

GRANITE RIDGE



Greyhawk

escapade



**Model Year 2005
Type C Motorhome
Owner's Manual**



WARNING: Read all instructions in this manual and component part manufacturer supplied information before using your RV.

This manual has been provided by Jayco, Inc. for the sole purpose of providing instructions concerning the operation and maintenance of this vehicle and its component parts. Nothing in this manual creates any warranty, either expressed or implied. The only warranty offered by Jayco, Inc. is the limited, express warranty applicable to this vehicle.

The owner's failure to provide required service and/or maintenance results in the loss of warranty. The owner should review Jayco's limited, express warranty and the warranties that apply to specific component parts that are offered with this vehicle.

Instructions are included in the manual for operating various component parts which are optional on some vehicles. In addition, the owner should refer to individual manufacturer's operating instructions contained in the owner's packet.

YOUR NEW JAYCO IS YOUR PASSPORT TO A WHOLE WORLD OF NEW FRIENDS,
CAMPING FUN AND TRAVEL ADVENTURE WHEN YOU JOIN THE THOUSANDS OF
JAYCO FAMILIES WHO MAKE UP THE . . .

JAYCO JAFARI INTERNATIONAL TRAVEL CLUB

You will find us enjoying the friendship and fellowship of JAFARI CAMPING as we join our
local area FLIGHTS at hundreds of weekend camp-outs all over North America each month . . .

WE'RE THE FAMILIES OF JAYCO!

There are special STATE, REGIONAL and INTERNATIONAL RALLIES where you can join
with your fellow JAFARIANS and their flights to enjoy a special kind of togetherness . . . fun,
games, and entertainment provide memories to last a lifetime.

And . . . how about the exotic surroundings of NEW ORLEANS, the sounds and color of
NASHVILLE and the GRAND OLE OPRY, the roar and rush of the INDIANAPOLIS 500, the
quiet surroundings of the CANADIAN ROCKIES, the color of the SMOKY MOUNTAINS in
the Fall. These and many other adventures can be yours when you join the. . .

JAYCO JAFARI INTERNATIONAL TRAVEL CLUB

Fill in the blanks on the reverse side, cut along dotted line and mail along with a check to:

JAYCO JAFARI INT'L TRAVEL CLUB

ATTN: Membership Coordinator

P.O. Box 192

Osceola, IN 46561-0192

Yes, it's for everyone with a JAYCO RV; young couples just starting out, families spending quality time together, the young at heart expanding their life experiences. Whether you belong to another camping club, have always traveled alone, or are just starting, don't miss out on one of the most priceless benefits of being an RV family . . . meet new friends and spend a bit of your camping life with some of the finest people you will ever have the opportunity to share a campfire or treasure a moment of golden living with a . . . FIFTH-WHEEL TRAVEL TRAILER. . .SPORT UTILITY TRAILER . . . CONVENTIONAL TRAVEL TRAILER . . . TYPE C MOTORHOME . . . FOLDING CAMPING TRAILER . . . it doesn't matter. If you are a JAYCO RV FAMILY, then you are eligible to become a Jayco Jafari Member.

YOU WILL NEVER BE SORRY YOU MADE THE DECISION!

Your membership entitles you to:

- Special international decals for your unit.
- The Hitch newsletter with schedules of upcoming events and activities.
- A membership roster - containing the names and addresses of current members of the club will be sent bi-yearly.
- Discount Cards for several national theme parks including Six Flags and Busch Corp. Parks.
- A special price is available on Wheeler's Campground Guides.
- Discounts with Hertz Rental Car.
- Discounts with Coach Net, an emergency roadside service.
- Farm & City Insurance has RV insurance available at discounted rates to current Jayco Jafari International Club members.
- All of this, plus the joy of meeting new friends and enjoy Jafari adventures around the country.

Start with the first phase of your camping life...just complete the following application and forward it to the Jayco Jafari International Travel Club office. Your membership application may also be completed online, by visiting our website at www.jaycorvclub.com. If you have further questions, contact the club office direct at the website or by calling 800-262-5178. Local calls can be made to 574-258-0571.



WELCOME TO THE JAFARI FAMILY!



TO: Membership Coordinator for the Jayco Jafari International Travel Club

Please enroll us as members in the Jayco Travel Club. We are ready to roll to where the “friends we just haven’t met yet” have the coffee on the fire and are waiting for us to arrive: We are ...

Name: _____ Spouse: _____

Address: _____ Phone: _____

City: _____ State: _____ Zip: _____

Email: _____

Ages of Children at Home: _____

Our JAYCO is a: _____ Our Dealer _____
(type & size)

Membership Dues:

One year	\$25.00	Amount enclosed. \$	_____
Two years:	\$45.00	Check #:	_____
Three years:	\$65.00		

(signature) (date)

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WELCOME

Thank you for purchasing your Jayco Recreation Vehicle (RV) and welcome to the world of recreation vehicle travel. Your purchase of a Jayco RV allows you to enter this unique world of camping and leisure in a grand style. Your Jayco RV has been designed and engineered to offer many comforts of home to make your camping experience as enjoyable as possible. Jayco RVs are designed, constructed, warranted and intended to be used as temporary living quarters for recreational, camping and travel uses, as defined in the bylaws of the Recreation Vehicle Industry Association. Our recreation vehicles are not intended for hauling of cargo.

This owner's manual will assist you in understanding the RV's proper use and operation. If you are a newcomer to RV travel, you will appreciate the suggestions and "shop talk" information found throughout this manual.

Keep this manual in your recreation vehicle for handy reference. Get to know your new vehicle and how it operates. The information in this manual reflects the most current available to us at the time of publication. This manual is a supplement to various other instructions supplied by the manufacturers of separately manufactured and warranted component parts. Carefully read, understand and follow this owner's manual and all information supplied by manufacturers of components. This information contains important operating, safety, and maintenance instructions. Direct questions that are not answered by the owner's manual or other booklets, to your independent, authorized dealer. If they cannot satisfactorily answer your questions, they will call or refer you to the component part manufacturer or Jayco.

Your vehicle was manufactured based on the applicable requirements of:

- Federal Motor Vehicle Safety Standards
- State Regulations
- Canadian Standards Associations (CSA) (where applicable)
- Requirements of ANSI Standard A119.2, the nationally recognized Standard For Recreation Vehicles – Installation of Plumbing, Heating and Electrical Systems.

The Recreation Vehicle Industry Association (RVIA) and Canadian Standards Association (CSA) periodically inspect our production line and assist us in maintaining strict compliance with installation and safety standards for those systems.

Periodic safety inspections and a program of preventive maintenance are necessary for the continuation of safe and trouble-free operation.

Camping is a great way to relax and enjoy the outdoors with your friends and family. Please remember to tread lightly on our beautiful land and leave only your footprints so that others may enjoy nature as much as you did.

The Jayco Family

Jayco, Inc.

