



2023 OWNER'S MANUAL

TOURING EDITION

This Manual Belongs to:

VIN _____

DEALER _____

ADDRESS _____

DEALER PHONE _____

DEALER CONTACT _____

Dear Ember Owner,

Congratulations on your new Ember, and welcome to the Ember Recreational Vehicles family! On behalf of everyone at Ember, we're glad you're here. At Ember, we're focused on creating a truly unique and exceptional ownership experience. We hope that you'll see this in not only the quality we build into our units, but through the interactions you'll have with our company and our dealer partners if you haven't already!

Your Ember has been designed from the ground up to provide you with a reliable and quality way to enjoy family fun and recreation.

Not only does it comply with all the Recreational Vehicle Industry Association's regulations, standards, and safety requirements, but it meets our own high standards of quality and testing.

We ask that you please read and understand the contents of this owner's manual as well as the other manuals for the various components from other manufacturers that came with your RV. Your personal safety and that of those traveling with you depends upon you becoming familiar with and learning how to properly operate the various systems, appliances, and components that your RV came equipped with. Take extra care in reading all cautions, warnings, and notices, and familiarize yourself and your family with the safety features built into your RV and what actions to take to assure a safe camping trip.

We proudly back our units with our 1-2-3 Warranty: 1 time transfer in the first year of ownership, a 2-year limited base warranty, and a 3-year limited structural warranty.

Please read through the details of our warranty carefully so you are familiar with the extent of the coverage and duration, along with the various exclusions, restrictions, and limitations that may apply. Ongoing maintenance and upkeep are important to upholding our warranties, so we ask that you please understand what those are. Some components used in the construction of your Ember from other suppliers come with additional warranties that extend beyond our warranty. Please be sure to understand these warranties as well and submit any necessary registration forms included in your Owners Packet.

Your dealership should be able to answer any questions or concerns you may have after reading through this Owner's Manual regarding your new Ember. If your dealer is unable to do so, please feel free to contact our Ownership Experience department.

We hope that your Ember brings you many years of adventures and fun with memories to last a lifetime! We are thankful you chose to be a part of the Ember family and wish you safe travels!

Best,

A handwritten signature in black ink, reading "Ashley Bontrager". The signature is fluid and cursive, with the first name "Ashley" being more prominent than the last name "Bontrager".

ASHLEY BONTRAGER

Founder / CEO

Ember Recreational Vehicles

About this Manual

This Owner's Manual for your Ember Recreational Vehicle (RV) is intended to serve as a guide for safety, care, and normal operation of your unit. Information contained in this document is subject to change without notice and includes relative information available at time of the publication of this version. The photographs, drawings, components, and systems described may not represent what is in the RV you purchased due to available options, ongoing upgrades, and improvements. This document also contains information for both the Overland Series and the Overland Micro Series, and not all information applies to both series. Your Ember 1-2-3 Limited Warranty is included at the end of this Owner's Manual. Nothing in this Owner's Manual will or is intended to in any way modify, supplement, or change the terms and conditions of the 1-time transfer in the first year of ownership, the 2-year limited base warranty and the 3-year limited structural warranty that comes with your Ember RV. This Owner's Manual does not alter or supplement any component manufacturer warranty.

Your Ember came with an Owner's Packet that contains various component manufacturers' manuals and warranty information. Please be sure to look through all these documents and register for the available warranties beyond the 1-2-3 warranty offered by Ember Recreational Vehicles.

Please use the procedures outlined in this guide for typical operating conditions. The obligation for safe operation and use of your RV lies on you, and we have tried to include information to help, but not serve as a tutorial for how to camp or where to camp in your Ember RV. For questions, concerns, or assistance, please contact your dealer or Ember directly.

MAILING ADDRESS:

Ember Recreational Vehicles
PO Box 970
Bristol, IN 46507

Phone: 844-732-4204
Email: warranty@emberrv.com
Website: www.emberrv.com

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Overview of Owner's Manual

After you have thoroughly reviewed the manual, you will have a good understanding of the do's and don'ts of owning and operating an Ember Recreational Vehicle. If you aren't sure of a certain feature, you can easily locate the section that addresses your concern and look up the information you need. As you read through the manual, you will encounter the following items:

SAFETY TERMS



DANGER indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury.



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



CAUTION indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury.



NOTICE is used to address practices not related to personal injury. This applies to hazardous situations involving property damage only.

KEY SAFETY ITEMS

BUNK LOADS

The maximum weight in single bunks is 300lbs and 600lbs for double bunks.



EXCEEDING THE LOAD LIMITS FOR THE BUNKS MAY RESULT IN FAILURE CAUSING SERIOUS INJURY.

EGRESS WINDOWS

Egress or "Emergency Exit" windows are labeled from the factory with the word EXIT. All Egress windows can be distinguished by red operational handles or levers. Dependent upon the window type, an egress window may be a large section or an entire window. Review the locations and operational instructions posted upon the window with all people staying in the RV.

EXTINGUISHER

Each Ember Recreational Vehicle includes a fire extinguisher which is located near the main entry door. The fire extinguishers are rated for Class B (gasoline, grease, and flammable liquids) and Class C (electrical) fires. Check the extinguisher weekly. If the fill gauge is in the red, replace the unit immediately. Also check tamper seals and replace if missing or damaged. Please refer to the manufacturer's instructions for additional details on care and operation.



ENSURE EVERYONE IN YOUR RV IS FAMILIAR WITH THE OPERATION AND LOCATION OF ALL FIRE EXTINGUISHERS.

SMOKE DETECTOR

For your safety a smoke detector is installed in every RV. Some may have multiple devices. Most detectors are powered by a 9-volt battery. If the detector begins to beep regularly, replace the battery. Check the manufacturer requirements for acceptable replacements. At least once a week, test the alarm and clean the unit with a vacuum and a dry rag. Never use water or solvents because this may cause damage. Please refer to the manufacturer's instructions for additional details on care and operation.

PROPANE GAS / CARBON MONOXIDE DETECTOR

One of the key safety features of your Ember is the propane gas and carbon monoxide detector located near the floor in the living area. Please read the owner's manual for operations and maintenance.

If the detector senses the presence of LP gas, the light will turn from green to red, accompanied by constant beeps.



FIGURE 1:
RV SAFE USER'S
MANUAL



IN THE EVENT OF AN ALARM:

1. IMMEDIATELY EVACUATE ALL OCCUPANTS FROM THE RECREATIONAL VEHICLE.
2. SHUT OFF THE GAS SUPPLY AT THE TANK.
3. EXTINGUISH ANY OPEN FLAMES, PILOT LIGHTS AND ALL SMOKING MATERIAL.
4. TURN OFF YOUR GENERATOR.
5. DO NOT TOUCH ANY ELECTRICAL SWITCHES IN OR NEAR THE RV.
6. OPEN DOORS AND WINDOWS TO VENTILATE.
7. DO NOT USE THE RANGE HOOD OR OTHER POWER VENTS.
8. THE ALARM WILL CONTINUE TO SOUND IF LP GAS IS DETECTED OR UNTIL TURNED OFF.
9. CONTACT A QUALIFIED SERVICE TECHNICIAN FOR REPAIRS.
10. IF YOU CANNOT REACH A GAS SUPPLIER OR QUALIFIED SERVICE TECHNICIAN, CONTACT THE LOCAL FIRE DEPARTMENT.
11. HAVE THE LEAKAGE SOURCE CORRECTED BEFORE USING AGAIN.

FAILURE TO COMPLY COULD RESULT IN EXPLOSION RESULTING IN DEATH OR SERIOUS INJURY.

Conditions that could adversely affect your alarm:

- Exposure to water, splashes, spray, and condensation
- Excessive dust or grease
- Cleaning supplies, chemical sprays, and perfume products
- Do not paint the alarm. Paint can block air flow to the sensor
- Silicone adhesives including hair sprays
- Corrosive liquids such as acids
- Alkaline base metals, like salt spray
- High concentrations of Hydrogen
- Closed interior doors or other obstructions blocking gases from reaching the alarm

MAINTAINING YOUR ALARM

Verify proper alarm function by pressing the Silence/Test button after storage, before every use, and once per week during extended use. Vacuum the alarm with a soft brush attachment to remove dust monthly.

Additional information on this critical safety component is available in the "Propane System" section of this manual.



PROPANE POWERED APPLIANCES PRODUCE CARBON MONOXIDE. CARBON MONOXIDE CAN BE FATAL!

SAFETY REGULATIONS FOR LP

Your Ember RV uses pressurized propane gas and, as such, requires that you as the owner be made aware of the risks involved. The following warnings are posted throughout your recreational vehicle to provide information on LP gas safety. They have been installed not only because of the requirement to do so, but also as a reminder to occupants of the recreational vehicle to exercise proper caution when using or being around LP gas appliances and equipment. We list several safety procedures here for you to study. Be sure that you and your family understand and follow them.



LP GAS CONTAINERS SHALL NOT BE PLACED OR STORED INSIDE THE LIVING AREA OF A RECREATIONAL VEHICLE. LP GAS CONTAINERS ARE EQUIPPED WITH SAFETY DEVICES WHICH RELIEVE EXCESSIVE PRESSURE BY DISCHARGING GAS INTO THE ATMOSPHERE.



IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEATING.

Cooking appliances need fresh air for safe operation. Before operation:

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

A warning label is 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) will avoid dangers of asphyxiation.



IT IS ESPECIALLY IMPORTANT THAT COOKING APPLIANCES NOT BE USED FOR COMFORT HEATING AS THE DANGER OF ASPHYXIATION AND/OR CARBON MONOXIDE POISONING IS GREATER WHEN THE APPLIANCE IS USED FOR PROLONGED PERIODS OF TIME.



DO NOT STORE LP GAS CONTAINERS, GASOLINE, OR OTHER FLAMMABLE LIQUIDS INSIDE THE VEHICLE, AS A FIRE OR EXPLOSION MAY RESULT.



DO NOT FILL LP GAS CONTAINERS TO MORE THAN 80% CAPACITY.

If you smell gas:

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

FIRE SAFETY

Fire safety is an important part of owning a recreational vehicle. The following basic rules of fire prevention can help eliminate the possibility of a fire.

1. Never store flammable liquids in the recreational vehicle.
2. Never leave cooking food unattended.
3. Never smoke in bed and always use an ashtray.
4. Never allow children to play with LP gas or electrical equipment.
5. Never use an open flame as a flashlight.
6. Have faulty or damaged wiring and electrical components repaired immediately.
7. Never overload electrical circuits.
8. Locate any LP leaks and have them repaired immediately.
9. Keep cooking surfaces clean and free from debris.
10. Don't allow rubbish to accumulate.
11. Never clean with a flammable substance.
12. Spray fabrics annually with a flame retardant.
13. Be sure everyone in your RV is familiar with the location of the exits including the emergency exit.

WARNING

ENSURE EVERYONE IN YOUR RV IS FAMILIAR WITH THE OPERATION AND LOCATION OF ALL FIRE EXTINGUISHERS.

In the event of a fire, get everyone outside, then determine if you should attempt to extinguish the fire. If it is a large fire or a chemical fire, DO NOT HESITATE! Leave the vehicle immediately and call the fire department.

If you decide it is safe to fight a fire with an extinguisher:

1. Remove the tamper tape which covers the discharge push button.
(Do not shake).
2. Hold it upright and stand six to ten feet from the fire, with a clear path to an exit.
3. Press the button down completely, aiming at the base of the fire, and spray with a quick side to side sweeping motion.



Use the 'PASS' method. Familiarize yourself and all RV occupants with this procedure:

1. Pull the pin. (Some extinguishers may have a cartridge that you need to push).
2. Aim the nozzle at the base of the fire.
3. Squeeze the handle to release the extinguishing agent.
4. Spray the base of the fire. (If you aim at the flames, you won't extinguish the fire).



WARNING

USE ONLY THE APPROVED FIRE EXTINGUISHER TO PUT OUT A FIRE. DO NOT ATTEMPT TO USE WATER.

WATER MAY SPREAD CERTAIN TYPES OF FIRE AS WELL AS INCREASE THE LIKELIHOOD OF ELECTROCUTION.

WARNING

AVOID INHALING THE DRY CHEMICALS FROM THE FIRE EXTINGUISHER. ALTHOUGH NON-TOXIC, THEY COULD

CAUSE TEMPORARY IRRITATION. WHEN THE FIRE IS OUT, CLEAN THE AREA AS SOON AS POSSIBLE. THE DRY CHEMICALS MAY CAUSE SURFACE DAMAGE IF LEFT TOO LONG.

WARNING

LP GAS REGULATORS MUST ALWAYS BE INSTALLED WITH THE DIAPHRAGM VENT FACING DOWNWARD. REGULATORS THAT ARE NOT IN COMPARTMENTS HAVE BEEN EQUIPPED WITH A PROTECTIVE COVER. BE SURE THAT THE REGULATOR VENT FACES DOWNWARD AND THE COVER IS KEPT IN PLACE TO MINIMIZE VENT BLOCKAGE WHICH COULD RESULT IN EXCESSIVE GAS PRESSURE CAUSING FIRE OR EXPLOSION.

DANGER

PORTABLE FUEL BURNING EQUIPMENT, INCLUDING WOOD OR CHARCOAL BURNING GRILLS AND STOVES, SHALL NOT BE USED INSIDE THE RV. DOING SO MAY CAUSE A FIRE, EXPLOSION, CARBON MONOXIDE POISONING, OR ASPHYXIATION.

Your Ember Recreational Vehicle

TECHNICAL DATA AND GENERAL SPECIFICATIONS

This information is available via a QR Code located at the entry to your coach. You can also visit www.emberrv.com for general weights and measures for your specific floorplan.



FIGURE 2:
EMBER WEBSITE

Pre-Trip Preparation

Before leaving on your first trip with your new Ember Recreational Vehicle, read the information in this manual very carefully. After reading through the manual, run through the following checklist at least once.

PRE-TRIP CHECKLIST

☐ **LOADING**

Properly load and secure your trailer by carefully and evenly distributing the weight, properly following add-on equipment (Thule, Yakima, etc.) guidelines, and not exceeding the overall weight. (See Towing Guidelines)

☐ **WHEEL LUG NUTS**

Check the torque on your wheels before your first trip. Recheck them at 25- and 50-mile intervals to be sure they remain secure.

☐ **TIRE INFLATION**

Tires leave the dealer at the recommended pressure as indicated on the tire sidewall. To help ensure that you don't run into premature or uneven tire wear, always check the tire pressure before heading out on the road.

☐ **VERSACOUPLER™**

Check that the VersaCoupler™ is securely latched to the tow vehicle's ball hitch. Inspect the bolts to ensure they are tight and no play exists in the assembly.

☐ **SAFETY CHAINS**

Check that safety chains are attached to your tow vehicle.

☐ **ELECTRICAL**

Attach the 7-way connector to the tow vehicle's mating electrical outlet. Check to see that all camping trailer lights are functioning properly.

EXTERIOR

- ☐ Close the valves on the LP bottles.
- ☐ Empty gray/black holding tanks.
- ☐ Inspect all exterior baggage doors and ensure they are secured for travel.
- ☐ Inspect the Gear Box and ensure the LP canisters and batteries are secure. Ensure the lid is fastened.
- ☐ Inspect tires and check the pressures.
- ☐ Check the torque on the wheel lug nuts.
- ☐ Inspect the awning to ensure it is properly retracted and secured.
- ☐ Turn the battery disconnect on.
- ☐ Remove all snow from the roof.
- ☐ Disengage the wheel brake.
- ☐ Disconnect all park connections and securely store.

INTERIOR

- ☐ Close all vents and windows.
- ☐ Retract all slide rooms.
- ☐ Inspect the interior of the RV to ensure all doors, including the refrigerator, are closed and secured.
- ☐ Verify that all safety devices are in working condition.
- ☐ Engage the deadbolt on the entrance door for travel.

TOOL KIT ITEMS

Before leaving on your first trip, it is a good idea to put together your own tool kit that contains the following items:

- ☐ ¾-inch lug wrench or ¾-inch socket (for lug nuts)
- ☐ Socket set with metric sockets (10, 13, and 17mm)
- ☐ Tire pressure gauge
- ☐ Phillips head screwdriver
- ☐ Small level
- ☐ Pliers
- ☐ Adjustable wrench (1-inch standard)
- ☐ Metric hex set (4, 5, and 6mm)
- ☐ Spare key to storage box
- ☐ Electrical tape
- ☐ Duct tape
- ☐ Repair kits for tent and mattress pads

HITCHING

Ember RVs are equipped standard with a 2 5/16" or 2" diameter ball type hitch mounted in a variable height coupler referred to as a VersaCoupler™ Hitching System. The compatible ball size is stamped on the rear of the coupler. The figures below demonstrate how to change coupler height.

Use of any other sized hitch ball than what is compatible with your VersaCoupler™ can create an extremely dangerous condition that can result in separation of the coupler and ball, and/or hitch ball failure. If you so choose, there are numerous trailer hitches and hitching components available to you for your trailer after market, separate from Ember. Be sure to consult with your tow vehicle manufacturer for hitch and/or hitch assembly alternatives.



FIGURE 3: COUPLER CLASS AND HITCH INFORMATION



FIGURE 4: VERSACOUPLER™ HEIGHT CHANGE



AN IMPROPERLY COUPLED TRAILER CAN RESULT IN DEATH OR SERIOUS INJURY.

PRE-HITCH/COUPLING/TRIP CONSIDERATIONS AND INSPECTION

Be sure your hitch and tow vehicle are rated for the Gross Vehicle Weight Rating (GVWR) of your trailer. Remember that the hitch load rating must be equal to or greater than the coupler load (the hitch is attached to the towing vehicle, the coupler to the trailer). Be sure the hitch size matches the coupler size. All Ember Touring Edition floorplans require a Class 3 or Class 4 Hitch.

Examine all hitch components before hitching. Look for wear, corrosion, deformations, stripping, and cracks. Replace worn, corroded, or cracked hitch components before coupling the trailer to the tow vehicle. Be sure the hitch components are tight and that the ball-locking device works freely before coupling the trailer to the tow vehicle.

Remember to also inspect the safety chains. Be sure to correct any noted problems or defects before towing the trailer.

Examine all hitch components before hitching. Look for wear, corrosion, deformations, stripping, cracks, and other defects. Replace worn, corroded or cracked hitch components before coupling the trailer to the tow vehicle. Be sure the hitch components are tight and that the ball-locking device works freely before coupling the trailer to the tow vehicle. Remember to also inspect the safety chains. Be sure to correct any noted problems or defects before towing the trailer.

WARNING

THE PROPER SELECTION AND CONDITION OF THE COUPLER AND HITCH IS ESSENTIAL TO THE SAFE TOWING OF YOUR TRAILER. A LOSS OF COUPLING MAY RESULT IN DEATH OR SERIOUS INJURY.

