BOUNDLESS

RECREATION

BUILT WITHOUT COMPROMISE



OWNER'S MANUAL

SAFETY | OPERATION | MAINTENANCE | WARRANTY

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WELCOME TO BOUNDLESS RECREATION!

Dear Valued Customer,

Welcome to the family, and congratulations on your new RV! We are honored that you chose us to be part of your journey, and we look forward to supporting you every mile ahead.

Our commitment to you is that every Boundless RV is thoughtfully crafted with precision, care, and a deep commitment to quality. Because each unit is built with attention to detail and premium materials, we stand firmly behind our work—and that's where your Owner's Guide comes in.

This guide is designed to give you a clear understanding of your coverage, along with helpful information on proper use of components of the RV, maintenance, service procedures, and what to expect should you ever need support. Inside, you'll find:

- An overview of your warranty coverage
- Instructions for obtaining service
- Authorized Dealer and Owner responsibilities
- Important contact information for our support team
- Overview of systems
- Proper operation of systems and components of your RV

We encourage you to take a ample time to review the guide and keep it accessible for future reference. Proper care and routine maintenance will ensure your RV continues to perform beautifully for years to come.

Should you have any questions at all—whether about your warranty, features of your RV, or planning your first adventure, the Boundless Care Team is always here to help!

Thank you again for trusting us. We wish you unforgettable journeys, peaceful getaways, and countless memories on the road ahead.

Warm regards,

The Boundless Recreation Team

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SECTION 1: INTRODUCTION

About This Manual

This Owner's manual is intended to guide you through proper use and maintenance of your new Boundless Recreation RV. Familiarizing yourself with this manual will help you better understand how to use your RV and will also help maximize your ownership experience.

Please understand that this manual is not intended to be inclusive of every aspect of the operation of the RV. The separate component manuals should be reviewed thoroughly to understand each component in your RV. Some of the options, features, and components in this manual may not pertain to your RV as Boundless Recreation does offer optional features that may not be included in all RVs.

Because RV adventures are filled with numerous scenarios, Boundless Recreation may not be able to address every scenario within this manual. Many options for your adventure are personal, and we cannot possibly provide all the information required to ensure your safety during towing, transportation, or camping.

Ultimately, you are responsible for the safe use, operation, and transportation of your RV.

Should you ever encounter situations where you have questions related to the safe use or operation of your RV, please contact the Boundless Care Team for assistance. We are ready to provide you with guidance related to your specific adventure.

Boundless Recreation is committed to providing the best RV that we can build and we are also committed to improving the products that we build as new features are introduced in the industry. Because of this dedication, some features and specifications on your RV may be different than depicted in photos, components, systems, and diagrams in this manual.

At the time that this manual was produced, all information included is accurate but is subject to change at any time without notice. You can access the most up to date version of the Owner's Manual on our website at www.boundlessrecreation.com.

Please note that this manual does not create any warranty, expressed or implied, and may not cover every detail of the equipment installed on your RV.

Contact Information:

Email: Care@boundlessrecreation.com
Phone: 888-278-0060
Address: Boundless Recreation
Attn: Boundless Care
705 Maple Street
Bristol, IN

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Customer Information Packet

Please note that certain components of your RV may not be covered under the RV warranty or may be warranted separately by their individual manufacturers. The Customer Information Packet includes the RV Warranty Guide along with manuals, information sheets, warranty cards, and registrations provided by component manufacturers.

Before Using Your RV, it is vital you read all documents within the Owner's Information Package. Your safety is important to us, and we want you to have the best possible experience with your Boundless Recreation RV.

Register and activate your component warranties within the required time frame to avoid loss of warranty coverage. Please note that there are some component manufacturers who provide additional warranties beyond that of the Boundless Recreation Limited Base and Structural Warranties. Please See the separate Warranty Guide for additional details.

Safety

We have provided many important safety messages in this manual. We encourage you to read and obey all safety messages in this manual and posted in your RV.

Terms and Symbols

DANGER, WARNING, CAUTION, NOTICE, and IMPORTANT NOTE symbols will be used throughout this manual to help identify areas of interest that concern your safety. Please see below for explanations of each of these symbols.



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



WARNING indicates a potentially hazardous situation that, if not avoided, may 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.



When you see this symbol, we are pointing out important information regarding maintenance or proper use of something on your RV.

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Vehicle Identification Number

Boundless Recreation Vehicles have a unique 17-digit Vehicle Identification Number (VIN). You can locate your VIN on the Federal Certification Label located toward the front of the RV on the off-door (driver) side. The following table identifies each digit location in the VIN and the function of the digit.

VIN POSITION	DESCRIPTION	CHARACTER	VALUE OF CHARACTER
123	WMI – SAE World Indicator	730	Boundless Recreation, LLC
4	Make and Model of the Trailer	B	Boundless Recreation
5	Trailer Type	A B	Travel Trailer – Bumper Pull Fifth Wheel
6 & 7	Trailer Length	XX	Value indicates length in feet
8	Axle Configuration	1 2 3	1 Axle 2 Axles 3 Axles
9	Check Digit	Calculated	
10	Model Year	R S T V W	2024 2025 2026 2027 2028
11	Manufacturing Location	1	Bristol, IN
12 Thru 17	Sequential Production Serial Number		Six Digit Serial Number

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Reporting Safety Defects

In The United States:

If you believe that your recreational vehicle has a defect which could cause a crash or cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA), and Boundless Recreation.

If the National Highway Traffic Safety Administration (NHTSA) receives similar complaints, they may open an investigation. If they determine that a safety defect exists in other vehicles, a recall and remedy campaign may be ordered. NHTSA does not become involved in individual cases between you, your dealer or Boundless Recreation.

To Contact NHTSA:

Website:	www.safercar.gov
Address:	NHTSA Headquarters Attn: Administrator 1200 New Jersey Avenue, SE Washington DC 20590
Hotline:	888-327-4236
Toll Free:	800-424-9153

In Canada:

If you believe that your recreational vehicle has a defect which could cause a crash or cause injury or death, you should immediately inform Transport Canada's Defect Investigations and Recalls Division, and Boundless Recreation.

To Contact Transport Canada:

Website:	www.tc.gc.ca
Address:	Transport Canada - ASFAD 330 Sparks Street Ottawa ON K1A 0N5 Canada
Toll Free:	800-333-0510

If you are calling internationally or from the Gatineau-Ottawa area, please call 819-994-3328.

SECTION 2: WARRANTY AND SERVICE

Obtaining Warranty Service

Boundless Recreation has made every effort to provide you with an RV that will live up to your expectations and beyond. Despite our efforts in delivering a trouble-free RV, it is reasonable to expect that your RV will encounter some issues during your ownership of the RV. Besides focusing on the quality of the build of the RV, we are fully committing our effort to providing the best ownership experience in the industry. This means that when you believe that you have an issue with your RV that needs attention, Boundless Care should be your first contact. Together, we may find that we can satisfy your needs with a simple phone call, but we also may find that you need assistance by getting your unit to your nearest authorized Boundless Recreation dealer or service provider for repairs. Please see the Boundless Recreation Limited Warranty for steps in obtaining warranty service.

Our intention is to utilize all avenues of repair of any manufacturing or material defects to keep you moving and enjoying your RV. If you feel comfortable making repairs on your own, we can also support that. This is an avenue that would need our approval and possibly our guidance, so it is important that you contact Boundless Care prior to making repairs on your own. Also, if a warrantable defect is discovered by speaking with a Boundless Care team member, we can provide parts to you at no charge to make such repairs. Returning old parts may be necessary, in which case, we would be able to supply you with part return instructions. Mechanical, electrical, gas, hydraulic, and appliances may not be able to be approved in this manner due to potential safety concerns.

Here are a few things to keep in mind when contacting Boundless Care for assistance:

1. Please make contact at the time of, or shortly after a suspected defect is discovered.
2. Please have the following information available
    a. Name
    b. Date of Purchase
    c. VIN
    d. Detailed explanation of the problem and any trouble shooting that you have performed
3. Parts lead times can vary greatly depending on the part and the supplier of that part. Please make sure that you notify our Care Team promptly so that we can do everything possible to keep you enjoying your Boundless RV.

4. We always would prefer that an authorized dealer or service center would perform the repairs so that we can make sure the repairs are inspected properly; however, we do realize that this is not always the best scenario for time's sake.
5. If we decide to send you to an authorized dealer or servicer and you have complications in getting repairs completed, please contact Boundless Care so that we can intervene in the process to make sure repairs are completed timely.
6. Mobile Servicers may also be an option that we can utilize to better serve you in given situations. Generally, mobile servicers are not set up directly with Boundless Recreation and may require some processes that differ from an authorized servicer or selling dealer. If a mobile service tech is required for your situation or if that is the best repair option, the following may apply:
    A. Boundless Recreation does not normally cover the service call fees associated with mobile servicers.
    B. It is the Owner's responsibility to make sure that all suspected issues are accessible for the mobile technician to make repairs.
    C. Boundless Recreation will need to authorize any repair that is attempted by a mobile servicer.
    D. Many mobile service providers will expect payment at the time of services provided. It may be required that you pay the servicer and seek re-imbursement from Boundless Care following the repairs.

Aftermarket Alterations and Installations

Boundless Recreation does not cover any aftermarket alterations or installations under its limited warranties. In most cases, alterations or additional material installations will void warranties associated with the RV or with the components that could be affected by the alteration or modification. The sole responsibility of warranty on such an alteration will be held by the parties that performed the modification. Boundless Recreation is not responsible for the safety or the quality of the modifications performed nor its related parts, materials, or workmanship.

Updating Owner Contact Information

Updating contact information and new owner information is vital. In the event the RV was stolen, totaled, destroyed, has changed ownership, or personal contact information has been changed, Boundless Care should be notified right away. It is required by federal law that Boundless Recreation maintain and keep records of products and Boundless Recreation RV owners. These records ensure we can promptly reach out to current owners in the event of a Recall, Service Campaign, or other necessary customer notification.

Extended or Third-Party Warranties

Boundless Recreation does not offer any warranties outside of those outlined in the limited warranties on the following pages. Any extended or third-party warranties obtained in connection with the purchase of a Boundless Recreation RV is the product of an outside organization. All questions related to such warranties must be directed to the provider of those warranties.

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Boundless Recreation, LLC - Warranty and Care

Section I: 2-Year Base Limited Warranty Coverage

This Limited Warranty covers only those recreational vehicles ("RV") manufactured by Boundless Recreation, LLC, which are sold in, and that remain in the United States, U.S. Territories, and Canada by an authorized Boundless Recreation Dealer ("Dealer").

Boundless Recreation, LLC ("manufacturer") provides a Two (2) Year ("Warranty Period") Limited Warranty pertaining to certain defects in materials or workmanship for the RV that may arise from normal use to the original Retail Consumer ("Owner") of the RV for the duration of the Warranty Period. This warranty covers only those material components and parts manufactured by Boundless Recreation. Please refer to Section III of this document for limitations and exclusions of this warranty.

Boundless Recreation's obligation to repair or replace defective materials or workmanship is the sole obligation of the manufacturer in accordance with this limited warranty. The manufacturer reserves the right to use new or remanufactured parts of similar quality to complete warrantable repairs. The manufacturer reserves the right to make parts and design changes to its products at any time without notice. The manufacturer is not obligated to incorporate such changes on any product that has been manufactured on a prior date with such changes.

The Boundless Recreation Limited Warranties are the sole remedy for any defect in the RV that does not result in injury or damage to property other than the RV.

The Warranty Period will begin immediately upon purchase of the RV to the Owner.

FOR THIS WARRANTY TO BE APPLICABLE TO THE OWNER, A WARRANTY REGISTARTION MUST BE COMPLETED AND VERIFIED BY THE MANUFACTURER OF THE RV WITHIN THE DESIGNATED REGISTRATION TIME FRAME. TRANSFER OF THIS WARRANTY FROM THE ORIGINAL OWNER MAY ONLY OCCUR UPON UPDATED REGISTRATION INFORMATION BEING COMPLETED AND VERIFIED BY THE MANUFACTURER AND WILL REMAIN LIMITED TO THE WARRANTY PERIOD FROM THE ORIGINAL OWNER PURCHASE DATE AND THE ORIGINAL TWO (2) YEAR LIMITED WARRANTY EXPIRATION DATE.

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Section II: 5-Year Limited Structural Warranty Coverage

This Limited Structural Warranty covers only those recreational vehicles ("RV") manufactured by Boundless Recreation, LLC, which are sold in, and that remain in the United States, U.S. Territories, and Canada by an authorized Boundless Recreation Dealer ("Dealer")

Boundless Recreation, LLC ("manufacturer") provides a Five (5) Year ("Warranty Period") Limited Warranty pertaining to substantial structural defects in materials or workmanship that may arise from normal use to the original Retail Consumer ("Owner") of the RV for the duration of the Warranty Period. This warranty covers only those material components and parts manufactured by, supplied by, or that are attributable to Boundless Recreation and the structure of the RV.

The Structure of the RV includes; the frame of the RV and all of its outriggers and cross members; exterior sidewalls, including fiberglass and wall studs; floors including floor decking and floor joists; roof, including roof decking and roof rafters and the installation of those materials; slide-outs including sidewalls, floors, roof decking, floor decking, and framing of such, and installation of those components. Please refer to Section III of this document for limitations and exclusions of this warranty.

The Limited Structural Warranty is separate from the Base Limited Warranty and will expire 5 years from the date the RV was purchased by the Owner.

This Limited Warranty is the sole remedy for any defect in the RV that does not result in injury or damage to property other than the RV.

The Warranty Period will begin immediately upon purchase of the RV by the Owner.

FOR THIS WARRANTY TO BE APPLICABLE TO THE OWNER, A WARRANTY REGISTARTION MUST BE COMPLETED AND VERIFIED BY THE MANUFACTURER OF THE RV WITHIN THE DESIGNATED REGISTRATION TIME FRAME. TRANSFER OF THIS WARRANTY FROM THE ORIGINAL OWNER MAY ONLY OCCUR UPON UPDATED REGISTRATION INFORMATION BEING COMPLETED AND VERIFIED BY THE MANUFACTURER AND WILL REMAIN LIMITED TO THE WARRANTY PERIOD FROM THE ORIGINAL OWNER PURCHASE DATE AND THE ORIGINAL FIVE (5) YEAR LIMITED WARRANTY EXPIRATION DATE.

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Section III: Limitations and Exclusions of Warranty

BOUNDLESS RECREATION MAKES NO WARRANTY OF ANY NATURE BEYOND THAT CONTAINED IN THIS LIMITED WARRANTY. THE MANUFACTURER DOES NOT AUTHORIZE ANY PERSON TO CREATE ANY OTHER OBLIGATION REGARDING THIS RV AND IS NOT RESPONSIBLE FOR ANY REPRESENTATION MADE BY OTHERS BEYOND WHAT IS EXPRESSLY STATED IN THIS WARRANTY.

THE LIMITED WARRANTY IS PROVIDED EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSE, WHETHER EXPRESS OR IMPLIED BY LAW, COURSE OF DEALING, COURSE OF PERFORMANCE, USAGE OF TRADE OR OTHERWISE, AND IN LIEU OF ALL OTHER OBLIGATIONS OR LIABILITIES ON THE PART OF BOUNDLESS RECREATION. IMPLIED WARRANTIES, INCLUDING IMPLIED WARRANTY OF MERCHANTABILITY OR WARRANTY OF FITNESS FOR A PARTICULAR PURPOSE, IN ANY, GIVEN BY LAW, WILL BE LIMITED TO AND NOT EXTEND BEYOND THE SCOPE OF COVERAGE AND BEYOND THE DURATION OF THE ABOVE TWO (2) YEAR LIMITED WARRANTY.

IN NO EVENT SHALL THE MANUFACTURER BE RESPONSIBLE OR LIABLE FOR ANY LOSS OF USE, REVENUE, PROFIT, OR FOR ANY INCIDENTAL, CONSEQUENTIAL, INDIRECT, SPECIAL, EXEMPLARY, OR PUNITIVE DAMAGES OF ANY KIND OR NATURE THAT RESULT FROM ANY DEFECT IN THE RV REGARDLESS OF WHETHER SUCH DAMAGES WERE FORESEEABLE. THE DISCLAIMER OF CONSEQUENTIAL DAMAGES IS NOT DEPENDENT UPON THE LIMITED WARRANTY FULFILLING ITS ESSENTIAL PURPOSE.

This Limited Warranty does not cover the following:

1. Defects in materials, components or parts of the RV not attributable to Boundless Recreation, LLC.
2. Items that are added or changed after the RV leaves the possession of Boundless Recreation.
3. Additional equipment or accessories installed at any dealership, or other place of business, or by any other party other than Boundless Recreation.
4. Any RV sold or used outside the United States, U.S. Territories or Canada.
5. Any RV purchased through auction or wholesale.
6. Any RV purchased from a dealer that is not an authorized dealer of Boundless Recreation.
7. Any defect arising from excess weight placed on the Structural Components.
8. Normal wear, tear or usage, such as tears, punctures, soiling, mildew, fading, or discoloration of exterior plastic or fiberglass, or soft goods, such as upholstery, drapes, carpet, vinyl, screens, cushions, mattresses and fabrics.
9. The effects of condensation or moisture from condensation inside or outside the RV.

10. Mold or any damage caused by mold to the inside or outside of the RV.
11. Imperfections that do not affect the suitability of the RV for its intended purpose of recreational use or items that are working as designed but that you are unhappy with.
12. Exterior paint or finish.
13. Problems, including water leaks, related to misuse, mishandling, neglect or abuse, including failure to maintain the RV in accordance with the owner's manual, or other routine maintenance such as inspections, lubricating, adjustments, tightening of screws and fittings, tightening of lug nuts, sealing, rotating tires.
14. Damage due to accident, whether foreseeable, including any acts of weather.
15. Damage, rust, or corrosion due to the environment, theft, vandalism, fire, or other intervening acts not attributable to Boundless Recreation.
16. Damage caused by unregulated water pressure, tank over fill, or plumbing system modifications resulting in flooding of the vehicle.
17. Failure of the original retail purchaser or others to follow ordinary maintenance procedures as recommended by Boundless Recreation.
18. Damage caused by unprotected electrical hook-ups (home or campground), power surges, lightning, circuit overload, or electrical system modifications.
19. Damage resulting from tire wear or tire failure.
20. Defacing, scratches, dents, chips on any surface or fabric of the RV; damage caused by infestation by insects or animals.
21. Damage caused by off-road use, overloading the RV or alteration of the RV, or any of its components or parts.
22. Wheel alignment or adjustments to axles when caused by improper maintenance, loading or damage from road hazards, including off road travel, wheel damage or balancing or damage from tire failures.
23. Any costs associated with obtaining service, including by way of example, travel costs, are specifically excluded from the coverage of this warranty.
24. Any component, system, or part of the RV that is warranted by another entity, including, by way of example, handling, braking, wheel balance, tires, tubes, batteries, gauges, generator, awning, hydraulic jacks, inverter, converter, microwave, television, DVD/ CD player, radio, speakers, television, refrigerator, range, hot water heater, water pump, stove, carbon monoxide detector, smoke detector, propane detector, furnace or any air conditioner. The written warranty provided by any manufacturer of the component part is the direct responsibility of that manufacturer. Defects and/or damage to interior and exterior surfaces, trim, upholstery and other appearance items may occur at the factory. These items are usually detected and corrected at the factory or by the selling dealer prior to delivery to the retail customer. You must inspect your RV for this type of damage when you take delivery. If

you find any such defect or damage, you must notify the selling dealer at time of delivery to have these items covered by this limited warranty and to have work performed on the items at no cost to you as provided by this limited warranty.

Section IV: Events Discharging Obligation Under This Warranty

Certain things completely discharge Boundless Recreation from any obligation under these warranties. By way of example, the following shall discharge Boundless Recreation from any express or implied warranty obligation to repair or replace any defect that results from: misuse or negligent use, abuse, accident, neglect, unauthorized alteration, failure to provide reasonable and necessary maintenance including reasonable periodic inspections of the recreational vehicle.