Welcome

NOTES

[illegible]

WARRANTY/SERVICE

The following pages contain warranty information. It is our recommendation that you read through Jayco's warranty and all other warranties. If there is any part which you do not understand, consult with your independent, authorized dealer, appropriate component part manufacturer or Jayco for further explanation. The warranty titles are defined as follows:

- **Motorized Limited Warranty** - Also referred to as the 2+3 Warranty, this comes direct from the manufacturer to the original purchaser. It provides limited coverage for 2 years (24 months) against substantial defects in materials and workmanship, and 3 years (36 months) on structure. Beyond this, it can be transferred one time only within the warranty period.
- **Warranty Registration & Customer Delivery Form** - This form is to be completed by the independent, authorized dealer when you pick up your unit. Once it is completed and signed, the independent, authorized dealer will forward the information to us so we can register your motorhome.
- **Limited Warranty Transfer Application** - This is the form required to transfer the warranty as indicated above in the Motorized Limited Warranty. This form must be completed and filed as instructed for the transfer to occur. If you have questions, consult with your independent, authorized dealer.

MOTORIZED LIMITED WARRANTY

WHAT AND WHO IS COVERED

The Jayco warranty covers this recreational vehicle ("RV"), when used only for its intended purpose of recreational travel and camping, for two (2) years, or the first twenty-four thousand (24,000) miles of use, whichever occurs first. In addition, it covers the structural integrity (defined as something essential to the manner of construction during the assembly process) of the sidewalls, floor, roof and frame for one (1) additional year. The warranty periods begin on the date that the RV is delivered to the first retail purchaser by an independent, authorized dealer of Jayco, or, if the dealer places the vehicle in service prior to retail sale, on the date the RV is first placed in such service. In the event that a substantial defect in material or workmanship, attributable to Jayco, is found to exist during the warranty periods, it will be repaired or replaced, at Jayco's option, without charge to the RV owner, in accordance with the terms, conditions and limitations of this limited warranty.

This limited warranty applies to the first consumer purchaser, and the next subsequent owner, only. This limited, express warranty may be transferred once during the warranty period. However, the subsequent owner must submit a warranty transfer form to Jayco to make the warranty transfer effective. You may contact an independent, authorized dealer for details. All rights and limitations within this warranty are applicable to the original owner and the subsequent owner of the RV. The subsequent owner's warranty coverage periods are the remaining balance of the warranty coverage periods that the prior owner was entitled to under this limited warranty.

Jayco's obligation to repair or replace defective materials or workmanship is the sole obligation of Jayco under this limited warranty. Jayco reserves the right to use new or remanufactured parts of similar quality to complete any work, and to make parts and design changes from time to time without notice to anyone. Jayco reserves the right to make changes in the design or material of its products without incurring any obligation to incorporate such changes in any product previously manufactured. Jayco makes no warranty as to the future performance of this RV, and this limited warranty is not intended to extend to the future performance of this RV, or any of its materials, components or parts. In addition, the RV owner's obligation to notify Jayco, or one of its authorized, independent dealers, of a claimed defect does not modify any obligation placed on the RV owner to contact Jayco directly when attempting to pursue remedies under state or federal law.

LIMITATIONS, EXCLUSIONS AND DISCLAIMER OF IMPLIED WARRANTIES

ANY IMPLIED WARRANTY THAT IS FOUND TO ARISE BY WAY OF STATE OR FEDERAL LAW, INCLUDING ANY IMPLIED WARRANTY OF MERCHANTABILITY OR ANY IMPLIED WARRANTY OF FITNESS, IS LIMITED IN DURATION TO THE DURATIONS SET FORTH IN THIS LIMITED WARRANTY AND IS LIMITED IN SCOPE OF COVERAGE TO THE SCOPE OF COVERAGE OF THIS LIMITED WARRANTY. Jayco makes no warranty of any nature beyond that contained in this limited warranty. Jayco does not authorize any person to create any other obligation or liability for it regarding this RV, and Jayco is not responsible for any representation, promise or warranty made by any dealer or other person beyond what is expressly stated in this limited, express warranty, and no one has the authority to enlarge, amend or modify this limited, express warranty. Any selling or servicing dealer is not Jayco's agent, but an independent entity.

JAYCO SHALL NOT BE LIABLE FOR ANY INCIDENTAL OR CONSEQUENTIAL DAMAGES THAT MAY RESULT FROM BREACH OF THIS LIMITED WARRANTY OR ANY IMPLIED WARRANTY. THIS EXCLUSION OF CONSEQUENTIAL AND INCIDENTAL DAMAGES SHALL BE INDEPENDENT OF ANY FAILURE OF THE ESSENTIAL PURPOSE OF ANY WARRANTY, AND THIS EXCLUSION SHALL SURVIVE ANY DETERMINATION THAT THIS LIMITED WARRANTY OR ANY IMPLIED WARRANTY HAS FAILED OF ITS ESSENTIAL PURPOSE.

Some states do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

HOW TO GET SERVICE

To obtain warranty service the owner must do all of the following:

1. Notify an independent, authorized dealer of Jayco, or Jayco, of the substantial defect in material or workmanship attributable to Jayco, within the applicable warranty coverage period designated above that you are making a warranty claim under;
2. Provide the notification mentioned in (1), above, within ten (10) days of when the owner discovered, or should have discovered, the substantial defect in material or workmanship attributable to Jayco; and
3. Promptly schedule an appointment with and take the RV to an independent, authorized dealer of Jayco, or Jayco, for repairs; and
4. Pay any freight or transportation costs, import duties, fees and all incidental expenses associated with obtaining warranty service.

For warranty service simply contact one of Jayco's independent, authorized service centers for an appointment and then deliver your RV to the service center on the specified appointment date. If you need assistance you may contact Jayco, at P.O. Box 460, Middlebury, Indiana 46540, Attn: Aftermarket Service, (574) 825-0608, or <http://www.jayco.com>.

NOTE: Jayco does not control the scheduling of service work at the independent, authorized dealerships. You may encounter some delay in scheduling or completion of work.

If two (2) or more service attempts have been made to correct any covered defect that you believe impairs the value, use or safety of the RV, or if it has taken longer than thirty (30) days for those types of repairs to be completed, you must, to the extent permitted by law, notify Jayco directly, in writing, at the above address, of the unsuccessful repair(s) of the alleged defect(s) so that Jayco can become directly involved in making sure that you are provided service pursuant to the terms of this limited warranty.

WHAT IS NOT COVERED

By way of example only, this Limited Warranty does not cover any of the following: defects in materials, components or parts of the RV not attributable to Jayco, items that are added or changed after the RV leaves the possession of Jayco; additional equipment or accessories installed at any dealership, or other place of business, or by any other party, other than Jayco; any RV used for rental or other commercial purposes (Note: It shall be concluded that the RV has been used for commercial and/or business purposes if the RV owner or user files a tax form claiming any business or commercial tax benefit related to the RV, or if the RV is purchased in a business name); 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; the effects of condensation or moisture from condensation inside the RV; mold or any damage caused by mold to the inside or outside of the RV; 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; 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, tightening of lug nuts, sealing, rotating tires; damage due to accident, whether or not foreseeable, including any acts of weather or damage or corrosion due to the environment, theft, vandalism, fire, or other intervening acts not attributable to Jayco; service items such as windshield wiper blades, lubricants, fluids, filters, etc.; damage resulting from tire wear or tire failure; defacing, scratches, dents, chips on any surface or fabric of the RV; damage caused by off road use, overloading the RV or alteration of the RV, or any of its components or parts.