Important Note: Be sure to raise all stabilizers and the tongue jack and close the RV fully before hitching (i.e., close all doors and windows and raise the steps).

7-WAY CONNECTOR

Your trailer is equipped with a 7-way connector which synchronizes the lights of your tow vehicle and trailer and can connect their respective braking systems.

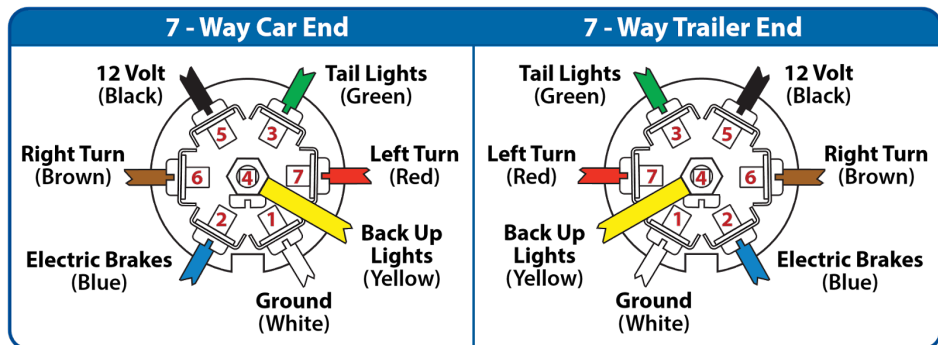


FIGURE 5: 7-WAY CONNECTOR WIRING

DANGER

USE OF A TOW VEHICLE WITH A TOWING CAPACITY LESS THAN THE LOAD RATING OF THE TRAILER CAN RESULT IN LOSS OF CONTROL AND MAY LEAD TO DEATH OR SERIOUS INJURY.

HITCHING STEPS AND INSTRUCTIONS

Hitching up your trailer will get easier with practice. You are highly encouraged to review the Smart Jack Owner's Manual for specific instructions, and warnings, on hitching your coach using the Smart Jack. The hitching steps described below are typical. It is also highly recommended that you consult the hitching and unhitching instructions associated with your particular tow vehicle and hitching configuration.

1. Chock the tires of the trailer.
2. Raise the front of the coach until the coupler clears the hitch ball of the tow vehicle.
3. Back the tow vehicle to the trailer until the hitch ball is directly under the trailer coupler. The use of a backing aid mirror may be helpful, especially if you are hitching alone.
4. Set the parking brake in the tow vehicle.
5. Be sure the coupler latch-locking lever is fully open and then lower the tongue jack until the ball is firmly seated in the socket.
6. Close the coupler latch and secure it with a locking pin or bolt.
7. Securely attach the safety chains to the tow vehicle and confirm that they are properly connected to the trailer. Do not fasten chains to any part of the hitch unless the hitch has holes or loops designed specifically for that purpose, be sure the chains do not drag during towing.



IMPROPER RIGGING OF THE SAFETY CHAINS CAN RESULT IN THE LOSS OF CONTROL OF THE TRAILER AND TOW VEHICLE, LEADING TO DEATH OR SERIOUS INJURY IF THE TRAILER UNCOUPLES FROM THE TOW VEHICLE.

8. Connect the breakaway switch. Attach and secure the breakaway switch cable to the tow vehicle bumper or frame independently of the safety chains. The following are guidelines for attaching the cable:
 - a. The cable should come straight out from the switch to attach to the tow vehicle.
 - b. The switch and cable should be located and secured on the same side of the trailer and tow vehicle.
 - c. Do not loop the cable over the hitch ball; the cable may bounce off while the vehicle is moving.

- d. Before towing you may test the breakaway assembly by pulling the pin out of the switch to confirm activation of the trailer electric brakes. See also the diagram/depiction in "Towing" section.



DO NOT CONNECT THE BREAKAWAY SWITCH LANYARD TO THE HITCH BALL OR ANY PART OF THE HITCH ASSEMBLY.

Note: Your breakaway switch will automatically engage the electric trailer brakes if the safety chains fail during uncoupling.

9. Connect the power cord between the tow vehicle and the trailer, leaving enough slack for the tow vehicle to turn without disconnecting the power cord.
10. Adjust side mirrors.
11. Check all lights on the trailer and tow vehicle, ensuring that they are communicating properly.
12. Confirm that the brakes are working properly prior to towing the trailer on a public road. You can, for example, check the operation of the trailer brakes by pulling forward and using the hand control.

SWAY CONTROL AND WEIGHT DISTRIBUTION HITCH

You may, depending on your tow vehicle or intended usage of the trailer, want to consider the use of a weight distributing hitch and/or sway bars. These distribute the tongue weight of the trailer further away from the rear and can help in vehicle handling. Each towing situation is different due to the tow vehicle and trailer. Ember suggests speaking with your dealer prior to choosing a system to determine which will be best for you.

Loading

The process of safely and properly loading your trailer should become easier with practice and experience. Please first get familiar with and understand the following terms related to your trailer's weight, carrying capacity, and rating:

GVWR (GROSS VEHICLE WEIGHT RATING)

The maximum permissible weight of the fully-loaded RV.

GAWR (GROSS AXLE WEIGHT RATING)

The allowable weight, including cargo, that can be safely supported by each axle.

UVW (UNLOADED VEHICLE WEIGHT)

The weight of the trailer as manufactured at the factory. It includes all weight at the trailer axle(s) and the tongue or pin. If applicable, it also includes full generator fluids including fuel, engine oil, and coolants.

CCC (CARGO CARRYING CAPACITY)

Equal to GVWR minus the following:

- UVW
- Full fresh (potable water-for drinking and cooking) water weight (including water heater)
- Full LP gas weight

TONGUE WEIGHT

The weight of the tongue as it bears down on the hitch of the towing vehicle. Tongue weight should be determined with the RV fully loaded as it would be for travel. DO NOT assume that you can fill all tanks and all storage areas and still be within the GVWR.

The weight of fully-filled propane containers is considered part of the weight of the RV before it is loaded with cargo and is not considered part of the disposable cargo load. Water, however, is a cargo weight and is treated as such. If there is a freshwater storage tank of 100 gallons, when filled this tank would weigh about 800 pounds. If needed, water can be offloaded to keep the total amount of cargo added to the vehicle within the limits of the GVWR. Understanding this flexibility allows you to make choices that fit your travel and camping needs.

CARGO CAPACITIES

Determining the weight of a vehicle includes more than understanding the load limits of the tires. A weight certification label, located on the roadside front of the coach provides the gross axle weight (GAWR), the gross vehicle weight rating (GVWR), and the unloaded vehicle weight (UVW). To weigh your unit yourself, search for local gravel pits, storage companies, or recycling facilities to find certified scales. Call in advance to determine if they offer public weighing service, their fees, if any, and hours of operation.

NOTE: WHEN ESTABLISHING THE CARGO CAPACITY, WEIGH WITH ALL WATER TANKS AS EMPTY AS POSSIBLE. (DO NOT ALLOW ANYONE TO BE IN THE RECREATIONAL VEHICLE WHEN WEIGHING THE UNIT.)

NOTE: CARGO CAN BE ADDED TO THE VEHICLE UP TO THE MAXIMUM WEIGHT SPECIFIED ON THE WEIGHT LABEL. THE COMBINED WEIGHT OF THE RV AND ITS CARGO CAN NOT EXCEED THE STATED GVWR.

HOW TO WEIGH YOUR RV

1. Pull onto the scales until only the RV axles are on the scale. Record the axle weight.
2. Unhook the RV on the scale to get a total weight of the RV.
3. To determine hitch weight, subtract the axle weight from the total weight.
4. Note: To calculate suspension weight ratings, it is necessary to subtract the hitch weight. This weight is being carried on the tow vehicle, not by the suspension of the RV.



IF THE TOTAL WEIGHT OF THE RV EXCEEDS THE GVWR, THE RV IS OVERLOADED. OPERATING YOUR RV WHILE EXCEEDING THE SPECIFIED WEIGHT RATINGS INCREASES THE RISK OF A CRASH, PERSONAL INJURY, AND DEATH. IT IS NECESSARY TO REMOVE CARGO (EQUIPMENT, PERSONAL BELONGINGS, WATER, ETC.) UNTIL THE TOTAL WEIGHT OF THE RV NO LONGER EXCEEDS THE GVWR BEFORE OPERATING THE RV.

IF THE WEIGHT ON THE RV AXLES EXCEEDS THE GVWR, THE AXLES ARE OVERLOADED. OPERATING YOUR RV WHILE EXCEEDING THE SPECIFIED WEIGHT RATINGS INCREASES THE RISK OF A CRASH, PERSONAL INJURY, AND DEATH. IT IS NECESSARY TO REMOVE OR REARRANGE CARGO (EQUIPMENT, PERSONAL BELONGINGS, WATER, ETC.) UNTIL THE AXLE WEIGHT NO LONGER EXCEEDS THE GVWR BEFORE OPERATING THE RV.

NOT OPERATING YOUR RV WITHIN THE DESIGNED WEIGHT RATINGS CAN CAUSE DAMAGE TO YOUR RECREATIONAL VEHICLE WHICH IS NOT COVERED UNDER ANY OF EMBER'S WARRANTIES.

Towing

GUIDELINES

We want your towing experiences and practices to be safe and enjoyable. Please take your time, avoid being in a rush, and give special attention to all safety matters prior to and during the towing of your trailer.

We recommend that you practice towing your Ember RV in an empty parking lot before going on your first camping trip. This initial trial is fun, great practice, and will help you get accustomed to and familiar with your Ember RV's systems and operation. Please also make note of any questions, issues, or problems that arise during your pre-travel towing practice, and then inquire with your dealer. You can also visit our website (www.emberrv.com) for current contact information. Please also refer to the "Overview of Safety Precautions" and "Pre-Travel Checklist" sections before towing your trailer.

SAFETY CHAINS

We have equipped your trailer with safety chains; make use of them. Safety chains serve to maintain the connection between your trailer and the tow vehicle in the event of separation of the ball and trailer coupling. Be sure to hook the safety chains to the frame of the tow vehicle (not the hitch), crossing them under the trailer's tongue. Also, remember to inspect the length of the chains once they are attached to the tow vehicle frame. A proper chain length will allow turns and prevent the chains from dragging on the road.

BREAKAWAY SWITCH

Your trailer is equipped with a breakaway switch. Breakaway switches are designed to activate the electric brakes in the event your trailer disconnects/uncouples from the tow vehicle. Your trailer battery powers this braking. Ideally, the safety chains will prevent your trailer from disconnecting if the coupler comes off the hitch ball. However, if the safety chains fail, the breakaway pulls the pin out of the switch which fires the brakes and serves as a last line of defense against a runaway trailer. The breakaway switch cable needs to be secured to the tow vehicle bumper or frame independently of the trailer safety chains. The following are guidelines for attaching the cable:

The cable should come straight out from the switch to attach to the tow vehicle.

1. The switch and cable should be located and secured on the same side of the trailer and tow vehicle. Do not loop the cable over the hitch ball; the cable may bounce off while the vehicle is moving.
2. Before towing you may test the breakaway assembly by pulling the pin out of the switch to confirm activation of the trailer electric brakes.

TIRE PRESSURE

You are responsible for maintaining proper tire pressure in the tires of your trailer and tow vehicle. Always check your tire pressure and refer to the “Tires” section before traveling.

BRAKES

You are responsible for inspecting and maintaining both your trailer and tow vehicle brakes before towing. Do not tow your trailer unless you have confirmed your brakes are in good condition and operating properly. Be sure to have a qualified technician perform all brake adjustments, service, and maintenance.

LIGHTS

Be sure to check all electrical connections to ensure all lights on the tow vehicle and trailer are functioning properly before traveling. The brake lights and hazard and turn signals should be in synchronization with the tow vehicle. Please note the rear lights will only work when the RV is plugged into the tow vehicle.

GENERAL TOWING AND DRIVING

Drive defensively, anticipating stops, braking early, and never following closely. We recommend maintaining a length of at least three cars and a trailer (approximately 65 ft.) between you and the car in front of you for every 10 mph of speed you are traveling (for example, at 60 mph, you should maintain approximately 390 ft of distance between your vehicle and the vehicle in front of you). This should give you adequate time to safely complete a proper avoidance maneuver (i.e. come to a safe stop, change lanes, etc.) in the event of, for example, an abrupt stop or emergency.

Longer stopping distances are required when towing a trailer, so remember to start braking sooner than you would if driving without your trailer. Begin slowing down well in advance of anticipated street/road dips and depressions.

It also takes longer to accelerate when towing a trailer. Thus, remember to account for both the slower acceleration rate and the combined length of your tow vehicle and trailer when passing another vehicle and then safely returning to your lane. In summary, always pass, allow others to pass, and change lanes with care. We do not recommend using cruise control or overdrive when towing/traveling.

CUB LANE CHANGE ASSIST

Lane Change Assist is an optional system. Please consult the Cub User Manual prior to utilizing this feature. This equipment is not a substitute for responsible situational awareness and is solely intended to aid or assist in safely towing your Ember RV.

SWAY AND FISHTAILING

Excessive sway or fishtailing of your trailer can lead to the rollover of the trailer and tow vehicle, and thus, serious injury or death. The tendency for the vehicle to sway increases with speed. Thus, reduce speed as needed and in inclement or harsh weather conditions (i.e., high winds, rainstorms, slippery roads, etc.). The following are a few tips for reducing sway or fishtailing when they occur and are not exhaustive: (1) Slow down gradually—do not jam/slam on the brakes or press on the accelerator, both of which may make the situation worse and result in severe injury or death. Instead, remove your foot from the accelerator and reduce your speed gradually whenever possible; (2) Minimize and avoid quick steering movements. Quick steering movements will cause increased sway and loss of control.

Keep both hands on the wheel and hold the wheel as straight as possible until stability is regained; and as soon as practicable after regaining control—pull over and check tire pressures and cargo weight distribution and inspect the trailer and tow vehicle for any signs of failure or defect. If you suspect a mechanical failure, we recommend that you not tow until the problem is identified and remedied. If you choose to travel, do so at reduced speeds and with heightened caution until the problem can be identified and remedied.



SIDE TO SIDE MOTION (SWAY) THAT BEGINS AS YOU REACH A CERTAIN SPEED WILL LIKELY BECOME WHIPPING AT HIGHER SPEEDS. AS SOON AS YOU NOTICE SWAY, SLOW YOUR VEHICLE BY LETTING OFF THE GAS PEDAL. THEN STOP TO CHECK THE TRAILER AND TOW VEHICLE AS SOON AS IT IS SAFE TO DO SO.

WINDING NARROW ROADS

Stay in the center of the lane. This reduces the likelihood of the tires/wheels dropping onto the shoulder, another potential cause of hazardous sway. Do not cross the centerline unless safely changing lanes.



IF A WHEEL GOES OFF THE PAVED ROADWAY DO NOT STEER SHARPLY AND DO NOT BRAKE. LET OFF THE GAS PEDAL AND SLOW DOWN BELOW 25 MPH AND THEN STEER GRADUALLY BACK ONTO THE ROADWAY. PROCEED WITH CAUTION ENTERING TRAFFIC.

SHARP TURNS

Minimize the suddenness of sharp turns by anticipating them, slowing down well in advance of them, and taking them at low, substantially reduced speeds.

STEEP AND LONG GRADES

Like sharp turns, be sure to anticipate steep grades. Downshift into a lower gear or range in advance to assist your braking on a descent and to add power on a climb.

Note: Avoid situations that require excessive and prolonged use of the brakes. If unavoidable, apply and release brakes at short intervals to give them a chance to cool. Downshift your tow vehicle to reduce braking needs on long downgrades of highway.

SLIPPERY AND ICY PAVEMENT

Reduce speed and drive slowly. Remember that skidding/hydroplaning can occur with minimal moisture on the road. If skidding occurs, remove your foot from the accelerator and then gently apply the trailer brakes only.

FREEWAYS AND HIGHWAYS

Try to pick and stay in the far-right hand slow(er) lane.

CORNER TURNS

Trailer wheels do not follow the path of your tow vehicle's wheels during corner turns. The trailer will make a closer, tighter turn than the tow vehicle. Compensate by moving further into the intersection before turning so that the trailer clears any objects in or near the road, such as but not limited to the curb and parked vehicles. Left turns require a wider than normal turn to help prevent the trailer from edging into an opposing lane. Use your turn signals early for the traffic behind you and begin slowing down well in advance of your turn.

MUD AND SAND

When going through mud or sand, accelerate gently, if at all, and try to remain in the path of the previous vehicles. Let the momentum of the tow vehicle and trailer carry you through the problem area. If stuck, the trailer and tow vehicle should be towed out while hitched. On dirt, gravel, or washboard roads, go slow and use caution. Your trailer will move and vibrate more than the tow vehicle. A good rule of thumb is 25 mph or less, and less than 25 mph on severely rutted roads.

PARKING

Whenever possible, avoid parking on a grade. If unavoidable, turn the front wheels of your tow vehicle into the curb and set the parking brake for the tow vehicle. For added safety, engage the wheel brake on the trailer wheels.

ADDITIONAL TOWING AND SAFETY INFORMATION

Find more information on the National Highway Traffic Safety Administration's website: <http://www.nhtsa.dot.gov/Cars/problems/Equipment/towing/Towing.pdf>

Tires

GENERAL INFORMATION

Properly maintained tires improve the steering, stopping, traction, and load-carrying capability of your vehicle. Underinflated tires and overloaded vehicles are a major cause of tire failure. Maintaining proper tire pressure, tire, and vehicle load limits, avoiding road hazards, and regularly inspecting tires for cuts, slashes, and other irregularities are important steps in avoiding tire failure such as tread separation, blowout, and flat tires. These steps, along with other care and maintenance activities, may improve vehicle handling, help protect you and others from avoidable breakdowns and accidents, improve fuel economy, and increase the life of your tires. You are responsible for making tire safety a regular part of your tow vehicle and habitat maintenance routine. Remember that the time you spend on tire safety is minimal compared with the inconvenience and safety consequences of tire failure. However, should a situation arise and you find yourself in need of roadside assistance, the purchase of your Ember RV includes access to the Tredit Advantage 4-Year Roadside Assistance. They provide nationwide 24/7, on-demand assistance to RVers who require crucial services to help them get back up and running to continue their travels. This program covers your Ember RV and also your tow vehicle! Please visit www.tredittire.com/tredit-advantage or scan the QR code for more information.



TIRE FUNDAMENTALS

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and provides a tire identification number for safety standard certification and recall matters.

SIDEWALL MARKINGS AND IMPORTANT TERMS

Your tires are marked with a designation of "ST." The "ST" indicates Special Trailer tires and are designed to be used on trailer axles only.

Maximum load rating is the maximum load in kilograms and pounds that each tire can carry.

Maximum permissible inflation pressure is the greatest amount of air pressure that should be put in the tire under normal driving conditions.