Section V: Obtaining Warranty Services from Boundless Recreation

Owners should find it normal to require the need for a reasonable amount of warranty during the warranty period. To obtain warranty services from Boundless Recreation the following must occur:

1. The RV must be in the stated warranty period in this limited warranty (2 years from original purchase date for base warranty, 5 years for structural warranty)
2. The party seeking Warranty Services from Boundless Recreation or an Authorized Dealer of Boundless Recreation must be the registered Owner of the RV.
3. Within thirty (30) days of the discovery of a defect that Owner believes is attributable to Boundless Recreation, Boundless Recreation or an Authorized Dealer of Boundless Recreation must be notified of the alleged defect.
4. The defect must be a material or workmanship defect to the RV or its component parts. Only the RV and its components are covered in this warranty.
5. Following the notification of the alleged defect, the RV must be transported by the Owner to one of the following:
    a. The original Authorized Selling Dealer of the RV
    b. If authorized by Boundless Recreation; another Authorized Selling Dealer of Boundless Recreation Products
    c. An Authorized non-selling RV repair center; only with permission from Boundless Recreation
    d. In certain cases, Boundless Recreation reserves the right for the Owner to utilize a mobile technician for warranty services. This scenario will be limited based on the nature of the defect and the course of repair of said defect.
6. The authorized repair facility chosen will then submit proper warranty documentation and repairs will commence only upon approval from Boundless Recreation and its warranty agents.

NOTE: ALL COSTS ASSOCIATED WITH TRANSPORTING THE RV FOR ANY AND ALL WARRANTY SERVICES ARE THE SOLE RESPONSIBILITY OF THE OWNER OF THE RV.

Section VI: Authorized Boundless Recreation Dealer Responsibilities

Prior to, and at the time of the original sale of the RV to the Owner, Boundless Recreation will expect that the Authorized selling dealer will do the following:

1. Ensure that the RV has been maintained while in the dealer's possession prior to the sale of the vehicle.
2. Perform regular, general inspections of the RV to ensure that no warrantable defects attributable to Boundless Recreation have surfaced and been left unattended to prior to the sale of the vehicle.
3. At the time of sale, perform a thorough walk through of the vehicle with the Owner to ensure understanding of the operation, use, and safety requirements of the RV.
4. Review the Owner's Manual, RV Warranties, and operating guides that might accompany the RV.
5. Provide the Owner with information pertaining to the offered warranty services from Boundless Recreation.
6. Ensure that the Owner has completed the required warranty registration with Boundless Recreation.

NOTE: BOUNDLESS RECREATION WILL NOT BE HELD LIABLE FOR ANY NEGLIGENCE, BREACHES, FAILURES, OR PROBLEMS THAT ARE ATTRIBUTABLE DIRECTLY TO THE AUTHORIZED SELLING DEALER.

Section VII: RV OWNER RESPONSIBILITIES

As an Owner of a Boundless Recreation RV, you will have responsibilities that the manufacturer expects to be fulfilled to ensure a long and fun filled experience with your RV.

1. Read all warranties and Owner's Manual information to ensure a complete understanding of your RV.
2. Complete the Owner Registration on your new Boundless Recreation RV.
3. Follow all safety requirements provided by Boundless Recreation and all component manufacturers.
4. Practice regular and proper maintenance on your RV. If you have maintenance related questions or concerns, it is the Owner's responsibility to contact either the Authorized Selling Dealer or Boundless Recreation for guidance and support. Failure to properly maintain your RV or the components will void all warranties on the RV and components.

5. Maintain all sealants in accordance with the Owner's manual. Degradation of sealants may happen over time and use, and it is the Owner's responsibility to inspect and regularly maintain all sealants on the RV. Failure to do so will lead to issues that are not covered under this limited warranty.
6. Minor adjustments from use and travel are excluded from the limited warranty. It is the Owner's responsibility to make those adjustments as necessary after a maximum of 90 days of ownership of the RV.
7. Upon suspicion of a warrantable defect, it is the Owner's responsibility to report the suspected warrantable item to the authorized selling dealer or the manufacturer. When reporting suspected warrantable issues, please provide the following information:
    a. Vehicle Identification Number (VIN)
    b. Date of Purchase
    c. Description of the suspected warrantable defect
8. By registering your new RV, or requesting warranty services on your RV, you, the Owner, agrees to be bound by all terms and conditions of this limited warranty. This limited warranty provides the Owner with specific legal rights and other rights may be accessible to the Owner dependent upon the state of residence of the Owner. It is the Owner's responsibility to understand these rights, if any, that are provided by state laws.

Section VIII: LEGAL REMEDIES

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EXCLUSIVE JURISDICTION FOR DECIDING LEGAL DISPUTES RELATING TO AN ALLEGED BREACH OF WARRANTY OR OTHERWISE RELATING TO YOUR PURCHASE OR OWNERSHIP OF THE RV MUST BE FILED IN THE COURTS WITHIN THE STATE OF MANUFACTURE. UNLESS PROHIBITED BY STATE LAW, ALL CLAIMS, CONTROVERSIES AND CAUSES OF ACTION ARISING OUT OF OR RELATING TO THIS LIMITED WARRANTY, WHETHER SOUNDING IN CONTRACT, TORT, OR STATUTE, SHALL 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.

THIS LIMITED WARRANTY SHALL BE INTERPRETED AND CONSTRUED IN ACCORDNACE WITH THE LAWS OF THE STATE OF INDIANA. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS, AND YOU MAY ALSO HAVE OTHER RIGHTS THAT VARY FROM STATE TO STATE OR PROVINCE TO PROVINCE. ALL ACTIONS OF ANY KIND RELATING TO THE RV SHALL BE DECIDED BY A JUDGE RATHER THAN A JURY. The jury waiver and choice of law clause, as well as limitations and disclaimers of warranties, may not apply to you if applicable state or provincial law prohibits a waiver of a jury trial or enforcement of a choice of law clause resulting in a waiver of a non-waivable statutory cause of action. For example, the State of California does not allow for the waiver of the Song Beverly Consumer Warranty Act and/or the right to a jury trial.

CALIFORNIA CONSUMERS: To comply with California's Song Beverly Consumer Warranty Act pre-litigation notice requirements (described at California Code of Civil Procedure Section 871.24), written notice can be sent to Boundless Recreation, either by email sent to the following email address: asdfsadfsadfa, or by certified or registered mail, return receipt requested, sent to the following address: Boundless Recreation, 705 Maple Street, Bristol, IN 46507.

CONSUMIDORES DE CALIFORNIA: Para cumplir con los requisitos de notificación previa al litigio de la Ley de Garantía del Consumidor Song Beverly de California (descritos en la Sección 871.24 del Código de Procedimiento Civil de California), se puede enviar una notificación por escrito a Boundless Recreation, ya sea por correo electrónico a la siguiente dirección de correo electrónico: asdfasdfasfasfasf, o por correo certificado o registrado, con acuse de recibo, enviado a la siguiente dirección: Boundless Recreation, 705 Maple Street, Bristol, IN 46507.

SECTION 3: OCCUPANT SAFETY

FIRE SAFETY

Fire Emergencies

IN A FIRE EMERGENCY, EVACUATE THE RV FIRST, THEN CALL 911 FROM A SAFE LOCATION

1. In a fire emergency, it is beneficial to create and follow a family safety plan for such an occurrence
    a. Know where all doors, emergency exit windows, and safety equipment are in your RV.
    b. Know where all safety alarms are in the RV and what they mean when they are triggered. If children are involved, please stress the importance of evacuating the RV without an adult in the event of an emergency.
    c. Plan for more than one form of exit in an emergency. Your primary exit may be blocked so it is imperative that you have more than one exit planned for emergency situations.
    d. Make sure the occupants know how to check doors for heat and leave the doors closed if they are hot; stay low while moving, and avoid inhaling smoke, fumes, and/or gases as much as possible. Placing a cloth over your mouth and nose will assist in protecting you against inhalation of smoke, fumes, or gases.
    e. Plan a meeting location outside of the RV, a safe distance away and stay there until every occupant is accounted for.
    f. Make sure there is an alternate location to dial 911 in case your means to do so are in an unsafe place while the emergency is happening.
2. Ensure every occupant knows to stop, drop, and roll if clothing or hair catches on fire.
    a. STOP in place – do not run
    b. DROP to the ground
    c. ROLL back and forth with your hands over your face



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Common and Important Fire Safety Information

Below is a list that includes common information related to fire safety. This list is not all inclusive of all rules related to fire safety. Common sense and attention to your surroundings may dictate additional guidance and protections required to prevent the spread of fire. Please use this list as a guide to ensure that fire safety is ALWAYS practiced by you, your family and other occupants of your Boundless Recreation RV:

1. ALWAYS supervise children around or near any open flames, especially grills, firepits, and campfires.
2. ALWAYS learn and teach fire safety, prevention, and fire extinguishing practices.
3. ALWAYS build campfires, place grills, or any item producing an open flame away from nearby trees or bushes and adhere to all federal, state, and local laws related to fires, including burn bans or advisories. It is critical to always be aware of restrictions placed in your area. Forest and field fires can be catastrophic to personal safety and property.
4. ALWAYS maintain at least three feet of clearance around grills, campfires, your RV, tents, and other structures or combustible materials. Make certain that the three-foot radius is free from other combustible debris to prevent fire from spreading.
5. ALWAYS proactively have an action plan in place to rapidly and completely extinguish a campfire or other open flame.
6. ALWAYS teach family members and other occupants how to locate and use fire extinguishers.
7. ALWAYS replace your fire extinguisher as recommended by the extinguisher manufacturer.
8. ALWAYS call the fire department, no matter the size of the fire.
9. ALWAYS assume that, where there is smoke, there may be a fire.
10. NEVER store combustible materials in enclosed areas or near any heat source.
11. NEVER use water to put out grease or electrical fires. Water can spread grease fires and can create electric shock hazards during an electrical fire.
12. NEVER leave a fire burning unattended. An ember can cause a fire to quickly spread out of control in dry conditions.
13. NEVER assume that family members or occupants are aware of fire safety protocols. It is your responsibility to ensure that everyone is prepared in the case of a fire.

Additional information pertaining to fire safety and firefighting can be located at the National Fire Protection Association (NFPA) website – www.nfpa.org.

NOTICE

Notify Boundless Care immediately if you feel that a product failure resulted in a fire. Failure to notify Boundless Care prior to having the RV moved, repaired, or any debris removed could result in the loss of warranty coverage for that incident.

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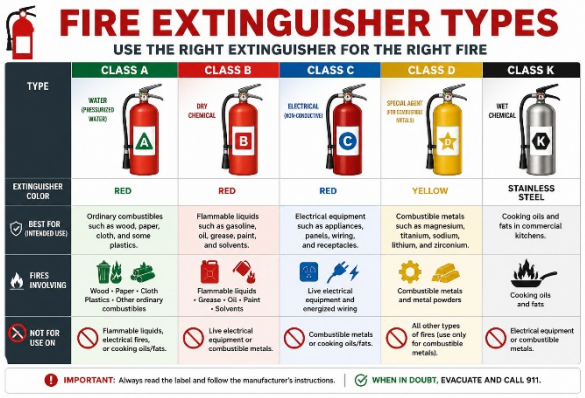
FIRE EXTINGUISHERS

General Information

If a fire starts in or around your RV, the priority is a safe evacuation of all occupants from the RV or from the area. If you do choose to fight the fire, we have given some general information on fire extinguishers below.

Household fire extinguishers are classified into four types by Underwriters Laboratories (UL).





A dry chemical Class B/Class C type fire extinguisher is located near the entry door of your RV. The provided portable fire extinguisher should be utilized on small fires or to help contain larger fires until professionals arrive. Portable extinguishers are limited in capacity, so please place your safety as the priority.

Fire Extinguisher Operation

Please see the following diagram for proper operation of fire extinguishers.



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For disposal of used fire extinguishers, contact your local fire, sanitation, or environmental protection department for rules and regulations applicable to safe disposal.

WARNING

Never test or practice using a fire extinguisher by squeezing the trigger. These are non-rechargeable and, once used, pressure will decrease over time limiting use in a time of need.

WARNING

While using a fire extinguisher, always keep your back toward a clear path for evacuation.

WARNING

Do not turn on electrical power immediately after use of a fire extinguisher on an electrical fire.

WARNING

Inspect fire extinguishers weekly. If your RV has been in storage, inspect extinguishers prior to RV use. Always inspect the fire extinguishers prior to your trip departure.

ALARMS

Smoke Alarms (Ceiling)

Your RV will come equipped with a smoke alarm on the ceiling in the main living area. This alarm is intended to alert you when smoke is detected to reduce the risk of personal injury, or even death from smoke and/or a fire. Smoke alarms will only be triggered when smoke reaches the alarm to trigger its sensors. Although a smoke alarm is a necessary safety alert system, common sense should be utilized to always ensure the safety of all RV occupants.

1. It is crucial for smoke alarms to be properly located, installed, and maintained.
2. Smoke alarms should not be tampered with and should be regularly maintained.
    a. When the smoke alarm has battery power, a red light will flash.
    b. If the light is not flashing or if the alarm is chirping, the battery needs changed immediately.
    c. If the battery is replaced and the alarm is not functioning properly, replace the alarm with a new one.
3. If smoke is detected by the alarm, the alarm will sound until the air is clear of smoke.

If the alarm detects smoke, it will produce a loud, repeating alert or siren sound and the light will rapidly flash red. If this occurs, please note the following:

1. Smoke has been detected and your immediate attention is required.
2. Never ignore the alarm. Doing so may result in injury or possible death.
3. If it is evident that there is a fire, evacuate the RV immediately.
4. Once you have evacuated and are safely away from the RV, contact 911.

Testing Smoke Alarms

It is important that smoke alarms be tested on a weekly basis. When testing, maintain a safe distance from the alarm to prevent injury or harm to your hearing during the testing procedure.

1. Press and hold the Test button on the face of the smoke alarm until the alarm sounds. The alarm may sound for a few seconds after the button is released.
2. If the alarm does not sound immediately, check the power source (battery) and re-test.
3. If the alarm still does not operate as it should, replace the alarm.

Smoke Alarm Maintenance

To keep the smoke alarm functioning properly:

1. Never clean alarms with solvents, cleaning products, water, bleach, or any other substance that may damage the alarm.
2. Carefully wipe the alarm with a clean rag or vacuum the alarm at least every 30 days.
3. Never paint the smoke alarm. Paint may clog or damage the opening of the sensors and prevent the alarm from properly functioning.



Smoke alarms do not function without a working battery. Do not remove the battery to silence the smoke alarm and always make sure the alarm is functioning properly.



Test all smoke alarms before each camping trip or RV use. This is especially important if your unit has been in storage or any time that you have not used your RV for an extended period.



Never us an open flame, such as a lighter or a match, to test a smoke alarm. Doing so may result in setting fire to the smoke alarm and/or your RV. Always use the test button for proper testing of the alarm.

Carbon Monoxide (CO) - Gas

General Information

Carbon monoxide (CO) is a colorless, odorless, tasteless, gas produced by the exhaust of burning fuel or the incomplete combustion of carbon. Sources of CO in or around your RV may be the exhaust from vehicles, generators, heaters, gas stoves and ovens, furnaces, portable grills, and/or any other gas-powered object or appliance. CO can be poisonous even at low levels of concentration. With exposure to CO, victims tend to first experience nausea, dizziness, a dull headache, weakness, and confusion. In many situations, CO victims dismiss the early warning signs as just not feeling well and become disoriented to the point they are unable to escape or call for help. Signs and symptoms of CO poisoning will first be observed in young children and pets and should not be ignored. Immediate action is required.

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Carbon Monoxide (CO) Poisoning Signs and Symptoms

1. **Mild Exposure**: Dull headache, running nose, weakness. Sore or watery eyes, and/or other flu-like symptoms.
2. **Medium Exposure**: Dizziness, drowsiness, and/or vomiting.
3. **Extreme Exposure**: Unconsciousness, brain damage, and/or death

⚠ WARNING

Many carbon monoxide victims dismiss the early warning signs as just not feeling well and become disoriented, leaving them unable to escape or call for help. Never avoid early warning signs of CO poisoning. Doing so may result in brain damage or possible death.

⚠ WARNING

If there are other vehicles or generators running nearby, there is a chance for exhaust fumes to enter your RV. The best protection against carbon monoxide is proper ventilation and the proper use of a CO detector. Make sure that all vents on ventilation systems are clear of all debris that could prevent their proper function.

Carbon Monoxide (CO) - Alarm

General Information

Carbon Monoxide alarms will sound when the CO reaches a potentially dangerous level in your RV. When hearing this alarm, you should immediately evacuate the RV and remain clear until the RV has ventilated, and the alarm is no longer sounding.

1. It is crucial for CO alarms to be properly located, installed, and maintained.
2. CO alarms should not be tampered with and should be regularly maintained.

   a. When the alarm has power, a solid green light will be present.
   b. If the light is not on, the alarm does not have power.
   c. The alarm has a battery backup, if the light is flashing green and red, the battery needs changed.
   d. If the battery is replaced and the alarm has power, but is not functioning properly, replace the alarm with a new one.
3. If CO is detected by the alarm, the light will flash red, and the alarm will sound until the air is clear of CO.

If the Carbon Monoxide Alarm Sounds:

1. Ventilate the RV immediately.
   a. Open all doors and windows
   b. Check that all occupants are accounted for.
   c. Call 911 for your local emergency service or fire department.
   d. Do not re-enter the RV and stay clear from all openings until the emergency personnel arrive or until the alarm stops sounding due to proper ventilation and the removal of CO from the RV.
2. Confirm that another motor vehicle or nearby RV is not the source of the CO.
3. If the CO alarm signals again within 24 hours:
   a. Repeat step 1 in its entirety.
   b. Before continuing use of your RV, call a qualified appliance technician to inspect all gas appliances and the gas lines to investigate the source of CO entry.
   c. If problems are identified in the inspection, service the equipment immediately and do not continue using the RV until repairs are completed.
   d. Note all combustion equipment not inspected and provide maintenance as needed per the equipment manual.

⚠ WARNING

CO alarms do not function without a working battery. Do not remove the battery to silence the alarm and always make sure the alarm is functioning properly for your protection.

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Testing the CO Alarm

It is important that CO alarms be tested on a weekly basis. When testing, maintain a safe distance from the alarm to prevent injury or harm to your hearing during the testing procedure.

1. Press and hold the test/silence button on the face of the alarm. Once flashing, the alarm will signal 4 times and repeat for 5-6 seconds.
2. If the alarm does not signal in this manner, check the power source and then test again.
3. If the alarm still does not signal, check and ensure the alarm is clear of dust and debris.
4. If the alarm still does not sound, replace the CO alarm immediately.



Do not remain within close proximity of the alarm when sounding. Exposure within close range may be harmful to hearing. When testing, stay at arm's length away the alarm.



Never test the CO alarm with vehicle exhaust or any other form of exhaust. This may lead to permanent damage to the RV and voids the limited warranties. This also may lead to personal harm.



Test all CO alarms before every camping trip or use of your RV. This is especially important after your unit has been removed from storage. If the CO detector fails to test correctly, replace it immediately. Failure to replace a non-functioning alarm may result in brain damage, injury, or death.



The CO alarm sounding indicates potentially toxic levels of carbon monoxide which may result in brain damage or death. CO alarms will only indicate CO is present at the sensor and may not indicate CO in other areas of the RV.

CO Alarm Maintenance

To keep the CO alarm functioning properly:

1. Never clean alarms with solvents, cleaning products, water, bleach, or any other substance that may damage the alarm.
2. Carefully wipe the alarm with a clean rag or vacuum the alarm at least every 30 days.
3. Never paint the alarm. Paint may clog or damage the opening of the sensors and prevent the alarm from properly functioning.

Propane (LP) Gas – Alarm

General Information

Propane gas is used in many of the appliances within your RV. Examples include, but are not limited to the furnace, water heater, ovens and cook tops, portable grills, etc. If a leak occurs, because propane is heavier than air, it will collect in lower areas. Because of this, the Propane Gas Detector is installed near the floor line of your wall in an open area.



1. It is crucial for LP gas detectors to be properly located, installed, and maintained.
2. LP gas detectors should not be tampered with and should be inspected on a continuous basis.
3. When the LED on the front of the detector is green, the alarm is active. If propane, acetone, alcohol, butane, and/or gasoline is detected, it will trigger the alarm until the air is cleared.

If the Propane Gas Detector is alarmed:

1. Immediately extinguish all flames, smoking materials, and shut off all gas related appliances, i.e. stove, heater, furnace, refrigerator, etc. Do not touch any electrical switch, use electronic devices or appliances, or cellular devices.
2. Evacuate everyone from the RV immediately.
3. Open all doors and windows to ventilate the RV.
4. Shut off gas supply at the LP tank(s) or any other LP source. Do not start any vehicle engines, create open flames, or start a generator near the RV.
5. Determine and repair the source of the leak.
6. Do not re-enter the RV until you are certain the problem is corrected.
7. Prior to using the LP system in the future, contact an expert to make certain the problem is corrected.