In addition, this limited warranty does not cover any material, component or part of the RV that is warranted by another entity, including, by way of example, the automotive chassis and power train, steering, handling, braking, wheel balance, muffler, tires, tubes, batteries, gauges, generator, hydraulic jacks, inverter, microwave, television, VCR, CD player, tape player, radio, speakers, television, refrigerator, range, water heater, stove, carbon monoxide detector, smoke detector, furnace or any air conditioner. (Note: The written warranty provided by the manufacturer of the component part is the direct responsibility of that manufacturer).

EVENTS DISCHARGING JAYCO FROM OBLIGATION UNDER WARRANTY

Certain things completely discharge Jayco from any obligation under this warranty and void it. By way of example, the following shall discharge Jayco from any express or implied warranty obligation to repair or replace any defect that results from: any rental or other commercial use or purchase of the RV (as defined in this warranty), any defect in a separately manufactured component part, owner neglect or failure to provide routine maintenance (See Owner's Manual), unauthorized alteration, off road use, collision or accident, whether or not foreseeable, including any acts of weather or damage or corrosion due to the environment, theft, vandalism, fire, explosions, overloading in excess of weight ratings, and tampering with any portion of the RV.

LEGAL REMEDIES

Any action to enforce any portion of this limited, express warranty, or any implied warranty, shall be commenced within six (6) months after expiration of the applicable warranty coverage period designated above that you are trying to enforce. Any performance of repairs shall not suspend this limitation period from expiring. Any performance of repairs after the warranty coverage periods have expired, or performance of repairs regarding any thing excluded from coverage under this limited warranty shall be considered "good will" repairs, and they will not alter the express terms of this limited warranty, or extend the warranty coverage periods or this limitation period in this paragraph. In addition, this warranty is not intended to extend to future performance, and nothing in this warranty, or any action of Jayco, or any agent of Jayco, shall be interpreted as an extension of the warranty periods or this limitation period in this paragraph. Some states do not allow a reduction in the statute of limitations, so this reduction may not apply to you.

WARRANTY REGISTRATIONS

Your warranty registration records should be completed and delivered to the manufacturers of component parts. The selling dealership will assist you in completing and submitting a delayed warranty start form for your chassis, which is included in your chassis paperwork, and in filling out the Jayco product warranty registration form. That form must be returned to Jayco within ten (10) days of your taking delivery of the RV. Your Jayco warranty will not be registered unless this warranty registration is completed and received by Jayco. Failure to file this warranty registration with Jayco will not affect your rights under this limited, express warranty as long as you can present proof of purchase, but it can cause delays in obtaining the benefits of this limited, express warranty, and it may inhibit any servicing facility's ability to provide proper repairs and/or part replacement.

CARE AND MAINTENANCE

It is the Purchaser's responsibility to perform proper care and maintenance of the RV, and to assure correct load distribution. For details regarding this, please see your Jayco owner's manual and the owner's manuals of the chassis manufacturer and other component part manufacturers. These outline various care and maintenance that is required to maintain your RV. Please review all manuals supplied with your RV, and contact your selling dealership or supplier of the component part if you have questions. Note: Failure to maintain the RV as noted in those manuals voids this limited, express warranty, and any damage to the RV as a result of your failure to perform such care, is not covered by this limited, express warranty.

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

JAYCO, INC.
903 South Main * P.O. Box 460 * Middlebury, IN 46540
Telephone: 574-825-0608

WARRANTY REGISTRATION AND CUSTOMER DELIVERY FORM

Jayco, Inc.
P.O. Box 460
903 South Main Street
Middlebury, IN 46540
(574) 825-0608

Dealer is to assure that this form is properly completed and returned to Jayco within ten (10) working days after delivery.

OWNER'S NAME			DEALER'S NAME		
ADDRESS			ADDRESS		
CITY	STATE	ZIP CODE	CITY	STATE	ZIP CODE
DELIVERY DATE			PHONE NUMBER (DAYTIME)		
JAYCO SERIAL NUMBER			ODOMETER READING (MUST BE COMPLETED FOR MOTORHOMES)		
			CHASSIS VIN (VEHICLE I.D. NUMBER) (SEVENTEEN DIGITS REQUIRED)		

ALL ITEMS MUST BE MARKED OFF BY THE DEALER IN THE CUSTOMER'S PRESENCE INDICATING PERFORMANCE OR INSTRUCTION AS REQUIRED. PLEASE MARK EACH ITEM OK OR NA (NOT APPLICABLE).

1. ELECTRICAL SYSTEM

- ☐ 120-Volt System
- ☐ 120-Volt Auxiliary Generator Operation
- ☐ 12-Volt System
- ☐ Ground Fault Circuit Interrupter (GFCI)
- ☐ All Interior Lights/Recepts/Switches
- ☐ All Exterior Lights/Recepts/Switches
- ☐ Battery System
- ☐ Monitor Panel
- ☐ Slideout Operation and Maintenance
- ☐ Phone and Cable TV
- ☐ Audio/Video Entertainment System
- ☐ Converter Operation and Use
- ☐ Solar Panel
- ☐ Interior Fans - All

a. Motorized Only

- ☐ Inverter Operation and Use
- ☐ Driver Dash Controls/Switches
- ☐ Hydraulic Leveling Jacks
- ☐ Power Cord/Reel
- ☐ Backup Camera and Monitor

2. LP GAS SYSTEM

- ☐ Location and Maintenance of LP Lines and Connections
- ☐ Maintenance and Operation of Regulator
- ☐ LP Gas Monometer Test (Check for leaks - repair if needed and retest) Set Gas Pressure at _____ in. Water Column
- ☐ Outside Grill Use and Operation

3. WATER/PLUMBING SYSTEM

- ☐ Water Intake/Drain Lines
- ☐ Demand Pump
- ☐ Faucet(s)/Fixture(s)
- ☐ Winterizing/Bypass
- ☐ Outside Shower
- ☐ Shower

3. WATER/PLUMBING SYSTEM CONT.

- ☐ Black Holding Tank(s)
- ☐ Grey Holding Tank(s)
- ☐ Fresh Water Holding Tanks(s)
- ☐ Toilet

4. APPLIANCES

- ☐ Furnace and Thermostat
- ☐ Range/Oven/Hotplate
- ☐ Water Heater
- ☐ Refrigerator
- ☐ Air Conditioner
- ☐ Microwave
- ☐ Central Vacuum
- ☐ Heat Pump
- ☐ Washer/Dryer

5. INTERIOR

- ☐ Curtain/Drapes/Valances/Blinds
- ☐ Beds/Couches/Tables
- ☐ Fire Extinguisher (Check CHARGE ONLY)
- ☐ Interior Trim and Sealants
- ☐ Windows - Crank Mechanisms/Slides/etc.