Maximum load single kg (lbs) at kPa (psi) cold indicates the maximum load and tire pressure when the tire is used as a single in unactive state.

Load range identifies the tire's load-carrying capabilities and its inflation limits.

TIRE TREAD

The tire tread provides the gripping action and traction that helps prevent your vehicle from slipping or sliding, especially when the road is wet or icy. Generally, tires are not safe and should be replaced when the tread is worn down to 1/16 of an inch.

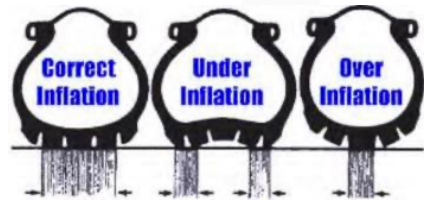
PRESSURE AND LOAD LIMITS

Tire inflation pressure is the level of air in the tire that provides it with load-carrying capacity and affects the overall performance of the vehicle. Because tires naturally lose air over time, or when driven over trails or objects such as potholes or curbs, it is important to check tire pressure monthly and before every trip.

The tire inflation pressure number indicates the amount of air pressure – measured in pounds per square inch (psi) – a tire requires to be properly inflated. Vehicle manufacturers determine this number based on the vehicle's design load limit, that is, the greatest amount of weight a vehicle can safely carry and the vehicle's tire size. Excessive loads may lead to abnormal tire flex, tire overheating, and ultimately, tire failure. As travel trailers may be set up and loaded in varying ways, proper air pressure should be determined by referencing the information on your tire. Please also refer to the Tire and Loading Information sticker located on the inside of the entry door of your trailer.

CHECKING TIRE PRESSURE

The proper tire pressure for your vehicle is referred to as the "recommended cold inflation pressure." Proper pressure depends on many conditions – terrain, temperatures, altitude, etc. A "cold" tire in this sense is one that has not been driven on for at least three hours. When you drive, your tires get warmer, causing the air pressure within them to increase. Therefore, to get an accurate tire pressure reading, you must measure tire pressure when the tires are cold or account for the extra pressure in warm tires.



Improper tire pressure can quickly lead to excessive wear and dangerous situations.

Because tires are designed to be used on more than one type of vehicle, tire manufacturers list the 'maximum permissible inflation pressure' on the sidewall. The number is the greatest amount of air pressure that should ever be put in the tire under normal driving conditions.

TIRE PRESSURE MANAGEMENT SYSTEM (TPMS)

Your Ember RV may come with a TireLinc® TPMS. This system provides easy access to temperature and pressure data for your tires and is Bluetooth compatible. The repeater, or brain of the system, is commonly located in the pass-through storage and is fixed to the coach via the repeater docking station. Please consult the TireLinc® Owner's Manual for instructions on how to pair the system to your EmberLink™ or Lippert One Control Application.



FIGURE 6:
TIRELINC® OWNER'S
MANUAL

WHEEL NUT TORQUE

Proper wheel nut torque is essential to safe towing. The tires used on your Ember RV are rated for Light Truck Duty. However, their usage is much different than a truck. These are not used to steer and are subjected to high side load stress when making tight turns around corners. This tends to flex the wheel and loosen the wheel nuts. Wheel nut torque requirements vary depending on the size and manufacturer of the wheel. As a guideline, 110 to 120 ft-lbs torque is sufficient.

TORQUE ADJUSTMENTS

Setting Torque Value on a Dial Indicator Wrench

Make sure your indicator needle is set to "0." As you apply clockwise pressure to the wheel nut, both needles will show the current amount of torque being applied. When you reach your desired torque value, stop applying pressure and your indicator needle will stay at the highest torque value reached.

Setting Torque Value of Adjustable Dial Wrench

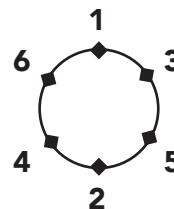
Unlock the handle and set the dial to your desired torque value. Lock the handle back in place. As you apply clockwise pressure to the wheel nut, you will hear an audible "click" when the desired torque wrench value is reached. Do not apply further pressure once you hear the "click."

Pre-trip Torquing Procedure

Torque the wheel nuts to 115 +/- 5 ft-lbs. Follow the torque sequence shown in Figure 7.

Stage 1: Set your torque wrench to the 1st stage value on the Wheel Nut Torque Table. Begin with the appropriate bolt and apply torque to all wheel nuts following the star pattern as shown in Figure 7.

FIGURE 7:
WHEEL NUT TORQUE
SEQUENCE



WHEEL NUT TORQUE TABLE

1st Stage	60-65 ft-lbs.
2nd Stage	100-105 ft-lbs.
3rd Stage	111-120 ft-lbs.

Stage 2: Increase your torque wrench setting to the 2nd stage value on the Wheel Nut Torque Table. Begin with the appropriate bolt for your wheel and apply torque to all wheel nuts following the star pattern. Following stage 2, the wheel can support the weight of the habitat and may be lowered off the jack stands.

Stage 3: Increase your torque wrench setting to the 3rd stage value on the Wheel Nut Torque Table. Begin with the appropriate bolt for your wheel and apply torque to all wheel nuts following the star pattern. If the wheel was replaced, check the torque again at every 50 miles for the first 500 miles and prior to each trip thereafter.

TIRE SAFETY CHECKLIST

1. Check tire pressure regularly (at least once a month and before any extended trip/traveling), including spare tires, if any. Note: When checking air pressure, be sure that all tires have both the correct and identical pressure before getting on the road.
2. Check and torque wheel lug nuts regularly.
3. Inspect tires for cuts, slashes, punctures, and other irregularities at least monthly and before every extended trip/traveling.
4. Remove any foreign objects (i.e. pieces of glass or metal, etc.) wedged in the tread.
5. Confirm all tire valves have valve caps.
6. Do not overload your tow vehicle or habitat.
7. Slow down when having to go over a pothole or other object in the road and avoid running over curbs or other foreign objects in the road and when parking if you can safely do so.
8. Replace tires when tread depth approaches and/or reaches 1/16 of an inch.
9. Have a qualified technician perform tire service, maintenance, and adjustments as needed.

TRAVEL TRAILER SET UP AT DESTINATION

SITE REQUIREMENTS AND SELECTION

Leveling

Once you have arrived and parked in your campsite, before removing your RV from your tow vehicle, it needs to be on as level ground as possible to assure proper operation of certain features. Using wood to make leveling boards to take along with you is a good idea.

1. Make sure the trailer is on solid, level ground.
2. Clear all stabilizer leg landing locations of debris and obstructions. Locations should also be free of depressions.
3. When parking the trailer on extremely soft surfaces, utilize load distribution pads under each stabilizer leg.
4. The Quick Drop™ Stabilizers require a minimum of 16" of ground clearance from the fully retracted foot pad to the ground to operate properly and provide optimal stabilization.
5. People and pets should be clear of trailer while operating the stabilizers.
6. Before resuming travel, be sure the stabilizers are fully retracted.



QUICK DROP™ STABILIZERS ARE TO BE USED FOR STABILIZING THE TRAILER, NOT LEVELING THE TRAILER.

THE STABILIZER LEGS SHOULD NEVER BE EXTENDED BEYOND INITIAL CONTACT WITH THE GROUND.



MOVING PARTS CAN PINCH, CRUSH OR CUT. KEEP CLEAR AND USE CAUTION.



NEVER LIFT THE TRAILER COMPLETELY OFF THE GROUND. LIFTING THE TRAILER COMPLETELY OFF THE

GROUND CREATES AN UNSTABLE CONDITION THAT COULD RESULT IN PROPERTY DAMAGE AND PERSONAL INJURY.

7. After you have safely leveled and stabilized your RV, you may continue with set-up.
8. If you are using campsite hookups, connect the shore-line cord to an external 120V, 30-amp or 50-amp outlet. Note: 20FB, 21MRK, 24BH, 24MBH, 26RB and 26MRB units use 30-amp service. 28BH and 28MBH and other dual AC units use 50-amp service. Check the cover of the power inlet for this information.
9. Deploy the steps.
10. Set the thermostat to the desired temperature.
11. Open a roof vent and turn on the fan to create an air exchange.
12. Turn on the refrigerator.
13. Turn on the LP.
14. Connect the water hose, sewer hose and park cable (if applicable).
15. Setup any remaining features as needed.
16. Open slide-outs.

NOTICE

CONNECTING TO THE WRONG SHORE POWER SOURCE CAN SERIOUSLY DAMAGE THE ELECTRICAL SYSTEM IN YOUR COACH.

NOTICE

YOU ARE ENCOURAGED TO USE A PRESSURE REGULATOR WHEN CONNECTED TO AN EXTERNAL WATER SOURCE. PRESSURES ABOVE 60 PSI MAY CAUSE LEAKS AND/OR DAMAGE TO YOUR PLUMBING SYSTEM.

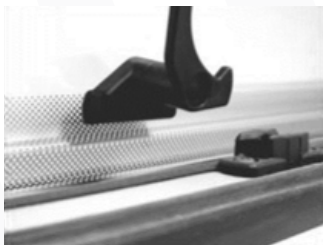
External Equipment and Systems

CUB LANE CHANGE ASSIST

Lane Change Assist is an optional system. Please consult the Cub User Manual prior to utilizing this feature. This equipment is not a substitute for responsible situational awareness and is solely intended to aid or assist in safely towing your Ember RV.

EUROPEAN WINDOWS

Most Ember RVs come with European-style, dual-pane acrylic windows. These windows are different from windows normally found in recreational vehicles made in North America. There are two styles of windows, ones with arms that click into three open positions and ones with tension knobs that hold it in the open position. When opening the window with clicks, you will hear a series of clicks that indicate the window will remain at that position if you release it. To close the window, push it forward until you no longer hear clicks and then slowly close and secure it. For the other type of window with tension knobs, including the Stargazer skylight, you will find tension knobs that are to be tightened when the desired window location is reached. Release the knobs to close the window. When closing windows, be sure to place them in the Closed position to prevent leaking. The latch lever should rotate fully inside of the coach and rest in the Closed position as shown in the series of pictures below. You may also leave your windows in the Vented position to permit airflow. Under no circumstances are you to travel with the windows in anything other than the Closed position. Serious damage to your window and coach may result. Please read fully the manufacturer's information for additional instructions on usage, care, and maintenance.



OPEN



VENTED



CLOSED (TRAVEL)

NOTICE

FAILURE TO SECURE EUROPEAN WINDOWS IN THE CLOSED POSITION PRIOR TO TRAVEL MAY RESULT IN SERIOUS DAMAGE TO THE WINDOW.

CONDENSATION

Acrylic has the property that it is very slightly diffuse. As a result of this, the air in the cavity between the acrylic panels can contain moisture. Conditions may cause this moisture to condense. This is a natural phenomenon and does not mean that the window has a leak. This condensation will always disappear after some time.

Condensation can be prevented by properly ventilating the vehicle.

If condensation forms frequently or is permanent, then please consult your dealer.

CLEANING

DO:

- Use copious quantities of water to rinse dirt from your window.
- Use a chamois leather or soft dry cloth to dry your windows.

DO NOT:

- Use a sponge or dry cloth until the window has been rinsed with water.
- Use abrasive and corrosive substances such as: alcohol, turpentine, dry-cleaning naphtha, dishwasher detergents or solvents.
- Use a high-pressure washer for cleaning your windows.

ELECTRIC TONGUE JACK

Your Ember RV comes equipped with an electric tongue jack which uses 12V DC power and provides for vertical movement of the front of the trailer. If 12V DC power is unavailable, you may manually operate the jack. You are encouraged to thoroughly review the tongue jack owner's manual. This document provides several important safety warnings as well as instructions for operating the jack in memory mode, hitching and unhitching from a tow vehicle, and manual operation.



FIGURE 8:
SMART JACK
OWNER'S MANUAL



SAFETY CRITICAL INFORMATION IS PROVIDED IN THE SMART JACK OWNERS MANUAL. YOU MUST REVIEW THIS DOCUMENT PRIOR TO USE.

GEAR BOX

Your Ember RV may come equipped with an aluminum/steel Gear Box mounted on the A-Frame. This compartment is separated into three areas. The driver-side bottom section is for vented and unvented battery storage and the curbside section can fit two 20 lb. LP canisters. Additionally, the top storage section is provided for secure storage.



WARNING

ALWAYS ENSURE THAT BATTERIES AND LP GAS CONTAINERS ARE PROPERLY SECURED BEFORE TRAVEL. LEAVING EQUIPMENT LOOSE OR NOT PROPERLY FASTENED MAY RESULT IN SIGNIFICANT DAMAGE TO LP HARDWARE, BATTERIES OR WIRING AND MAY RESULT IN A FIRE OR EXPLOSION.

EXTERIOR TELESCOPING LADDER

Your Ember RV may come equipped with a Lippert On-The-Go telescoping ladder. The ladder is a fully adjustable and collapsible ladder with safety locks at each rung for extra security. The ladder is designed to be used only with the installed On-The-Go receiver. Proper use of the ladder is extremely important as to avoid serious injury or death. After extending and locking each rung of the ladder to full height, insert the attached mounting hanger of the ladder into the slots of the installed and approved receiver. Pull down on the ladder to make sure the mounting hanger is fully inserted into the receiver. Make sure that both feet of the ladder are securely on the ground and the ladder is put at an angle. The preferred angle is approximately 75 degrees and should never be hung or used with the ladder vertical. Retract rungs starting from the bottom if the angle of the ladder needs adjustment. Do not exceed the 330 lb. (150kg) maximum weight capacity of the ladder. Only one person at a time should be on the ladder. Please refer to your On-The-Go telescoping ladder owner's manual for more information.



DANGER

FAILURE TO FOLLOW PROPER USE INSTRUCTIONS COULD LEAD TO DEATH OR SERIOUS PHYSICAL INJURY. OBEY ALL SAFETY MEASURES AND DO NOT USE THE LADDER FOR ANYTHING OTHER THAN ITS INTENDED USE.

OUTDOOR KITCHEN

GRIDDLE

Your Ember RV may come equipped with an optional griddle in the outdoor kitchen (select models). It is important to properly season your griddle before cooking on it for the first time. Please refer to the manufacturer's instructions supplied in the Owner's Packet for care and operation.



WARNING

DO NOT LEAVE THE COOK TOP UNATTENDED WHILE IN USE. IF WINDY CONDITIONS CAUSE THE FLAME TO INVERT TO THE COOK TOP, STOP USING IMMEDIATELY. CONTINUED USE WILL RESULT IN HEAT BUILD UP IN THE COOK TOP CAUSING DAMAGE TO THE COOK TOP AND INCREASED RISK OF FIRE.

WARNING

WHEN USING OUTDOOR COOKING THE VEHICLE MUST BE LEVEL AND STABILIZED. DO NOT VIOLATE THE MANUFACTURER'S INSTRUCTIONS ON REQUIRED CLEARANCES FOR COOKING APPLIANCES DURING USE. DO NOT STORE COOKING APPLIANCES UNTIL COOL TO THE TOUCH. IMPROPER USE CAN LEAD TO A FIRE AND EXPLOSION AND RESULT IN DEATH OR SERIOUS INJURY.

OUTSIDE REFRIGERATOR

Your Ember RV may come equipped with a refrigerator in the outdoor kitchen (select models). Commonly this refrigerator operates off the 120V AC system. Please refer to the manufacturer's instructions supplied in the Owner's Packet for care and operation.

REAR 2" ACCESSORY RECEIVER

Your 2" receiver permits the attachment of cargo racks, bike racks, and other accessories to your Ember and is rated to hold 300 pounds.

CAUTION

YOUR RECEIVER IS RATED FOR A 300LB LOAD. EXCEEDING THIS CREATES A POTENTIALLY HAZARDOUS CONDITION THAT CAN DAMAGE YOUR TRAILER OR POSSIBLY RESULT IN SERIOUS INJURY.

DANGER

THE 2" RECEIVER IS NOT TO BE USED TO TOW VEHICLES OR TRAILERS UNDER ANY CIRCUMSTANCES. DOING SO CAN RESULT IN CATASTROPHIC FAILURE THAT COULD LEAD TO SERIOUS INJURY OR DEATH.

STABILIZERS

Your Ember RV comes equipped with Lippert's Quick Drop™ Stabilizers. Please review the Operator Manual prior to use. There are several important warnings and points of caution that you need to be aware of.



FIGURE 9:
QUICK DROP™
OWNER'S MANUAL

Internal Equipment and Systems

In this section of the manual, we defer to the component manufacturer's manuals, which have been supplied with your Ember RV, for detailed operating instructions. Ember is only able to provide a summary operational description and recommends you review each of the component manuals before use of the component. Each appliance in your RV is warranted by its manufacturer and it is very important that you review all the information provided in the Owner's Packet.

Use of non-certified technicians or using non-approved parts may void the appliance warranty. Please contact your selling dealer or Ember before attempting to repair any appliance.

SAFETY

Always follow the manufacturers' instructions on the use of all appliances and observe all safety warnings and instructions included.

Before camping, all campers should review and understand the locations of all safety equipment inside the unit and all emergency exit windows as well as doors. An escape plan for emergencies, whether at home or camping, is always a good idea.



WE RECOMMEND THAT THE DIAGNOSIS AND REPAIR OR REPLACEMENT OF YOUR RV'S APPLIANCES BE PERFORMED BY A DEALER OR PROPERLY CERTIFIED RV TECHNICIAN. IMPROPERLY DIAGNOSED, REPAIRED, OR REPLACED APPLIANCES AND/OR THEIR PARTS COULD LEAD TO AN INCREASED RISK OF DEATH OR SERIOUS INJURY.

PROPANE APPLIANCE MAINTENANCE

Be sure to follow the instructions and warnings below along with those noted in the appliance and equipment owner's manual.

- Annual maintenance should be conducted on the propane appliances and equipment by an authorized dealer or repair facility.
- Insects can build nests in the burners of the various appliances and equipment. The burner and burner orifice of the propane appliances and equipment should be cleaned out by an authorized dealer or repair facility any time circumstances or conditions warrant, but no less frequently than annually.

OPERATING APPLIANCES AT HIGH ALTITUDE

All gas appliances experience lowered efficiency (or rating) at high altitude. This is a direct result of lower atmospheric pressure and oxygen levels and is not a defect of appliance. See component manual for each appliance.

HEATING AND COOLING

AIR CONDITIONER

Most Touring Edition floorplans will come with 1 or 2 air conditioners with soft start capability. Soft start permits the AC to activate its compressor without a massive surge of electrical current that can sometimes damage the AC and trip the RV's main breaker.

An air conditioner requires a sizable amount of power to operate. It may be necessary to reduce other loads when using air conditioning to reduce the chance of overload and possibly tripping the main breaker. Please refer to the air conditioner Owners Manual supplied in the Owner's Packet for care, operation, and warranty information.

