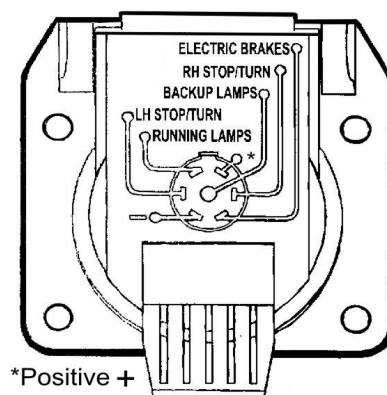
Exceeding any of the recommended gross vehicle weight ratings may result in vehicle damage. Do not install a frame equalizing-type hitch on your vehicle.

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, 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.

FIREPLACE

–If Equipped

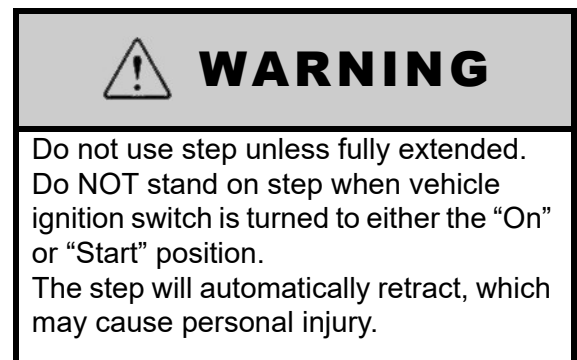
The fireplace can be operated by either the remote control or the control panel.

Further Information

Refer to the Fireplace user guide provided in your InfoCase for complete operating and maintenance instructions, as well as safety precautions.

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.

-Typical View

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.

TOOL AND LADDER STORAGE

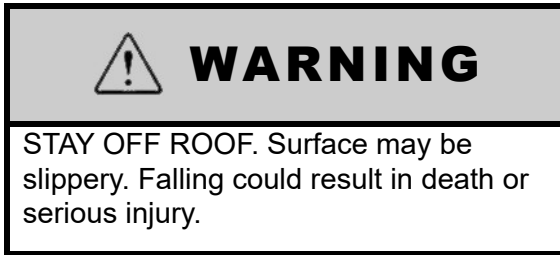
-If Equipped

The roof ladder extension and 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.

ROOF LADDER

–If Equipped



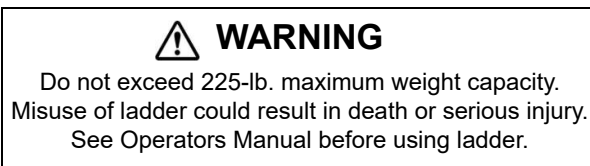
The ladder on your vehicle is provided for limited access to the roof.

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

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

Before Using the Ladder

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



- **Maximum Capacity: 225 lbs.**
- **Do not overload.** Ladder is intended for one person.
- **Make sure you are physically capable** to safely use the ladder. Strength, flexibility, and stability are required.

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

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

SECTION 12 – MISCELLANEOUS

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 Power Awnings may feature built in LED Lights (if equipped).

The Awning Control switches and the LED Light switch (if equipped) are located on the system monitor panel.



Awning Control Switches
(Located in the slideout menu on the systems monitor panel)
-Typical View



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. On the slideout menu select awning controls.
2. The IN button and OUT buttons control the awning extension and retraction.
3. The awning position slider button sets the desired awning position.

4. The Patio IN and OUT control the patio awning.

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.

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.

Further Information

Refer to the manufacturer's user guide provided in your InfoCase for complete Bluetooth Controller Operating Instructions.

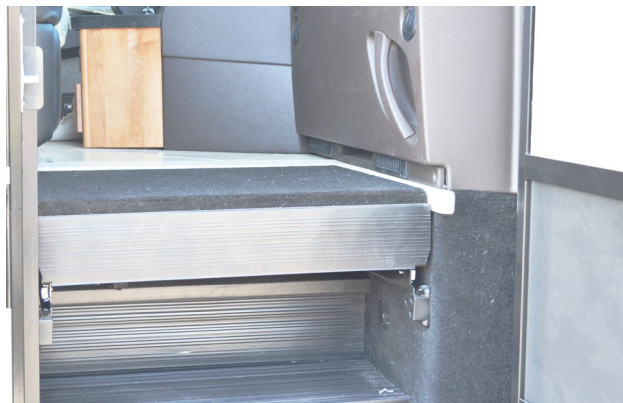
STEPWELL COVER

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



Stepwell Cover shown in extended position
-Typical View



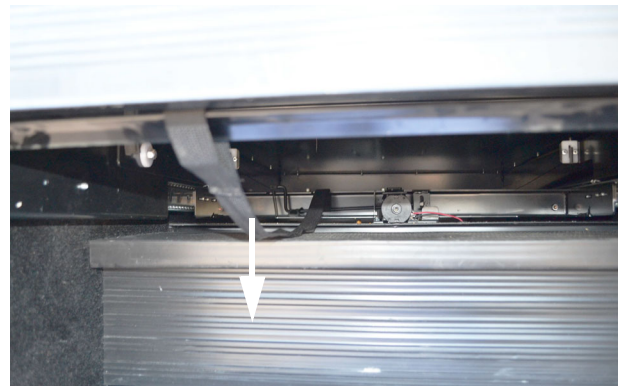
CAUTION

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.



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.