6. EXTERIOR

- ☐ Doors and Locks - all keys
- ☐ Screen Door
- ☐ Entrance Step
- ☐ Finish - spot paint, touch up and rub out if necessary
- ☐ TV and/or Satellite Antenna Mechanism
- ☐ Vents - all
- ☐ Compartment Doors
- ☐ Trim and Sealants
- ☐ Awnings
- ☐ Bumper/A-Frame - touch up as needed
- ☐ Window and Roof Sealants

7. CHASSIS - MOTORIZED ONLY

- ☐ Check all Fluid Levels
- ☐ Chassis Prep as Recommended by the Manufacturer
- ☐ Tires - Condition and Pressure
- ☐ Wheel Lugs - as outlined in Chassis manual

8. RUNNING GEAR - TOWABLE ONLY

- ☐ Brake Adjustment and Maintenance
- ☐ Bearing Lubrication and Maintenance
- ☐ Brake Wire Connections
- ☐ Hydraulic Brake Fluid and Maintenance
- ☐ A-Frame/Coupler Operation
- ☐ Operate and Lube Jacks
- ☐ Tires - Condition and Pressure Set
- ☐ Tire Pressure _____ psi
- ☐ Wheel Lugs - (Tighten to specs for ft. lb. torque) Review Maintenance - tighten at 10,25,50 miles

9. FOLDING CAMPING TRAILER ONLY

- ☐ Complete Set Up and Closing
- ☐ Demonstration, Proper Leveling

10. GENERAL

- ☐ Wash Vehicle
- ☐ Be certain that all required literature is in the vehicle
- ☐ Be certain that all accessories including remotes are in the vehicle
- ☐ Be certain that all Owner's Manuals are in the vehicle
- ☐ Be certain that the Warranty Forms are completed

DEALER INSTALLED OPTIONS (Dealer installed options are not covered under Jayco's limited warranties.)

OWNER/DEALER INSPECTION

- | | |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <ol style="list-style-type: none"> 1. Exterior and interior finish. 2. Operate all appliances, optional equipment and accessories and discuss maintenance. 3. Review operation, maintenance and safety of LP Gas System. 4. Explain weight ratings, limitations and proper load distribution and maintenance. | <ol style="list-style-type: none"> 5. Operate all fresh water and plumbing components including faucets, shower, toilet and drain locations. 6. Review tow vehicle, hitch and sway control set-up - test drive. (towables only) 7. Complete review of owner's manuals and highlight safety issues. |
|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

I HAVE COMPLETED THE ABOVE INSPECTION ON THIS FAMILY CAMPING VEHICLE AND HAVE TAKEN A TEST DRIVE AT THE TIME OF PURCHASE. I NOTED:

I RECEIVED A COPY OF THE JAYCO LIMITED WARRANTY BEFORE I PURCHASED THIS VEHICLE AND I UNDERSTAND THAT IT IS DESIGNED TO BE USED ONLY FOR RECREATIONAL CAMPING AND TRAVEL.

THE PURCHASER HAS INSPECTED OR BEEN GIVEN THE OPPORTUNITY TO INSPECT THE VEHICLE AND TAKE THE TEST DRIVE, SUPPLIED THE INFORMATION ABOUT HIS/HER NAME AND ADDRESS, BEEN GIVEN THE OPPORTUNITY TO MAKE NOTATIONS IN THE SPACE PROVIDED AND OBSERVED OR RECEIVED SATISFACTORY EXPLANATIONS ABOUT ALL ITEMS LISTED ABOVE.

DATE

PURCHASER'S SIGNATURE

DEALER'S SIGNATURE

LIMITED WARRANTY TRANSFER

The warranty on your unit is transferrable one (1) time during the warranty period. This form as shown here and on the next page must be completed and sent with the \$100.00 to Jayco, Attention: After Market Services. If you have questions, consult with your dealer for assistance.



Limited Warranty Transfer Application

Mail original copy of Jayco, Inc. Limited Warranty Transfer Application, along with a transfer fee to \$100.00 payable to:

Jayco, Inc.
Warranty Dept.
P.O. Box 460
Middlebury, IN 46540

REQUIRED FIELD	Vehicle Identification Number	
A	Transfer Coverage To:	
NEW OWNER INFORMATION	Last Name	First Name
	Owner Address 1	
	Owner Address 2	
	City	State
	Zip	Phone
	____/____/____	____-____-____
	Date of Transfer	Odometer Reading at Transfer MUST BE COMPLETED ON ALL MOTORIZED VEHICLES
B	Transfer Coverage From:	
PRIOR OWNER INFORMATION	Last Name	First Name
C		
SELLING DEALER INFORMATION (IF APPLICABLE)	Dealer Name	
	Dealer Address 1	
	Dealer Address 2	
	City	State
	Zip	Phone
D	PLEASE READ TERMS AND REPRESENTATIONS PRIOR TO SIGNING	
ALL TITLED OWNER SIGNATURES	I HAVE READ AND AGREE TO THE TERMS AND CONDITIONS ON THE BACK OF THIS FORM.	
	New Owner's Signature	New Owner's Signature
	New Owner's Signature	Selling Dealer's Signature

THE BASIC 2 + 3 JAYCO, INC. LIMITED WARRANTIES MAY BE TRANSFERRED ONE (1) TIME DURING THE WARRANTY PERIOD.

TERMS AND REPRESENTATIONS

By my signature(s) on the face side of this form, and in order to induce Jayco, Inc. to transfer its Limited Warranty, I represent the following:

1. That I have received and read a copy of the Jayco Limited Warranty and Owner's Manual.
2. I understand that the unit is to be used only for recreational camping and travel.
3. That all information provided by me on the face side of this form is true and correct.
4. I understand that I am purchasing a pre-owned recreational vehicle and Jayco, Inc. does not make any representation as to its present condition.
5. I understand and agree that all my claims against Jayco must be arbitrated and that a court will enforce the arbitration award. The terms of arbitration are set forth below:

SERVICE PROCEDURES

Basic Service Procedures

We are interested in your satisfaction. Only by having your complete confidence and satisfaction with our product and its service can we assure our continued success as manufacturers of recreation vehicles. We have found that continuing a pleasant and effective relationship through our independent, authorized dealers is equally as important as maintaining the technical excellence of our product. Your independent, authorized dealer will cordially assist you in providing service, maintenance, selection of options and instructions concerning the operation of your vehicle.

If you have a problem with your motorhome that requires service, please follow these instructions in sequence.

1. **Contact your selling independent, authorized dealer's service department for an appointment.** Describe to the best of your knowledge the nature of the problem.
2. Contact the owner or General Manager of the independent, authorized dealership if the initial attempt fails with the service department.
3. If further assistance is needed, contact:

After Market Services

Jayco Incorporated

P.O. Box 460

Middlebury, IN 46540

Email: service@jayco.com

Business Hours: Monday – Friday 8:00 – 5:00 EST

Give all the above information as requested, along with the serial number of the unit in question and we will make every attempt to help you resolve your repair needs. **It is important that you contact your selling independent, authorized dealer before Jayco. In most cases, the independent, authorized dealer can provide the service you require.**

If you are traveling and are unable to locate an independent, authorized Jayco dealer, or an authorized dealer for the component part needing service, contact your selling independent, authorized dealer for assistance.

(N) NOTE: Service at a non-authorized Jayco dealer needs prior authorization. You will be asked to return any mechanical parts replaced before reimbursement consideration is made. Unauthorized or improper repairs may void Jayco's warranty and the warranty on the component part.