The sounding of this device means that there is a presence of LP gas, which may result in fire and/or an explosion. Leaks generally occur in LP gas piping and/or LP gas appliances. Follow all information found in the appliance manuals. Failure to do so may lead to carbon monoxide poisoning, fire, and/or an explosion causing property damage, personal injury, or death.

INDOOR AIR QUALITY

General Information

Unlike a home which can be thousands of square feet in size, your RV is much smaller. The relatively small volume and tight compact construction of modern RV's means that the normal living activities of even a few occupants (or animals) may lead to rapid moisture saturation of the air contained in the RV. Estimates indicate that a family of four can vaporize up to three gallons of water daily through breathing, cooking, bathing and washing.

Unless the water vapor is carried outside by ventilation or condensed by a dehumidifier, it may condense on the inside of the RV. It may condense out of sight inside cabinets, closets, etc. where the air temperature may be slightly different. This may not only cause damage to your RV but also your personal belongings. Appearance of these conditions may be misconstrued as a water leak.

Good indoor air quality is essential for long-term enjoyment of your RV. To maintain good air quality, you need to be attentive to the proper ventilation of your RV, keeping the RV clean, and

avoiding unnecessary air pollutants. Common indoor air pollution sources include molds, pollen, dander from pet fur, secondhand smoke, carbon monoxide from burning propane and other fuels (and charcoal), and household cleaners. Inadequate ventilation may increase indoor pollutant levels by not bringing in enough outdoor air to dilute emissions from indoor sources and by not carrying indoor air pollutants outside. High temperatures and humidity levels may also increase concentrations of some air pollutants. People most at risk from poor indoor air quality include people with asthma, allergies, chronic lung diseases such as bronchitis and emphysema, a pre-existing heart disease, children, and the elderly.

Improving Indoor Air Quality

1. Breathe Fresh Air
    a. Open Windows and Vents as often as possible.
    b. Spend more time outside of the RV than inside the RV, if possible, for fresh air.
2. Control Mold
    a. Cleaning bathrooms and kitchens very regularly will help fight mold formation.
    b. Clean up any mold you see or smell with a mixture of no more than 1 cup of bleach mixed with 1 gallon of water. NEVER MIX BLEACH WITH AMMONIA.
    c. Close your windows and run your Air Conditioner, or run a dehumidifier to help control mold.
3. Clean often to rid your RV of dust and pet dander.
4. Limit the use of bug spray inside the RV.
5. Do not smoke inside the RV.

EPA Recommendations

There are 3 basic strategies recommended by the Environmental Protection Agency (EPA) to improve indoor air quality.

1. Remove Sources – The most effective way to improve indoor air quality is to eliminate sources of pollution or reduce their emissions. Pollutants that should be reduced include:
    a. Biological contaminants such as bacteria, molds, mildew, viruses, animal dander, and pollen.
    b. Household products such as paints, varnishes, cleaning and disinfecting solutions, cosmetics, and hobby products.
    c. Pesticides
2. Ventilation – Increase the amount of outdoor air coming inside the RV. Typically, RV furnaces and air conditioners DO NOT mechanically bring fresh air into the RV. Opening doors and

windows while running exhaust fans in the bathrooms, ceilings, and range hoods will circulate fresh air throughout the RV improving the air quality in the RV.

3. Air Cleaners – Air cleaners are designed to remove particles from the air. There are many types and sizes of air cleaners available for purchase; however, air cleaners are not generally designed to remove gaseous pollutants. The effectiveness of an air cleaner will depend on how well it collects pollutants from indoor air and how much air it draws through the cleaning or filtering element.

For more information about indoor air quality and its effects, please refer to the EPA website at: www.epa.gov/indoor-air-quality-iaq.

Tips to avoid condensation

1. When bathing, washing dishes, hair-drying, laundering, cooking, and using appliances and non-vented gas burners, always turn on the nearest exhaust fan.
2. Keep the bathroom door closed with the vent open or running when bathing/showering and for a period after you have finished.
3. Do not hang wet clothes in the RV to dry.
4. In hot weather, start the air conditioner early as it removes excess humidity from the air while lowering the temperature.
5. Manage the inside temperature during cold weather. The higher inside temperature along with colder outside temperatures may cause condensation in areas that are not insulated as well.
6. Poor air circulation inside the RV may cause condensation to form inside closets and cabinets. Allow air to circulate inside closets and cabinets by leaving the doors slightly open. A closed cabinet full of stored goods will limit circulation and may cause condensation.
7. It is natural to leave vents closed and not operating during cool or cold weather; however, it is imperative that moisture is vented out of the RV even during the cold temperatures by following the tips above in all temperatures.

Moisture and Mold

Molds, which are pollutants, are microscopic organisms that naturally occur in virtually every environment, indoors and out. Outdoors, mold growth is important in the decomposition of plants. Indoors, mold growth is unfavorable. Left unchecked, molds break down natural materials such as fabrics and wood products. For mold growth to occur temperatures must be between 40 degrees and 100 degrees Fahrenheit and there must be a source of moisture such as humidity, standing

water, damp materials, etc. Indoors, the most rapid growth occurs with warm and humid conditions.

By controlling relative humidity (moisture), the growth of mold and mildew can be inhibited.

1. In warm climates, use of the air conditioner will reduce the relative humidity.
2. Opening vents and operating exhaust fans when introducing high levels of moisture to the inside of the RV (bathing, showering, cooking, washing dishes, etc.) will help control the environment needed for mold to grow.
3. Clean any spills immediately.
4. Avoid leaving damp towels, clothes, etc., to dry inside the RV.
5. On safe surfaces, use mold or mildew killing cleaning products.
6. Check sealants regularly and reseal when necessary to avoid water leaks. Proper preventive maintenance of the RV and its accessories, as described both in this manual and in accompanying literature, will provide the best protection for your RV.
7. In extreme conditions, a dehumidifier may be necessary.

Formaldehyde

Formaldehyde is used widely in building materials such as pressed wood products, particle board, hardwood, plywood paneling, plywood and medium density fiberboard (MDF), which are commonly used throughout the RV industry. As mandated by the RV Industry Association, Boundless RVs contain composite wood products that comply with the EPA Formaldehyde Standards for Composite Wood Products under Title VI of the Toxic Substances Control Act ("TSCA"), which can be found at https://www.epa.gov/formaldehyde and the California Air Resource Board (CARB) formaldehyde emission standards under California Code of Regulations § 93120.2(a) https://ww2.arb.ca.gov/resources/fact-sheets/formaldehyde.

To the extent that formaldehyde is contained in some of the components used to construct your RV or is used in the holding tank chemicals, you should properly ventilate your RV to maintain good indoor air quality. Decreasing the flow of air by sealing the RV may increase the presence and concentration of indoor air pollutants, such as mold, household chemicals, and formaldehyde. Finally, we recommend that you do not smoke inside your RV. In addition to causing damage to your RV, tobacco smoke releases formaldehyde and other air pollutants. If you have any questions regarding the health effects of formaldehyde or any other air pollutants, please consult your doctor or local health department.

For further information on Formaldehyde, you can visit the following websites:

www.epa.gov/indoor-air-quality-iaq

www.epa.gov/formaldehyde/facts-about-formaldehyde

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EMERGENCY EGRESS WINDOWS

General Information

While all RV brands are different, the operation of the emergency windows is generally consistent across brands. The design, application, and location of these windows are governed by the RV industries governing bodies. You will find some helpful safety information below regarding these exit windows. Please take time to familiarize yourself and anyone that will be in the RV with the location and operation of all exit windows in the RV.



Boundless Recreation places a label such as this on or near all emergency exits in your RV.



ENSURE THAT ALL EXIT WINDOWS ARE CLOSED AND LOCKED DURING TRAVEL

Identify and locate all emergency exit windows in the RV, they are easily identifiable by both the "EXIT" sticker and the red hardware used to open them.

Know what to expect in the event of an emergency. Activate the release mechanisms on the exit windows and apply pressure to push or slide them open.

Once you're familiar with the location and operation, make yourself familiar with the drop between the window and the ground. Depending on the RV, it could be a significant distance.



IF YOU MUST EXIT THE RV THROUGH AN EMERGENCY EXIT WINDOW, ALWAYS PLACE YOUR LEGS OUT FIRST AND ATTEMPT TO LAND ON YOUR FEET UPON EXIT.

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Emergency Exit Window Styles

There are multiple styles of emergency exit windows. Your RV may have any of these styles depending on the floor plan or the design of your RV.

1. **Pull or Tab Style Latch**: This style is generally used on larger horizontally sliding exit windows. Pull the handle out or rotate the tab out to slide the window open for proper escape.





2. **Flip Style Latch**: This style flips up and disengages, which allows the window to be pushed out for proper escape.



3. **Lever Style Latch**: This style has a handle that will either rotate or pull out and up to disengage the window retention. Once the tabs are open, push out on the window, which is hinged at the top.





4. **Bar Style Latch**: This style has a long bar with a red handle that unlatches from the window frame, then rotates inward. Straighten the bar perpendicular to the window and then push to open the window, allowing proper escape.



SECTION 4: PRE-TRAVEL INFORMATION

TOW VEHICLE

Before towing your RV with a vehicle you own or plan to purchase, ensure that the Gross Vehicle Weight Rating (GVWR) of your RV does not exceed the towing capacity of your tow vehicle. Consult your authorized dealer for guidance on obtaining information regarding towing considerations, including whether your vehicle has an optional tow package.

VEHICLE LABELS



Factory installed weight labels are specific to the RV that they are attached to and are not interchangeable. Do not remove these labels from the vehicle. If labels are missing, please contact Boundless Care for replacements.

Decals and data plates used throughout the RV aid in safe and efficient operation; others give service instructions. Read all decals, data and instruction plates before operating your RV. Any decal, data or instruction plate painted over, damaged or removed should be replaced. In case of theft or vandalism, keep a record of the 17-digit chassis vehicle identification number (VIN), the 6-digit serial number, and your license number. This information may be required by authorities for identification purposes.

Weight Ratings and Definitions

It is vital to remain within the weight rating specifications of your RV and tow vehicle. Failure doing so may result in loss of warranty, damage to your tow vehicle, or damage to your RV. More critically, failure to adhere to weight limitations poses great danger to you and those around you when operating or towing your RV. Vehicle and RV weights fall into two categories:

1. Ratings are maximum limit thresholds that should NEVER be exceeded. These limits are established by Boundless Recreation and our component manufacturers in the design of the RV.
2. Weight and Load are often used interchangeably and refer to the actual weight of the RV. Weight or load is measured by placing an RV, tow vehicle, or its components on a scale. Vehicles and added cargo add weight and affect the distribution of weight to the hitch, tires, and axles.

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Exceeding a rating may result in unsafe conditions, potential damage, may void warranties, may complicate an insurance claim, and in some cases, may violate applicable laws.



The volume of space available for storage may exceed the amount of available Cargo Carrying Capacity. Large storage compartments have been designed to accommodate normal camping items, which are bulky, but not necessarily heavy.



The actual total weight of the RV, its options, holding tanks and contents, personal items, and hitch weight are important to know so that you DO NOT exceed the Gross Vehicle Weight Rating (GVWR) of the RV.

To better understand how to safely manage your RV's weight and balance, weight related definitions are listed below:

1. Gross Axle Weight Rating (GAWR)
    a. The maximum weight that the axles are designed to carry.
2. Gross Vehicle Weight Rating (GVWR)
    a. Also referred to as maximum load capacity.
    b. Equals the GAWR plus the hitch weight.
    c. This is the maximum allowed weight the RV is rated to carry including the weight of the trailer and any cargo or equipment that is hauled inside the RV.
3. Gross Vehicle Weight (GVW)
    a. Actual weight of the RV including anything in or on the RV.
    b. This is the fully loaded RV weight.
4. Gross Combined Weight Rating (GCWR)

   a. The maximum allowable weight of a fully loaded tow vehicle plus the maximum allowable weight of the RV (GVWR).
5. Gross Combined Weight (GCW)
   a. The actual weight of your fully loaded RV and tow vehicle combined.
6. Unloaded Vehicle Weight (UVW) or Dry Weight
   a. The weight of the RV as it is built from the factory.
   b. Does not include water, fuel, propane, supplies, or passengers.
   c. This includes the RV and ONLY factory installed items.
7. Hitch Weight (HW) or Tongue Weight
   a. The actual amount of weight on the tow vehicle when the RV is properly connected to the tow vehicle.
8. Cargo Carrying Capacity (CCC)
   a. The maximum weight of personal cargo, water, fuel, and propane allowed in the RV without exceeding the GVWR of the RV.

Weight Labels

Vehicle weight labels are placed on every RV to ensure the owner and/or potential buyer is fully aware of this information. Proper weights and limitations are important to the use of your RV.

NOTICE

Do not remove these labels from the RV. If the labels are missing or damaged, contact Boundless Care for replacement labels.

Federal Certification Label

The Federal Certification Label specifies the maximum capacities for GVWR, GAWR, and the tires. This is located on the driver's side (also known as the off-door side) towards the front of your RV. Typically, this label is in front of the LP compartment. Below is an example of the Federal Certification Label. Note that the information on your specific RV on this tag will vary from what is shown below:



FEDERAL CERTIFICATION LABEL

THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN BELOW.

MANUFACTURED BY: ABC RV, INC. DATE OF MFR: 05/2024

GVWR: 14,000 LB (6,350 KG) TYPE: MOTOR HOME

GAWR FRONT: 5,000 LB (2,268 KG) GAWR REAR: 9,000 LB (4,082 KG)

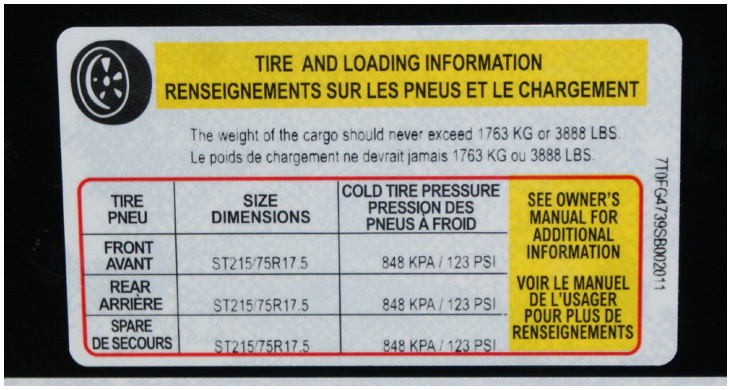
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS (FMVSS) IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.

V.I.N.: 1ABCDEFGXR1234567

TYPE OF VEHICLE: MULTIPURPOSE PASSENGER VEHICLE (MPV)

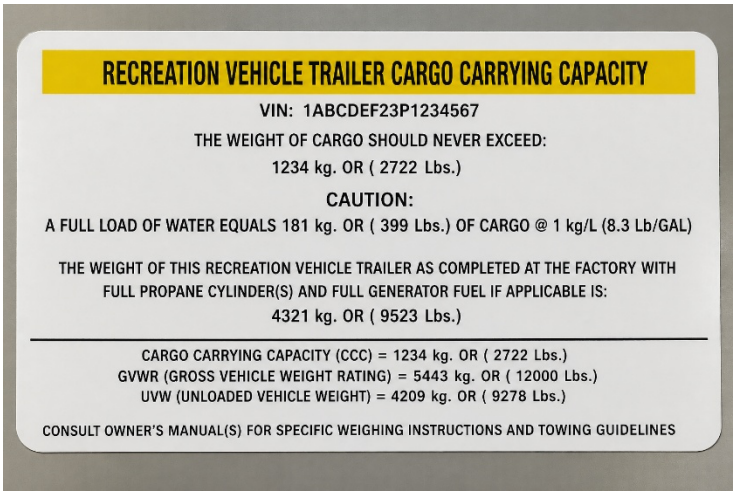
Tire and Loading Information Label

The Tire and Loading Information Label provides tire size information, recommended tire pressure(s), and the maximum amount of cargo that can be safely added to the RV. This label is located on the driver's side (also known as the off-door side) towards the front of your RV. Typically, this label is in front of the LP compartment. Below is an example of what the Tire and Loading Information looks like. The information contained on this tag may vary on your RV from what is shown below:



Cargo Carrying Capacity (CCC) Label

The Cargo Carrying Capacity Label specifies the maximum cargo carrying capacity for your RV. An example label is provided below:



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Cargo Capacities and Weights

When loading your RV with cargo, DO NOT exceed any of the following:

1. The maximum Cargo Carrying Capacity (CCC) noted on the Federal Tag.
2. The Gross Vehicle Weight Rating (GVWR).
3. The maximum load rating of your RV tires.



The load capacity of your RV is designated by weight, not by volume. All available storage space cannot necessarily be used when loading the RV. Ensure you are loading the vehicle evenly and secure all loose items prior to travelling.

Maximum Load Rating

The Maximum Load Rating of your RV tires may be less than the GVWR. To calculate the load on your RV tires, subtract the hitch weight from the RV's Gross Weight or Total Weight. The hitch weight is carried by your tow vehicle, NOT the RV tires. Therefore, the hitch weight is subtracted.

Water and Propane (US Only)

Fresh Water is calculated as part of the Cargo Carrying Capacity weight in the US.



Water weighs approximately 8.3 pounds per gallon.

Example: An 80 gallon tank full of water will weigh roughly 664 pounds.

If you are carrying water and are near the GVWR of the RV, reduce the amount of water that you are carrying to make capacity available for other belongings if necessary. Never exceed the GVWR of the RV.

Loading The RV

When loading your trailer, it is critical that you understand the weight limitations of your RV and tow vehicle as well as the importance of maintaining a balanced load from side-to-side of the RV.



ONLY store items in the areas designated for storage. DO NOT store anything in the areas reserved for the furnace, water heater, converter, electrical panels, or other appliances.



During a sudden stop, free standing furniture or loose items on the counter tops or shelves can become dangerous objects. It is important to secure the appliance or furniture with tie-down straps. Secure all loose items inside the RV. Check that all items are safely stored prior to travelling.

Weighing the Tow Vehicle and RV

Total weight and balance of the RV are the two most important factors when loading your RV. It is important to ALWAYS follow and never exceed the weight rating limits specified for your RV. To ensure you are not exceeding your Gross Vehicle Weight Rating (GVWR) and other weight limitations, you should weigh your RV at a public scale or weigh station once your RV is fully loaded. Utilizing a scale will also help to determine proper load distribution. To better ensure you are balancing load within your RV, it is best to use a weigh station that has separate scales to weigh the driver and passenger sides of the RV.

It is important to read and understand the weighing instructions prior to attempting to weigh your RV. Understanding this information is vital to ensure your safety. When weighing your RV, it must be weighed fully loaded with all contents you intend to travel with (i.e., food, water, clothing, supplies, propane, fuel, etc.) to obtain an accurate measurement and to determine whether you are within the weight limitations provided.

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An RV that is overloaded or improperly balanced will adversely affect your tow vehicle's handling and braking capabilities. This can also lead to component failures that could leave you stranded. Overloading the vehicle could jeopardize your safety and the safety of others. This may also void applicable warranties and is considered a form of misuse of the RV.



DO NOT EXCEED THE GVWR OR THE GAWR OF THE RV! If the GVWR is exceeded, you must remove items from the RV to obtain a safe weight below the GVWR. It is recommended that you travel with empty black and grey wastewater tanks as well as a minimum amount of fresh water in the fresh tank. Traveling with full tanks will negatively impact the handling of the RV.



Exceeding the established weight ratings for the axles, running gear, tires, and wheels can lead to failure that can affect your safety and lead to property damage or damage to the RV.

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Weighing Procedure

1. Gross Vehicle Weight Calculation – Weigh your RV while unhitched from the tow vehicle to obtain your Gross Vehicle Weight (GVW). Be sure to pull the tow vehicle far enough away so that it is not included in the weight calculation. You will also have to lower the landing gear (fifth wheel) or tongue jack (travel trailer) to obtain weight measurement.
    a. For safe operation, ensure that the GVW of the vehicle is less than the stated GVWR of RV.
2. Gross Combined Weight Calculation – Properly connect the RV to the tow vehicle for the Gross Combined Weight.
    a. For safe operation, ensure that your combined weight is less than the stated GCWR for the tow vehicle.
3. Hitch Weight Calculation - While still hitched to the tow vehicle, pull onto the scale to weigh only the RV, and record that weight. This measures the total load carried by the RV tires. This weight, when subtracted from the GVW, is your Hitch Weight.
4. Balanced Weight Calculations – To obtain the side-to-side weights of the RV, there must be ample room on either side of the scale to accommodate one side of the RV being off the scale.
    a. Pull the RV so that the tires of only one side of the RV are on the scale. Your RV must remain as level as possible to obtain an accurate weight measurement.
    b. To calculate the opposite side RV wheel position weight, subtract the first side's weight from the weight determined in step 1.