In the optimal situation, the roof-mounted air conditioner will cool the air it receives by 20 degrees Fahrenheit. To maintain a comfortable temperature, it is important that you reduce the amount of thermal energy that is entering or captured inside the coach. In high outdoor temperatures, the thermal energy of the RV may be reduced by:

- Parking in a shaded area.
- Deploying the awning to shade one side of the coach.
- Tightly securing all windows and keeping the blinds closed.
- Tightly securing the entry and baggage doors.
- Avoiding use of heat producing appliances such as the inverter or oven.
- For cooler nights, venting the coach thoroughly in the early morning or before going to bed.
- Turning the AC on early in the morning.

Note: Never run the air conditioner without a filter. This could affect performance by plugging the RV evaporator substantially.

FURNACE

Most Embers use a LP fueled furnace with DC power for ignition and fan operation. You are highly encouraged to read the Operation Manual for your furnace prior to operation.



FIGURE 10:
DOMETIC FURNACE
OPERATOR'S MANUAL

ACCESS

Through the narrow vent panel adjacent to the pass-through storage. Detach the panel to gain access to the furnace. This also permits access to the OFF/RESET switch.

KEY POINTS

This Furnace does not have a pilot. It is equipped with an ignition device that automatically lights the burner. Do NOT try to light the burner by hand.

Gas will not flow to the burner and the Furnace will not operate with the switch in the OFF position.

Turn the gas control valve by hand ONLY. NEVER use tools. If the valve does not turn by hand, do NOT attempt to repair it. Call a qualified service technician.

BEFORE OPERATING THE FURNACE

Check around the Furnace area and floor for the smell of gas and check the fitting with a leak test solution. Do NOT proceed if a gas odor exists around the Furnace or floor area.

During the initial firing of the Furnace, a burn-off of excess paint and oils remaining from the manufacturing process may cause "smoking" for 5-10 minutes.

To turn the Furnace on and off, refer to Operations Manual.



FAILURE TO FOLLOW THE SAFETY WARNINGS IN THE FURNACE OPERATORS MANUAL EXACTLY COULD RESULT IN SERIOUS INJURY, DEATH, OR PROPERTY DAMAGE.

MAINTENANCE

It is an expectation that you are to conduct inspection and recurring maintenance according to the Operator's Manual. Only perform service activities that are identified as the responsibility of the owner. Use a qualified service technician when required.

THERMOSTAT – WALL-MOUNTED

If equipped with a wall-mounted thermostat, please refer to the manufacturer's instructions supplied in the Owner's Packet for care and operation.

DUAL-ZONE THERMOSTAT

If equipped with dual zones, the main air conditioner and furnace are typically programmed in Zone 1 and the second air conditioner to Zone 2. Please refer to the manufacturer's instructions supplied in the Owner's Packet for care and operation.

ENTERTAINMENT AND CONNECTIVITY

TELEVISION

Your Ember RV comes equipped with a Bluetooth® capable television that is wired to receive channels through the Winegard 360 antenna. Some antennas may also be equipped with AM/FM capability. Please refer to the manufacturer's instructions which were supplied with the RV in the Owner's Packet for care and operation.

WINEGARD AIR 360

Your Ember RV uses a Winegard AIR 360+ Omnidirectional TV Antenna. This antenna can receive VHF and UHF digital and HD TV channels. Some models may also have AM/FM signal capability. Additionally, the coach is prepped to permit installation of a gateway for 4G signal reception and Wi-Fi capability. Find the white Winegard ceiling plate on the inside of your coach and scan the QR code for further instructions.

CABLE HOOK-UP

Cable hook-ups are located in Ember's Nautilus system, the Entertainment Center, and on the bedroom wall. Please refer to the manufacturer's instructions which were supplied with the RV in the Owner's Packet for care and operation.

AWNING

Your awning is a motorized system that extends and retracts a fabric cover that provides protection from the sun and elements. It is very important that you read the Operations Manual provided in the owners packet prior to operating your awning. The extension and retraction of the awning is done via the control panel or through your mobile device using the EmberLink™ application. Controlling the pitch of the awning provides for water run-off during light rain. Instructions on how to adjust the tilt and pitch of your awning are provided in the Operations Manual.

NOTICE

FAILING TO RETRACT THE AWNING DURING SEVERE WEATHER MAY LEAD TO DAMAGE THAT IS NOT COVERED UNDER WARRANTY.

⚠ WARNING

THE AWNING HAS MANY PINCH POINTS AND OTHER DANGERS THAT COULD LEAD TO SERIOUS INJURY. REVIEW THE OPERATIONS MANUAL PRIOR TO USE.



DO NOT OPERATE ANY MOVING PARTS (INCLUDING, BUT NOT LIMITED TO, AWNINGS, JACKS AND SLIDES), UNLESS YOU HAVE A CLEAR LINE OF SIGHT TO THE MOVING PART. THE MOBILE APPLICATION, DISPLAY COMMANDER, OR BODY CONTROL MODULE MAY BE USED ONLY IF YOU ARE GIVING INSTRUCTIONS TO AND RECEIVING INSTRUCTIONS FROM ANOTHER PERSON AT LEAST 18 YEARS OR OLDER WHO CAN CLEARLY SEE THE MOVING PART. FAILURE TO FOLLOW THESE INSTRUCTIONS MAY RESULT IN SERIOUS PERSONAL INJURY OR PROPERTY DAMAGE.

APPLIANCES

MICROWAVE

Your Ember RV comes with a microwave which operates on 110V power. The microwave draws approximately 1.35 KW, so minimize power consumption while it is in operation in order to avoid tripping the main breaker. Your microwave provides around 900W of cooking power. Adjust your cook times accordingly. Please refer to the User Manual supplied in the Owners Packet for additional information on operation, care, and warranty.

GAS COOKTOP (RANGE) AND OVEN

Your cooktop provides between 2 and 4 LP fueled cooktop burners and can be used for general cooking. The oven can be used for baking cakes, cooking meat or fish, or warming up a pizza. Some models require a pilot to be lit, while others light electronically using piezo electric ignition. If the cooktop comes with a glass cover, it is important to properly store this away while in use. Before using this device, it is important that you review the user manual supplied with the RV in the Owner's Packet. This provides instruction for lighting and controlling the burners, managing the pilot light, and other features of the appliance. Please take careful notice of the multiple and severe warnings associated with use of this appliance. Ember's goal is to provide you a safe and memorable ownership experience, but the improper use or insufficient maintenance of your propane appliance places you and your family in danger regardless of our best intentions.



BEFORE OPERATING: OPEN VENTS OR WINDOWS SLIGHTLY OR TURN ON AN EXHAUST FAN PRIOR TO USING A COOKING APPLIANCE. GAS FLAMES CONSUME OXYGEN WHICH SHOULD BE REPLACED TO ENSURE PROPER COMBUSTION. IMPROPER USE CAN RESULT IN DEATH OR SERIOUS INJURY.



DO NOT USE COOKING APPLIANCES FOR COMFORT HEATING. IT CAN LEAD TO CARBON MONOXIDE POISONING WHICH CAN LEAD TO DEATH OR SERIOUS INJURY.



NEVER LEAVE ITEMS UNATTENDED ON THE COOKTOP. THE HOT AIR FROM THE VENT MAY IGNITE FLAMMABLE ITEMS AND MAY INCREASE PRESSURE IN CLOSED CONTAINERS WHICH MAY CAUSE THEM TO BURST. KEEP THE AREA AROUND THE APPLIANCE CLEAR AND FREE FROM COMBUSTIBLE MATERIALS, GASOLINE, AND OTHER FLAMMABLE VAPORS AND MATERIALS.



ALL PILOT LIGHTS, APPLIANCES, AND THEIR IGNITORS (SEE OPERATING INSTRUCTIONS) SHALL BE TURNED OFF BEFORE THE REFUELING OF ANY FUEL TANKS AND/OR PROPANE CONTAINERS. FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.

REFRIGERATOR

Your refrigerator is powered by the 12V DC system. Instructions for operation, care and cleaning, defrosting, preparation for storage, and troubleshooting are in the appliance user manual. The refrigerator in your RV is optimized for both size and power usage which results in significantly slower cooling than a typical residential unit. Understanding this distinction will help you avoid unnecessary frustration and diminish the likelihood of a negative camping experience.

- Always allow 24 hours to reach the desired temperature.
- Move the temperature dial only one setting at a time and then allow 24 hours for it to cool.
- Only operate in room temperatures between 55°F and 110°F. Usage outside this range will cause inadequate cooling.
- Do not set the control too high. This could result in freezing or frost build up due to excess humidity in the coach.
- Minimize the amount of time the refer is open. 15 seconds of open time requires roughly an hour to return to temperature.
- Be aware of power usage when not connected to shore power. At high settings the refrigerator can almost fully deplete a 100 amp-hour battery overnight.

NOTICE

YOUR CONVERTER HAS A CURRENT LIMITING FUNCTION THAT LOWERS THE OUTPUT VOLTAGE IF THE DC POWER DRAW EXCEEDS THE MAXIMUM OUTPUT. YOUR INTERNAL REFRIGERATOR IS THE MOST COMMON APPLIANCE WITH UNDERVOLTAGE PROTECTION. IF YOUR REFRIGERATOR IS NOT COOLING OR HAS SHUT OFF, TURN OFF ITEMS REQUIRING DC POWER.

ROOF VENTS (POWER AND MANUAL)

Your Ember RV has two or more DC powered ceiling vent fans. This equipment is an excellent tool to keep the RV ventilated and help manage indoor air quality.

NOTICE

THE VENT COVERS MUST BE CLOSED AND SECURED PRIOR TO TRAVEL AND SPEEDS IN EXCESS OF 75 MPH MAY DAMAGE THE COVER.

REMOVABLE TABLE

In several floorplans, one or two removable tabletops are provided. These tabletops consist of two components: a support leg and table. The support leg mounts in the metal bracket visible in the center of the sofa kickplate. The tabletop is then mounted to the support. Provisions are made for the secure storage of these components beneath the sofas. It is recommended that these items be secured in this location prior to travel.

WARNING

THE REMOVABLE TABLETOP IS NOT TO BE USED AS A SEAT. DAMAGE TO THE SUPPORT AND SOFA MAY RESULT.

SOLAR ON THE SIDE

Your Ember RV comes equipped with a Solar on the Side™ pre-wired solar port. This permits you to connect various portable solar kits to your RV to provide an additional power source. Please go to www.solarontheside.com for additional details.

D-RINGS

Some Embers have D-Rings installed in the floor to assist with securing cargo.

NOTICE

DO NOT PLACE MORE THAN 150 LBS OF TENSION ON A SINGLE D-RING. EXCESSIVE TENSION MAY PULL THE D-RING FREE OF THE FLOORING.

ELEVATED BUNKS

STANDARD ELEVATED BEDS

Various Ember RVs feature standard built-in elevated beds or bed loft areas. These beds are typically enclosed on one, two, or three sides and sometimes even partially on a fourth side and can be anywhere from four to five feet above the floor. With many different elevated bed designs and potential uses for these elevated beds, bed rails may not come with the RV.



EXCEEDING THE LOAD LIMITS FOR BEDS MAY RESULT IN FAILURE CAUSING SERIOUS INJURY.



ELEVATED BEDS PRESENT A FALL HAZARD WHICH COULD RESULT IN INJURY. PLEASE FOLLOW THE GUIDELINES BELOW REGARDING ELEVATED BEDS AND THE USE OF BED RAILS.

USE OF BED RAILS

Ember feels that the owner of the RV is best equipped to determine if a bed rail system is necessary based on the intended use, actual users, and comfort level of the actual users of the elevated bed.

For those who would prefer using bed rails with the elevated bed, there are numerous bed rail styles, sizes, heights, and designs available, which can be purchased at various retail locations or on the Internet. For these bed rails, please be sure to follow the manufacturer's installation instructions carefully and fully. Remember to consider the height of the mattress or bunk mat, so the height of the rails is appropriate as RV mattress and bunk mat sizes often differ in size from residential mattresses. Please also allow for adequate space to easily get in and out of the elevated bed after installation of the bed rail, especially in the case of an emergency.

TIPS FOR SAFE ELEVATED BED USAGE

Use your best judgment when allowing children to sleep in any elevated bed. Generally, it is not suitable for children under the age of six to sleep in an elevated bed area.

Discuss proper usage of elevated bed with those using it, especially children, and make sure they are supervised in playing in the elevated bed. You should never allow horseplay on or under the elevated bed and no items such as hooks, belts, jump ropes, etc. should hang from any part of the elevated bed.

Make sure to follow the weight restrictions for the elevated bed.

MURPHY BEDS

Ember prides itself on the design of its Murphy Bed and believes it provides one of the best Murphy-style sleeping options in the RV business. The mattress is a standard residential queen and when "stowed," the Murphy sofa provides stylish and comfortable seating. It is important to note that the mattress platform is designed only to support a distributed load such as that provided by a mattress.

NOTICE

DO NOT USE THE MURPHY BED PLATFORM WITHOUT THE MATTRESS. POINT LOADS, SUCH AS THOSE CREATED BY SITTING OR STORING ITEMS, MAY RESULT IN DAMAGE OR DEFORMATION NOT COVERED UNDER WARRANTY.

Depending on model and options, storage space may be available beneath the sofa. In some instances, hardware to secure the removable table is installed in this space. You are encouraged to use these whenever possible.

CAUTION

THE MURPHY BED CAN SUPPORT A MAXIMUM OF 600LBS. WEIGHT IN EXCESS OF 600LBS MAY DAMAGE THE BED PLATFORM.

Safe and responsible operation of the Murphy bed is important. Please be aware a crush hazard exists. Do not allow anyone under the Murphy bed when lowering the bed. Likewise, do not allow anyone on the bed when it is being put into its stowed position. Beware of pinch points that exist between the bed and sofa when lowering the bed and between the storage compartment when raising (stowing) the bed. Use caution when moving the bed from one position to another. If in a stowed position during travel, make sure the latch is connected correctly and in its locked position.

⚠ DANGER

UNDER NO CIRCUMSTANCES SHOULD AN ADULT, CHILD, OR PET BE ON THE BED WHEN RAISING IT TO ITS UPRIGHT, STOWED POSITION. IN THE EVENT THAT A PERSON COULD BECOME TRAPPED, SERIOUS PERSONAL INJURY OR DEATH COULD RESULT.

MURPHY BED SETUP AND STORAGE

1. Before lowering the Murphy bed, be sure that the sofa is folded down correctly and that no person is below the bed.
2. Use one hand to brace the bed as the other hand locks the bed from the latch installed in the center of the bed. Make sure to have a steady grip on the bed at this point.
3. Lower the bed slowly and beware of pinch points.
4. The bed is ready for use.
5. When the bed needs to be stored, ensure no person or pet is on the bed.
6. Lift the bed into its upright position, watching for pinch points.
7. Secure the bed in place with the installed latch at the center of the bed.
8. Put the sofa back into its sitting position.

SLIDEOUT SYSTEMS

Your Ember slideout room uses a BAL Exact-Slide. The QR code for the BAL Support website is shown in Figure 11. Slideouts are designed to provide additional living space during stationary camping. Always level your coach before operation. Leveling minimizes slight twists and bends in the coach and keeps it square. This helps the slideout extend, retract, and seal correctly.



*FIGURE 11:
BAL EXACT-SLIDE
MANUAL*

Ember has also designed your slideout with a sloped roof that drains water away from the coach. A level slide room is essential to this process. Additional support is not necessary beneath the rooms and non-warranty damage can occur from improper use of aftermarket support jacks.



FAILURE TO LEVEL YOUR COACH MAY RESULT IN LEAKS
AROUND THE SLIDE ROOM THAT COULD RESULT IN

WATER DAMAGE.

SLIDEOUT OPERATION

The slide rooms will make creaking or squeaking noises during operation. These noises are normal especially during the break in period while the components are seating properly. This will decrease after a few extend/retract cycles. Note that there will always be some noticeable noises when operating the slideout.

To extend your slide room:

1. Level and stabilize the RV.
2. Close all cabinet doors and drawers.
3. Check the external travel path of the slide room to ensure it is free of obstacles such as trees, boulders, fences, etc.
4. Check the internal path and remove any items that could interfere with travel.
5. Use the EmberLink™ control panel to extend the slideout.
6. Completely extend the slide. This is necessary for the weather seals to be effective.
Note: it is normal for the lights to flicker when the room reaches full extension.

To retract your slide room:

1. Close all cabinet doors and drawers.
2. Check the external travel path of the slide room to ensure it is free of obstacles.
3. Check the internal path and remove any items that could interfere with operation.
4. Inspect the sides, top and bottom of the extended slideout room. Wipe it dry before retracting it and remove any debris.
5. Completely retract the slide. This is necessary for the weather seals to be effective.
Note: it is normal for the lights to flicker when the room reaches full retraction.
6. Immediately inspect for and remove any residual water puddles or debris remaining on the slideout.

TROUBLESHOOTING THE SLIDE ROOM

Ember recognizes that a malfunctioning slideout poses a significant problem and can prevent safe travel to and from your destination. Many common issues are addressed on BALs support website. Much of this information is intended for service personnel with extensive experience with slideout repair and maintenance. Ember encourages you to contact your dealer prior to making any adjustments, replacements, or repairs.

PROBLEM: Motor does not run or make any noise

Cause 1: Dead battery

Solution: Charge or replace battery.

Cause 2: Open circuit or faulty switch

Solution: Check connections at switch, fuse & circuit breaker.

Cause 3: Bad Motor (contact your dealer)

Solution: Replace the motor (dealer only).

PROBLEM: Room doesn't close completely.

Cause 1: Room is hitting an obstruction

Solution: Check for obstructions and correct.

Cause 2: Improper cable adjustment (contact your dealer)

PROBLEM: Room is leaking.

Cause 1: Room is not properly sealed against the coach

Solution: Consult BAL's troubleshooting guide for adjusting your slide.



FIGURE 12:
BAL
TROUBLESHOOTING
GUIDE

SLIDEOUT MANUAL OVERRIDE

Use the provided flex shaft and #3 square bit. Locate each motor at the top of the mechanism. Insert the drive bit into the end of the motor and activate with a cordless drill (DO NOT USE AN IMPACT DRIVER). Alternate between motors so that the room does not become wedged in the opening or encounter cabinets or other fixtures in the RV.

For additional help, contact BAL Technical Support at 877-557-7788 or email at baltechsupport@norcoind.com. You can also reach out to the Ember Ownership Experience department for troubleshooting and/or repair assistance.



FIGURE 13:
BAL MANUAL
OVERRIDE VIDEO



DO NOT PLACE EXCESSIVE WEIGHT IN THE SLIDEOUT ROOM. IT CAN CAUSE THE SLIDEOUT ROOM TO MALFUNCTION AND CAUSE DAMAGE TO THE SLIDEOUT.