Please keep your owner's manual, your copy of the warranty registration form and any other related papers in your RV.

Please bear in mind that most problems arise from misunderstandings concerning warranty coverage and service. In most instances, you will be referred to the independent, authorized dealer level and your repair needs will be resolved at the independent, authorized dealer's facilities.

CALIFORNIA LEMON LAW NOTICE: If you have determined that your vehicle has nonconformities under the California Lemon Law, you must provide written notice of the claimed defects directly to Jayco in Middlebury, Indiana at the address for warranty service, and permit Jayco to perform a final repair attempt.

Independent, Authorized Dealer

When you purchased your Jayco RV, we trust you had a pleasant experience. We consider the network of independent, authorized dealers to be some of the best in the RV business. This group of independent contractors is an integral part of Jayco's continued success.

Throughout this manual, we will refer you to your independent, authorized dealer for assistance with certain component parts or procedures. If you are traveling outside your independent, authorized dealer's area, you are never far from another independent, authorized Jayco dealer, with over 300 dealerships in our network.

Your independent, authorized dealer has inspected and serviced your new Jayco RV. The independent, authorized dealers are available for service and maintenance to your motorhome. All warranty repairs should be performed by an independent, authorized dealer unless Jayco gives prior approval.

Some RV dealers may be a service center for manufacturers of products warranted separately. To reduce delays, contact your independent, authorized dealer for service available through them. If your independent, authorized dealer is not a service center for the product in question, they can assist you in finding service.

Parts

Parts are available at dealerships or your independent, authorized dealer can order parts for you as needed. **All retail parts inquiries should be routed through your independent, authorized dealer.**

Owner's Responsibility

As a new owner of a Jayco recreation vehicle, you are responsible for understanding how your trailer, and its various component parts, work and need to be maintained. You are also responsible for the regular and proper maintenance of your RV. This will help you prevent conditions arising from neglect that are not covered by your Jayco Limited Warranty.

Maintenance service should be performed in accordance with this owner's manual and any other applicable manuals.

As the owner, it is your responsibility and obligation to return the RV to an independent, authorized dealer for repairs and service. Reference your Jayco Limited Warranty for additional information. Because the independent, authorized dealer where you purchased your RV is responsible for its servicing before delivery and has an interest in your continued satisfaction, we recommend that inspection, warranty and maintenance services be performed by that independent, authorized dealership.

Manufacturer's Customer Support Directory


The following chart provides information to contact individual manufacturers of appliances that may be part of your motorhome. If you have questions or concerns on component parts not listed here, contact your independent, authorized dealer for further assistance.

Appliance	Manufacturer	Website	Phone #
Air Conditioner	Coleman	www.rvcomfort.com/rv_products.htm	316-832-4357
Antenna, TV	Winegard	www.winegard.com	800-788-4417
Awning	Carefree of Colorado	www.carefreeofcolorado.com	800-622-3230
Back-up Camera	Audiovox	www.audiovox.com	800-645-4994
Converter	Iota	www.iotaengineering.com	N/A
DVD/CD Player	Panasonic	www.panasonic.com	N/A
Electric Step	Kwikkee	www.kwikkee.com	800-736-9961
Exhaust Fan	Ventline	www.ventline.com	888-255-4107
Exterior Radio	Audiovox	www.audiovox.com	800-645-4994
Furnace	Hydro-Flame/Atwood	www.atwoodmobile.com	815-877-5700
Generator	Onan	www.onan.com	800-888-6626
Inverter	Xantrex	www.xantrex.com	800-670-0707
Microwave	Samsung	www.samsung.com	800-726-7864
Outside Grill	Vitco	www.vitco.com	877-736-2635
Range Hood	Ventline	www.ventline.com	574-848-4491
Range	Atwood	www.atwoodmobile.com	815-877-5700
Refrigerator	Norcold	www.norcold.com/norcold_home.cfm	800-543-1219
Satellite Radio	Sirius	www.siriusradio.com	888-539-7474
Surround Sound Stereo	Mito	www.mitocorp.com	800-433-6486
Tires	Contact your local tire distributor for assistance		
Toilet	Thetford	www.thetford.com/thetford_home.cfm	800-521-3032
Water Heater	Atwood	www.atwoodmobile.com	815-877-5700
Water Pump	Shur-Flo	www.shurflo.com	800-854-3218
Wheel Liners	Versa-Liner	www.dicor.com	800-837-2059
Fiberglass Exterior	Owens Corning	www.fabricatingsolutions.com	574-522-8473
Slideout System	Power Gear/ Milwaukee Cylinder	www.milwaukeeecylinder.com	800-334-4712

SAFETY


SAFETY CONSIDERATIONS

The safe operation of your trailer requires that you use common sense and follow safety procedures as defined in this manual and all supplied information from specific component part manufacturers. In this manual, there are specific terms and symbols to indicate areas of potential hazards, which are based upon the ANSI Z535 series of safety information. Make sure you understand the use of these terms and symbols as defined here.


 **NOTE** provides additional information to make a step or procedure easier or clearer. Disregarding a NOTE could cause inconvenience, and would not be likely to cause damage or personal injury.

Caution used without the safety alert symbol indicates a potentially hazardous situation which, if not avoided, may result in property damage.

 - **This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow to avoid possible injury or death.**

 **CAUTION:** Indicates a potentially hazardous situation which, if not avoided, could result in minor or moderate injury. It may also be used to alert against unsafe practices.

 **WARNING:** Indicates a potentially hazardous situation which, if not avoided, could result in death or serious injury.

 **DANGER:** Indicates an imminently hazardous situation which, if not avoided, will result in death or serious injury. This signal word is limited to the most extreme situations.

Reporting Safety Defects

If you believe that your vehicle has a defect, which could cause a crash, injury or death, immediately inform the appropriate agency, in addition to notifying Jayco, Inc. If similar complaints are received, the agency may open an investigation. If they find a safety defect exists in a group of vehicles, a recall and remedy campaign may be ordered. The agency cannot become involved in individual problems between you, your independent, authorized dealer or Jayco, Inc.

NHTSA	Transport Canada	Customer Relations Dept.
U.S. Department of Transportation	Road Safety (ASFAD)	Jayco Incorporated
Washington, D.C. 20590	2780 Sheffield Road Ottawa, Ontario K1B 3V9	P.O. Box 460, Middlebury, IN 46540
Phone: 1-800-424-9393	Fax (613) 993-3632	Email: service@jayco.com
Washington, D.C. Area: 368-0123	(613) 991-5802	Business Hours: 8:00-5:00 Mon.–Fri.

You can obtain other information about motor vehicle safety from the NHTSA Hotline.

Safety in Using LP Gas

We recommend that all work on the LP gas system be performed by your independent, authorized dealer. The following information is provided to give a basic understanding of LP gas.