SECTION 12 – MISCELLANEOUS



-Typical View

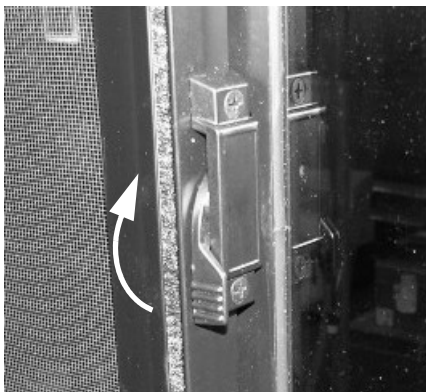
- To close, crank the window in snugly (by turning the window handle “clockwise”), then back off 1/4 turn to help avoid glass warping, which can result in wind noise.
- Push the lever back in on the window handle.

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.

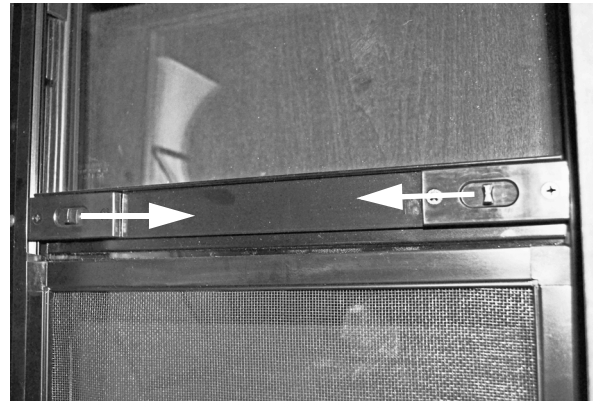


-Typical View

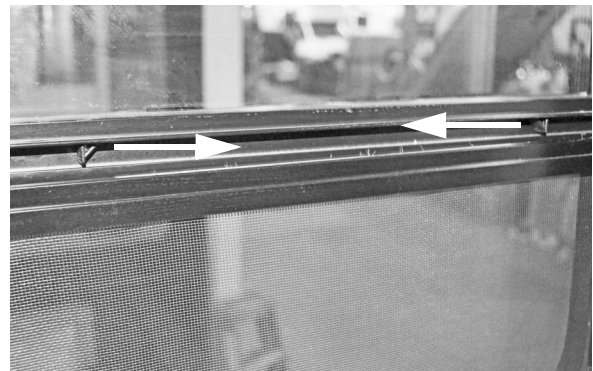
Vertical Slider Windows

-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



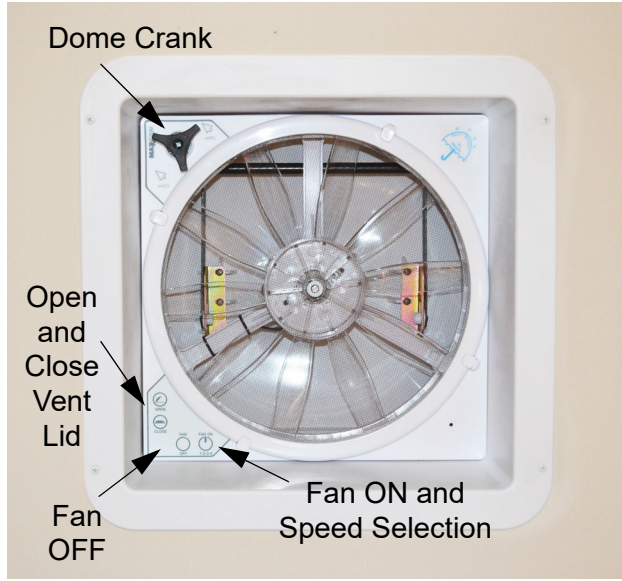
-Typical View

POWER ROOF VENTILATOR

-If Equipped

The 4-speed turbine 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

- **DOME CRANK** - manually opens and closes vent lid.
- **OPEN** - opens the vent lid.
- **CLOSE** - closes the vent lid.
- **FAN OFF** - turns the fan motor off at any selected speed.
- **FAN ON** - turns the fan motor on to the last selected speed.

To Operate Ceiling Ventilator

- Press the UP/ON switch to turn on and open the vent lid. Press UP/ON switch again to cycle through fan speeds.
- Press the DWN/OFF switch to turn off and close the vent lid.
- The fan speed is controlled through the keypad on the fan or the wall UP/ON switch. Press the FAN ON switch 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.

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.

- If you want the vent dome raised without the fan running, press the vent OPEN switch on the fan and turn the fan OFF.

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.

AIR HOSE CONNECTOR

-If Equipped

For convenience, your motorhome may be equipped with a Quick-Connect Air Coupler, which you can connect an air hose for inflating tires or sports and camping equipment, if needed.

NOTE: Air hose and inflation or blowing attachments are not supplied and must be obtained separately.

The Quick-Connect Air Coupler is located behind the hood panel at the front end of the vehicle. Instructions for connection and disconnection are shown on the label at the coupler.



WARNING

Compressed air can be hazardous. Proper eye protection must be worn. Close valve before connecting or disconnecting hose. Direct air discharge away from self and others.

SECTION 12 – MISCELLANEOUS



Quick-Connect Air Coupler
(Located behind front hood panel)
-Typical installation shown

The air is supplied by the chassis air brake/suspension system air accumulator tank.

When the air pressure is less than what you need to inflate an item, you must start the motorhome engine to run the system air compressor to refill the tank.

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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