THE SLIDEOUT ROOM AND MECHANISM ARE A POTENTIAL CRUSH HAZARD. DISCONNECT THE AUXILIARY BATTERY TO DISABLE POWER TO THE SLIDEOUT(S) BEFORE WORKING ON OR UNDER THE SLIDEOUT(S). FAILURE TO DO SO COULD RESULT IN SERIOUS INJURY OR DEATH.

Electrical System

Your Ember RV has two electrical systems: 12 Volt Direct Current (DC) and 120 Volt Alternating Current (AC). DC power is provided either from batteries or through “conversion” of 120V AC to 12V DC through a device called a converter. AC power is provided through your 30-amp or 50-amp shorepower hookup or through “inversion” of Direct Current to Alternating Current through a device called an inverter. The inverter is commonly used when you are not hooked to shorepower. Your solar panels provide an alternative source of power by converting radiation from the sun to a usable 20 Volt DC current that is stepped down to 12 Volts through your Solar Controller and then used to charge your batteries. Your batteries are also charged through your Electrical Panel when hooked to shore power.

All installations have been made in compliance with industry standards applicable on the date of manufacture. Because the electrical equipment and associated circuitry are engineered into a dedicated system specific to your RV, we recommend you do not make unauthorized changes or add fixed appliances to it. Changes or additions made after delivery may result in a hazardous condition.

Service and/or modification of the electrical system should only be performed by qualified electrical technicians using approved materials, components, and methods meeting current safety and code requirements. Please consult your dealer’s service department for assistance. To read more about the various components incorporated into the RV electrical system, please refer to the information contained in your Owner’s Packet.

ELECTRICAL SYSTEM MAINTENANCE

Always disconnect the shore power cord, shut off the battery, and disconnect the negative 12V DC battery terminal before working on the electrical system. Always make sure the converter is turned “off” before disconnecting the battery.

120-VOLT ALTERNATE CURRENT SYSTEM

Your Ember RV is equipped for either 30-amp or 50-amp service. This system can be powered by the 120-Volt 60hz utilities found in RV campgrounds or by 120-Volt 60hz generator power. If you are unsure what service your RV uses, check the label on the power inlet. Connecting to the wrong amperage may damage electrical components in your coach.

Below are schematics of the 50-amp electrical system, 30-amp electrical system, and electrical system configuration when on battery power.

Key points for all coaches:

- All wall outlets are GFCI protected by a GFCI breaker at the electric panel.
- Utility outlets that power various appliances are not GFCI protected.
- All wall outlets are inverted when not connected to shore power.
- When not connected to shore power, no appliances receive AC power.

Key points for coaches with 30-amp service:

- The water heater and fireplace cannot operate simultaneously. When the fireplace is in use, the water heater does not receive current and vice versa.

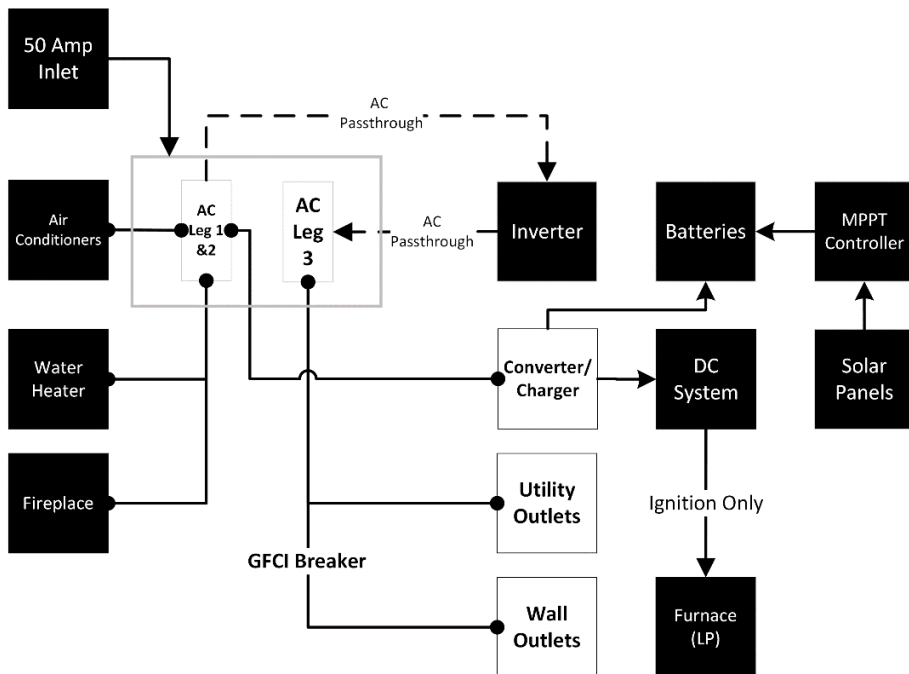


FIGURE 14: 50-AMP ELECTRICAL SYSTEM SCHEMATIC

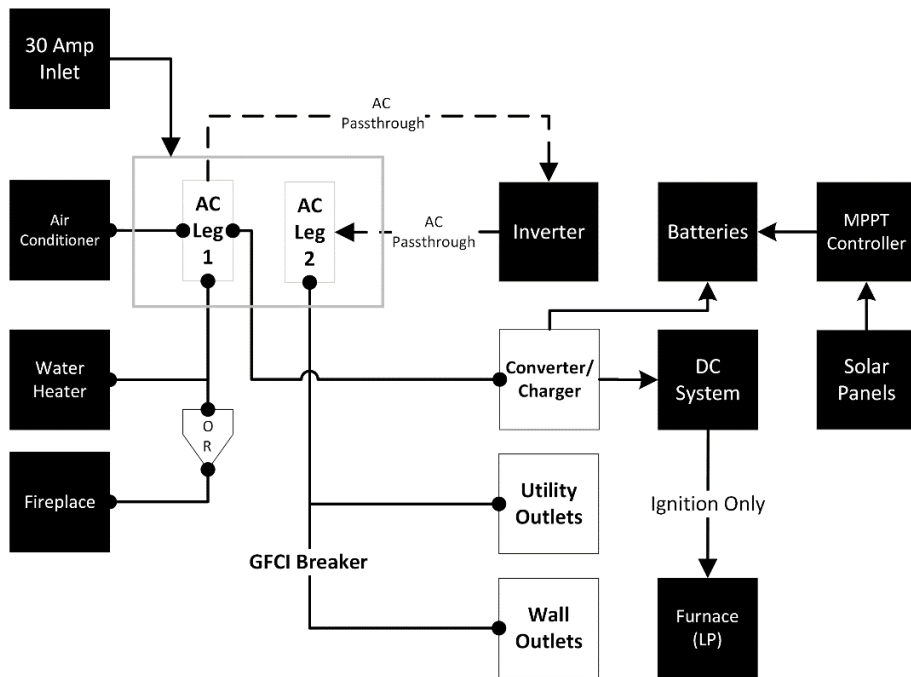


FIGURE 15: 30-AMP ELECTRICAL SYSTEM SCHEMATIC

The following electrical components operate off 120V AC and will not function if not connected to shore power:

- Air conditioner
- Microwave
- 120V Water Heater (LP with DC Ignition available)
- Fireplace
- Outside refrigerator

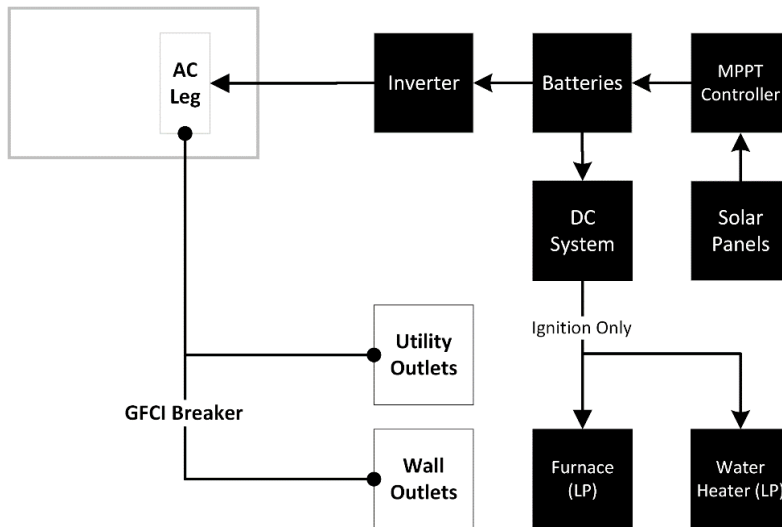


FIGURE 16: BATTERY POWER SCHEMATIC

INVERTER

An inverter takes in 12 Volt direct current and generates 120 Volt alternating current at 60Hz. In your Ember, the inverter powers all wall outlets. Your inverter has an automatic transfer switch that detects when shorepower is connected and automatically shuts off AC output.

Depending on your options, the output of your inverter may range from 1000 Watts to 3000 Watts or more. For most coaches the inverter is accessible via the pass-through storage. If you encounter problems with power, it is recommended that you first reset the inverter. For smaller inverters, this can be done by pressing the "reset" button on the back of the device. For Max Solar units, please consult the manufacturer instructions for your inverter.

BATTERY CUTOFF SWITCH

Your Battery cutoff switch prohibits your battery from passing DC current to the inverter. This shuts down all DC powered systems and inverted wall outlets when not connected to shore power. It does not:

- Prevent current from the solar panels from reaching the batteries
- Disconnect the Smart Jack



FIGURE 17:
WFCO
DOCUMENTATION

12-VOLT DIRECT CURRENT SYSTEM

Your DC system receives current from batteries or from AC current converted to DC current through the converter.

The following components operate off 12V DC:

- All lighting
- Awning
- Exhaust Fans
- Ignition coil and fan for the furnace
- Ignition coil for the water heater
- Inside Refrigerator
- Slide-out motors
- Smart Jack
- Water Pump

POWER CENTER

Your power center (or breaker box) is a multifunction electrical component that acts as a circuit panel, a voltage converter, and a battery charger. The power center is a black paneled box typically located beneath the refrigerator or in the pantry. On the inside panel of the power center are the breakers for the AC system and fuses for the DC system as well as a QR code for the Operators Manual. You are encouraged to review the operators manual via the WFCO product documentation site (Figure 17: WFCO Documentation) for additional information.



TO PREVENT FIRE, DO NOT COVER OR OBSTRUCT THE VENTILATION OPENING AS OVERHEATING MAY RESULT.

THIS POWER CENTER IS A ZERO CLEARANCE DESIGN AND THE ONLY MEANS OF VENTILATION IS THROUGH THE FRONT OPENING.



THIS PRODUCT IS TO BE ONLY SERVICED BY AN EXPERIENCED CERTIFIED TECHNICIAN. TO PREVENT SEVERE SHOCK OR ELECTROCUTION, CONSULT YOUR DEALER.

CONVERTER

The converter converts 120-volt AC power to 12-volt DC power when the shore power cord is connected to an external power source.

Key points on your converter:

- If the amp draw on the converter is greater than its maximum output, the converter will not shut off but will lower the output voltage. This could cause some appliances with undervoltage protection to malfunction or shut off completely.
- The secondary function of your converter is battery charging. Consult the Operators Manual for your converter for additional details.
- When a fuse is blown, a faint red LED adjacent to the fuse illuminates. Replace the fuse with an equivalent.
- If the converter is not functioning correctly, consult the troubleshooting guide located in the Operators Manual at the WFCO website.



FIGURE 18:
POWER CENTER

NOTICE

YOUR INTERNAL REFRIGERATOR IS THE MOST COMMON APPLIANCE WITH UNDERVOLTAGE PROTECTION. IF YOUR REFRIGERATOR IS NOT COOLING OR HAS SHUT OFF, TURN OFF ITEMS REQUIRING DC POWER.

CONVERTER INSPECTION AND MAINTENANCE

There are no customer serviceable parts inside the converter case and the manufacturer's warranty will be void if the case has been removed. If you require service, contact your dealer.

SOLAR POWER AND BATTERIES

Your solar power is provided by a multi-component system that is custom designed for off-grid camping. This owner's manual will not go into significant detail due to the complexity of these systems. It is very important that you thoroughly read the user manuals for these components prior to use. Quick start guides may also be included in your owner's packet.

SOLAR CONTROLLER

Your solar controller uses the Maximum Power Point Tracking (MPPT) technique to regulate the charge of your batteries. Further details are available in the User Manual.

CONTROLLER REMOTE

Your controller may come with a remote located in the pass-through storage area. This component provides quick access to details such as charge voltage, battery voltage, and charge current as well as system settings for the controller.



FIGURE 19:
AMP MPPT
CONTROLLER
MANUAL

BATTERIES

Your Ember RV may come equipped with an optional front gear box. This gear box provides space for aftermarket installation of a battery. To ensure compatibility with factory installed components, review the manuals for the controller and the power center prior to selecting a battery.

Your Ember RV may come equipped with a 270-amp hour lithium-ion battery. This is commonly located beneath the front bed or Murphy Sofa. In most units, this will be a dragonfly® energy Gamechanger.

Most modern batteries are equipped with a Battery Management System (BMS) that optimizes performance and charging. Familiarize yourself with your batteries. Some systems require additional power for heating in cold weather and may drain themselves even when the unit is not in use.

BATTERY CHARGING

When your unit is connected to shore power, the batteries are charged directly from the Power Center. When unplugged from shore power, the MPPT controller uses the solar panels for charging. Once fully charged, the MPPT Solar Charge Controller protects your battery from overcharging by limiting the current flow from your solar array.

The batteries receive charge even when the battery disconnect switch is in the off position. Please review the manual for your battery to determine the proper configuration and settings for charging.

Please see the manufacturer's instructions for maintenance and care of your batteries.



FIGURE 20:
GAMECHANGER
MANUALS



When storing your unit, be sure to review the storage instructions for your batteries. If not correctly configured for storage, some batteries will completely drain themselves especially during cold weather.



YOUR BATTERY SYSTEM RECEIVES CURRENT EVEN WHEN THE BATTERY DISCONNECT IS IN THE OFF POSITION.



IF YOUR UNIT HAS A LITHIUM-ION BATTERY INSTALLED INSIDE THE COACH, DO NOT REPLACE WITH A VENTED BATTERY. VENTED BATTERIES PRODUCE HYDROGEN GAS WHICH MAY RESULT IN AN EXPLOSION AND/OR FIRE WHICH MAY CAUSE DEATH OR SERIOUS INJURY.

SOLAR PANELS

Your Ember RV may come equipped with two 200 Watt Solar Panels. These provide current at 20V to the MPPT controller which steps the voltage down as necessary to charge the batteries. The solar panels do not provide battery charge when the unit is connected to shore power.

To optimize the output of your solar panels:

- Regularly clean according to manufacturer instructions. Dirt and grime reduce sun exposure and can reduce available power by up to 10%.
- Manage sun exposure. Even modest shade can seriously impact power output. Your panels operate best in direct sun but every degree over 77F causes a roughly 0.5% drop in power output.

SOLAR DOCKING PORT

The Solar Docking Port is standard equipment installed on the roof of your RV. It is designed for use with either an OEM or customer supplied Solar Power Charging System.

SOLAR ON THE SIDE

Your Ember comes equipped with a Solar on the Side™ pre-wired solar port. This permits you to connect various portable solar kits to your RV to provide an additional power source. The port is commonly located in the Plumbing Control Center or the pass-through storage. Please go to www.solarontheside.com for additional details.

EMBERLINK™ SMART SYSTEM

Your Ember RV is equipped with an EmberLink™ Smart System. The control panel for the smart system is located at the entrance to the coach. The panel and the systems it controls are powered by the DC electrical system.

To connect using Bluetooth, first download the EmberLink™ application from the Apple App Store or Google Play. Follow the instructions to pair the control panel with your phone.

Functions controlled:

- Slide-out deployment and retraction
- Awning deployment and retraction
- Internal and external lighting
- Holding tank monitoring
- Water pump



FIGURE 21:
EMBERLINK™
CONTROL PANEL

The EmberLink™ application may not be available in the Apple App Store or Google Play. If this is the case, use the LCI OneControl application which has similar functionality.

Propane System

OVERVIEW

The liquid petroleum (LP) gas system in your Ember RV provides the fuel for cooking, heating, and hot water is plumbed to the indoor stovetop and the outdoor griddle.

LP is a clean, efficient and safe form of energy when proper handling and safety precautions are observed. The gas is stored with extreme pressure in the tank, with space in the tank to allow for expansion into vapor. This vapor is reduced in pressure by passing through a regulator. This reduction in pressure is a two-step process which assures consistent pressure for use, regardless of outside temperatures, weather or altitude.

REGULATOR

LP gas is under high pressure in the tank. The purpose of the regulator is to reduce the pressure inside the tank to allow for safe use. A two-stage automatic regulator, most commonly used on dual tanks, offers the convenience of instant, automatic changeover from the empty to the full tank.

DO NOT adjust or repair the regulator. It is preset at the factory to certain specifications and should only be adjusted by a qualified propane service technician. To avoid potential problems, have your LP gas system checked at least once a year by an authorized service center and after each extended trip.



NEVER TEST FOR A LEAK BY LIGHTING A MATCH OR
HAVING AN OPEN FLAME WHERE YOU SUSPECT A LEAK.

REGULATOR FREEZE-UP

The term 'regulator freeze-up' is a misleading one. Regulators and LP gas do not freeze. However, the moisture that can be contained in the gas will freeze as the gas expands and cools passing through the regulator. This freezing of the moisture in the gas can build up and partially or totally block the passage of the gas through the regulator. Freezing can also occur when outside temperatures are low enough to contribute to the freezing of the moisture in the gas.

The source of the moisture is varied. It can occur at the refinery or gas bulk plant, in the cars used to transport the gas, or even within your own LP tanks. Moisture in an LP tank can occur when a tank service valve is left open, allowing moist air to enter, and become trapped.

A two-stage regulator helps reduce the possibility of freeze up because of its larger orifice size and that heat is being transferred through the walls of two regulators instead of only one.



Tips to help prevent regulator freeze-up:

- Make sure your LP tank is free of moisture before refilling.
- DO NOT overfill the LP tank.
- Be sure to keep the service valve on an empty tank closed.
- If freezing occurs, have your LP dealer purge the LP tank before refilling.
- Check with your dealer to determine what deicing agent is approved to add to the LP tank.
- Keep the regulator always covered.

NOTE: IF FREEZE-UP DOES OCCUR, SHUT THE LP GAS OFF AT THE TANK. A FROZEN REGULATOR MAY PERMIT LP GAS TO FLOW AT HIGH PRESSURE, RESULTING IN LEAKS AT APPLIANCES OR IN THE LINES. NEVER ATTEMPT TO THAW WITH AN OPEN FLAME. A SMALL LIGHT BULB CAN SOMETIMES BE USEFUL TO PROVIDE HEAT AND AID THE THAWING PROCESS. ONCE THAWED, BE SURE TO TAKE THE PROPER STEPS TO PREVENT A REOCCURENCE. HAVE THE SYSTEM CHECKED BY YOUR LP GAS SUPPLIER.