If you have questions or concerns, please contact Boundless Care for assistance in this process.



Never exceed the GCWR of the tow vehicle. Making assumptions that your total weight is within the stated ratings can lead to overloading the tow vehicle, which could lead to unsafe conditions for you and others.



A balanced load will reduce the risk of component failure and improve the handling characteristics of the RV. Unblanched loads will place stress on the overloaded components which could lead to failure and risk your safety.

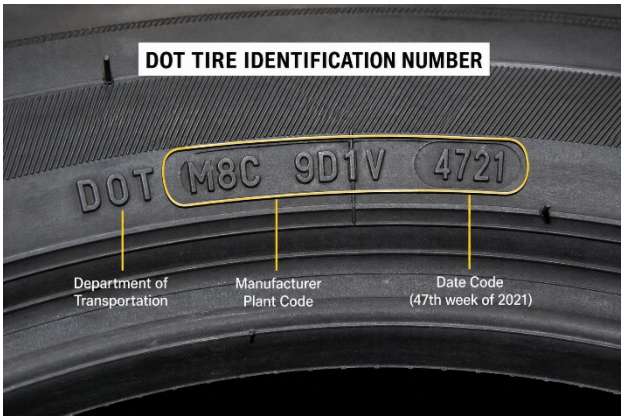
BOUNDLESS RECREATION

Tire Safety Information

Your tires are the only part of the RV that has direct contact with the road. Tires directly affect the handling, braking and safety of your RV. Tires must have correct air pressure, tread depth and balance. Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies characteristics of the tire and provides a tire ID number for safety standard certification and in case of a recall.

DOT Tire Identification Number

This begins with the letters "DOT" and indicates the tire meets all federal standards. The following two digits are the plant code where the tire was manufactured. There may be several letters and numbers depending upon the manufacturer. The last four numbers represent the week and year the tire was built. Below is an example of a DOT Tire Identification Number and the explanation of what the characters identify.



Tire Size and Type

The tire specifications are located on the Tire and Loading Information label or on the sidewall of the tire. The photo below shows an example of a tire with its labeling on the sidewall depicting the size and type of the tire. Please keep in mind that this photo is an example and may not represent the size and type of tire on your RV.



BOUNDLESS RECREATION

Tire Load and Pressure Ratings

It's crucial to adhere to the manufacturer's inflation guidelines to ensure maximum load capacity. Both under-inflation and over-inflation pose risks. Regularly monitor tire pressure to prevent overheating, which could lead to a blowout. Check inflation weekly when the tires are cold, as pressure increases during travel due to heat buildup. Avoid bleeding air from hot tires to prevent them from becoming under-inflated. Tire load and pressure ratings are also indicated on the tire as required by federal laws. Another example of the tire load and pressure ratings is below:



WARNING

Always check tire pressure when tires are cold. Cold tire inflation pressure is defined as a tire that has not been used for three (3) or more hours or has been driven less than one mile (1.6 Kilometers) prior to the pressure measurement. Note that a hot tire may increase the tire inflation pressure by as much as six (6) psi (41.4 kPa) over a cold tire. DO NOT exceed the maximum recommended pressure.

NOTICE

Although it is ideal to check and fill tire pressures when the tires are cold, if you discover a tire on your RV that is underinflated, even if the tires are warm, add air until the recommended cold inflation pressure is reached. The warm tire may remain slightly underinflated, but this is much safer than driving with a significantly underinflated tire. REMEMBER to recheck and adjust the tire pressure(s) as soon as a cold tire pressure reading can be obtained to ensure proper inflation.

BOUNDLESS RECREATION

Overloading Your RV and Tires

Overloading your RV and/or tow vehicle's suspension system can cause spring, axle, shock, chassis damage and/or brake failures. Overloading your RV can increase stopping distances, create handling and/or steering problems or difficulties, cause irregular tire wear, blow-outs, tire failure, and/or other damage to the RV and/or tow vehicle.

In cases of excessive overloading, RV brakes are at risk of failing completely, particularly on steep declines when the weight of the RV applies additional stress to the brake system.

Tire overloading caused by exceeding Cargo Carrying Capacity and/or improper inflation of tires may result in abnormal flexing, wear, and tear of the tire. Abnormal tire flexing can cause an excessive amount of heat to generate within the tire. This should be avoided at all costs. Failure to do so may result in fire and/or damage to tire assembly and/or RV.



EXCESSIVE HEAT MAY LEAD TO TIRE FAILURE. PROPER INFLATION IS CRITICAL. It is the air pressure that enables a tire to support the load.



Overloading your RV can have serious consequences for passenger safety. An overloaded vehicle is generally harder to drive and more difficult to stop. Excessive overloading may also cause brakes to fail completely.



If the weight on the trailer axles exceeds the GAWR, 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 imperative that you remove or rearrange cargo (equipment, personal belongings, water, etc.) until the axle weight no longer exceeds the GAWR before operating the unit. Not operating your RV within the designed weight ratings can damage your RV and can void the warranties.

Tire Tread

The tread of the tires is what provides frictional force, water evacuation, and traction that prevents your RV and vehicle from slipping and sliding. The frictional force also assists in slowing the RV or vehicle down within acceptable stopping distances. This is particularly important when the road conditions are wet, snowy or ice covered. Tires with 1/16" or less tread depth are not safe and should be replaced.

Inspect your tires regularly for uneven tread wear. Uneven tire wear is an indication of imbalanced loads, over or under-inflated tires, wheel balance, or other misalignments. The sooner the cause of uneven tread wear is remedied, the better. Replacing tires can be an expensive endeavor.

Below is a table highlighting different types of tire tread wear and the causes of the pattern of wear:



Spare Tire Carrier/Mount

Your Boundless RV is equipped with a spare tire that is mounted against the underside of the frame of the RV. The spare tire is secured on a hoist system that is mounted to the frame of the RV and is accessed generally from the side of the RV using a hand crank.

To raise and lower the spare tire, follow these steps:

1. Locate the crank handle under the bed or in a storage compartment of the RV.
2. Insert the crank handle in the spare tire access point.
3. Ensure alignment of the crank and the hoist by looking under the vehicle.
4. Turn the crank handle to lower the spare tire to the ground to remove tire from the mechanism.
5. Crank the handle the opposite direction to raise the tire back to its travel position.



The spare tire and wheel may differ from the original equipment. The spare tire is only intended for temporary use. Please refer to the tire specifications on the sidewall of the spare tire for additional information and to ensure your safety.

Tire Changing

If you experience a flat tire on your RV while driving, gradually decrease your speed and move the recreational vehicle to a safe, level place on the side of the road. Use a hydraulic jack and jack stands (both items Customer Supplied) when changing a tire. Below are general instructions on changing RV tires.

1. Keep the RV connected to the tow vehicle and use chocks on the opposite tire.
2. Loosen the lug nuts on the flat tire, but do not remove them completely.
3. Position the jack under the main frame rail just before the front or after the rear tire.
4. Lift the tire off the ground using the jack.
5. Remove the loosened lug nuts and replace the tire with the spare tire.
6. Hand-tighten the lug nuts onto the spare tire.
7. Lower the jack until the spare tire touches the ground.
8. Fully tighten the lug nuts in the proper sequence and torque values.
9. Remove the chocks from the opposite tire.
10. Store the damaged tire for repair or replacement.



NEVER use a stabilizer jack or the leveling system to lift the RV. The stabilizer and leveling jacks are not intended to lift the unit off the ground. Utilizing these jacks to change a tire could result in injury, property damage, voiding a warranty, or death.

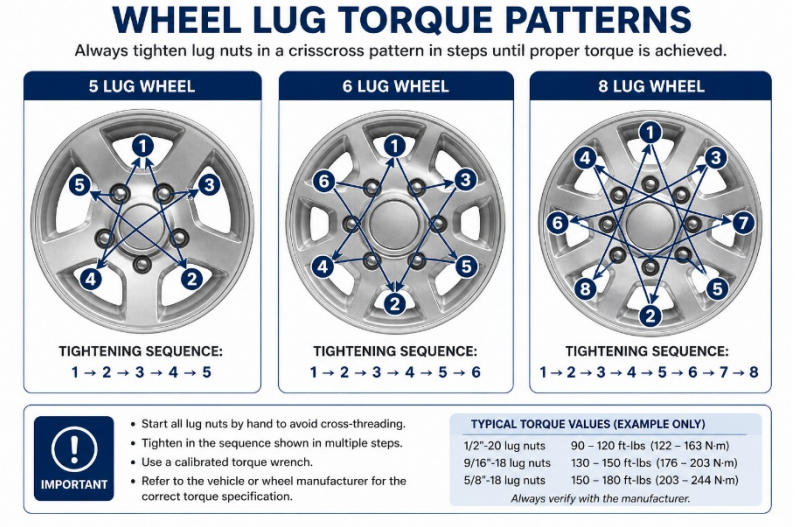


Before you climb or crawl underneath the RV, both the front and rear axles should be supported with jack stands. Failure to do so may result in serious injury, property damage, or death.

BOUNDLESS RECREATION

Wheel Nut Torque

After your first trip, periodically check wheel lug torque for safety, including after winter storage, wheel removal, before trips, and following extensive braking. Tighten lug nuts in two stages, using the correct star pattern sequence to attach RV wheels. Begin by hand and follow the specified tightening sequence. Use a properly calibrated torque wrench and socket, not an impact wrench or hand tightening, to tighten wheel lug nuts. Avoid using a 4-way lug wrench or other tools that don't measure applied pressure. Follow the correct lug pattern on your wheels, as shown in the Wheel Lug Nut Diagram below. Please note that the torque ratings in the diagram may not be specific to your RV wheels.



Lug Nut Torque Specifications:

# of Lug Nuts	Stud Diameter	Rim Size	Rim Material	Torque Rating
8	½"	16"	Steel/Aluminum	90 – 120 ft/lbs.
8	9/16"	17.5"	Aluminum	120-140 ft/lbs.

WARNING

Always torque the wheel lug nuts to the specifications provided by the wheel manufacturer. Over and under-torqued wheel lug nuts can cause the wheel to separate from the mounting surface during transport, causing property damage, personal injury, or death.

Tire Warranty

Tires are warranted by the Tire Manufacturer, not by Boundless Recreation directly. If you require tire warranty assistance, please refer to the tire warranty information provided in the Owner Information Packet. Note that you can always contact Boundless Care for further assistance.

Tire Pressure Monitoring System

Your Boundless RV is equipped with a TPMS system from RoadTech. This system monitors both tire pressure and temperature in real-time, which keeps you always informed during your journey. This system is designed to offer another layer of safety for your travel. To setup and use your TPMS system, you can find the instruction manual in your Owner's bag or in the manuals section on our website at www.boundlessrecreation.com.

SECTION 5: HITCHING AND TOWING

CONNECTING THE RV TO THE TOW VEHICLE

Pin Box

Your Boundless RV is equipped with a pin box from the factory that meets or exceeds the weight ratings required for safe towing of your RV. This pin box has been selected because we feel that this is the best solution for this RV. An example of the standard pin box that we use is pictured below. Please keep in mind that some of the ratings in the photo may not be the exact ratings of your pin box on your RV.



There are many pin box assemblies available in the marketplace that vary in their specifications and use. Pin box selection directly impacts towing and handling of your RV. Careful consideration is crucial when considering a pin box modification, upgrade, and/or replacement. How each pin box type affects towing and handling should be considered if you are looking to purchase an aftermarket pin box. Make sure the proper pin box is selected for your specific RV and towing vehicle. Once that selection has been made, make sure your pin box is properly installed for a safe towing experience.

WARNING

The pin box that is provided at the time of purchase of your RV is specifically designed to work with your RV. It is critical that, if you decide to replace or upgrade your pin box, that you select a version that is compatible with and approved for use with your RV. Utilizing a pin box that is not designed for your RV application may result in catastrophic damage, injury and/or death. Further, utilization of an incompatible or unapproved pin box may void your warranty.

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Pin Box Height

Many fifth wheel pin boxes are adjustable to accommodate for the height variance in trucks and suspension systems. There is no recommended hitch height for fifth wheels, but your hitch assembly should be adjusted so that your tow vehicle and RV are level.

1. When the pin box is adjusted too high, the weight of the RV is shifted to the rear of the RV and places more weight on the rear axle of the RV. This could lead to fishtailing while towing and could also overload the rear axle.
2. When the pin box is too low, weight will be transferred forward, applying more weight to the hitch and the tow vehicle. This may affect the handling of the tow vehicle and may also overload the front axle of the RV.

Please refer to the pin box manufacturer's instructions for adjusting the height of the pin box. If you have any questions or concerns, please contact Boundless Care.

Hitch

This type of pin box requires a pin box hitch to be installed on your tow vehicle to properly connect the RV to the tow vehicle. This hitch will be bolted directly to the bed of the tow vehicle and plays a vital role in towing safety. Please consult Boundless Care or your dealership for recommendations on the proper hitch for your application.

Connecting The RV to The Tow Vehicle

Follow these steps to properly connect your Boundless Recreation fifth wheel to the properly equipped tow vehicle.

1. Park on a level surface. Having both the RV and the tow vehicle level will help ensure a solid connection of the pin box to the tow vehicle hitch. This will also make it easier to back your tow vehicle to your RV.
2. Use wheel chocks on the rear RV tires to prevent the RV from moving.
3. Open the jaws on the hitch in the tow vehicle, unless they open automatically by design.
4. Open the tailgate of the tow vehicle if equipped.
5. Back the tow vehicle to the RV pin box until you are only a few inches away and then stop and park the tow vehicle.
6. Adjust the height of the RV, if necessary, by raising or lowering the front landing gear of the RV. The plate of the pin box should be roughly ½" lower than the top of the fifth wheel hitch in the tow vehicle. With the RV at the proper height, the two are ready to connect.
7. Back the tow vehicle slowly until the pin on the pin box (kingpin) is fully seated in the hitch. When the two connect, the hitch jaws should close, but this should be checked for proper engagement.
8. Secure the hitch lever as specified by the hitch manufacturer and install the safety pin into the handle.

9. Place the tow vehicle in drive and lightly tug on the RV with the tow vehicle to make sure the connection is secure.
10. Retract the landing legs of the RV.
11. Attach the breakaway switch cable to the tow vehicle making sure there is enough slack in the cable to accommodate tight turns.
12. Connect the 7-way wire harness from the RV to the tow vehicle and secure in the travel position.
13. Walk around the RV to verify the exterior lights are all working properly.
14. Remove the wheel chocks from the rear tires of the RV.
15. You are now connected and ready to travel.



NEVER climb under the RV while it is being towed, lifted, or leveled.



Failing to follow the above-described hitching steps may lead to property damage, injury and/or death. Further, failing to retract the front jack(s) can lead to substantial damage to the jacks, your tow vehicle, and/or the RV.



DO NOT USE THE LANDING GEAR LEGS (FRONT JACKS) OF THE FIFTH WHEEL TO SUPPORT THE WEIGHT OF THE TOW VEHICLE.

RV BRAKING SYSTEM

General Information

To maintain proper use and performance of your RV brakes, they must be used in combination with the brakes of your towing vehicle. RV brakes are designed to work alongside the brakes of your towing vehicle and should not be operated separately. If separately used, the brake system will experience accelerated wear, tear, and damage.



Using only the trailer brakes can result in overheating that causes damage to the brake components and could potentially lead to a fire.

Brake Actuator

Your Boundless RV is equipped with an electric over hydraulic disc braking system. This means that the system is initiated with electricity from the tow vehicle to the brake actuator on the RV. The brake actuator then pumps brake fluid through brake lines to the calipers of the braking system, squeezing the brake pads on the rotors of the wheel hubs. A photo of the brake actuator is provided below. This component is located toward the front of your RV. Usually in a front compartment near your battery storage area.



Brake Controller

A brake controller (Customer Supplied) is highly recommended to assist in the performance of your brake system. It is installed in your tow vehicle and will assist in adjusting the sensitivity of the brakes. Please consult with your Dealer or the supplier of the brake controller to decide which controller is best for your RV and tow vehicle combination.

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7-Way Wire Harness/Connector

Your RV is equipped with a 7-way wire harness/connector plug, facilitating the transfer of electrical power from the tow vehicle during travel. This powers essential components such as the RV brakes, taillights, clearance lights, turn signals, and brake lights. It's crucial that the wiring for operating your brakes matches in size between the tow vehicle and RV, with the RV brake wiring typically using 12-gauge wire.

Extended use may lead to corrosion buildup on the connector plug, affecting electrical contact. Regular cleaning is recommended to maintain optimal performance. Keep the connector plug clean and shielded from road elements while traveling to prevent damage.



WARNING

If the towing connector plug is damaged, you must replace it immediately. A failure to replace the towing connector plug when damaged may result in an electrical short leading to accidents, damage, fire, injury, and/or death. The connector plug provides all safety related lighting as well as power to your RV brakes.

BOUNDLESS RECREATION

Breakaway Switch

The breakaway switch is a critical safety component of the RV brake system. You'll find this located on or near the fifth wheel pin box. If the fifth wheel and the tow vehicle become separated during towing, the line will pull the plunger out and immediately activate the trailer's brakes. Always make sure your breakaway switch is in working order.





Neither the breakaway switch nor the trailer brakes should ever be used as a parking brake.



Ensure that there is enough slack in the breakaway switch cable to allow for a tight turning radius.



SAFETY BREAK-AWAY SWITCH WILL NOT OPERATE unless connected to a power source equivalent to or greater than an automotive type 12-volt battery.

Testing The Breakaway Switch

To properly test the breakaway switch on your RV, follow these steps:

1. Disconnect the 7-way cord from the RV to the tow vehicle. Failure to disconnect the 7-way cord may result in an error message or damage to the vehicle's brake controller.
2. Pull the breakaway switch cable out of its seated, operating position.
3. Listen for the brake actuator pump to run, pressurizing the brake system.
4. The brakes should engage from the cable being pulled out.
5. With the tow vehicle still connected, move the tow vehicle forward slightly to be sure that the brakes are engaged and operating correctly.
6. Re-insert the breakaway switch as soon as possible to deactivate the breakaway.
7. It is important to not let the brake actuator pump run for an extended period to avoid overheating.

TOWING YOUR RV

Tow Vehicle

We recommend your tow vehicle have a tow weight rating to handle at least the Gross Vehicle Weight Rating (GVWR) of the RV you have selected. Please consult with your tow vehicle's dealer for more information about the specific ratings of your tow vehicle.

All customers should consult with a motor vehicle manufacturer or dealer concerning the purchase and use of suitable tow vehicles for your Boundless Recreation RV.

Please see SECTION 4 of this manual for key information on weight distribution and proper weight capacities concerning your RV and tow vehicle.

Towing

General Information

Towing an RV can be enjoyable when special attention toward safety is applied every time you tow your RV. Before heading out on your first camping trip practice turning, stopping, and backing in low traffic areas or large parking lots. Driving with an RV in tow is different. Start out slowly, check the traffic after signaling and be sure the road is clear. Accelerate slowly and evenly, checking the mirrors frequently as you move into the proper lane. Try to drive with anticipation of problems that may occur way ahead and prepare for them even if they may never happen.

As a motorist sharing the road, you are taller, heavier, longer, and require more time and distance to stop. Weather and road conditions will require adjustments to speed. Anticipate dips, gutters, and depressions in the road, slowing down well in advance. These are the hardest jolts of any kind on your vehicle, hitch, RV, and items stored inside the RV. Take dips and bumps slowly and be certain the RV wheels have passed the obstacle before accelerating.



DO NOT ALLOW PASSENGERS TO RIDE IN THE RV DURING TRAVEL. THE RV DOES NOT HAVE SEAT BELTS AND IS NOT DESIGNED TO CARRY PASSENGERS. THIS MAY ALSO BE PROHIBITED BY STATE LAW.

Braking and Stopping Distance

When towing an RV, be sure to allow for greater stopping distances. Before towing the RV, it is best to practice braking and stopping in a large parking lot (where allowed). This will allow you to become familiar with the RV brake system and practice braking with your RV before driving in traffic. Your RV is a substantial amount of weight behind your tow vehicle, and it is imperative that you are comfortable with the additional distances required to safely stop.

1. Avoid road conditions and situations that may require excessive and/or prolonged use of the RV brakes.
2. Easing into a stop will increase the longevity of the brake life of your RV and tow vehicle. Hard, fast, braking will result in additional wear and tear on the brake system on both the RV and the tow vehicle.