Your recreation vehicle is equipped with an LP gas system to help provide some of the comforts of home. This system is very dangerous. Proper handling of LP Gas, knowledge of your system and routine maintenance are key factors to your safety and that of others around you. The following list provides basic information for LP gas safety:

- LP gas is heavier than air. Leaking gas tends to flow to and pocket in low areas, such as the motorhome floor.
- LP gas is colorless and odorless. A chemical odorant, smelling similar to rotten eggs, is added by the gas manufacturer to make sure leaks are identifiable, which can normally be smelled if there is a leak.
- Never light a match or allow any open flame in the presence of leaking gas or the smell of LP gas.
- Turn off LP gas while refueling the tow vehicle.
- Some states prohibit gas appliances to be operated during travel, especially in tunnels. Make sure you know the laws for the areas where you travel.
- Never allow LP gas tanks to be filled above the liquid capacity as indicated on the tank. If a tank is overfilled, liquid gas may flow through the regulator causing it to freeze and/or create dangerously excessive pressure in the lines. Make sure that an overfilled tank is taken care of by an LP gas professional before it is put into service.
- An overfilled tank placed in sunlight may expel excess gas through the relief valve. This causes susceptibility to ignition by nearby open flame.

Taking time to become educated about LP gas and how it should be handled are critical to your camping experience. If you have questions, consult with your independent, authorized dealer or LP gas professional.

Checking for Leaks

LP gas is both colorless and odorless. For your safety, a chemical agent is added by the gas manufacturer which smells similar to rotten eggs. If you are not accustomed to the smell of LP gas, ask your independent, authorized dealer or LP gas service personnel to help you and your family become familiar with it.

Vibration from travel can cause connections to loosen. This requires that the LP gas system be checked periodically for leaks. The system has been tested by the manufacturer and Jayco recommends that the independent, authorized dealer test the system as well. However, continued maintenance is recommended for safe operation.

TO LEAK TEST THE LP GAS SYSTEM:

- Use an appropriate LP detector solution or create a soapy water solution. **If soapy water is used, make sure that the soap used does not contain ammonia or chlorine.**
- Apply the solution to all gas piping connections.
- If a leak is present, the soap will bubble at the connections.



WARNING: DO NOT USE A FLAME OR LIGHTED MATCH TO TEST FOR LEAKS.

IF A LEAK IS DETECTED:

- Turn off all appliances that utilize LP gas.
- Make sure that everyone is out of the RV, including pets.
- Turn off the LP gas at the tank(s).
- Take your RV to your independent, authorized dealer and have the system repaired before using it again.



WARNING: WE STRONGLY RECOMMEND THAT YOU HAVE A PROFESSIONAL TEST YOUR LP GAS SYSTEM FOR LEAKS ONE TIME EACH YEAR AS PART OF NORMAL MAINTENANCE.

Electrical System Safety

Circuit breakers and fuses are installed to protect electrical circuits from overloading. Do not make unauthorized changes to circuitry or add fixed appliances. If you wish to make changes, consult your independent, authorized dealer and they will assist you in obtaining a safe installation.

An approved power cord has been supplied with the vehicle. Always use this cord for hook-up to 120-volt shoreline power. The cord has a three pin plug, which provides proper grounding through the third (round) pin. Grounding is personal protection from electrical shock.



WARNING: Do not use an adapter, cheater, or extension cord that will break the continuity of the grounding circuit connected to the third pin. NEVER remove the grounding pin to connect a non-grounded, two-prong receptacle. Any deviation from this will potentially cause a fire from overheating.

Fire Extinguisher

A fire extinguisher is installed in each vehicle and is located near the entrance door in the motorhome. Be familiar with its location and operating instructions as printed on the extinguisher and any materials from the extinguisher supplier or manufacturer. It is too late to become familiar with an extinguisher when an emergency is at hand.

The fire extinguisher is a dry chemical, nonrefillable extinguisher. Do not test this extinguisher by partially discharging. Doing so will cause loss of pressure making the extinguisher unusable. The extinguisher must be discarded and replaced by a new one if any use has occurred.

INSPECTION AND MAINTENANCE

To insure that your fire extinguisher will be ready when needed:

- Read and follow all instructions on label and in owner's manual.

- Inspect the extinguisher AT LEAST once a month - more frequently if exposed to weather or possible tampering.
- Check pressure by pressing in white indicator button. If button does not spring back, extinguisher will not work properly and must be discarded.
- Be sure the yellow lock pin is firmly in place.
- Keep the extinguisher clean. Check for dents, scratches, corrosion or any other damage.
- Check the discharge nozzle. Make sure it is clean and free of obstructions.



CAUTION: Under certain fire and heat conditions, the dry chemical powder in this extinguisher (and similar units) will cause damage or prove extremely difficult to remove from oven surfaces, including self-cleaning models. Do not use self-cleaning feature to remove ABC Powder.



CAUTION: Avoid inhaling the dry chemical agent contained in the extinguisher. It is not toxic, but may cause skin irritation. In case of contact, flush affected area with clean, cool water. If irritation persists, contact a physician immediately. Chemical name of agent is printed on extinguisher label.

Carbon Monoxide Detector

Carbon monoxide (CO) is an odorless, colorless, tasteless gas that is extremely dangerous to humans and animals. The following table contains symptoms indicative of individuals exposed to carbon monoxide:

Symptoms of Carbon Monoxide Exposure		
Headache	Fatigue (often described as “flu” like symptoms)	Unconsciousness
Running nose	Dizziness	Convulsions
Sore eyes	Drowsiness	Brain damage
Nausea	Confusion	Cardio respiratory failure
Vomiting	Fast heart rate	Death



DANGER: Any amount of exposure to CO is dangerous and must be taken care of before reentering the RV. If anyone develops symptoms as listed, make sure that everyone gets to an area of fresh air. Failure to do so could result in death or serious illness.

A UL listed carbon monoxide detector has been installed in your motorhome. It is designed to detect toxic CO fumes. It is not a substitute for other combustible gas, fire or smoke alarms. Information has been supplied by the carbon monoxide detector manufacturer for operation, safety and maintenance. Make sure that you read, understand and follow all information supplied by the CO detector manufacturer with your RV.

Water System Safety

The following warning label is placed on the exterior of your trailer at each water tank inlet. Make sure you read, understand and follow this label and all applicable instructions.



WARNING: POTABLE WATER ONLY. SANITIZE, FLUSH AND DRAIN BEFORE USING. SEE INSTRUCTION MANUAL. FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.

Emergency Exit Window

An emergency exit window is installed in your motorhome, typically on the rear wall or sidewall opposite the entry door. The window is identified by red snap latches and a white label with red letters indicating "EXIT."

If access to the main door is not available, this window provides an exit from the vehicle during an emergency. An emergency exit may also be available through the driver's side cab door. Practice opening the window BEFORE an emergency occurs, and make sure all occupants know how it operates.

Safety When Emergency Stopping

Pull off the roadway as far as possible for emergency situations and turn on the tow vehicle's warning flashers. If necessary, display your road flags and/or reflective triangles.



NOTE: Always carry road flags and/or reflective triangles to be displayed when necessary.

Changes, Modifications and Additions

Your RV has been built/designed with a specific floor plan and equipment. It is recommended that you do not make changes, modifications, alterations or additions to your unit. If any changes or additions are made after delivery of your trailer to you, it may cause a hazardous condition. Consult your local independent, authorized dealer prior to making any changes, modifications or additions. Only qualified technicians should attempt to make changes or additions to the RV, using only approved materials, component parts, and employing approved methods of installation, which meet safety and code requirements.