OTHER COLD WEATHER FACTORS

As outside temperatures drop, the BTU value of the LP gas is lessened. The colder liquid LP requires heat from the surrounding air to vaporize. This lowering of BTU value can significantly affect the performance of the system. Keeping your LP tanks as full as possible in cold weather and reviewing the BTU/hr rating plates on LP appliances will help ensure proper LP management.

LP PIGTAIL

The LP pigtail is a hose used to connect to the regulator on the tank through which the LP fuel flows. This safety feature is generally recognized by the large green nut that attaches to the outside of the valve on the regulator. It limits excessive gas flow and prevents gas from flowing unless the connection is tight.

NOTE: THE CONNECTION AT THE LP TANK WILL SHUT DOWN IN EXTREME HEAT (240°-300° FAHRENHEIT).

PROPANE GAS DETECTOR

One of the key safety features of your Ember RV is the propane gas and carbon monoxide detector located near the floor in the living area. Please read the owner's manual for operations and maintenance.



FIGURE 22:
LP/CO DETECTOR
OPERATOR'S
MANUAL

In the event of an alarm: If the detector senses the presence of LP gas, the light will turn from green to red, accompanied by constant beeps.



IN THE EVENT OF AN ALARM:

1. IMMEDIATELY EVACUATE ALL OCCUPANTS FROM THE RECREATIONAL VEHICLE.
2. SHUT OFF THE GAS SUPPLY AT THE TANK.
3. EXTINGUISH ANY OPEN FLAMES, PILOT LIGHTS AND ALL SMOKING MATERIAL.
4. TURN OFF YOUR GENERATOR.
5. DO NOT TOUCH ANY ELECTRICAL SWITCHES IN OR NEAR THE RV.
6. OPEN DOORS AND WINDOWS TO VENTILATE.
7. DO NOT USE THE RANGE HOOD OR OTHER POWER VENTS.
8. THE ALARM WILL CONTINUE TO SOUND IF LP GAS IS DETECTED OR UNTIL TURNED OFF.
9. CONTACT A QUALIFIED SERVICE TECHNICIAN FOR REPAIRS.
10. IF YOU CANNOT REACH A GAS SUPPLIER OR QUALIFIED SERVICE TECHNICIAN, CONTACT THE LOCAL FIRE DEPARTMENT.
11. HAVE THE LEAKAGE SOURCE CORRECTED BEFORE USING AGAIN.

FAILURE TO COMPLY COULD RESULT IN EXPLOSION RESULTING IN DEATH OR SERIOUS INJURY.

Conditions that could adversely affect your alarm:

- Exposure to water, splashes, spray, and condensation
- Excessive dust or grease
- Cleaning supplies, chemical sprays, and perfume products
- Do not paint the alarm. Paint can block air flow to the sensor
- Silicone adhesives including hair sprays
- Corrosive liquids such as acids
- Alkaline base metals, like salt spray
- High concentrations of Hydrogen
- Closed interior doors or other obstructions blocking gasses from reaching the alarm

MAINTAINING YOUR ALARM

Verify proper alarm function by pressing the Silence/Test button after storage, before every use and once per week during extended use. Vacuum the alarm with a soft brush attachment to remove dust monthly.

Plumbing System

There are two separate water systems equipped on your RV, the Fresh Water System and the Wastewater System. The Fresh Water System consists of the fresh water holding tank, freshwater connections, the Nautilus water management system, water heater, water pump, faucets, inside and outside shower, and/or water purification system. The Wastewater System consists of the wastewater holding tank, sewage holding tank, drains and toilet.

Check all fittings, pressure, and waste, for leaks before each trip or before vehicle storage as part of your normal maintenance. Inspect all faucets and sink connections including drain baskets or filters.

BEFORE each trip or vehicle storage, and as part of normal maintenance, inspect the following for leaks:

- ALL fittings on BOTH water systems.
- ALL faucet and sink connections (including drain baskets or filters).
- ALL water pump and water heater connections.
- At the end of each trip, ALWAYS completely drain your fresh water system.

DOCKING STATION

Your Ember RV is equipped with a docking station that consolidates several components of your plumbing system:

- The Nautilus Water Management System
- Outside shower fixture
- Tank valve controls for black and galley (fresh water) tanks
- Bypass control for the water heater



FIGURE 23:
DOCKING STATION

NAUTILUS WATER MANAGEMENT SYSTEM

Your Ember RV is equipped with a Nautilus water management system located in the pass-through storage area on the off-door side of the coach. Refer to the Nautilus User Instructions for details on performing the following:

1. Power-fill your fresh water tank for remote or dry camping.
2. Use your pump to supply water to fixtures from the fresh water tank.
3. Use your pump to siphon, fill or sanitize your fresh water tank from a bucket.
4. Connect to city water at the camping site to supply water to fixtures.
5. Winterize your plumbing lines and fixtures.
6. Rinse black tank to help control odors and prevent sewage buildup.



FIGURE 24:
NAUTILUS 2.5 USER
INSTRUCTIONS

FRESH WATER SYSTEM

FRESH WATER SYSTEM - FIRST USE

Your new RV may have been winterized, as indicated by temporary labels in the coach. Before first use, the system should be sanitized, even if it has NOT been winterized. Sanitizing the fresh water system will kill all bacteria and organisms that can contaminate your water supply.



SANITIZING THE FRESH WATER SYSTEM

Use the following procedures to sanitize your Fresh Water System (or Potable Water System) when it is new, becomes contaminated, or has not been used for a period of time.

- PREPARE a Chlorine Solution using one (1) gallon of water and one-quarter (1/4) cup of household bleach (5% Sodium Hypochlorite solution).
- PREPARE approximately one (1) gallon of solution for every fifteen (15) gallons of holding tank capacity.

To sanitize the fresh water tank & fresh water system:

1. Run a garden hose from the Winterize/Sanitize Connection on your Nautilus to the container with the chlorine solution.
2. Turn handles to "SANITIZE" position as shown.
3. TURN ON the water pump.
4. OPEN all faucet fixtures, allowing all the solution to pass through.
5. ALLOW the solution to stand for three (3) hours, then
 - DRAIN tank and FLUSH the system with fresh water.
 - BEFORE use, RUN plenty of water through the entire system.



To remove excessive chlorine odor or taste which may remain:

6. PREPARE a Vinegar Solution of one (1) quart vinegar to five (5) gallons water. Pour the Vinegar Solution into a container.
7. CONTINUE to fill the freshwater tank until full.
8. REPEAT steps 2-4 above.

Small amounts of contaminants and minerals are found in ALL water. They can sometimes cause your fresh water to have an odor. Usually, untreated well water is the source of water system odors.

FILLING THE FRESH WATER TANK

The fresh water tank can be pressure filled using the Nautilus Water Management System (Nautilus).

1. Connect a garden hose to inlet labeled "CITY WATER."
2. Turn handles to TANK FILL position as shown.
 - BLUE diverter handle should be facing down.
 - GREEN diverter handle should be facing left.
3. Connect to a pressurized water supply source and turn on.
4. Fresh water tank will begin to fill.
5. Turn off source when desired fill level is reached.
6. Disconnect source from Nautilus.

If you overfill your tank, you will see drainage begin from the fresh tank overflow hose beneath the coach. Overflow drainage can also occur when parking on an incline or when abruptly starting or stopping.



FIGURE 25:
FRESH TANK OVERFLOW HOSE

NOTICE

DO NOT CAP, BLOCK OR MODIFY THE FRESH WATER TANK OVERFLOW HOSE IN ANY WAY. THIS CAN RESULT IN SIGNIFICANT DAMAGE TO YOUR PLUMBING SYSTEM AND POSSIBLE WATER DAMAGE INSIDE THE COACH.

USING A PRESSURIZED WATER SOURCE

1. Connect a garden hose to inlet labeled "CITY WATER."
2. Turn handles to "CITY WATER" position.
 - BLUE diverter handle should be facing right.
 - GREEN diverter handle should be facing left.
3. Connect to a pressurized water supply source and turn on.



NOTICE

YOU ARE ENCOURAGED TO USE A PRESSURE REGULATOR WHEN CONNECTED TO AN EXTERNAL WATER SOURCE. PRESSURES ABOVE 60 PSI MAY CAUSE LEAKS AND/OR DAMAGE TO YOUR PLUMBING SYSTEM.

EXTERIOR SPRAY PORTS

Quick-connect spray ports are installed on both sides of your Ember. The spray port at the docking station is configured for both hot and cold water. Single port connections only use cold water. Both can be used for washing / rinsing outside your RV.

To use spray ports:

1. Attach the supplied quick-connect hose and sprayer to your spray port.
2. If using the hot/cold port, CHECK that the Water Heater is turned ON and allow sufficient time for the water to heat.
3. If dry camping, TURN ON the 12-volt Water Pump.
4. Adjust to the desired temperature.
5. Drain the hose before storage.

DRAINING THE FRESH WATER SYSTEM

The low-point drain valves release water in the supply lines by opening the valves and all faucets. The water heater has its own drain plug. To drain the permanent fresh water holding tank and supply lines:

1. OPEN all faucets.
2. OPEN the Fresh Water Holding Tank Gate Valve.
This is the white T-handle located under the RV, close to the axles.
3. OPEN the valves on the red and blue low point drains.
4. DRAIN the sink.
5. Turn ON the water pump and allow it to run as needed.
6. OPEN all water heater bypass valves.

WATER HEATER

NOTE: This owners manual is written for a standard water heater. If your unit is equipped with the Truma AquaGo Instant Water Heater, please consult the Truma AquaGo website for operating instructions, troubleshooting instructions, and other important documentation.

The on/off switch that permits you to select for Electric or LP is located adjacent to the EmberLink™ control panel. Other locations could be the bedroom or the pass-through storage. An on/off switch is also located on the water heater.

Your Water Heater operates off both 110 VAC and LP Gas. It is commonly located in the forward space adjacent to the pass-through storage. An access panel is present on the outside of the coach that also includes the Flue Assembly.

Read all safety and operating information in the Water Heater Operations Manual before activating the water heater.

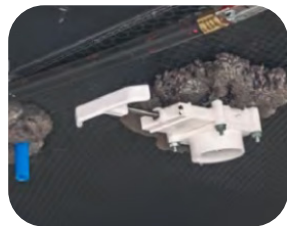


FIGURE 26:
FRESH WATER HOLDING
TANK GATE VALVE



FIGURE 27:
HOT AND COLD LOW
POINT DRAINS



FIGURE 28:
TRUMA AQUA GO



FIGURE 29:
DOMETIC WATER
HEATER MANUALS

Important topics to review:

- Safety warnings regarding burns, scalding hazards, carbon monoxide, and explosion hazards
- Gas/Electric Function
- Location of Components
- Clearing a water heater operation failure
- Shutting down the water heater
- Advanced Maintenance and care
- Performing preventative maintenance
- Electric ignition module cleaning
- Maintaining the water heater tank
- Re-establish the thermal expansion pocket
- Flushing the water heater tank
- Flushing to remove unpleasant odor
- Servicing the P/T Relief Valve

BASIC MAINTENANCE AND CARE

1. Have the gas pressure tested periodically. The pressure should be set at 11 in. (27.94 cm) of water column with three appliances running.
2. Drain the Water Heater at regular intervals (at least one time during the year).
3. Drain the Water Heater before storing the RV for the winter or when the possibility of freezing exists.
4. Keep the vent and combustion air grill clear of any obstructions.
5. Periodically check the main burner flame.



WHEN PERFORMING ANY MAINTENANCE OR CARE, SHUT OFF THE GAS SUPPLY AT THE LP CONTAINER BEFORE DISCONNECTING A GAS LINE. KEEP THE CONTROL COMPARTMENT CLEAN AND FREE OF GASOLINE, COMBUSTIBLE MATERIAL AND ANY FLAMMABLE LIQUIDS AND VAPORS. FAILURE TO OBEY THESE WARNINGS COULD RESULT IN A FIRE OR EXPLOSION THAT COULD RESULT IN SERIOUS INJURY OR DEATH.



IF WATER HEATER HAS NOT BEEN USED FOR MORE THAN TWO WEEKS, HYDROGEN GAS MAY FORM IN THE WATER LINE. UNDER THESE CONDITIONS, TO REDUCE THE RISK OF INJURY, OPEN THE HOT WATER FAUCET FOR SEVERAL MINUTES AT THE KITCHEN SINK BEFORE YOU USE ANY ELECTRICAL APPLIANCE CONNECTED TO HOT WATER SYSTEM. IF HYDROGEN GAS IS PRESENT, YOU WILL PROBABLY HEAR SOUNDS LIKE AIR ESCAPING THROUGH THE PIPE AS WATER BEGINS TO FLOW. FAILURE TO OBEY THIS WARNING COULD RESULT IN DEATH OR SERIOUS INJURY.

WATER PUMP

The water pump for the unit provides between 40 and 50 psi of pressure to your plumbing system. Your water pump is designed only for intermittent use and is not intended to be left on for extended periods of time. In some cases, your pump may exhibit “cycling” or repeated on/off cycles. This is commonly not indicative of a malfunctioning pump but can be caused by a variety of factors such as air trapped in the water lines. If cycling occurs, it is highly recommended that you turn off the pump to permit the condition to self-correct.

NOTICE

YOUR WATER PUMP IS DESIGNED FOR INTERMITTENT USE ONLY. FAILURE TO TURN OFF THE PUMP WHEN NOT IN USE MAY RESULT IN EXCESSIVE WEAR AND EARLY FAILURE.

MONITORING TANK STATUS

The EmberLink™ panel mounted at the entrance to the RV allows you to monitor the fill status of the freshwater, greywater, and blackwater tanks. The monitor panel operates on 12V DC power supplied by either the converter or auxiliary battery. Sensors installed in the holding tanks connect to a resistor assembly relaying an electronic message to the display.

HOLDING TANK SENSOR PROBLEMS

Sometimes the status lights for a holding tank may show erroneous readings, for example: showing a full tank when the tank has just been drained. In these cases, it is recommended that you flush the tank using the black tank or grey tank flush functionality provided by your Nautilus water management system. If this does not fix the problem, consider contacting the dealer to service or replace the sensors.



NOTICE

NEVER PUSH THE CHECK VALVE ON “CITY WATER” CONNECTION WITH PRESSURE IN LINE. THIS WILL CAUSE IRREPARABLE DAMAGE TO THE CHECK VALVE FUNCTION.

THE LAVATORY

SHOWERMISER

Your Ember RV comes equipped with a Showermi\$er water conservation system for boon docking or dry camping scenarios. Please read the manufacturer's user guide for instructions on use and care. The Showermi\$er, when in use, empties into the freshwater tank. This conserves water but, if left unattended, can rapidly deplete the reservoir in your water heater.

SHOWER MAINTENANCE

The shower walls in your Ember are made of a rigid plastic. Use a mild detergent and warm water to clean. DO NOT use gritty or abrasive particle soaps or scouring compounds. These may cause scratches or scuffing.

BATHROOM SKYLIGHT

The bathroom skylight may occasionally develop water droplets between the inner and outer pieces. This is due to the high humidity commonly found in lavatories. To eliminate the droplets, carefully remove the inner panel of the skylight, wipe the inner and outer pieces dry with a fine cloth, and reinstall.

TOILET

The toilet is efficient and easy to operate. Generally, more water is required only when flushing solids. Prior to using the sanitation system, it is strongly recommended to flush the toilet several times to release sufficient water into the holding tank. If there is not a sufficient amount of water used during flushing, the waste materials may not evacuate properly from the drain line to the tank. Clogged tanks and pipes could eventually occur.

The toilet system will perform better when water is run for ten to fifteen seconds after flushing to ensure that the waste will proceed to the bottom of the tank. Unlike a toilet in a home, which uses 4 to 7 gallons (18-32 liters) of water per flush, the average recreation vehicle system uses 1 to 3 quarts (1-3 liters). For added convenience and better sanitation system performance, it is advisable to always have 4 to 6 inches (10-15 cm) of water in the toilet.

To prevent toilet blockage, always use RV grade single-ply toilet paper. Do not flush paper towels, diapers, sanitary napkins or other foreign objects down the RV toilet.

TOILET MAINTENANCE

The toilet should be cleaned regularly for maximum sanitation and operational efficiency. Do not use chlorine (undiluted) or caustic chemicals, such as laundry bleach or drain opening types in the toilet system. These products damage the seals in toilets and dump valves.

WASTEWATER SYSTEM

Your wastewater system consists of a gray water (galley) tank for sink and shower run off and a waste water (black) tank for toilet waste. Gray and Black pull levers in the docking station allow you to open the drain valves for each tank.

BLACK & GRAY WATER HOLDING TANKS

Adding a RV holding tank deodorizer (customer supplied) will help break down tank contents and control odors.

Before the first use and after dumping the holding tanks (unless you are winterizing your RV):

- RELEASE one to two quarts (1-2 liters) of water into the toilet bowl.
- ADD the tank deodorizer (customer supplied) to your black water tank per the packaging instructions.
- FLUSH the toilet and allow at least two gallons (8 liters) of water to flow into the holding tank.

GRAY WATER (WASTEWATER) TANK

No special preparation is required. If needed, control odors from the gray water system by adding a small quantity of baking soda or RV holding tank deodorizer down the sink or shower drain.

RINSING AND DRAINING THE BLACK TANK

1. Connect a flexible sewer hose to the dump outlet on the unit. Note: your sewer hose can be stored in your rear bumper.
2. Place the other end of the sewer hose into an approved dump station.
3. Pull the lever to open the wastewater tank. Leave open.
4. Attach a garden hose to the Nautilus inlet labeled "TANK FLUSH."
5. Connect to a pressurized water source and activate flow. Water pressure must be greater than 40 psi to effectively rinse the tank.
6. Flush tank until water appears clear in the sewer hose.
7. Turn off and disconnect the water hose from the Nautilus.
8. Close the wastewater valve at the docking station.
9. Disconnect sewer hose and store.



EMPTYING THE BLACK AND GRAY WATER TANKS

The black tank and gray tank drain valves are opened from the docking station.

Key points:

- ALWAYS drain the black water holding tank FIRST.
- THEN, drain the gray tank wastewater to help rinse any solids from the sewer outlet and hose.
- Driving to a disposal site will normally loosen any accumulated waste solids from the sides of the holding tanks.

Use the following steps to drain your tanks:

1. To make drainage easier, level the RV.
 - LOCATE the Sewer Outlet Connection.
 - REMOVE the sewer hose housing dust cap and ATTACH your sewer hose (customer supplied).
2. PLACE the other end of the sewer hose into the approved dump station.
3. OPEN the Black Tank Dump Valve by carefully pulling it out towards you (CLOSE it by pushing it shut when the black water holding tank is emptied).
4. EMPTY each gray water holding tank (one at a time).
5. OPEN the 1st Gray Tank dump valve.
6. CLOSE the valve after the tank has drained.
7. REPEAT for the 2nd Gray Tank.
8. REMOVE, CLEAN and STORE the sewer hose.
9. CLOSE the sewer hose housing dust cap.