While descending a steep elevation, place the tow vehicle into a lower gear or lower gear range if your tow vehicle has an automatic transmission. This will allow the engine and transmission of the tow vehicle to help regulate the speed of the vehicle itself and in return extend the life of the

brakes.

1. Engage, then release the brakes in short intervals to allow for cooling.
2. When driving in or through deep water, be prepared to increase stopping distances and be aware that wet brakes may cause the vehicle or trailer to pull to the side.
3. If you notice that the brakes are not operating efficiently, do not continue towing the RV until the brakes are inspected and repaired or replaced as needed.
4. Always check the brake operation of the RV in a safe environment prior to travelling to ensure proper operation.

Road Conditions

Adjust driving according to the road and environmental conditions.

1. Slow down, then release the brakes prior to crossing railroad tracks or crossways.
2. Sudden acceleration or deceleration in wet or icy conditions may cause sliding and ultimately loss of control.
3. When there are potholes, dips, or bumps in the roadway, slow down well in advance to reduce the jolting and lurching of the tow vehicle and RV.
4. When driving on uneven surfaces, reduce towing speeds. Before accelerating, ensure that you are completely through the uneven section and onto level surfaces.

Cornering

When turning, the RV will make a tighter turn than the tow vehicle and does not follow the same path as the tow vehicle. To compensate for this difference, take wider turns with the RV attached. In intersections, carefully pull into the intersection further so the RV has the proper clearance for the turn.



While turning, it is critical that you are completely aware of your surroundings and ensure proper clearances. Use caution when making turns to ensure that you avoid collisions with objects around you. When parking in tight locations, utilize a spotter as a guide. Use caution when taking sharp turns and corners and be aware that swerving while towing your RV can result in a loss of control, particularly at higher rates of speed.

Passing

When towing an RV, the tow vehicle is under greater load and will take longer to accelerate and reach highway speeds. Allow additional time when pulling out onto a road or while overtaking another vehicle. When changing lanes, always accommodate for the extra length of your RV. Be cautious of your surroundings and be prepared to change the speed of your tow vehicle and your lane quickly and safely.

Backing

When selecting a campsite, choose a level site that you can pull through or back into. Prior to parking your RV, inspect the campsite to ensure it satisfies your expectations and that there are no unforeseen obstructions.

1. Make sure there is plenty of clearance for the length, width, and height of the RV.
2. Make sure the path is free of ground level and hanging obstacles.
3. It is best to choose a campsite that is on the driver's side of the vehicle.
    a. This allows the driver to see the rear of the RV while backing.
    b. A passenger side campsite is on the "blind side" of the driver, making it more difficult to back the RV.
4. Position the tow vehicle and RV for backing into the site location.
5. Make sure there are no obstructed views before backing up your RV.
6. When reversing, move slowly. Use the mirrors of the tow vehicle and cameras, if equipped, to help guide the RV into the desired parking location.
7. Use your passenger as an additional guide to assist you. This helps eliminate blind spots.

Parking

Once the RV is in the desired location and position:

1. DO NOT pull the RV breakaway switch to engage the RV brakes.
2. Place the tow vehicle in park and engage the parking brake on the tow vehicle ONLY.
3. Turn the tow vehicle ignition OFF and remove the keys.
4. Block the RV wheels with wheel chocks (customer supplied)

BOUNDLESS RECREATION

Unhitching the RV from the Tow Vehicle

1. Stabilize the RV by lowering the front landing gear legs (front jacks). For proper operation of the jacks, refer to the manufacturer's instructions.
2. Disconnect the 7-way cord from the tow vehicle.
3. Unclip the breakaway cable from the tow vehicle.
4. Open the tow vehicle tail gate.
5. Shift the tow vehicle into reverse, but do not press the accelerator. This will remove pressure from the locking bar, allowing it to properly disengage.
6. Once the pressure is relieved from the locking bar, apply the brakes and place the tow vehicle back in park.
7. Disengage the locking bar and disconnect the pin box of the RV from the hitch in the tow vehicle.
8. After the pin box is fully released, slowly pull the tow vehicle forward keeping the tow vehicle and the RV straight. Pulling forward at an angle could cause damage to the tow vehicle or the RV.
9. Level the RV.



Fully retract the landing legs PRIOR TO moving the RV in any way to prevent damage.



When parking on gravel, dirt, or asphalt on a hot day, place a block of wood or pad under each landing leg to prevent them from sinking into the surface. Make sure the same material is used under each leg to ensure the load remains evenly distributed.

SECTION 6: LEVELING

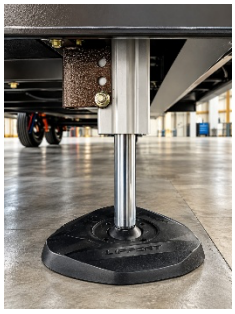
General Information

The leveling system on your Boundless Recreation RV is a hydraulic leveling system. This system includes six points of contact with the ground, utilizing six jacks and a multi-valve hydraulic valve block called a manifold. A 12-volt electric motor drives a hydraulic pump that moves fluid through a system of hydraulic hoses, fittings, and jacks to level and stabilize the RV.

Components of the Leveling System

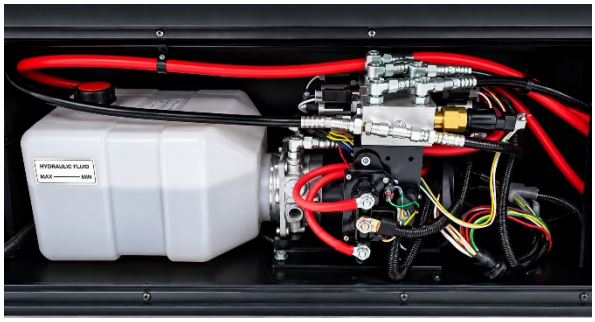
The leveling system is comprised of the following components;

1. Leveling Jacks
   a. The RV is equipped with six hydraulic leveling jacks. The two front jacks are commonly referred to the "landing gear". The four remaining jacks are the leveling jacks. All jacks come equipped with steel footpads on a swivel to provide solid footing on natural ground. All jacks are operated by a 12-volt motor and pump assembly.





2. Hydraulic Pump/Motor Assembly
   a. The motor/pump assembly is comprised of the following.
      i. 12-volt motor
      ii. Hydraulic Fluid Reservoir
      iii. Control Valve Manifold
      iv. Solenoid Valve



3. System Controls

a. The system can be controlled in fully automatic or manual operation modes by the following methods.
    i. The level-up touch panel is located on the driver side (off-door side) of the RV in front of the pass-through storage baggage door.



WARNING

Make sure the 5th Wheel is properly supported with jack stands, or other adequate devices, under the frame of the 5th Wheel prior to performing any service or repair procedure. Never support the 5th Wheel by the axles or suspension. Never allow the tires to leave the ground when lifting the 5th Wheel—this creates unstable and unsafe conditions. Any attempts to change the tires, or perform other service, while your 5th Wheel is supported solely by the leveling system could result in death or serious personal injury, severe product damage, and/or property damage.

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Make sure to keep hands and other body parts clear of fluid leaks. Fluid leaks in the leveling system may be under high pressure and can cause serious skin-penetrating injuries. Make sure all people, pets and property are clear of the 5th Wheel while the leveling system is in operation. A fluid leak within a highly pressurized hydraulic system can cause serious skin-penetrating injuries. Wear appropriate Personal Protective Equipment (PPE), such as long sleeves, gloves, protective eye wear or a full-face shield, when performing service or maintenance to the 5th Wheel.



The leveling system is powerful enough to lift the entire GVWR of the RV. This amount of power when moving can easily pinch, crush, or cut objects that it contacts. Keep clear of the system while it is in operation and use caution.

BOUNDLESS
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Prior to Operating the Leveling System

1. Make sure the RV is parked on a reasonably level surface.
2. The tow vehicle should be disengaged and clear of the RV with the RV landing legs extended to the ground.
3. All people, pets, and objects are clear of the RV.
4. Ensure the battery of the RV is fully charged or that the trailer is getting power from another source, so the system has the proper amount of power to operate correctly.
5. Make sure that all baggage and entry doors are closed as well as checking that entry steps are in the up position or free from potential damage while the RV levels. Not doing so could result in damage to those items.

System Operation

1. Operation of the control panel can be found in the Leveling System Owner's Manual found in your Owner's Bag or at the Boundless Recreation website under Component Manuals.
2. Below is a quick reference for operation of the Leveling System.
    a. NOTE: The default operation mode for the leveling system is AUTO mode.
    b. Step 1: press the screen to wake up the system.
    c. Step 2: Enter your PIN. The default PIN is 5241
    d. Step 3: From the ARRIVAL screen, press the extend landing gear button to lower your landing jacks.
    e. Once the landing gear is holding the RV, the tow vehicle can be moved from under the RV.
    f. Step 4: In the Camping Screen, press the Start Auto Level button.
        1. This will automatically level the camper using all jacks.
    g. Step 5: If the system needs minor adjustments for leveling the RV, enter Manual Mode.
    h. Step 6: Once in manual mode, you can adjust the jacks individually from the screen.
    i. Step 7: Enjoy your stay!

SECTION 7: SLIDE-OUT SYSTEMS

General Information

Slide-out rooms are designed to provide you with additional living space during stationary camping.

1. To extend, retract, and to seal a slide-out correctly, the RV must be level. If the RV is not level, the slide-out rooms and/or their parts may be damaged or may leak.
2. Slide-outs do not need any additional support other than what is supplied by the manufacturer of the RV. Any damage that results from using additional support may not be covered under the Boundless Recreation Limited Warranties. This includes any damage that may result from the improper use or use of aftermarket support jacks.



Before operating any slide-out, review and understand all operation instructions and safety alerts.



Slide-outs and slide-out mechanisms are crush hazards. Disable the auxiliary battery and flip the breaker on the distribution panel to cut power to the converter BEFORE working on or under a slide-out. Failure to do so may result in serious injury or death.



Before extending or retracting a slide-out, make sure the surroundings are clear of objects, people, and pets. Failure to do so could result in serious injury or death.



Prior to operating a slide-out, ensure sufficient power is available and that the RV is properly leveled. Failure to do so may result in damage to your slide-out or slide-out mechanism.

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Slide-Out Controls

For your convenience, your Boundless RV is equipped with multiple locations to operate your slide-outs. Slide-out operation can be performed from either side of the RV inside the front basement storage area by utilizing the switches provided, or you can operate the slides from inside the unit by utilizing the switches in the main control panel. From the door side of the RV, you will only be able to operate the door side slide-outs and from the Off Door Side of the RV, you will be able to operate ONLY the off-door side slide-outs. From inside the RV, you can operate ALL slide-outs. To operate press the appropriate button the proper direction to either extend or retract the slide-out that wish to operate.







Slide-Out Operation

It is normal for slide-outs to make noises such as squeaking or creaking while being operated. These noises are more common during the "break in period" of the RV and will continue until components and materials are seated properly. After a few uses, this noise will likely diminish.

Slide-Out Operation

1. Before operating any slide-out, level and stabilize the RV.
2. Make sure that the RV wheels are properly chocked, so the RV does not move during the process.
3. Make sure that there is a proper power source connected to the system. If running on battery power, make sure that the battery is fully charged and that all other items powered by the battery are turned off to provide sufficient power for the system to properly function. If using shore power supplied by the location that you are parked, make sure that the RV is connected properly to the power source.

4. Before extending or retracting a slide-out:
    a. Close all cabinet doors and drawers.
    b. Make sure that the travel path of the slide-out, both interior and exterior are free from people, pets, and other objects that may obstruct the movement of the slide-out to its desired position.
5. To extend the slide-out, press and hold the out or extend button. Refrain from releasing the button until the slide motor stalls indicating that the slide has reached its maximum travel distance. A slight delay may occur prior to the slide out moving, which is normal in the operation of the slide-out.
6. Before retracting the slide-outs, make sure the walls, roof, and floor are not wet and that there is no debris or object that may hinder the movement of the slide-out.
    a. If water puddles or debris are present, dry or remove the debris immediately.
7. To retract the slide-out, press and hold the in or retract button. Refrain from releasing the button until the motor stalls indicating that the slide-out has reached its maximum travel distance. A slight delay may occur prior to the slide-out moving, which is normal in the operation of the slide-out.



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



STAND CLEAR OF THE SLIDEOUT'S INTERIOR PATH AND VERIFY THAT THERE ARE NO EXTERIOR OBSTRUCTIONS BEFORE EXTENDING OR RETRACTING THE SLIDE-OUT. ALSO, THERE ARE HARD, SHARP METAL EDGES UNDER THE SLIDEOUT(S) AND IN THE SLIDE-OUT MECHANISMS. CHILDREN SHOULD BE MONITORED AT ALL TIMES, AND NOT ALLOWED TO PLAY UNDER THE SLIDE-OUT(S) WHEN EXTENDED. KEEP ALL PEOPLE, PETS AND OBJECTS AWAY FROM THE SLIDE-OUT ROOM AND MECHANISM DURING OPERATION. THE MECHANISM ASSEMBLY MAY CATCH LOOSE CLOTHING OR PINCH OR CRUSH APPENDAGES. FAILURE TO FOLLOW THESE WARNINGS COULD RESULT IN SERIOUS INJURY OR DEATH.

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Weather and atmospheric conditions will cause rubber to deteriorate over time. Inspect seals around slide-outs regularly and replace at the first sign of a problem.

Periodically, during the normal course of operation, slide-out systems and rooms will require adjustment.

Slide-out rooms should be stored retracted.

Keep mechanical components clean of road debris, salt, etc. using mild soap and water.

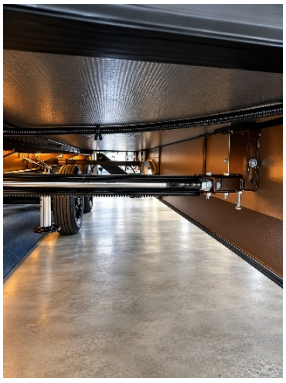
Rooms that will be extended for long periods of time should be actuated monthly.

Failure to follow these basic steps can lead to intermittent operation of the slide-out system, improper sealing, personal injury and damage to the RV which is not warrantable.

Types of Slide-out Systems

Hydraulic Through Frame Slide-Out

This system's function is to allow the slide room to extend and retract at the push of a button. The through-frame hydraulic system is a rack-and pinion guided system utilizing a hydraulic cylinder to move the room assembly and is operated as a negative ground system.
The power unit pressurizes the hydraulic transmission fluid and the fluid pressure then causes the cylinder rod to extend and retract. Please refer to the manufacturer's manual for complete instructions on use, maintenance, limitations, and warnings.



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Lippert Electric Low Profile Bed Slide System

Unlike a through frame that passes through the RV chassis, this system is mounted underneath the bed but still uses a rack and pinion style mechanism for slide-out movement. This system is strictly electric and does not utilize the hydraulic system that is required for the main slide-outs on your Boundless RV. Please consult the component Owner's manual for proper operation and trouble shooting.



SECTION 8: ELECTRICAL SYSTEMS

General Information

Your Boundless Recreation RV is equipped with 120-volt 60hz AC power and a 12-volt DC power system. The electrical system and all its components are engineered and designed specifically for RV's. All installations and components utilized meet or exceed the RV industry standards applicable as of the date the RV is manufactured.

1. Hazardous conditions may occur if aftermarket modifications or additions are made to the RV's electrical system.
2. Modifying or making unauthorized additions in the RV is not recommended by Boundless Recreation.
3. Only an authorized Dealer or authorized electrical technician should perform service to the electrical system of your RV.

When providing maintenance or repairs to the RV, only components, methods, and materials that follow current safety and code requirements are permitted. Please consult with your Boundless Care or an Authorized Dealer's Service Center for assistance.



Use caution when working on the electrical system, especially when using metal tools. When a metal tool encounters a live, powered source it will cause the system to short circuit potentially resulting in personal injury, property damage, explosion, or fire.

Electrical System Maintenance

For more information on the electrical system within the RV, please refer to the component manuals in the Owner Information Package.



Before working on or near an electrical system, always disconnect the negative 12-volt terminal on the battery and the shore power cord.



Prior to disconnecting the battery, always make sure the power to the converter is turned off. Failure to do so may result in damage to your RV or personal injury.

Power Cord (Shore Power)

The power cord commonly referred to as the shore cord or shore power cord connects the RV to an external power receptacle commonly found at campsites.





Shore Cord Power

This power cord has two main functions:

1. Supply an electrical feed from the external power source (power pole at a campsite) to the RV.
2. Supply proper ground to the electrical system within the RV from the external power source.

Connecting Power

1. Disconnect power to the load center by turning off the main 120-volt circuit breaker.
2. Extend the shore power cord from the RV and fully extend the cord so there are no kinks or coils in the cord.
3. Connect the shore power cord to the exterior receptacle on the RV.
4. Plug the shore power cord into the external power source. Make sure that all prongs on the power cord are fully seated in the receptacle on the RV.
5. Inside the RV, turn on the main 120-volt breaker in the load center.
6. The following can help prevent damage from occurring due to possible power surges:
    a. Disconnect the shore power cord any time the RV is left unattended. This will lessen the damage if a power surge were to occur while you are away from the RV.
    b. Carefully and properly connect the shore power cord to the RV's power receptacle to make sure that the prongs are not bent or damaged.

c. When disconnecting the shore power from the RV:
   i. Turn the main 120-volt breaker off in the load center.
   ii. Unplug the shore cord from the external power source.
   iii. Disconnect the shore power cord from the RV.
   iv. Recoil the power cord using the power cord reel or manually coil the cord for storage.



The power cord MUST be fully extended and not coiled on the ground or in the compartment when in use. When the power cord is left in a coil, it may generate enough heat to melt the protective casing resulting in damage to the RV, personal injury, or fire.

Power Cord Maintenance

Frequently inspect the components of the power cord for cracks, cuts, worn/melted insulation, and exposed wires. If any of these conditions are present, discontinue use and replace immediately before continuing use.

120 Volt AC Power System

General Information

Your RV is equipped with a 50-amp electrical service. This service is designed to operate on two (2) 120-volt power legs at a maximum flow of 50 amps/leg. When connecting to an external power source, the source must be a 50-amp service. When connecting to electrical service at a campground, the electrical service may occasionally experience spikes or drops in voltage.



Voltage spikes and drops can damage and/or shorten the service life of the electrical system and all the components it supplies power to.

The following electrical components will only operate when the RV is connected to a 120-volt power source, such as shore power (typical campsite connection), or a generator, if equipped.

1. Air Conditioners
2. Power Converter – Converts 120-volt power to 12-volt DC power.
3. Household type power receptacles
4. Fireplace
5. Water Heater

To protect your RV against voltage spikes and drops, use a surge protector between the power source and the RV. These can be purchased at many sources as an aftermarket product.

120-Volt Circuit Breakers

All 120-volt AC circuit breakers are located within the load center that can be found in various locations depending on the floor plan of your unit These breakers function to protect 120-volt wiring and their supplied components. Each breaker found within the load center will be identified and labeled.



1. If an overload or a short circuit occurs, the corresponding breaker will trip causing the electricity to stop flowing past the breaker.
2. Once the breaker is tripped, allow time for the breaker to cool.
3. To reset the tripped breaker, flip the breaker switch off and then flip it back to the on position.

4. If the breaker immediately trips again, call Boundless Care, your authorized Boundless Recreation Dealer, or an authorized service provider for further investigation.

Maintenance and Replacement of 120-Volt Breakers

Circuit breakers can wear out over time due to extensive use or exposure. Breakers should be inspected on an annual basis prior to the start of camping season. Replace breakers as needed but make sure they are replaced with the same rating and type that were originally installed.



To confirm the circuit breakers are operational, flip the breaker to the OFF position and then back to the ON position. As soon as you recognize unusual operation, discontinue use, and contact your Boundless Care for assistance. Failure to do so may result in damage to the RV, personal injury, or fire.

Converter

The INTELI-POWER series converter will supply "clean" power from input voltages that range from 105 - 130VAC. The INTELI-POWER series of converters are primarily designed for use with a battery, however, the output of the INTELI-POWER converters are a regulated, filtered DC voltage that can power sensitive electronics without the need for a battery or other filtering. At normal input voltages (105 – 130VAC) the full load rated capacity is available. At input voltages less than 105 VAC the converter may not supply full rated output capacity.



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Please note that you will need a battery connected to the RV to operate your hydraulic slide-out and leveling system. The converter alone, even when plugged in to shore power will not have enough power to operate the system.

Inspection and Maintenance – Converter

Consult the included User Manual for the Progressive Dynamics PD4575A Power Center for inspection and maintenance information or contact Boundless Care for assistance.