CAUTION: Any installation not properly performed or that does not meet the criteria of the manufacturer's specifications, or code requirements, may damage the RV, including component parts and **VOIDS THE WARRANTY** on the RV.



WARNING: Improper installation of equipment to your trailer creates potential for a hazardous situation and personal injury. Make sure that a qualified RV technician performs modifications if you choose to make them.

Smoke Detector

A smoke detector is supplied with your motorhome. This safety device must be correctly maintained to work properly and warn you of smoke in your motorhome. Make sure that you read, understand and follow all warnings, cautions, operating and maintenance instructions supplied by the smoke detector manufacturer.



WARNING: Improper maintenance of the smoke alarm as instructed by the smoke alarm manufacturer creates the potential for death, personal injury and/or property damage. Make sure that everyone knows and understands the procedures to follow if the alarm is sounded.

Also, you need to read, understand and follow the warning label that has been affixed in your motorhome adjacent to the smoke detector. The label reads as follows:



WARNING

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

Additional Safety Considerations



WARNING: For traveling safety, it is extremely important to read, understand and follow the towing, hitching and loading cargo information provided in the Travel Chapter. If you do not understand the information provided, please consult your independent, authorized dealer.

- Sanitize the fresh water supply system periodically (see sanitizing instructions).
- Prevent water connections from coming in contact with the ground or drain hose to reduce chance of contamination.
- Have a certified RV technician repair and maintain the gas or electrical appliances.
- Always have a serviceable fire extinguisher placed in an easily accessible location.
- Carefully read the loading section in the Travel Chapter related to your motorhome.
- Ensure that the tires are in good condition and properly inflated. Monitor the tire pressure closely for proper inflation. Neglecting to do so could result in overheating of a tire, which could result in a blowout.
- Check and tighten the wheel lugs regularly, according to your chassis owner's manual recommendations.
- Check the brakes in a safe area - not while traveling on a busy highway.
- Before leaving a camp area, refer to the "Preparing to Travel Home..." chapter and read, understand and follow all applicable instructions.

- Observe the warning labels attached to your vehicle concerning LP gas, water, electricity and loading.
- Observe the maintenance chart in this manual and all applicable information supplied by component part manufacturers related to your respective unit.

COLD WEATHER/EXTENDED USE

Your motorhome has been built for enjoyment in a recreational manner. It is not intended to be used as full-time living quarters.

Caution: Continuous living in your motorhome could cause accelerated wear and damage to component parts. It also voids the warranty.

- Use of this motorhome during cold weather will require more protection. Using skirting or insulation below floor level will provide additional protection if you are camped in one area for an extended period.
- Proper care should be taken with the fresh water and drainage systems to avoid freezing problems. Consult with your independent, authorized dealer or RV supply house for advice on heat tapes, etc.
- Adequate gas and electrical supply is needed along with protection from possible freeze-ups on gas regulator. The furnace will substantially increase battery draw and LP gas use.
- During cool weather usage, ventilation or the addition of a may be required to reduce condensation. See the next section for important information on controlling condensation.

CONDENSATION

Condensation is a natural phenomenon. The amount of condensation will vary with the climate conditions, particularly the relative humidity. Condensation occurs because there is water vapor present in the air, which is added by breathing, bathing and cooking. The water vapor collects where there is available air space, and when the temperature reaches the 'dew point' the water vapor in the air condenses and changes to liquid form. Most people have experienced a similar phenomenon when moisture forms on kitchen windows and bathroom mirrors during cool weather.

Proper ventilation and, if needed, the use of a dehumidifier will assist in controlling the condensation. Many RV and marine dealers carry small dehumidifiers especially sized for recreation use. Condensation causes dampness, mildew, staining and if allowed to continue at high levels, damage to the paneling and wood structures. It is the owner's responsibility to make sure that condensation is properly removed from the air.

INSURANCE

As with your automobile, it is important that you protect yourself and others with insurance coverages for personal liability, theft, collision, property damage, etc. Your independent, authorized dealer can assist you in obtaining appropriate insurance for your protection or you may check with the company which provides your automobile insurance or other insurance companies.

NOTES

[illegible]

BEFORE YOU TRAVEL...

WEIGHTS AND CARGO CAPACITY

The safety of your travel will be affected by your understanding of weights and cargo distribution for your motorhome. Read, understand and follow all information related to the weight of your motorhome. We provide the following labels on your motorhome (copies are printed here):

- The “Federal Certification” (Fig. 1) label is affixed to the post of the driver’s door. It lists the vehicle weights as well as the tire and axle rating information.
- The “Motorhome Weight Information” (Fig. 2) label is typically located inside the base kitchen cupboard on the cabinet door. This label is critical in understanding motorhome weight definitions. Please read, understand and follow all of these definitions. In addition to the label information, the GAWR is the maximum weight rating that components of each axle are designed to support (i.e. tires, brakes, springs, axle). Information that seems unclear should be discussed with your independent, authorized dealer.

The weights of your unit are the model’s dry weights with standard equipment. **It is critical that you do not exceed the gross vehicle weight rating (GVWR) of your motorhome.** As you begin to load your personal cargo, remember that what you load as well as options that have been added will affect the overall weight. **Never exceed the gross vehicle weight rating of your unit.**

MANUFACTURED BY: FABRIQUÉ PAR:	JAYCO, INC.	DATE _____
INC. VEHICLE MFG. BY: VÉHICULE FABRIQUÉ PAR:	_____	
GVWR/PNBV: KG	V.I.N./N.I.V.	PRESS./COLD INFL. PRESS. DE GONFL. À FROID
	SIZE/DIMENSION	
GAWR/PNBE: KG	TIRE/PNEU	RIMS/JANTE
	PSI/LPC	KPA
FRONT/DEVANT	_____	_____
INT./CENTRAL	_____	_____
REAR/ARRIÈRE	_____	_____
TYPE OF VEHICLE/TYPE DE VÉHICULE: MOTOR HOME/AUTOCARAVANE MULTIPURPOSE PASSENGER VEHICLE/VÉHICULE DE TOURISME À USAGES MULTIPLES		
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS AND STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.		
CE VÉHICULE CONFORME À TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU RÈGLEMENT SUR LA SÉCURITÉ DES VÉHICULES AUTOMOBILE DU CANADA EN VIGUEUR À LA DATE SA FABRICATION CI-DESSUS.		