When connected to a (campground) sewer drain:

- Keep the Black Tank Drain Valve CLOSED until the holding tank is at least $\frac{3}{4}$ full. This should provide enough water to completely drain the holding tank.
- DO NOT leave the Black Tank Drain in the OPEN position.

VENTS & VENT PIPES

For the plumbing system to drain properly, the vents and vent pipes must release air from the gray and black water holding tanks. Your vent pipes are located on the roof of your coach. Always keep the exterior vent cap on the roof clear of any obstructions.

Warranty, Repair, and Service

GENERAL CARE AND MAINTENANCE

Regular care and maintenance of your Ember RV is essential in furthering safety and dependability. Keep good records of all service and maintenance performed on your Ember RV. These records may be necessary for limited warranty purposes or may assist in future repairs. Always refer to the manufacturers' care and maintenance recommendations for installed appliances.

CLEANING THE INTERIOR

Performing regular maintenance and cleaning with the proper materials and procedures is key to the longevity and value of your RV. Using the wrong cleaner may result in damage to the surfaces in your RV. Check each component manufacturer's information for the recommended cleaning agent or test a small area to see if the cleaner will cause any damage. You can also contact your Ember dealer for guidance. Do not use flammable liquids or sprays to clean the inside of your RV.

EXTERIOR FINISH

Ember RV's exterior uses durable, easy to maintain laminated composite panels. Proper maintenance can help lessen wear over time. Cosmetic marks are possible with laminated walls and do not constitute a fault in material or defect in workmanship. Routine maintenance is the best way to minimize and guard against cosmetic changes due to weathering. Wash the exterior with a soft cloth, warm water, and soap thoroughly, paying particular attention to the graphics. Never use strong solvents or abrasives when cleaning. Also, be aware that power buffers and high-pressure washers may damage or remove the graphics.

See also the following summary of do's and don'ts:

- Do use soft cloths to clean.
- Do be careful around graphics, washing with the graphics, not against them.
- Do not use products containing ammonia or caustic, harsh cleaning agents.
- Do not use high-pressure washers, rotating brushes (i.e., in-car wash facilities), or power buffers.
- Do not dry wipe surfaces.
- Do not use rubbing compounds.

FRAME AND CHASSIS

Over time, various weather and climate conditions may lead to corrosion of your Ember frame and chassis. Remember to inspect for evidence of rust routinely. Be sure to rinse the unit's undercarriage, wheel wells, hitch, and bumper of all dirt, oil, tar, salt, and other debris periodically and as needed. Rinse frequently when camping in or near coastal regions to avoid salt corrosion.

HITCH COUPLERS

Inspect hitch couplers before each trip. Clean and lubricate the ball socket and clamp monthly using wheel bearing grease. If hitch assembly and coupler appear damaged in any way, contact your dealer, and resolve the problem before travel.

SAFETY CHAINS

Inspect safety chains before each trip. Replace them before traveling if they are damaged or compromised in any way.

JACKS

Inspect and test the jacks before each trip. Clean and lightly apply oil periodically and as needed. If your jack needs repair or other services, see a qualified technician.

TIRES AND WHEELS

Inspect your tires, checking air pressure regularly and before each trip. Keep them inflated to recommended pressure located on the tire sidewall. Keep a tire gauge in your tow vehicle or unit. The tires should be rotated by a qualified technician at least every 5,000 miles.

BRAKE ADJUSTMENT

You should have your electric brakes adjusted after the first 200 miles. Test the brake drag every three months or 3,000 miles, whichever is earlier. When adjusting brakes on any vehicle, either replace or adjust all brakes at the same time or at least both brakes on the same axle. Qualified service personnel should perform all necessary work on brakes.

SEALANTS

Inspect all sealants/seals (i.e., doors, windows, plumbing components, undercarriage) every ninety (90) days, when the seasons change, and before each trip. During your inspection, look for cracks, voids, shrinkage, and any other sign of deterioration. Replace sealant where necessary, using the same type of sealant. Contact your dealer or Ember RV for suggestions concerning replacement sealants.

CEILING, INTERIOR WALLS, COUNTERTOP, TABLETOPS

Clean with soap or other mild, non-abrasive cleaner, warm water, and a damp cloth. Do not use harsh chemicals when cleaning. Avoid using abrasive pads and scouring powders, which may dull surfaces and increase exposure to future staining. Take care to limit water/moisture exposure to the ceiling and walls when cleaning, as it may cause damage. Thoroughly dry the ceiling and walls after cleaning.

Remember to use a chopping block or cutting board when using knives on the countertop. Pots and pans straight from the burner or oven should be placed on lined hot pads and not directly on the counter surface.

FAUCETS AND FIXTURES

Use only a damp soft cloth or sponge to clean. Do not use abrasive cleaners or materials, as they may damage the finish.

FABRIC AND UPHOLSTERY

Use only a damp soft cloth or sponge to clean. Do not use abrasive cleaners or materials as they may damage the finish. Water-based cleaners are best for vinyl upholstery as solvents may have an adverse reaction to the specific backing of the upholstery fabric. Blot the spot but do not rub or saturate the area.

OWNER RESPONSIBILITIES

LEAKING

If you find a fixture is leaking, turn off the water and clean the area. Check fittings and look for loose connections. Reduce indoor humidity and ventilate to aid in the drying process. Ember RVs contain 5-sided aluminum frame construction, so there is no wood in the structure of the unit to damage. However, if the issue continues, please contact your dealer as soon as possible.

MOLD

Mold grows naturally given certain environmental conditions and is not covered by the terms of the limited warranties. Mold can be found almost anywhere and can grow on wood, paper, carpet, and foods. While Ember's composite walls, flooring and rooftop minimize the occurrence of mold, it is important to properly ventilate your unit and wipe up any condensation, standing water, or moisture in your unit.

WARRANTY REGISTRATION AND CHANGE OF ADDRESS

Your Ember RV has components, appliances, and accessories with printed materials that the individual component manufacturers have provided. These materials are in your owner's packet. As these warranties are separate from Ember's warranties it is imperative to fill out and return the product registrations.

To enable Ember RV to contact you with important product safety updates, please make sure your warranty registration information is up to date. Additionally, if you do sell and transfer your limited Ember structure warranty, it is imperative that Ember have the updated information. Please send any updates to warranty@emberrv.com.

Required Maintenance Schedule

MAINTENANCE ITEM	Every Trip	Monthly	Every 3 Months	Every 6 Months	Annually	Before/After Storage	As Required	PROCEDURE TO BE PERFORMED: Maintenance schedules are minimum requirements. Extended use, extreme temperatures, high humidity, or other extreme conditions will require more frequent maintenance.
Appliances		X			X	X		Check settings & adjust per manufactureres guide Make sure burner tubes/vents are clean/unobstructed Clean & sanitize
Awning(s)					X	X		Wash with warm water & mild detergent Clean & lube moving parts w/WD40
Axles/Suspension					X	X		Check U-bolts, springs & hangers for damage Check torque - all bolts (see axle MFG guide for specs)
Baggage Doors		X		X		X		Confirm that doors seal tight and are not leaking Spray lock tumblers with graphite
Brakes/Wheel Hubs					X		X	Check amp draw/shoe wear/adjustment (see MFG specs) Lube bearings (as needed)
Electrical System	X		X		X	X		Check and service batteries Test all GFI outlets Service generator (if equipped) per MFG manual
Entry Door(s)	X			X		X		Make sure door latches & locks function properly Lube hinges w/light oil or WD40 (or comparable) Adjust screen door latch
Entry Steps				X		X		Clean and lubricate (lithium spray)
Exterior Fiberglass/Metal			X			X		Wash with warm water & mild detergent Apply non-abrasive wax (except on decals)
Exterior Moldings			X			X		Inspect sealant for voids/gaps/cracks and reseal
Frame/Underbelly					X	X		Check for damage, loose wires, debris, ect. and clean Check frame for rust and touch up if necessary
Hitch/Coupler					X	X		Check for damage & wear - clean & lubricate (grease)
LP System					X			Have system tested for leaks by qualified dealer Have pressure & regulator settings checked by dealer
Plumbing System			X		X	X		Check hoses, fittings, pipes for leaks - tighten as req. Lubricate termination gate valve cables (WD40 or lithium grease) Winterize system (cold weather locations)
Roof & Roof Attachments			X			X		Inspect for sealant voids/gaps/cracks and reseal Clean roof with water & mild detergent Clean and lube roof vent mechanisms w/light oil
Safety Equipment	X			X		X		Check operation of detectors - R&R batteries every 6 months if equipped Test & check fire exstinguisher for proper charge Test & confirm egress (exit) windows function properly
Slide Rooms			X		X	X		Check slide roof for debris - clear Check and clean all seals
Wheels & Tires	X		X			X		Check wheel lugs for proper torque Inspect tire for wear/damage/ect. Check tire inflation pressure (see tire label for pressures)

Winterizing and Storage

Properly winterizing and storing your RV is important to its longevity and value of your Ember RV. Please read through the following tips carefully so you fully understand how to best store your RV.

WINTERIZING YOUR RV

It is necessary to winterize the water system in your RV when storing it for periods of freezing weather, in an unheated environment. If proper winterization steps are not taken, damage to water system components will result and will not be covered by the warranty.



NEVER USE AUTOMOTIVE ANTIFREEZE IN YOUR FRESH WATER SYSTEM. AUTOMOTIVE ANTIFREEZE IS TOXIC AND NOT FOR USE IN POTABLE (DRINKABLE) WATER SYSTEMS.

Purchase 4-6 gallons of RV approved, non-toxic antifreeze.

1. Drain all tanks, fresh water and sewage tanks.
2. Turn water heater bypass valve to 'bypass' position.
3. Drain the water heater.
4. If you have a water filter system installed, remove the filter from the assembly and discard. (You will need to purchase a new one and install it when dewinterizing your unit).
5. Fill the tank above minimum water pump operation level with the RV antifreeze. (Use of a long funnel may be helpful.)
6. Turn the pump switch 'ON' and open the cold water side of all faucet fixtures. Leave the faucets open until the antifreeze, (generally pink in color), flows out of the faucets. Repeat for the hot water side.
7. Flush toilet until antifreeze is visible inside the bowl and pour one gallon of antifreeze down the toilet to winterize the black holding tank.
8. Pour antifreeze down each shower/tub, lavatory sink and kitchen sink to fill p-traps.
9. To winterize gray tank(s), pour one gallon down each related sink drain.

DEWINTERIZING YOUR RV



DO NOT ATTEMPT TO TURN ON THE WATER HEATER OR USE THE PLUMBING SYSTEM ONCE THE SYSTEM HAS BEEN WINTERIZED. DEWINTERIZE THE WATER SYSTEM, FLUSH AND SANITIZE PRIOR TO USE.

1. Drain all holding tanks – fresh water and sewage.
2. Attach garden hose to fresh water fill and fill tank.
3. Turn 'ON' pump switch and open cold water side of all faucet/shower fixtures. Leave open until the water runs clear, (no pink residue). Repeat for the hot water side.
4. Flush toilet until clear water runs into bowl.
5. Dump tanks again.
6. Sanitize the water system.
7. If a water filter has been installed, drain the lines, remove the assembly, clean and install using a new filter.
8. When ready to use the water heater, turn the bypass valve to open position to allow water to enter and fill the hot water heater tank.

STORING YOUR RV

1. Park your RV on a level surface.
2. Winterize the chassis as outlined in the chassis owner's manual.
3. Clean your RV thoroughly inside and out as previously explained in this manual.
4. Turn off all electrical switches, appliances, and components.
5. Close all shades to protect the interior from sun fade.
6. Securely close all windows, doors, and vents. Cover exterior appliance vents to prevent any moisture and insects from getting in during storage.
7. It is recommended that you check on your RV periodically while in storage to be sure no leaks have developed, and condensation has not formed. This could cause damage to the interior components of your RV. To reduce the risk of condensation, regularly air out the RV during storage.
8. Be sure that the batteries have the proper electrolyte level and that they are fully charged to avoid damage to the battery while in storage.
9. Be sure the tires are inflated to the correct pressure and check periodically.
10. Keep the roof free from snow and ice.
11. Winterize the water systems and protect exterior hoses and lines from freezing.
12. Follow all component manufacturers' instruction manuals found in the Owner's Packet for proper winterization and storage of each component.

Serial Number, VIN, Decals

A vehicle data card is supplied with your Ember RV listing manufacturer, model, and serial number information for major factory installed appliances and equipment. The VIN (vehicle identification number) label is mounted on the A-frame of the travel trailer. The VIN is also on the Federal Certification label located on the off-door side under the front corner. This information is useful to you in the event of theft, vandalism, or disaster. Certain service functions may also require it.

DECIPHERING THE VIN

DIGIT LOCATION	FUNCTION	KEY
1st, 2nd, 3rd	World Manufacturers Identification (WMI) – Assigned by SAE	7RV 7 = United States of America RV = Ember RV
4th	Trailer to towing vehicle connection type. Trailer Make is always Ember Recreational Vehicles, INC. Trailer Body Type is always Enclosed Travel Trailer.	T = Ball Type Pull F = Fifth Wheel C = Others
5th	Model Designator	V = Overland Series T = Touring Edition
6th	Number of Axles	1 = 1 Axle 2 = 2 Axles
7th, 8th	Length of the RV	Length in feet – always two digits. If less than 10 feet, a zero will be used for the first digit.
9th	Check Digit	Calculated. See 49 CFR 565.15 (c)
10th	Model Year	M = 2021 T = 2026 1 = 2031 6 = 2036 N = 2022 V = 2027 2 = 2032 7 = 2037 P = 2023 W = 2028 3 = 2033 8 = 2038 R = 2024 X = 2029 4 = 2034 9 = 2039 S = 2025 Y = 2030 5 = 2035
11th	Plant Location	1 = Plant 1, Bristol, Indiana
12th – 17th	Serial Number	Sequential six-digit serial number

Decals and data plates placed throughout the RV aid in its safe and efficient operation, while others give service instructions. Read all decals, data, and instruction plates before operating your recreational vehicle. If any decal, data, or instruction plate is damaged, painted over, or removed, it should be replaced.

Warranty

OBTAINING WARRANTY SERVICE

Service must be obtained within a reasonable time after discovery of the defect, but prior to the applicable warranty expiration period. To help ensure your dealer provides the level of service you expect, here are some suggestions:

CALL AHEAD

Do not wait until you are ready to use your RV, as your dealer may not be able to schedule it in immediately. Generally, your dealer's service department is busiest on Mondays, Fridays, and before the holidays.

BE PREPARED

Have your warranty paperwork available, and provide the service center with any past repair history as it may assist the dealer technician in diagnosing the current issue.

MAKE A LIST

Provide a written list of repairs needed in specific order of priority, and be reasonable with repair expectations. If you need your RV returned by a specific time, discuss the situation with the dealer's service management, as a second appointment may be necessary for work not completed or parts that may need ordered.

WHILE WAITING

Drop your RV off if possible. Do not be surprised if you are told that you cannot watch work being done: Some insurance requirements forbid admission of customers to the service area.

INSPECT THE WORK PERFORMED

After a repair is performed, inspect it thoroughly. Notify the dealer's service management immediately of any dissatisfaction. If you cannot return your RV immediately for repair, make an appointment as soon as possible. In the event the issue should re-occur after you have left the dealership, contact the repair center and Ember RV Ownership Experience department as soon as possible so the situation can be resolved expediently.

OBTAINING EMERGENCY WARRANTY REPAIR

A roadside emergency can happen at any time whether your RV is new or old. If you are traveling, using the following guidelines can help get you back on the road faster.

1. Use the "Dealer Locator" on our website to locate the nearest authorized repair center.
2. If you cannot locate an authorized dealer near you, ask the campground staff for referrals, or check the local telephone Yellow Pages. You can also contact the Ember Ownership Experience department or your selling dealer for assistance in locating a repair facility.

SERVICE & WARRANTY

1. Contact the RV repair facility to discuss your situation and make an appointment. Ask how their billing will be handled. They may choose to bill Ember directly; otherwise, you are expected to pay them.
2. Have the RV repair facility inspect your RV. Either they or you **MUST** call the Ember Ownership Experience department to discuss applicable warranty coverage prior to any repair work being performed.
3. The Ember Ownership Experience department will issue an authorization number upon warranty repair approval and advise if any original parts must be returned.
4. After the authorization number has been issued, the repair center may begin actual repair on your RV.
5. Inspect the completed repair work thoroughly. If you are not satisfied, communicate that to the RV repair facility management. Make sure you are satisfied with the repair before you pay or leave the premises.
6. For reimbursement, either you or the RV repair facility must send a copy of your itemized repair bill and all requested return parts by UPS (UPS Ground, freight pre-paid) to Ember within 60-days of the completed repair date. To expedite processing your warranty claim, include your name, address, phone number, RV 17-digit VIN, and authorization number. If returning parts, include a copy of your freight bill.
7. Ember does not reimburse for any travel time or service calls for repairs either from the owner going to the facility or a mobile tech traveling to the unit.
8. Ember is not responsible for lost time, hotel accommodations, or lost wages due to unit repairs.
9. The defective parts may require return prior to payment for work.

OBTAINING WEEKEND OR AFTER BUSINESS HOURS EMERGENCY REPAIR ASSISTANCE

If an authorized Ember dealer is not located nearby, contact your selling dealer for assistance. If your dealer is closed, check with the campground staff or telephone Yellow Pages for an RV repair facility. Have the item repaired and contact the Ember Ownership Experience department immediately the following business day.

AN IMPORTANT NOTE ABOUT ALTERATIONS AND WARRANTIES

Installations or alterations to the original equipment vehicle as distributed by Ember are not covered by the Limited Base and Structural Warranties. **The special body company, assembler, equipment installer, or upfitter is solely responsible for warranties on the body or equipment and any alterations (or any effect of the alterations) to any of the parts, components, systems, or assemblies installed by Ember.** Ember is not responsible for the safety or quality of design features, materials, or workmanship of any alterations by such suppliers.

HAVE THE FOLLOWING AVAILABLE WHEN YOU CALL:

- Your name, location, and a phone number where you can be reached
- Your RV 17-digit VIN
- Date of purchase
- Contact information for the RV repair facility or dealer
- Detailed description of the concern
- If applicable, the component description, serial, and model numbers

OWNER AID

We know it's frustrating when your unit needs serviced. It is reasonable to expect that some service work is needed during the warranty period. We've outlined steps below to assist in minimizing down time and reducing your inconvenience.

VERIFY THE ISSUE

Every RV operates a little differently. It can be extremely frustrating taking time and effort to bring your unit into a repair facility only to be told it's an operator issue or normal condition. If you're not sure if the issue is warrantable, please review this owner's manual for the component in question. You can also contact the manufacturer of the component in question. Finally, you can reach out to Ember for direction, and we can walk you through your issues.