GFCI Receptacles

Ground wires help to stabilize current and offer a secondary path for electrical currents to travel in the case of exposure to a high voltage spike. This in return helps to prevent an electrical shock. Every Boundless Recreation RV contains ground fault current interrupters (GFCI) designed specifically for the electrical system within your RV. GFCI receptacles are designed to monitor the flow of electrical current between hot and neutral conductors and sense if an abnormality occurs. This circuit and device are designed with the intent to reduce possible injury caused by an electrical shock.



NOTICE

A GFCI will not protect against circuit overloads or short circuits.

When a GFCI receptacle senses an abnormally high 120-volt current present through the grounding circuit, the GFCI will trip. This occurrence will generally happen when wires become wet inside an appliance, faulty wire insulation, a short within electrical equipment, etc.

Testing a GFCI Receptacle

1. Push the test button on the receptacle. This should immediately trip the outlet, and the reset button should pop out. Once the receptacle is tripped, no power should pass through it.
2. Verify that no power is present. This should be done with a receptacle tester rather than an appliance or powered object.
3. When you are sure that no power is present, press the reset button. This should restore power flowing through the receptacle.
4. Verify that the power flows using the receptacle tester.
5. If the receptacle does not test properly or is defective, have the receptacle replaced.

12 Volt DC Power System

Many RV components including the water pump, lights, motors, slide-outs, leveling, and appliances operate on 12-volt electricity.

1. The converter will convert 120-volt power to 12-volt power when the RV is connected to external power. The converter also charges the battery or batteries when the RV is connected to a power source.
2. The battery supplies 12-volt power to the RV when no external power is connected but should not be used as the main electrical source.
3. When towing, the alternator of the tow vehicle will supply 12-volt power through the 7-way cord if it is properly connected to the RV and the tow vehicle engine is running.

The 12-volt power, from the 7-way, runs many of the key components needed for travel including brake lights, turn signals, running lights, and the breakaway switch. In addition to supplying power to these essential components, the 7-way wire harness will also provide a power source to charge the auxiliary battery within the RV.

12-Volt DC USB Ports

Within your RV you will find several 12-volt DC USB ports. When using these outlets, only use them on appliances and components that only require 12-volt and consume less than 60 watts, or 5 amps. To prevent short circuits from occurring, keep all 12-volt USB ports free of any debris or foreign material.



12-Volt Fuse Panel

Inside the 12-volt fuse panel, labels will indicate the fuse locations, sizes, and component that it powers. Do not remove any of the labels.

Inspect all fuses on a periodic basis, especially prior to camping season and replace as needed.

Replacing Fuses

1. Turn off or unplug all components prior to replacing a fuse.
2. Disconnect the shore power cord from the external power source.
3. Disconnect the negative terminal from the battery that powers the RV.
4. Access the fuse panel and inspect fuses.
5. Remove the bad fuse by pulling straight back on the fuse from the fuse block.
6. Replace as needed using the same style and size fuse.

If the fuse is not blown and you still experience a no power situation, please contact Boundless Care for assistance.



Never replace a fuse with one that contains a different amperage rating or another type other than the original. Failure to do so may result in personal injury, damage to the RV, or fire.

Auxiliary Battery or Batteries

In the RV there are multiple 12-volt circuits. When all circuits are combined, the voltage load tends to be much greater than what the converter is capable of handling and auxiliary battery power is needed (batteries are supplied and installed by your selling dealer).

Here are the key points regarding the auxiliary battery in your RV:

1. **Usage** - The auxiliary battery provides power to your RV's 12-volt DC loads when the power converter cannot meet the demand. It's typically used during dry camping or when the RV is not connected to shore power.
2. **Battery Type** - Your RV is designed to use a Group 24, 27, or 31 deep cycle battery. If your RV came with a solar package, it may be equipped with a lithium battery instead.
3. **Charging and Discharging** - Before dry camping, ensure the auxiliary battery is fully charged. Monitor the battery voltage regularly using a volt-ohm meter. A fully charged lead acid or AGM battery reads 12.7 volts DC. Discharging the battery below certain levels can cause irreversible damage.
4. **Estimated Usage** - Consider the power consumption of your appliances to estimate battery usage. For example, running the furnace and refrigerator simultaneously may

consume around 15 amps per hour. Plan your electrical usage accordingly to avoid draining the battery too quickly.

5. **Installation and Maintenance** - The auxiliary battery should be installed in parallel with the battery in your tow vehicle. Disconnect the negative cable from the auxiliary battery during storage to prevent discharge. Check the voltage monthly and recharge the battery as needed.
6. **Replacement** - When replacing the auxiliary battery, choose a Group 24, 27, or Group 31 true deep cycle battery for extended run time. Ensure the positive and negative battery cables are correctly connected to avoid blowing the reverse polarity fuse(s).
7. **Disconnect Switch** - The fuse panel disconnect switch, located in an enclosed exterior compartment, shuts off 12-volt DC power to the main fuse panel and the interior of the vehicle. Rotate the dial or lever counterclockwise to turn off the switch.



A charged auxiliary battery must be installed before the RV is towed. The auxiliary battery powers the emergency braking system used to automatically activate trailer brakes in the event the trailer becomes disconnected from the tow vehicle.



Lithium batteries charge at a different rate than lead acid or AGM batteries. Your tow vehicle may not fully charge your lithium battery during transit due to the higher charge voltage required for lithium batteries. The battery will charge, just not to 100% capacity.

Dry Camping – Boondocking

Dry camping, also known as boondocking, involves camping in your RV with no electrical or water hookups. Prior to dry camping with your RV, make sure the battery bank is fully charged. If the components within the RV are strictly running off the power supplied by the battery bank, and the battery bank is not being charged by the generator (If equipped) or solar, the battery bank will deplete in charge over time and will deplete at a faster rate the more power that you require. As an auxiliary battery becomes depleted and the charge lessens, it will discharge faster. It is highly recommended that you plan your electrical usage accordingly.

In some cases, it is possible for the RV to drain the battery of the tow vehicle when the tow vehicle is not running, but is still connected through the 7-way plug to the RV. To prevent this from occurring, disconnect the 7-way plug when the tow vehicle is parked, and the engine is not running.

Maintaining or Replacing 12-Volt Equipment

Several components within the RV continuously draw battery power, even when the components are turned off (i.e., radio, TV, microwave, power tongue jacks, safety related equipment, etc.). The on-board memory of these components requires continuous power to save the memory. To prevent the auxiliary battery from being drained while not connected to shore power, utilize the master battery disconnect to fully disengage the battery. While the unit is in storage, it is best to remove the battery and place it on a battery maintainer. If you are unable to do so, it is suggested to check the voltage on the battery monthly and recharge as needed.

When purchasing a new battery or replacing an old battery, the amp hours, voltage, and type must be the same.



When replacing a battery, the amp hours, voltage, and type must be the same as the original one installed. Failure to do so may result in damage to your electrical system, fire, personal injury, or death.



NEVER reverse the positive and negative terminals on the battery cables. Doing so will cause reverse polarity and blow the fuse protecting the converter.

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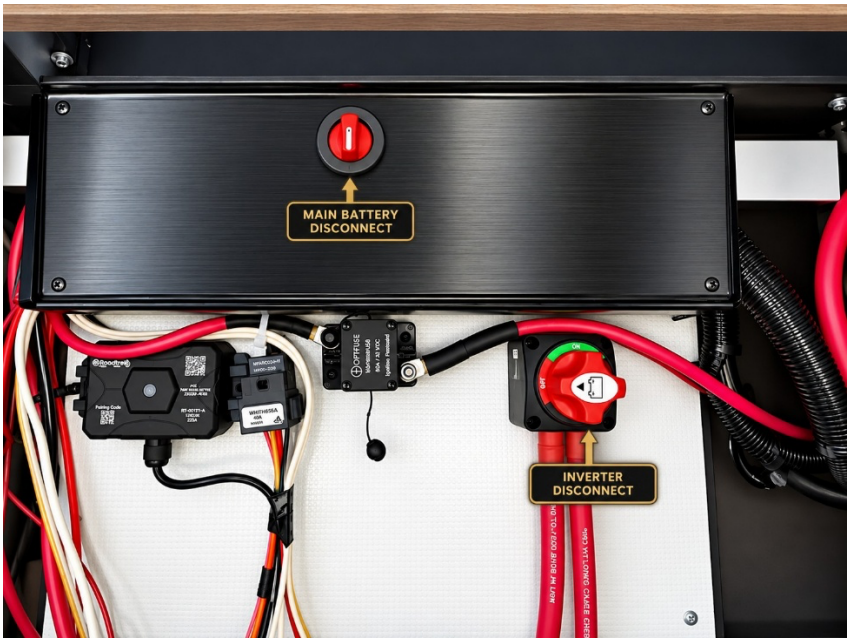
Battery Disconnect Switches

Your Boundless RV is equipped with two (2) separate battery disconnect switches, both located in the battery compartment area of the RV.

The smaller red battery disconnect is located on the main 12V connection panel in the battery compartment. When in the "on" position, this feeds all 12V accessories and appliances for your RV. When this switch is "off", no 12V power will flow to the RV.

The larger battery switch is specifically for the inverter only. This will turn the power "on" or "off" ONLY for the inverter. This means that you can have the main battery disconnect in the "off" position and still utilize the power of your on-board inverter to get 120V power to some outlets on your RV. Also, if the inverter is in the "off" position, you could still have the main battery switch in the "on" position and still utilize all 12V accessories and appliances in the RV.

If the RV will be placed in storage for any amount of time, it is recommended that both switches be turned to the "off" position to not allow any appliances or accessories to draw power from the auxiliary battery.



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Calculating Electrical Load

General Information

When connected to external shore power, the 120-volt AC system can run a maximum of 100 amps momentarily and 50 amps on a continuous basis. If this rating is exceeded, the RV and/or electrical system of the campground may become overloaded, and as a result the main breaker will trip.



DO NOT exceed the combined amount of 100 amps at any given time. To calculate the amps used, the draw of all components being utilized must be added together. To calculate an amperage rating for an appliance, take the wattage of the appliance divided by the voltage. Both the wattage and voltage should be listed on the appliance. For example: A 120-volt appliance rated at 1200 watts would utilize 1200 watts/120-volts = 10 amps.

Approximate Electrical Load Ratings

120 Volt System		12 Volt System			
Air Conditioner	14-18 Amps	**Small Lights – Non-LED**	.5 Amps	**Power Awning**	10 Amps
Coffee Maker	6-12 Amps	**Dinette Light**	.5-1 Amp	**Power Vent**	5 Amps
Converter	8-11 Amps	**Vent Fan**	1.5 Amps	**Refrigerator**	5.5 Amps
Curling Iron/ Hair Dryer	10-14 Amps	**LED Puck Light**	.25 Amps	**Antenna Booster**	1 Amp
Microwave	12 Amps	**Furnace**	8-10 Amps	**Water Heater**	6 Amps
Satellite Receiver	2 Amps	**Generator Start**	95 Amps	**Water Pump**	7 Amps
TV	2-4 Amps	**Lighted Switch**	.125 Amps		
Vacuum	8 Amps	**Leveling System**	95 Amps		
Washer/Dryer	12 Amps	**LP Detector**	.125 Amps		
Water Heater	12 Amps	**Porch Light**	1.5 Amps		

Inverter

A factory-installed inverter converts 12-volts DC to usable 120-volts AC, supplying continuous AC power to appliances plugged into it. It's essential to familiarize yourself with the inverter's function and operation, ensuring it's turned off when not in use. If your recreational vehicle features a residential-style refrigerator, the inverter may power it by supplying the necessary 120-volts AC.

The factory installed inverter is not intended for use, nor should be used, with any medical device(s). The inverter may, however, be used with some CPAP machines, depending on the CPAP model. Consult your CPAP machine's instruction manual before use.





Maintenance

There are no customer-serviceable parts inside the inverter case, and tampering will void the manufacturer's warranty. Keep the inverter cooling fins and fan clear of obstructions.

Power Inverter Remote Control Operation

Your RV will come with an inverter remote control located on the main control panel inside the RV. Please see below for operation of the inverter using the remote control.

1. Power Button
    a. Press to turn the inverter on and hold the button to turn the inverter off.
2. Select Button
    a. Cycles between display states: input voltage, output voltage, output power, sleep, and error code.
3. Power Indicator
    a. Lights up green when the inverter is on.
4. Fault indicator
    a. Flashes red when an error has occurred.
5. Shore indicator
    a. Lights up yellow when AC input is detected.
6. Low Battery Warning Indicator
    a. Lights up red when the battery is nearing the end of its charge.
7. Sleep
    a. Lights automatically dim after 30 seconds.

Refer to the inverter Owner and Operator manual for more detailed information and safety precautions.

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Solar Power System

A solar power system effectively charges the battery by converting solar energy to usable 12-volt power. As the battery becomes fully charged, the charge control system will protect the battery from overcharging by limiting the feed of solar power supplied. In your RV, the solar system provides power to all 12V systems if the 12V disconnect switches are in the “on” position.

This Boundless RV is equipped with a total of two (2) solar panels. Each solar panel is 200 watts and is installed on the roof of the RV. These panels are wired in series and provide up to a total of 400 watts.





This Boundless RV is equipped with a total of two (2) solar panels. Each solar panel is 200 watts and is installed on the roof of the RV. These panels are wired in series and provide up to a total of 400 watts.

Also included the RV is a 30-amp solar controller that is compatible with AGM, sealed, and flooded lead-acid batteries, as well as specific types of lithium batteries (LiFePO4 with built in BMS). This controller includes features that will protect your batteries from multiple potentially unsafe conditions along with battery overcharge. Please consult the Go Power Owner’s manual for specific usage instructions and compatible battery types for this controller. If you need further assistance, please contact Boundless Care for guidance.

SECTION 9: GENERATOR

General Information

The OPTIONAL factory-installed generator in your RV provides 120-volt AC power for use when camping in areas without shore power. Here are some important points to consider before starting and maintaining your generator:

1. Safety Precautions:
    a. Make sure that the CO detector in the RV is functioning properly.
    b. Turn off air conditioners and all other appliances prior to starting the generator.
    c. Check for fuel, exhaust, and coolant leaks. If any leaks are detected, stop the generator immediately and have it repaired.
2. Starting the Generator:
    a. Press generator start switch to start the generator. Preheating may take up to 15 seconds depending on the outside temperature.
    b. The hour meter will monitor usage time while the generator is running.
3. Stopping the Generator:
    a. Before stopping the generator, turn off air conditioners and large electrical loads.
    b. Allow the generator to run for 3 to 5 minutes with minimal load to allow the generator to cool down.
    c. Push the stop switch on the generator control panel.
4. Maintenance:
    a. Perform regular maintenance such as oil changes as recommended by the generator manufacturer.
    b. All service work beyond normal maintenance should be done by a repair facility authorized by the generator manufacturer to avoid damage and safety hazards.
5. Exercising the Generator:
    a. Regularly run the generator to keep it in good working order and to prevent fuel varnishing.
    b. Lack of exercise for the generator can lead to moisture build up and fuel system degradation.
    c. Run the generator at a minimum 50 percent capacity for two hours once every four weeks to prevent fuel varnishing and to keep moving parts lubricated.
6. Generator Manual:
    a. For additional detailed information regarding the generator and its safe operation, please refer to the generator Owner's or Operator's manual.

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Running the generator indoors or in confined spaces poses a deadly risk of carbon monoxide poisoning. Always disable AGS (if equipped) before sleeping in the vehicle, parking in a garage, servicing, or fueling it.



To prevent overheating, avoid excessive cranking of the generator starter motor. Limit cranking to 20 seconds at a time, waiting at least two minutes between attempts. If unsuccessful after three tries, consult the generator manufacturer's manual. For optimal performance and engine longevity, especially in cold conditions, allow the generator engine to warm up for two minutes before activating 120-volt appliances.

SECTION 10: PROPANE GAS SYSTEM

GENERAL INFORMATION

Propane gas is a clean burning dependable fuel for operating all propane gas appliances when utilized properly. Propane gas is highly flammable and is contained under high pressure. Improper use CAN cause fires and/or explosions. Propane gas is colorless and odorless in its natural state. An odorant, like rotten egg smell, has been added for consumer safety purposes to help detect leaks and provide warning. If a sulfur or "rotten egg smell" is detected in or around the RV, perform the following steps immediately:

1. Extinguish any open flames and smoking materials.
2. Do not touch electrical switches.
3. Shut off the propane supply at the container valves.
4. Open doors, windows, and vents.
5. Leave the area until the odor clears.
6. Have the propane system checked and leak corrected before using the RV again.



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



Portable fuel-burning equipment, including wood and charcoal grills and stoves, must not be used inside the RV. The use of this equipment inside the RV can cause fires or asphyxiation.

PROPANE GAS SYSTEM

The propane gas system is a closed system made up of bottles (also referred to as cylinders), regulators, valves, supply lines and appliances. Propane tanks contain liquid under high pressure which is vaporized into a gas. The gas is regulated into a lower pressure and distributed through the supply lines to provide the fuel for propane appliances to burn. Consumption of propane gas depends upon the frequency and duration of use of propane appliances. The furnace and oven have the highest consumption rates. During cold weather, it is advisable to check the bottles often and always keep one full. Safety must always be observed when using the propane gas system.

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All pilot lights, appliances and their ignitors shall be turned off before refueling of propane containers. Failure to comply can result in death or serious injury.



Do not fill propane containers to more than 80 percent of capacity. A properly filled propane tank should contain approximately 80 percent of its volume as liquid propane.



Overfilling the propane containers could result in uncontrolled propane flow, which could lead to fire or explosion and result in death or serious injury.



Do not place propane cylinders inside the vehicle. Propane cylinders are equipped with safety devices that relieve excess pressure by discharging propane in the atmosphere.



Propane gas is highly flammable. The presence of propane could lead to a fire or explosion and result in death or serious injury.

REGULATOR

The regulator is the heart of the propane system. Propane is under high pressure in the bottle, and the regulator reduces this pressure to allow safe use with the appliances in RVs. The lower pressure is distributed to the appliances. The lever on the automatic gas regulator will point to the gas bottle in service. When the red flag appears in the inspection glass, this indicates that bottle is empty. The lever should then be turned toward the other bottle and the empty filled as soon as possible.

The regulator has a vent that allows it to breathe. Propane regulators must always be installed with the regulator vent facing downward. Regulators that are not in compartments have been equipped with a protective cover; make sure that the regulator vent faces downward and the cover is kept in

place to minimize vent blockage that could result in excessive propane pressure, causing fire or explosion. Check the vent frequently to keep the vent clean and clear of any debris, corrosion or obstruction. A clogged regulator can result in higher pressures, loss of fuel and/or component failure. The vent can be cleaned by using a toothbrush and should be checked periodically for correct pressure output by a qualified propane service center.



Do not attempt to adjust or repair the regulator. Adjustments and repairs require specialized training and tools. Contact a qualified propane service technician. Failure to follow these instructions can result in a fire or explosion and can result in death or serious injury.

SPLIT BOTTLE SYSTEMS

Boundless Recreation uses a split-bottle system where there is one active propane bottle located on each side of the RV (along with 1 spare propane bottle on each side of the RV). There are some instances where this system may inadvertently activate the “excess flow device” located in the propane "pigtail" hose fitting.

The “excess flow device” is a safety feature that is designed to detect a large leak in the propane system such as a broken gas line and reduce the flow of propane from the bottle. It also activates when the propane bottle service valve is turned on and the propane system is not completely closed, such as when the range burner is left on. The device is not designed to completely stop the flow of propane, but reduce it to approximately 20,000 BTUs/hr.

When activated, one appliance at a time may operate normally, however, when a large demand is placed on the system, such as turning on several appliances or the furnace, they will not receive sufficient propane pressure to operate properly. Follow the procedure below to avoid inadvertently activating the “excess flow device” and to operate the split bottle propane system.

Follow this procedure for the following conditions: after refilling either or both bottles, after any part of the propane system has been disconnected, appliance burners are not operating correctly, and low operating pressure exists downstream from the regulator when operating heavy demand appliances such as the furnace.

1. Verify both propane bottles contain sufficient propane – refill if necessary.
2. Close both propane bottle service valves.
3. Attach the propane pigtails to the service valve.
4. Close manually operated gas valves on the range or water heater.

5. Turn the indicator on the regulator to the bottle closest to it.
6. Slowly open the service valve on the bottle closest to the regulator. This is typically the bottle on the entry door side of the RV. Open the valve fully.
7. Slowly open the service valve on the bottle that is furthest from the regulator until you can hear gas start to flow through. Do not open the valve all the way. Wait 1 minute.
8. Re-close the service valve and then slowly re-open it all the way. The system is now ready to operate.