DO IT YOURSELF

During your warranty you can always take your unit to a dealer, you also may have the option to make repairs yourself. If you need to replace components such as trim, blinds, drawer guides, etc, we may be able to assist and send parts directly to you. Use common sense: your safety and comfort working on RV repairs is priority. Not all parts are able to ship direct.

If it is a safety related item, we cannot ship parts and the unit must receive warranty from an authorized Ember dealer or licensed service center approved by Ember.

WRITE IT DOWN

When making an appointment, have a complete list ready to go through with the dealer. Identify what occurred, when it occurs, and how the RV was being used at the time it occurred. The more detailed information you provide up front, the better chance the dealer can address your concerns timely and accurately.

PART LEAD TIMES

Many of the parts required to repair your unit will be in stock at our factory. However, some parts may need to be special order and need to be manufactured, extending lead times. In this instance, we recommend getting all other repairs completed and then taking your RV to use until the special parts come in. You can then return for final repairs. This allows you to keep camping rather than waiting for parts.

INSPECT REPAIRS

Your Dealer and Ember both want you to be happy with whatever repairs you receive. Take time to go through your list and verify all repairs are complete to your satisfaction before leaving the dealership. If an issue should reoccur after you have left the dealership, contact the dealer as soon as possible.

USE YOUR UNIT AS INTENDED

Ember planned and built your RV with appropriate materials, appliances, and components for recreational travel and family camping. If you use your RV for anything other than recreational travel and family camping, you may shorten the life of your soft goods, appliances, and other components, and more frequent maintenance may be required. Using your unit for anything other than recreational usage may void the warranty.

The 1-2-3 Limited Warranty

This document contains important information regarding your limited warranties. You should read this document very closely prior to your purchase.

IMPORTANT DEFINITIONS

As used herein, the following definitions apply:

- **LIMITED BASE WARRANTY** means the Two (2) Year Limited Base Warranty set forth herein.
- **DEFECT** means the failure of the workmanship performed and/or materials used to conform with the design and manufacturing specifications and tolerances of Ember.
- **DAMAGE** is caused by such things as collision, misuse, or lack of maintenance that occurs after the RV is delivered to the owner.
- **EMBER** means Ember Recreational Vehicles, Inc.
- **STRUCTURAL** means the RV's (i) main steel frame and steel support members (outriggers and cross members) (ii) laminated exterior sidewalls, including fiberglass, and wall studs (iii) floors, laminated or non-laminated, including decking and floor joists (iv) roofs, laminated or non-laminated, including decking, roof rafters, and roof material installation (v) fiberglass cap(s) including paint application, and windshield installation, if applicable (this structural warranty item does not cover damages to the cap(s) such as impact, rock chips, dents, scratches, or failure to maintain all as addressed in the disclaimers below and elsewhere in this Owner's Manual), and (vi) slide-out box exterior sidewalls/end walls/roofs/floors, skeletal framing, decking, and roof material installation.
- **LIMITED STRUCTURAL WARRANTY** means the Three (3) Year Limited Structural Warranty set forth herein.

WHAT IS A 1-2-3 LIMITED WARRANTY AND HOW TO OBTAIN WARRANTY SERVICE

Ember Recreational Vehicles, Inc., ("Ember") provides a 1-2-3 Limited Warranty with this recreational vehicle ("RV"). Simply stated, one (1) time, Ember's Two (2) Year Limited Base Warranty and Ember's Three (3) Year Limited Structural Warranty may be transferred to a subsequent retail purchaser within the first year of ownership. Each Limited Warranty is separate from the other.

Below you will find what is covered under the Limited Warranties, what is not covered under the Limited Warranties, and what Ember will do if a defect exists.

To obtain service, please contact your dealer where you purchased the Ember RV for warranty service. If you encounter any difficulty obtaining warranty service, please contact Ember's Ownership Experience Department at:

EMBER RECREATIONAL VEHICLES, INC.

Attn: Ownership Experience Department
PO Box 970
Bristol, Indiana 46507
Tel: +1 (844) 732-4204
Email: warranty@emberrv.com

EMBER'S TWO (2) YEAR LIMITED BASE WARRANTY

Ember's Limited Base Warranty covers this RV for a period of **two (2) years** from the date of purchase by the first retail owner. The Limited Base Warranty covers defects in materials and workmanship supplied by and attributable to Ember's manufacturing and assembly of the RV. This Limited Base Warranty does not cover the items excluded under the section entitled **"What is Not Covered By the Ember Limited Warranties."**

The LIMITED BASE WARRANTY will expire on the second-year anniversary date from the date of the first retail purchase.

NO EXTENSION TO FUTURE PERFORMANCE: THIS LIMITED BASE WARRANTY DOES NOT EXTEND TO FUTURE PERFORMANCE AND ONLY SETS FORTH WHAT EMBER WILL DO IF A DEFECT EXISTS DURING THE TWO (2) YEAR WARRANTY PERIOD. Ember is not responsible for any promises, obligations, service agreement, or warranty beyond what is expressly set forth in this Limited Base Warranty.

LIMITATIONS AND DISCLAIMERS: THE LIMITED BASE WARRANTY IS PROVIDED EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF EMBER. IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IF ANY, GIVEN BY LAW, WILL BE LIMITED TO AND DO NOT EXTEND BEYOND THE SCOPE OF COVERAGE AND DO NOT EXTEND BEYOND THE DURATION OF THE ABOVE WRITTEN TWO-YEAR LIMITED BASE WARRANTY. ORAL STATEMENTS ABOUT THE RV OR STATEMENTS CONTAINED IN ANY ADVERTISING, PAMPHLETS, OR BROCHURES DO NOT CONSTITUTE WARRANTIES AND DO NOT MODIFY THIS WARRANTY IN ANY WAY.

EMBER WILL NOT BE RESPONSIBLE OR LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND OR NATURE THAT RESULT FROM ANY DEFECT IN THE RECREATIONAL VEHICLE. THE DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES IS NOT DEPENDENT UPON THE LIMITED BASE WARRANTY FULFILLING ITS ESSENTIAL PURPOSE. EMBER'S AGGREGATE LIABILITY UNDER THIS WARRANTY TO BUYER, OWNER, AND ANY THIRD PARTY AND BUYER, OWNER'S AND ANY THIRD PARTY'S EXCLUSIVE REMEDY AGAINST EMBER WILL BE REPAIR, REPLACEMENT, OR REFUND AS SET FORTH HEREIN.

SOME STATES DO NOT ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS OR ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSIONS MAY NOT APPLY TO YOU.

ONE TIME TRANSFERABILITY: This Two (2) Year Limited Base Warranty may be transferred one (1) time by the first retail purchaser to a subsequent retail purchaser within the first year of first retail purchaser's ownership. The Two (2) Year Limited Base Warranty does not extend beyond the two (2) year coverage period. After the second retail purchaser purchases the RV, the second retail purchaser must, to receive the unexpired balance of the Limited Base Warranty coverage as described above, provide Ember your VIN, name, address, phone, and email address (proof of purchase may be requested) by phone at +1 (844) 732-4204 or by email at warranty@emberv.com.

EMBER'S THREE (3) YEAR LIMITED STRUCTURAL WARRANTY

The Ember Limited Structural Warranty covers this RV for a period of **three (3) years** from the date of purchase by the first retail owner. This Limited Structural Warranty covers defects in materials and workmanship supplied by and attributable to Ember's manufacturing and assembly of the "structural" (as defined below) portions of the RV, when the RV is used solely for its intended purposes of recreational camping. This Limited Structural Warranty does not cover the items excluded under the section **"What is Not Covered Under the Ember Limited Warranties."** The Limited Structural Warranty will expire on the third-year anniversary date from the date of the first retail purchase.

NO EXTENSION TO FUTURE PERFORMANCE: THIS LIMITED STRUCTURAL WARRANTY DOES NOT EXTEND TO FUTURE PERFORMANCE AND ONLY SETS FORTH WHAT EMBER WILL DO IF A DEFECT EXISTS DURING THE THREE (3) YEAR WARRANTY PERIOD. Ember is not responsible for any promises, obligations, service agreement, or warranty beyond what is expressly set forth in this Limited Structural Warranty.

LIMITATIONS AND DISCLAIMERS: THE THREE (3) YEAR LIMITED STRUCTURAL WARRANTY IS PROVIDED EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE, AND IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF EMBER. IMPLIED WARRANTIES, INCLUDING THE IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, IF ANY, GIVEN BY LAW, WILL BE LIMITED TO AND DO NOT EXTEND BEYOND THE SCOPE OF COVERAGE AND DO NOT EXTEND BEYOND THE DURATION OF THE ABOVE WRITTEN THREE (3) YEAR LIMITED STRUCTURAL WARRANTY PERIOD. ORAL STATEMENTS ABOUT THE RV OR STATEMENTS CONTAINED IN ANY ADVERTISING, PAMPHLETS, BROCHURES DO NOT CONSTITUTE WARRANTIES AND DO NOT MODIFY THIS WARRANTY IN ANY WAY.

EMBER WILL NOT BE RESPONSIBLE OR LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND OR NATURE THAT RESULT FROM ANY DEFECT IN THE RECREATIONAL VEHICLE. THE DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES IS NOT DEPENDENT UPON THE LIMITED STRUCTURAL WARRANTY FULFILLING ITS ESSENTIAL PURPOSE. EMBER'S AGGREGATE LIABILITY UNDER THIS WARRANTY TO BUYER, OWNER, AND ANY THIRD PARTY AND BUYER, OWNER'S AND ANY THIRD PARTY'S EXCLUSIVE REMEDY AGAINST EMBER WILL BE REPAIR, REPLACEMENT, OR REFUND AS SET FORTH HEREIN.

SOME STATES DO NOT ALLOW LIMITATIONS OF HOW LONG AN IMPLIED WARRANTY LASTS OR ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATION OR EXCLUSIONS MAY NOT APPLY TO YOU.

ONE TIME TRANSFERABILITY: This Three (3) Year Limited Structural Warranty may be transferred one (1) time by the first retail purchaser to a subsequent retail purchaser within the first year of first retail purchaser's ownership. The Limited Structural Warranty does not extend beyond the three (3) year coverage period. After the second retail purchaser purchases the RV, the second retail purchaser must, to receive the unexpired balance of the Limited Structural Warranty coverage as described above, provide Ember your VIN, name, address, phone, and email address (proof of purchase may be requested) by phone at +1 (844) 732-4204 or by email at warranty@emberv.com.

PROVISIONS APPLICABLE TO BOTH LIMITED WARRANTIES

REMEDIES

Primary Remedy: If within the stated Limited Warranty periods as set forth above a defect in materials or workmanship is found to exist that is not excluded from coverage, whether under the Two (2) Year Limited Base Warranty or the Three (3) Year Limited Structural Warranty, your primary remedy shall be the repair of the defect.

Secondary Remedy: If the defect cannot be repaired, after receiving a reasonable opportunity to repair and after a reasonable number of repair attempts, Ember may, at its option, either (i) pay you the diminution in value damages, or (ii) provide a similar replacement recreational vehicle, less a reasonable allowance for the owner's or prior owner's use of the original RV. Ember RV must fail to provide you with the primary remedy or the secondary remedy before you can sue Ember for breach of contract or the breach of any express or implied warranty.

The discretionary performance of repairs to those portions of your RV excluded from coverage or outside of the stated coverage periods are "good will" repairs and do not alter the obligations imposed by the Limited Base and Limited Structural warranties.

WHAT IS NOT COVERED BY THE EMBER LIMITED WARRANTIES

The Limited Base and Limited Structural Warranties Do Not Apply To:

- Any owner of the RV that is not the original consumer purchaser or permitted one time transferee as set forth in the Limited Warranties.
- Recreational vehicles that are not originally purchased through an authorized dealer.
- Recreational vehicles purchased through auction, repossession, salvage, or an otherwise damaged or distressed condition.
- Recreational vehicles used for business, rental, residential, commercial, or disaster relief purposes, or any purposes other than recreational use in travel and camping.
- Recreational vehicles licensed, registered, or primarily used outside the United States and Canada.
- Equipment, products, components, appliances, or accessories not manufactured or installed by Ember.
- Routine maintenance including, without limitation, caulking, re-caulking, and waxing of the body of the RV, tightening screws, brake squeak/lock-up/adjustment, latches, locks, combustion systems, changing fuses, or light bulbs, and maintaining the air conditioning and heating systems.

- Adjustments to all doors, drawers, locks, latches, slide-outs, awnings, and window treatments beyond 90 days after retail sale.
- Fading or die lot changes of fabrics or carpet or cosmetic issues with the roof material(s) or its installation.
- Design defects; redesign/re-construction of any part of the RV.
- Anything related to wheel or axle alignment.
- Rust or corrosion due to the environment.
- Any broken glass damages.
- Water leaks or related consequential damages that (1) are a result of improper maintenance or (2) arise after the Two (2) Year Limited Base Warranty expires (water leaks are only covered under the base warranty and not the structural warranty).
- Any injury, loss, or damage due to mold or fungi.
- Damage or loss caused in whole or in part by (1) the misuse, abuse, neglect, theft, vandalism, product modification, improper customer or dealer installation, improper stowing of equipment, overloading or improper balancing of the load, low or high voltage, unauthorized repair or failure to follow instructions supplied with the recreational vehicle; (2) the unauthorized attachments, modifications or alterations to the structure, body, or frame of the RV including but not limited to trailer hitches for towing, or platforms for supporting cargo; (3) animals, exposure to natural or atmospheric elements, corrosive chemicals, ash or fumes generated or released by vehicles, collision, road hazards, rock chips, condensation, or any other source; impact, rock chips, dents, scratches, or failure to maintain (4) the willful or negligent acts of the driver of the vehicle pulling the RV, an accident involving the RV, or the condition of any road surface; or (5) the tow vehicle selected by the owner, owner's operation or use of the tow vehicle, improper selection or installation of towing hitch on tow vehicle, weight distribution, sway control or equalizer equipment, or damage to the owner's tow vehicle;
- Acts of God or any other circumstances or occurrences beyond Ember's control.

APPLIANCE AND COMPONENT MANUFACTURER WARRANTIES AND ADMINISTRATION

Appliance and component manufacturer warranties, if any, are separate from the above Ember Limited Warranties. Ember administers the separate appliance and component warranties only during the Ember Two (2) Year Limited Base Warranty coverage period, except for tires, batteries, generators, and any supplied electronics (those items are not only excluded, but Ember does not administer those components' separate warranties). All warranty service claims on components must therefore be directed during the Two (2)

Year Limited Base Warranty coverage period to Ember through an authorized Ember dealer or service center. After the Ember Two (2) Year Limited Base Warranty coverage period expires, all appliance and component warranty claims must be directed to the respective appliance and component manufacturers. **Ember does not warrant any appliances or components and Ember's Limited Warranties shall not be construed, modified, or amended by this provision to include warranties of appliances or components.**

LEGAL REMEDIES

ANY ACTION FOR BREACH OF CONTRACT, BREACH OF ANY WARRANTY, OR TO ENFORCE ANY PORTION OF THE LIMITED BASE OR LIMITED STRUCTURAL WARRANTIES, OR ANY IMPLIED WARRANTY, MUST BE COMMENCED WITHIN SIX (6) MONTHS AFTER EXPIRATION OF THE ABOVE STATED RESPECTIVE LIMITED WARRANTY PERIODS OR THE ACTION WILL BE BARRED BECAUSE OF THE PASSAGE OF TIME. ANY PERFORMANCE OF REPAIRS WILL NOT SUSPEND THIS LIMITATION PERIOD FROM EXPIRING OR EXTEND THIS LIMITATION PERIOD.

SOME STATES ALSO DO NOT ALLOW THE REDUCTION IN THE STATUTE OF LIMITATIONS, SO THIS PROVISION MAY NOT APPLY TO YOU.

EXCLUSIVE JURISDICTION FOR DECIDING LEGAL DISPUTES RELATING TO AN ALLEGED BREACH OF CONTRACT, BREACH OF WARRANTY, OR REPRESENTATIONS OF ANY NATURE MUST BE FILED IN INDIANA, WITHOUT REGARD TO CONFLICT OF LAW OR CHOICE OF LAW PRINCIPLES. ALSO, THE ABOVE LIMITED WARRANTIES WILL BE INTERPRETED AND CONSTRUED IN ACCORDANCE WITH THE LAWS OF THE STATE OF INDIANA. ANY AND ALL CLAIMS, CONTROVERSIES, AND CAUSES OF ACTION ARISING OUT OF OR RELATING TO AN ALLEGED BREACH OF CONTRACT OR THE ABOVE LIMITED WARRANTIES, WHETHER SOUNDING IN CONTRACT, TORT OR STATUTE, WILL BE GOVERNED BY THE LAWS OF THE STATE OF INDIANA, INCLUDING ITS STATUTE OF LIMITATIONS, WITHOUT GIVING EFFECT TO ANY CONFLICT OF LAW RULE THAT WOULD RESULT IN THE APPLICATION OF THE LAWS OF A DIFFERENT JURISDICTION.

THE ABOVE LIMITED WARRANTIES GIVE YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VARY FROM STATE TO STATE.

Accepting Delivery

There is one form the dealer will complete concerning your new recreational vehicle, the PDI (Pre-Delivery Inspection sheet)/Warranty Registration form. If you do not have a copy in your Owner's Packet, request a copy of this form for your records. It is an important part of the history of your RV. A qualified dealer representative will perform a 'walk-through' demonstration, which will provide you with important information regarding the operation of your unit. Be sure you fully understand the information given and the proper functioning of your unit to ensure you have the best camping experience possible. Your dealer will fully explain all the system functions and will supply component information for items used in the manufacture of your recreational vehicle.

DEFECT HOTLINE – NHTSA (REPORTING SAFETY DEFECTS)

UNITED STATES

If you believe 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 Ember Recreational Vehicles.

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 Ember Recreational Vehicles.

To contact NHTSA, you may call the Vehicle Safety Hotline toll-free at 1-888-327-4236 (TTY: 1-800-424-9153); go to www.nhtsa.gov; or write to: Administrator, NHTSA, 1200 New Jersey Ave. SE, Washington, DC 20590. You can also obtain other information about motor vehicle safety from www.nhtsa.gov.

CANADA

If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately contact the Motor Vehicle Safety Enforcement Division of Transport Canada and Ember Recreational Vehicles.

To contact Transport Canada, call the Road Safety and Motor Vehicle Registration Directorate toll-free at 1-800-333-0510 (or 1-819-994-3328 if calling from the Gatineau-Ottawa Region or Internationally); go to www.tc.canada.ca; or write to: Motor Vehicle Safety Enforcement, Transport Canada, 330 Sparks Street, Ottawa, Ontario K1A 0N5.





We're Ember. It's time to **glow.**

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