PROPANE GAS PIGTAILS

The propane systems are equipped with the same Type I cylinder connection as you see on current gas grills. The Type I connection system uses the Excess Flow Pigtail Hose, distinguished by the large green nylon swivel nut. The green swivel nut attaches to the outside of the cylinder valve with right hand threads. Tighten the swivel nut by hand. DO NOT use tools.

The safety features of this system prevent gas from flowing unless the connection is tight and will limit excessive gas flow. In cases of extreme heat, 240° to 300°F, at the connection, the connection to the cylinder will be shut down.

PROPANE GAS LINES

The primary manifold is a black pipe located beneath the RV. Copper tubing with flare fittings are used as secondary lines running to the gas appliances. If repairs are needed to these lines or any component of the propane system, DO NOT ATTEMPT to repair yourself and follow the steps listed under the warning “IF YOU SMELL PROPANE”. Although your propane gas system was thoroughly inspected for leaks before delivery, the propane gas system should be inspected and checked for leaks by a RV dealer at least once a year or any time the system is opened.



The propane piping system is designed for use with propane only. Do not connect natural gas to this system.

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PROPANE GAS LEAK DETECTOR

Boundless Recreation installs a propane gas leak detector on every camper. It is a safety device that is permanently mounted near the floor and is powered by 12-volt (the RV battery and/or converter). The detector is operational only as long as 12-volt power is available. If the power is disconnected, the monitor will not operate.

Should a propane leak occur, the detector will sound an alarm and continue until the gas has dissipated or until a mute button is pressed. The mute button will
only stop the alarm from sounding for 60 seconds and alarm will reoccur if gas is still present. The alarm may sound at times when no propane is present, such as, when household products are in use: aerosol hair spray, cleaners, adhesives, alcohol, etc. Be sure to air out the RV thoroughly after delivery and when using these products. Please refer to the manufacturer's instructions supplied with the RV for care and operation if needed.

The propane gas leak detector has a self-check circuit which runs continuously while receiving 12-volt power. If the circuitry fails, a failure alarm will sound, and the operating indicator will cease to light. Replace the detector when recommended by the manufacturer (typically every five years).

If the alarm sounds:

1. Extinguish any open flames, pilot lights, and all smoking materials.
2. Do not touch electrical circuits.
3. Shut off the propane at the containers or propane supply connection.
4. Open doors, windows, and vents.
5. Leave the area until the odor clears.
6. Have the propane system checked and the leak corrected before using the RV again.



Propane powered appliances produce carbon monoxide. CO can be fatal. When the CO alarm detects carbo monoxide in the air, it will sound. Consult the individual detectors user manual for specific instructions and/or audible warning meanings.



Propane gas could be present in other areas before it can reach the detectors location. The detector only indicates the presence of propane gas at the sensor. Never check for leaks with an open flame.

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SECTION 11: PLUMBING SYSTEM

GENERAL INFORMATION

Your RV plumbing consists of two primary systems: The fresh (potable) water system and the wastewater system.

FRESH (POTABLE) WATER SYSTEM

Fresh (potable) water is supplied to the RV in two ways:

1. By filling the freshwater tank and pumping the water through the system with the 12-volt water pump.
2. Utilizing the City Water setting on the Nautilus multifunction water system panel (shown below). This panel is located in the storage area on the off door side of your RV.



WARNING

Use only potable water in the freshwater system. Sanitize, flush, and drain before using. Failure to comply could result in death or serious injury.

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CITY WATER PORT

The city water setting on the Nautilus system allows a pressurized potable water line connection (water spigot) direct to the RV. Because the connection is pressurized, there is no need to use the water pump. This method also bypasses the water tank and feeds the entire water system directly.

1. Connect the city water fill by using a hose manufactured for potable water use and turn on the source. Turn the valves on the Nautilus system to the city water setting. The RV is now in ”city water” mode.
2. Each time this connection is made, we recommend inspection of visible water connections for leaks. DO NOT leave the RV unattended when hooked to city water fill for extended periods of time. Always use a water pressure regulator to control the water pressure entering the RV.
3. Although the freshwater system was thoroughly inspected for leaks before delivery, fittings can loosen over time and with normal use. Periodically check the fittings at the faucets and all other visible connections and tighten as necessary.

FRESH (POTABLE) WATER TANK

All Boundless Recreation RVs are equipped with a freshwater tank. Tank sizes may vary by floor plan design. To fill the freshwater tank hook a potable water supply to the city water fill valve on the nautilus water system control center, turn the valves to the tank fill position and turn on the water supply. While filling the tank, periodically check the monitor panel to determine the level of water in the tank. When full turn the water source off immediately. DO NOT overfill and DO NOT leave the RV unattended while filling the freshwater tank. Overfilling the tank can cause damage to the system components which may not be considered warrantable. All RVs are equipped with “Low-Point” drains that are designed to drain water from the water tank and all lines. These are located underneath the RV, typically near the water tank. These drains must be closed, or the water system will drain itself of any water entering.

Water should be drained from the freshwater system when not in use. Over time, water quality can degrade which can contaminate the plastic used in the water system and/or cause ill health effects.



Fresh Water is considered “cargo”; therefore, your Cargo Carrying Capacity (CCC) is reduced by the weight of the water you carry while in the RV.

WATER PUMP

The 12-volt water pump installed is self-priming and operates upon demand. Meaning, when you open a faucet, the pump will turn on and pump the water from the tank to that faucet. For the pump to operate, please note the following:

4. The freshwater tank must have sufficient water in it.
5. The pump on/off switch must be in the on position. Typically, this switch is located on the monitor panel.
6. There must be sufficient 12-volt power to operate the pump.
7. Turn the valves on the Nautilus system to the dry camping setting to allow the water pump to pull water from the water tank.
8. The water pump should prime itself and stop running once the open faucet is closed.
9. The pump should run on demand when a faucet is opened and stop when the faucet is closed.



Never let the water pump run while the freshwater tank is empty. Damage to the pump and/or a blown circuit may occur.

WATER SUPPLY AND ODOR

Local water supplies (well or city) sometimes contain high levels of sulfur or other chemicals which can cause unpleasant odors. Sanitizing the water system, as described and allowing the sanitizing solution to remain for a few days, should eliminate the odor.

SANITIZING THE FRESH WATER SYSTEM

Keeping the freshwater system clean and free of any potential contamination should be a top priority. Sanitizing the system before initial use and annually thereafter, or whenever water remains unused for prolonged durations, is recommended. This will help keep the water system fresh and discourage harmful bacterial or viral growth. To sanitize your system, perform the below:

Nautilus System:

1. Drain the tank by opening the low point drains. Close the drains after water has been drained.
2. Prepare a chlorine bleach solution of ¼ cup to one gallon of water for every 15 gallons of tank capacity. Example: Use 2 ¾ gallons of the solution for a 40-gallon tank. If using Ultra bleach concentrations, reduce bleach to 1/8 cup to one gallon of water.
3. Add solution to tank through the tank vent located on the side of the RV. This vent is an arched shape part with the words “tank vent” on the vent cover. The vent cover is removable and held in place by detents on either side of the vent. Remove the bug screen inside the vent. Using a funnel and tube, add the sanitizing solution. Reinstall the screen and cover when done.
4. Open each faucet / fixture until a distinct chlorine odor is smelled. Close faucets and let stand for 4 hours.
5. Drain system and flush with fresh water until chlorine odor and smell is gone. (If a water filter has been added, change it at this time).

WATER HEATER

Before using the hot water heater, please read all safety and operating instructions, information, and warnings provided within the manufacturer’s manual. The tankless hot water heater installed within the RV is an on-demand water heater by Fogatti. As hot water is used, the tankless water heater will heat incoming cold water through a coil system. This temperature is regulated by an internal sensor over a large heat exchanger. This design allows the hot water heater to operate with energy efficiency unlike most conventional tank water heaters that require constant energy during the re-heat cycles. Following is a photo of the front cover plate of the water heater.





Controller Operation

Boundless Recreation checks the function of the water heater prior to shipping the RV to the dealership; however, it is a good idea to check all connections, both water and gas, to the water heater prior to using the water heater.

1. Confirm that the power switch on the water heater is in the “on” position.
2. Press the “power” button on the controller to turn the water heater on.
3. Make sure that your water supply and LP gas supply are both turned on.
4. Use the up and down arrows on the controller to adjust the water temperature to the desired temperature.
5. Turn on the faucet you wish to operate and hot water will dispense from the desired faucet.

SECTION 12: HEATING AND COOLING (HVAC)

INTRODUCTION

This section provides information on the original heating and cooling (HVAC) components installed in your RV. Please know if any of these components were replaced after the RV left the factory as an aftermarket installation, this information does not apply to those aftermarket items. For additional information, please refer to the manufacturer's manuals found in the Customer Information Packet or contact Boundless Care for further guidance. In the circumstance an aftermarket modification or installation has been performed on your RV, please contact the servicing Dealer who performed the work for additional information.

AIR CONDITIONER

Your RV is equipped with roof mounted Air Conditioners that operate on 120-volt A/C power. An air conditioner takes a sizable amount of power to run. It may be necessary to reduce other loads when using air conditioning to reduce the chance of overload and possibly tripping the main breaker. (For thermostat operation on the air conditioner, see "Thermostat" in this chapter).

Ducted Air Conditioning

A ducted RV A/C is similar in setup to an A/C in a residential home. It contains duct work that assists in the deliverance of chilled air to a designated location within the RV. Boundless Recreation RVs are equipped with 3 roof top Air conditioning units with ONLY the bedroom A/C being ducted as described above.

The main living area A/Cs are both direct dump in design, which do not require ducting in the roof of the RV. The air is emitted directly from the A/C into the area by way of the shrouds on the A/C unit.

Ductwork and Return Air

The adjustable registers and vents installed in the RV are designed and intended to REDUCE and adjust airflow, NOT to fully inhibit airflow. Registers must remain free and clear of any obstruction that may inhibit airflow from passing through the air return. Care should also be taken to ensure that debris and other small items do not pass into the air returns.

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Do not operate the air conditioner without the return air filter. Operation without this filter will allow debris to pass through and accumulate on the cooling coils. This will lead to loss of efficiency in cooling, air volume loss, and equipment damage.

Cooling vs. Heat Gain

The A/C on the RV is designed to cool incoming air (outside air) by approximately 15° to 20° F (-9.4° to -6.7° C). Please know that environmental surroundings, the location of your RV, and other conditions may affect the efficiency in performance of the A/C. When located in hot climates with little to no protection to the RV (no trees or surrounding shade), the RV will absorb the heat from the sun and increase the temperature inside the RV. This process is referred to as "heat gain." Reducing the RV heat gain is important to obtain a comfortable temperature inside the RV. Following the below instructions will help to reduce heat gain within your RV.

1. Park the RV in a shaded area with plenty of airflow.
2. Close all the blinds in the RV.
3. Keep all doors and windows closed.
4. Extend the awnings to provide additional shade.
5. Avoid using heat producing appliances such as the oven or stove top.
6. Set the A/C mode to high. When in high humidity or high temperatures, this will help provide maximum cooing efficiency.
7. Turn the A/C on early in the day. This will allow the A/C to cool the RV prior to the outdoor temperature rising too quickly for the A/C to keep up the rising temperatures.

Air Conditioner Gasket

Between the roof material and sub-frame of the A/C, there is a foam gasket that acts as a weatherproof seal. Because the A/C is subjected to wind pressures and motor vibrations, this seal should be inspected every six months.

To inspect the gasket, you must remove the air distribution box located in the interior ceiling in the location of the A/C unit. Check for leaks and re-tighten any loose mounting bolts as needed. Be careful not to over-tighten the mounting bolts. Doing so may result in the seal becoming damaged.

Over time, the A/C gasket will need to be replaced. To gain access to the mounting bolts, the A/C shroud and filter from inside the RV will need to be removed. From there you will be able to carefully remove the bolts and gain access to the seal itself. Please see the manufacturer's manual for more information and instructions.

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FURNACE

The Fogatti furnace itself is in the sidewall of the RV on the off-door side and is generally beside the water heater. The photo below shows the location of the furnace. Boundless Recreation performs an initial function test of the furnace prior to shipping the RV, however, the initial firing of the furnace may still produce a burning smell as some of the oils from the manufacturing process may remain.

For proper operation, make sure that the LP tank valve is fully opened to allow for correct LP gas flow to the furnace. Once the LP gas is on, press the power button on the thermostat inside the RV. Set the temperature to the desired temperature. The blower will engage and prompt the furnace to light the burner and produce heat. Producing heat may take several seconds. When the desired room temperature is reached, the furnace will automatically shut the burner off and then the blower will shut off moments later. If the burner is not lighting or the blower is not engaging, please contact Boundless Care or consult the Fogatti furnace User manual in your Customer Information Packet.

For additional information pertaining to the operation, maintenance, and troubleshooting of the furnace, please consult the manufacturer's manual included in your Customer Information Packet.





NOTICE

Never attempt to repair a furnace if it is not functioning properly. Furnace maintenance should always be completed by a qualified technician. Only OEM parts are to be used when parts are needed. Inspection and maintenance should be performed on an annual basis, or more frequently if heavily used. Please contact your Dealer with further questions, concerns, or to obtain service.

WARNING

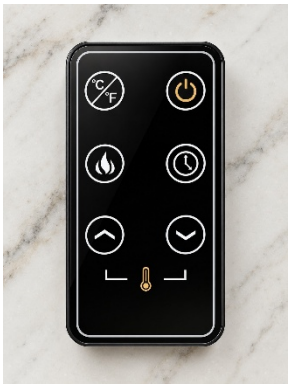
Do not obstruct airflow going to or from the furnace for any reason and do not modify the installation. Doing so will cause unsafe furnace operation and ultimately can lead to damage to the furnace, personal injury, or fire.

WARNING

DO NOT operate the furnace while slide-out rooms are fully retracted in the closed position. This will prevent proper airflow from occurring and may cause the backup of exhaust and heat resulting in additional wear on the furnace.

FIREPLACE

Your Boundless RV has a fireplace (If equipped) in the main living area. A picture of the fireplace is provided below. The control panel is in the upper right hand of the fireplace as indicated by the red circle in the photo. These control buttons permit you to change the lighting, heat intensity, and to set a timer so that the fireplace shuts off automatically. The provided remote also provides control of all features.





Power Button

Press the power button to turn the fireplace “on”. The fireplace will beep. Press the power button again to turn the fireplace “off”. The fan will run for 60 seconds without heat.

Flame Button

Press this button to change the flame effect. The fireplace will beep. Press again to decrease the flame intensity. There are 6 light intensities that will decrease with each press of the button. 7 presses of the button will turn the flame off. The default flame color is orange. Holding the button for 3 seconds will cycle to the next flame color. There are 3 colors that you can choose from; orange, orange and blue, and blue.

Arrows

Use the arrow keys to increase or decrease the desired temperature of the room. The heat will turn on and off as needed based on the thermostat setting selected.

Timer Button

The TIMER has adjustable setting with range of “0H” to “8H”. “0H” indicates that the timer is not set and the fireplace will remain on. “1H” through “8H” indicate 1 hour to 8 hours in 1-hour increments. Once you have set the timer, and the timer is up, it will shut off all functions of the fireplace.

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ROOF VENTS

There are multiple roof vents installed on the RV with the location varying by floor plan. These vents are electric and are intended to allow for additional airflow in the RV. Each vent can be operated via a wall mounted remote. This remote is shown below along with a photo of the vent. The location of each remote varies depending on floor plan but will remain in proximity of the vent itself. Please note that the bathroom vent may be an exhaust vent fan, while others may be bi-directional vent fans.





NOTICE

Never leave a vent open while the RV is being stored or for long periods of time. High winds, rain, animals, or other obstructions may cause damage or a leak leading to damage to the RV that may not be covered by the limited warranties.

SECTION 13: AWNINGS

INTRODUCTION

Boundless Recreation has installed two main awnings on the door side of the RV as standard equipment. The awnings are Girard GG750 series awnings, which are armless awnings with a built-in wind sensor. The wind sensor is set from the factory, and it is recommended that the sensitivity remains where it is factory set to avoid potential damage if the awnings should be extended when the wind speed increases.

The awnings are also factory adjusted for the pitch of the awning. By design, the forward awning will be pitched for rainwater and other material to fall toward the front of the unit while the rear awning is pitched toward the rear of the RV. This design is intended to keep rainwater or other debris from flowing toward the entry door of the RV.

For full instructions including maintenance and troubleshooting information for the Girard GG750 series awnings, please contact Boundless Care or consult the user manual in your Customer Information Packet.



Keep clear of all moving parts while the awning is in operation. As the awning functions and closes against the unit, there is a risk of being pinched, cut, and crushed.

Extending the Awning

1. Prior to operating the awning, make sure the battery is fully charged, and the RV is connected to external shore power. Ensure there are no obstructions preventing the awning from freely extending.
2. Press the awning button one time and let go to fully extend the awning. Pressing the button once will automatically extend the awning to its factory set extended position. Depressing the button once more in the same direction will stop the awning if so desired.

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The awnings are factory set for both pitch and extension. If those settings are not desirable for your situation, please contact Boundless Care or consult your user manual for further information on adjustments and functionality.

Retracting the Awning

1. Prior to operating the awning, make sure the battery is fully charged, and the RV is connected to a power source. Ensure there are no obstructions preventing the awning from freely retracting.
2. Press the awning button one time and let go to fully retract the awning. Pressing the button once will automatically retract the awning to its factory set travel position. Depressing the button once more in the same direction will stop the awning if so desired.



The awning MUST be retracted completely during incidents of high wind, heavy rain and/or during any extended time away from the unit. Failure to ensure the awning is retracted in those instances could cause extensive damage to the awning and unit.



Do not tie down the roll tubes on the awning. This prevents the free-floating roller tube from operating as designed. Doing so may result in damage to the awning or to the RV.

SECTION 14: APPLIANCES

GENERAL INFORMATION

Before using any appliance in the RV, it is best to read and understand all instructions, warning, and safety alerts provided within the manufacturer's manual of each appliance. These manuals can be found within your Customer Information Packet. If you happen to have additional questions or concerns, please do not hesitate to contact Boundless Care for assistance. In the circumstance where aftermarket modifications have taken place within the RV, the provided instructions within this manual may not apply. In this occurrence, please contact the service center who performed the aftermarket installation for additional information and assistance.

MICROWAVE

To utilize the microwave, sufficient 120-volt power MUST be available. To prevent damage, ensure the glass turntable within the microwave is properly secured before traveling. In RV's that do not have a range hood, the microwave vent is utilized in place of the range hood.





REFRIGERATOR

The refrigerator In the RV is not intended for rapid cooling. Prior to placing food in the freezer or refrigerator, it is best to allow at least 4 hours of run time for the freezer to properly chill.. For best results, please see the following recommendations. Below are some tips for the best operating results from your refrigerator.

1. Stock the freezer with already frozen foods.
2. Place chilled items in the cooling compartment.
3. Never cover the shelves with materials such as cloth or paper.
4. Keep the back section of the refrigerator clean and free of clutter, spills, and debris.
5. At minimum, have the refrigerator inspected bi-annually.

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COOKING WITH PROPANE

IF YOU SMELL PROPANE:

1. Extinguish all open flames, pilot lights, smoking materials, etc.
2. Refrain from touching any electrical switches.
3. Shut off the propane supply to the LP bottles.
4. Ventilate the RV by opening all doors, windows, and vents.
5. Remain at a safe distance from the RV until all odor clears.
6. Have the propane system inspected and repaired as needed before continuing use.

Failure to comply with these instructions may result in explosion of the RV leading to serious injury or death.



Never use portable fuel operated cooking equipment inside the RV (i.e., portable grills, stove tops, etc.). Use may lead to the build-up of carbon monoxide, inability to properly breathe, damage, personal injury, and fire.

Grease Fires

Grease is highly flammable. Always clean the burners on your cook top so grease does not collect on the surface or around the burner. If grease is spilled, clean it up immediately before continuing to cook. If a fire ignites, these instructions should be followed.

1. Evacuate the RV immediately and make sure everyone is accounted for. Have everyone remain at a safe distance until the fire is extinguished.
2. Once everyone is at a safe distance, safely attempt to extinguish the fire.
    a. First eliminate the fuel source by shutting off the oven or burner.
    b. Attempt to smother the fire with a cooking lid.
    c. Extinguish with baking soda or a multipurpose dry chemical extinguisher.
3. Never pick up a flaming pan. This can cause the fire to quickly spread if the pan is dropped or if the grease is spilled.
4. If the fire cannot be easily extinguished, your safety is priority. Immediately return to a safe location that is clear of the RV and call 911 to have the Fire Department handle the emergency.

RANGE HOOD (IF EQUIPPED)

The range hood has both a light and fan control switch on the front panel. The aluminum mesh grease filter (located on the underside of the range hood) can be gently hand-washed using mild soap and water. In cases where there is no range hood, the microwave vent acts as the range hood.



RANGE TOP WITH OVEN

When selecting pan sizes, please refer to the manufacturer's recommendation. By following the recommended pot and pan sizes, you will improve cooking efficiency, lessen the risk of injury, and lessen the risk of damage. The pan should be large enough to cover the burner range, but no more than one inch larger than the burner grate itself.



Undersized pots and pans can cause a portion of the heating element to come in direct contact with the operator which may result in injury or ignition of clothing. Also, do not use cooking utensils that cover more than one burner at a time. Doing so will cause an accumulation of excess heat and may cause melting, soot buildup, and/or discoloration. Before cooking with ceramic, glass, or other glazed cooking utensils, verify they are safe for use.



NEVER leave cooking food unattended. Turn pan handles inward, but not over the tops of the other range burners. Ensure that pans used are large enough to contain the food and avoid boil-overs. Heavy splattering or spills left on the cook top can ignite and cause burns.

BOUNDLESS
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WASHER / DRYER (Optional)

Your RV is prepped for an RV-rated washer/dryer (customer supplied or factory installed as an option). Please know that this space is specifically designed for the installation of an aftermarket RV-rated washer/dryer.

Residential washer and dryers should not be installed. The clothes hanging rods and the shelves in this cabinet are removable to permit installation of the washer/dryer. The picture below provides you with a visual of the cabinet.



DISHWASHER (Optional)

Your RV is prepped for an RV-rated dishwasher (customer supplied or factory installed as an option) in the kitchen under the sink. A residential dishwasher should never be used in an RV. The dishwasher that Boundless Recreation chooses as an OPTIONAL feature is the Fisher & Paykel Series 7 Contemporary Single DishDrawer Dishwasher. Please see the included Owner's manual for complete user instructions on the Dishwasher.

SECTION 15: EXTERIOR RV CARE

GENERAL INFORMATION

The exterior portion of the RV is composed of many materials including, but not limited to: Fiberglass, automotive paints, plastics, sealant, aluminum, and rubber.

The longer a foreign substance remains on the finish of the RV, the more likely it is to damage it. It is recommended that you keep the exterior of the RV cleaned and maintained on a continuous basis. This can be accomplished by frequently washing and waxing the RV with the recommendations outlined in the below sections.

The following materials may cause damage to the surface of the RV resulting in corrosion, staining, chemical spotting, and premature wear:

1. Road dirt, dust, and debris, including, but not limited to, road salt, de-icing chemicals, tar, gravel, oils, and other automotive fluids.
2. Tree sap, bird droppings, and bugs.
3. UV exposure, humidity, and moisture.
4. Industrial fallout, hail, acidic rain, and other possible pollutants.

EXTERIOR CLEANING

Frequently washing the RV can help to protect it against environmental elements, such as acids, debris, and/or salts commonly found in air, water, and snow, and de-icing chemicals.

1. Any time the RV encounters foreign materials, the RV should be washed.
2. Try to avoid parking under trees, near saltwater bodies of water, or in direct sunlight.
3. When ice or snow is present, never scrape the surface of the RV to remove, always brush snow and ice off with a soft bristle snow broom.
4. If chemicals or solvents such as anti-freeze, gasoline, oil, etc. encounter the surface of the RV, rinse the affected area immediately.
5. Bird and insect droppings should be rinsed off daily.

WASHING

1. Never wash the RV in direct sunlight. Park in a shaded area and allow the RV surface to cool before washing.
2. First spray the RV with water to remove loose dust and debris.
3. Next, wash the RV.
    a. Use a mild car wash detergent and water mixture.

   b. Use a soft debris-free washing mitt or sponge.
   c. Wash from the top down of the RV.
4. Once fully washed, the RV should be thoroughly rinsed.
5. Upon rinsing, immediately dry with a chamois or soft cloth.
6. Joints, flanges, wiper seals, doors, etc. should be carefully hand cleaned to remove hidden or covered dirt and debris.
7. NEVER use an automatic car wash on the RV.
   a. Excessive heat may distort materials and cause resins to become damaged.
   b. Excessive pressure may cause water to flood undesired areas within the RV.
8. Avoid using high pressure water systems to clean the RV. This may force water into the RV.
9. When using any form of pressure sprayer, extreme caution should be used near or around any door, attachment, window, vent, appliance, etc.
10. Keep the tip of the sprayer roughly 16 inches or further away from the surface of the RV.
11. If hazing or chalking occurs, wash, and wax a small trial area to see if luster returns.
12. Have the RV inspected by your Dealer if the exterior becomes cracked or nicked.

COLD WEATHER CARE

If the slide-out room, compartment door, or entry door becomes frozen shut, do not force it open. Doing so may result in damage to the seals, gaskets, and slide components. If seals become damaged, they will no longer be weatherproof.

To Open:

1. Apply warm water on the gasket or seal to melt the ice. Do not use boiled or hot water.
2. Once the ice melts and the door or slide-out can be opened, thoroughly dry all water present.



Salt and other chemicals utilized on roads during winter months may cause damage to the RV and should be rinsed immediately. Rust may form if it is not cleaned from the metal surfaces and will not be covered by the limited warranties.

When exposed to salt and other chemicals:

1. Rinse the under portion of the RV (frame, axles, axle hangers, pin box, etc.) and all other parts of the RV that may have been exposed.
2. After rinsing the RV, dry all water from all doors, slide-outs, and rubber seals or gaskets.

BOUNDLESS
RECREATION

WAXING THE RV

The RV should be waxed once or twice a year, or when water no longer beads upon the surface of the RV. Take a soft cloth and apply a small amount of wax to the surface of the entire RV.

1. Never wax in direct sunlight.
2. If surfaces are warm, allow them to cool before beginning.
3. Do not apply wax to weather strips or rivets.
4. If the wax stains the surface, remove with warm water and a soft cloth.
5. Once the wax is fully dry, hand buff the RV with a dry, soft cloth.
6. Repeat this process until the desired results are obtained.



DO NOT use a buffing compound or buffer on the surface of the RV as it may damage the exterior surface. If further assistance is needed, please contact your local RV body professional.

RV POLISHING

If the painted surfaces of the RV dull over time, are damaged, or lose their color, a mild polishing compound can be used. Polish a larger area than that of the damaged area to help to blend in the polished area. After the area has been treated with polish, thoroughly remove the polish from the surface and re-apply a coat of wax.

DAMAGED PAINT

After returning from a trip, all surfaces exposed to the road or near the tires should be inspected for paint damage that may have resulted from debris. If painted areas become damaged, they should be touched up as soon as possible. To purchase touch-up films or paints, please reach out to your closest automotive facility capable of matching paint.

PLASTIC COMPONENTS

To clean plastic components, use a soft cloth, sponge, or chamois with warm water. Refrain from using abrasive cleaning tools, soaps, or waxes as they may cause damage to the surface of the plastic components.

BOUNDLESS RECREATION

EXTERIOR ROOF

The Impact Guard roof membrane and vents on the roof should be inspected and cleaned twice a year with a mild soap and water solution.

1. When cleaning the surface of the roof, refrain from using sharp tools (such as a putty knife) that could puncture or tear the membrane.
2. All areas should be cleaned with a medium scrub brush.
3. Once fully clean, rinse with water and allow the surface to dry.
4. If seals need to be reapplied, clean the area with a non-abrasive household cleaner first.
    a. Always prep and re-seal an area after the roof has already been washed.
    b. Cleaners and solvents should not be used in the washing stage. Cleaners and solvents may damage existing seals or cause premature breakdown.



Never use petroleum distillates when washing the roof. This may cause irreversible damage.



When on the roof, do so with great caution and navigate the area on your hands and knees. This will help to distribute your weight and reduce your risk of falling. As the water and mild soap solution are applied to the roof material, it can become very slippery.

SIDEWALL VENTS

There are various vents and appliance access panels that will need to be kept clean and clear of debris and obstructions. Holding tank vents will also need to be regularly inspected for possible obstructions caused by birds, insects, leaves, etc.

SEALANTS

There are many forms of sealants used on your RV including butyl tape, putty, encapsulated foam, silicone, roof sealant and Eternabond tapes. Each sealant has its own unique way to help protect your RV.

Although many seals do not have a set lifespan, due to environmental factors, deterioration may occur over time. If signs of deterioration are present, please replace the seal immediately to prevent possible damage.

Exterior sealants should be inspected every six (6) months and replaced as needed every year.

Dealer Expectation:

1. Inspect all sealants every 3 months the RV is on the sales lot and replace as needed.
2. Replace all seals once a year as required as preventive care of the RV.
3. Resolve any water damage that occurred due to the lack of preventive care.

If water is present inside the RV, immediately inspect the RV for leaks. If the origin of the leak cannot be determined and remedied, have your Dealer inspect the RV right away. Failure to properly maintain the RV or to correct a leak may result in extensive damage to the RV and is deemed unwarrantable.

ROOF LADDER

There is a roof access, side mount ladder provided with the RV and is stored within the pullout storage found under the main pass-through storage on the off-door side (driver's side). This will allow you to gain access to the roof. The roof contains decking under the rubber roof membrane that will allow you to walk on the roof to perform maintenance. This should be performed with caution.



The installed ladder can handle up to 300 lbs. (136.08 kg). When in transit, no items should be attached to the ladder at any time.

RV FRAME / CHASSIS

Road debris, rocks, automotive fluids, sand, salts, and other road chemicals may cause damage to the frame's exterior paint. As its' protective coating becomes compromised, the frame becomes susceptible to rust and other forms of deterioration. Regularly inspect all exposed areas of the frame and repaint compromised areas after a thorough cleaning.

WINDOWS

Condensation and heavy rains may allow water to accumulate within the window track. Regularly dry and clean this area to prevent mildew from forming.

The glass within the window can be cleaned using a glass cleaner and soft cloth or paper towel. After being cleaned, the glass should be dried with another soft, dry cloth.

RV STORAGE

To help prevent problems from occurring, you should always prepare the RV before placing it in storage over extended periods of time. This preparation will not only protect your RV, but it will also make the process of removing the RV from storage much easier to accomplish.

1. Inspect the roof and all other surfaces for damage that may lead to water intrusion or damage.
2. Ensure all windows, roof vents, compartment doors, and windows are securely closed.
3. Turn off the power to the refrigerator.
    a. Once defrosted, the freezer and refrigerator should be cleaned.
    b. Place baking soda and crumpled newspapers in the refrigerator to help eliminate odors.
4. Fully close the propane cylinder valves.
5. Cover all external vents, exhausts, air conditioner, and outlets with rodent screens to prevent rodents from entering the RV.
6. Disconnect all external shore power.
7. Fully retract the levelling system and refrain from using while in storage.
8. Ensure all water tanks and water lines are drained.
9. Flush all holding tanks and the water heater.
10. Winterize the water system of the RV.
11. Use the main battery disconnect to disconnect all 12-volt power. Remove the battery from the RV and place it on a battery maintainer for proper battery storage.
12. Thoroughly clean the inside of the RV, removing any food that may attract unwanted rodents.
13. Wash the exterior surfaces of the RV.
14. It is best if you have access to indoor storage, covered storage, or at least a breathable RV cover.
15. For UV and weather protection, cover the tires with tire covers.
16. If equipped, drain fuel tanks and fuel lines.
17. If equipped with a generator, run stabilizer through the generator and change the oil.



Before winter months, ensure the RV's plumbing system is winterized. Failure to do so may result in frozen pipes and costly damage.



Damage caused or created by rodents or insects is not covered by the limited warranties. Please take proper measures to prevent infestation or entry.

SNOW REMOVAL

Throughout winter months, snow should be continuously removed from the top of your RV to help prevent possible damage from occurring.



Excessive snow and ice [8"+ (20.32 cm +) of snow or 2"+ (5.08 cm +) of ice] place additional stress and weight on the RV roof that should be removed immediately. This weight can be detrimental to the materials and structure of the RV. Continuously remove snow and ice as needed. Upon removing, do so with care to prevent damage to the roof, seals, vents, and appliances.

SECTION 16: INTERIOR RV CARE

CLEANING THE INTERIOR

To increase the life expectancy of the RV, maintenance should be performed on a regular basis following the proper care procedures. In addition to this manual, please follow all instructions contained within the manufacturer's provided manuals.



Only cleaning products recommended within the manufacturer's manuals and this manual should be used on your RV. Using improper chemicals and cleaning agents may result in surface damage in the RV. Always test a small, inconspicuous area with the cleaning agent before using on the entire surface.



NEVER use flammable agents or sprays to clean your RV.

TABLES, CABINETS, AND DRAWERS

1. Regularly dust all hardwood surfaces including cabinet doors and drawers, tables, and cabinet fronts using a soft cloth and cleaning polish or mild recommended solution.
2. Do not use silicone oils or ammonia-based products on any surface. Prolonged use will result in damage to the surfaces.
3. Clean accidental spills as they occur.
4. Avoid prolonged exposure to direct sunlight, high humidity, extreme cold, or high temperatures. Extreme conditions may result in damage to finish and/or wood products.

BOUNDLESS
RECREATION

WALL, CEILING, AND CABINET PANELING

1. Use a solution of a mild soap and warm water.
2. Always use a soft cloth or sponge.
3. Refrain from using harsh cleaning agents as they may dull the surface color or cause micro-scratching. Always test cleaning agents in an inconspicuous area first.
4. If a more aggressive cleaner is needed for stubborn dirt or grease, use an all-purpose cleaner.

COUNTERTOPS

The main countertops in the RV are Durasein Pure Acrylic Solid Surface material. Special care must be exercised to prevent permanent damage to the countertop edges and surfaces as follows:

1. Always use hot protective pads under any hot pans, dishes, or heat producing appliances.
2. Never use a knife or sharp object directly on the countertops. Always utilize a cutting board.
3. Never use harsh chemicals or cleaners on the surface.
4. Never mix bleach and other cleaning agents together.

Cleaning with soapy water or ammonia-based cleansers will remove most dirt and stains. Stubborn stains can be removed with a multi-surface cleaner, bleach, bleach-based cleansers or non-abrasive cleansers. Avoid allowing harsh chemicals to remain on your Durasein® surface. If a harsh substance contacts your Durasein® surface, wash immediately with soap and water, followed by a water rinse. Some of the harsh substances that can damage your Durasein® surface include but are not limited to strong acids and bases, paint thinner, mineral spirits, acetone or acetone-based nail polish remover.

BOUNDLESS
RECREATION

VINYL FLOORING

Always test a small, inconspicuous area with the cleaning agent prior to using it on the entire surface. If the surface dulls or pulls, discontinue use immediately to prevent further damage. Please see the cleaning guide on the next pages for further instructions.

TREATING STAINS, SPILLS, AND SCUFFS ON VINYL FLOORING

Follow the remedies in order. Unless instructed otherwise, use a clean cloth or towel with the recommended liquids. Always rinse the affected area with clean water after treatment.

STAINS AND SPILLS

Acids, Alkalies
Blood
Ketchup, Mustard
Cleaners, Strong Soaps
Dye, Dye Markings
Food, Candy
Fruit, Fruit Juices
Grass
Iodine
Rust
Urine, Excrement
Vomit

Remedy:

Scrub area with Congoleum Bright 'N Easy No-Rinse Cleaner at full strength.

Rub area with a 10 to 1 dilution of water to liquid bleach

Rub area with isopropyl alcohol

If rust stain does not respond, use lemon juice or a cream of tartar solution

PAINT & SOLVENT SPILLS

Dry Cleaning Fluids
Oil-Based Paints
Lacquer
Solvents
Latex Paints
Varnish
Nail Polish
Wood Stains

Remedy:

If substance is dry, gently peel it from the floor (avoid using sharp instruments in this step.

Scrub the area with Congoleum Bright 'N Easy No-Rinse Cleaner.

Rub lightly with mineral spirits, isopropyl alcohol or light fluid.

SCUFFS AND SMUDGES

Rubber Heel Marks
Shoe Polish
Scuffs
Smudges

Remedy:

There are several methods for removing scuffs on satin-gloss and matte floors. For matte-gloss floors, use recommended methods #1 and #3 only. For satin-gloss floors, all the listed methods for removal are recommended, depending on the severity.

Spray Fantastik Cleaner on the scuff. Let stand for 10-15 seconds and remove with a sponge of cloth

Using a damp sponge, rub scuffed area with a polishing cleaner, such as Soft Scrub. Rinse with a sponge or cloth

Wipe scuff with lighter fluid** applied with a clean cloth

With a rubbing motion, apply a car polish/cleaner on the area, then rinse thoroughly

Remove stubborn scuffs with a mechanical buffer equipped with a lamb's wool pad

Caution: Isopropyl alcohol, lighter fluid, mineral spirits and paint thinner are flammable solvents. Carefully read and follow cautionary information on label. Keep traffic off treated area for 30 minutes.

Sweep or vacuum regularly to remove dirt and grit that can abrade, dull, or scratch your floor. Do not use a vacuum with a beater brush, because it may damage the floor's surface. Wipe up spills promptly with a damp cloth or mop. For a more thorough cleaning, use a non-detergent based resilient floor cleaner or a mild soap and water mixture.

FURNITURE UPHOLSTERY

Furniture upholstery should be cleaned and maintained on a regular basis. This can be performed by wiping the surfaces with a soft damp cloth or by vacuuming with a soft bristle attachment. Please see the information outlined within this manual and in the manufacturers' manuals.

BOUNDLESS
RECREATION

Fabrics

1. Both PVC and Polyurethanes should be cleaned with a mild, water-based shampoo or soap.
2. More stubborn stains can be cleaned with a mild, non-alcohol based, cleaning fluid.
3. Rinse with clean water after.
4. Once cleaned and rinsed, pat dry.

All fabrics are also treated with Fortress, a proprietary stain resistant. They recommend blotting any stains with a paper towel to remove excess spills. Then, prepare a mixture of ¼ cup (59.15 ml) mild detergent with 1 gallon (3.78 liters) of water. Spray the mixture on the area and blot again. Repeat until clean. Allow the area to air dry. For additional information and recommendations, please refer to the manufacture's manual.

Vinyl (polyvinyl-blend)

When vinyl is stained, it should be professionally cleaned only as recommended.

CLEANING VINYL—LIQUID SPILL NO STAIN:

1. Gently pat dry with paper towel or a soft cloth.
2. Use a water-based cleaner.
3. Always pat clean, never rub or oversaturate the area.
4. NEVER use solvents or harsh chemicals. Adverse reactions may occur to the backing of the vinyl if used.
5. NEVER dry clean vinyl components. Adverse reactions may occur with use causing the backing of the vinyl to shrink and become brittle.

ABS Plastic

ABS plastic components will remain composed and only require to be dusted and cleaned on occasion. This can be accomplished with a soft, damp cloth (i.e., drain lines, plastic trims, plastic covers, vents, etc.).

1. NEVER use abrasive soaps, compounds, or cleaning agents to clean ABS plastic components.
2. AVOID the use of citrus, acidic, or D-Limonene containing solutions; such cleaners can damage the ABS plastic material.

DÉCOR

Glass Décor

Glass cleaner should be used to remove smudges, smears, and spots on the glass décor found within the RV. If there is decorative etching or frosting on the glass, be sure to clean with care in that given area.

Window Treatments

For the trim encompassing the windows, dust periodically with a soft cloth and a polish or mild solution. The trim is hardwood. Be sure that any cleaners utilized are compatible with painted wood products.

Blinds and Shades

Blinds and shades should be occasionally dusted using a vacuum and soft brush attachment or a soft cloth.

SINK AND SHOWER FIXTURES

A mild soap and warm water mixture should be used to clean the sink and shower fixtures. If hard water spots are present, use a vinegar and warm water solution to clean.

STAINLESS STEEL SINK AND APPLIANCES

When cleaning stainless steel products, please see the below instructions:

1. Use a soft cloth with mild soap and warm water.
    a. Never use abrasive soaps, compounds, cleaning agents, scouring pads, or steel wool.
    b. Some glass cleaners or cleaners made for stainless steel can also be used. Always perform trial cleaning when using new products.
2. Carefully wipe the surface, cleaning with the grain of the steel and not against it.
3. Thoroughly rinse the cloth and repeat this process until the appliance surface is clean.
4. Pat the surface dry with a paper towel.