Fig. 1

MOTORHOME WEIGHT INFORMATION		
SERIAL # _____	MODEL _____	
GVWR	(GROSS VEHICLE WEIGHT RATING) MEANS THE MAXIMUM PERMISSIBLE WEIGHT OF THIS FULLY LOADED MOTORHOME.	
UVW	(UNLOADED VEHICLE WEIGHT) MEANS THE WEIGHT OF THIS MOTORHOME AS MANUFACTURED AT THE FACTORY WITH FUEL ENGINE OIL, AND COOLANTS.	
SCWR	(SLEEPING CAPACITY WEIGHT RATING) MEANS THE DESIGNATED NUMBER OF SLEEPING POSITIONS MULTIPLIED BY 154 LBS (70 KG).	
GCC	(GROSS CARRYING CAPACITY) MEANS THE MAXIMUM CARRYING CAPACITY OF THIS MOTORHOME. THE GCC IS EQUAL TO THE GVWR MINUS UVW. THE GCC WILL BE REDUCED BY THE WEIGHT OF FRESH WATER, OR OTHER TANKS, LP-GAS, OCCUPANTS, PERSONAL ITEMS, OR DEALER INSTALLED ACCESSORIES.	
CCC	(CARGO CARRYING CAPACITY) IS EQUAL TO GVWR MINUS EACH OF THE FOLLOWING: UVW, FULL FRESH WATER (POTABLE), WATER HEATER (INCLUDING THE WATER HEATER), FULL LP-GAS WEIGHT AND SCWR.	
GCWR	(GROSS COMBINATION WEIGHT RATING) MEANS THE VALUE SPECIFIED BY THE MOTORHOME MANUFACTURER AS THE MAXIMUM ALLOWABLE WEIGHT OF THIS MOTORHOME WITH ITS TOWED TRAILER OR TOWED VEHICLE. THE GCWR IS NOT AN INDICATION OF BRAKING CAPACITY FOR THIS MOTORHOME.	
The GCWR of this motorhome is		Lbs. (kg.)
The maximum allowable hitch weight is		Lbs. (kg.)
CARGO CARRYING CAPACITY (CCC) COMPUTATION		
LBS. (KG.)		
GVWR		
MINUS UVW (APPROXIMATE)		
GCC OF THIS MOTORHOME		
		ADDED WEIGHT
		LBS. (KG.)
		ADJUSTED CCC
		LBS. (KG.)
GCC		
MINUS FRESH WATER WEIGHT OF		
46 GAL. @ 8.33 LBS./GAL.		
MINUS LP-GAS WEIGHT OF		
13 GAL. @ 4.24 LBS./GAL.		
MINUS OCCUPANTS @		
154 LBS./PERSON = SCWR		
MINUS OCCUPANTS @ 154 LBS./PERSON		
MINUS OCCUPANTS @ 154 LBS./PERSON		
MINUS OCCUPANTS @ 154 LBS./PERSON		
*DEALER INSTALLED EQUIPMENT AND TOWED VEHICLE TONGUE WEIGHT WILL REDUCE THE CCC.		
CONSULT OWNER MANUAL(S) FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES.		

Fig. 2



WARNING: Do not add accessories or component parts that are not safe and appropriate for this product. These changes will effect weight specifications, void the warranty and adversely effect handling and stability of the unit, as well as accelerate wear to other component parts. Jayco, Inc. DOES NOT provide warranty coverage for equipment installed by the independent, authorized dealer or owner.



WARNING: Do not exceed your GVWR. Your recreation vehicle's load capacity is designed by weight, not by volume. You can not necessarily use all available space when loading the vehicle.

LOADING CARGO

After you have read and understand the overall weight definitions and limits to your motorhome, you are ready to load it for travel. With the excitement of awaiting adventures, everyone will want to take along everything they might possibly need. This is where careful planning and preparation will help to insure a safe trip. As you develop a routine for loading your cargo, it may be helpful to utilize checklists and other resources. You will find a list of items which are often used at campsites at the end of this chapter. This list will give you a place to start when preparing your motorhome for travel. Keep in mind that your preferences and specific camping situation will determine items you would eliminate or add to this list.

Of most importance, above personal preferences, is the overall amount of cargo packed and the way it is placed in the motorhome. As cargo is placed in the unit, pay particular attention to where you place it. Follow these rules of thumb:

- Observe ALL capacity ratings to avoid problems, and make sure that you never load your motorhome in a manner that causes the weight to exceed the GVWR, GCWR, GAWR (of any axle) or the weight ratings of individual tires.
- Heaviest items must be stored in lower cabinets and storage areas.
- Keep the majority of the cargo weight over the axles and toward the front of the unit.
- Always pack items evenly from side to side to maintain motorhome balance.
- Make sure that all items are secured in place to prevent shifting during travel.




WARNING: Ensure you are loading the unit as evenly as you can for the best possible handling. All items must be secured to avoid shifting during travel.



WARNING: If your unit is equipped with a roof ladder, do not leave items attached to it while traveling. The ladder has a weight limit of 350# when using it to access the top of the unit. Do not exceed this limit.

The following label (Fig. 3) is attached to your motorhome as a reminder of loading rules when loading your unit. Please read, understand and follow all guidelines and weight ratings when loading your motorhome.




WARNING:
PROPER ATTENTION MUST BE TAKEN FOR CARGO LOADING AND DISTRIBUTION TO ASSURE TRAVELING SAFETY.

- 1. LOAD ALL CARGO EVENLY FROM SIDE TO SIDE.**
- 2. SECURE ALL ITEMS TO PREVENT LOAD SHIFTS DURING TRANSIT.**
- 3. AFTER LOADING, WEIGH THE MOTORHOME AT EACH AXLE AND EACH WHEEL. OBSERVE ALL MOTORHOME GROSS, AXLE AND TIRE RATINGS.**
- 4. IF THE WEIGHT OF THE LOADED MOTORHOME EXCEEDS ANY OF THE RATINGS AS LISTED ON THE CERTIFICATION LABEL, LOCATED ON THE WALL AT THE LEFT END OF THE DASH PANEL OR ON THE DOOR JAM OF THE DRIVERS DOOR, THEN REMOVE OR REDISTRIBUTE THE CARGO LOAD UNTIL THE WEIGHT(S) ARE EQUAL TO OR LESS THAN THE MAXIMUM RATINGS.**
- 5. IF ADDITIONAL ASSISTANCE IS NEEDED, CONTACT YOUR DEALER.**

FAILURE TO COMPLY COULD RESULT IN AN ACCIDENT OR LOSS OF CONTROL RESULTING IN DEATH OR SERIOUS INJURY.

Fig. 3

Holding Tank(s) and Motorhome Weight

 **WARNING:** We recommend that you DO NOT travel with waste in your holding tanks. With one or more full or nearly full holding tank(s), the towing characteristics of your motorhome could change and may result in property damage or personal injury.

The weight of holding tank contents are not calculated into the cargo carrying capacity of the motorhome. The extra weight will diminish the cargo capacity available to you. Traveling with full holding tank(s) could cause you to exceed the gross axle weight rating(s), individual tire ratings and/or the gross vehicle weight rating (GVWR) of the unit. Potential damage to suspension components, such as springs, tires and axles, could result.

If you are dry camping and cannot immediately empty the tank(s), reduce your speed until you reach the nearest dumping station.

Rear Bumper

The rear bumper of your unit is not designed to carry cargo. Items that extend beyond the bumper or weigh over 100# (45kg) will place undue strain on the bumper. The 100# capacity of your bumper includes the weight of the spare tire that may have been attached at the factory. Some items may fall within the given weight range, however, may still cause damage. Over time, weight added to your bumper will cause damage from the motion created while traveling.

In addition, extra weight behind the axle may affect steering conditions. This could lead to adverse handling from wind gusts and/or passing traffic.

Caution: Do not add items to the motorhome's rear bumper. Add-on items will eventually damage your bumper. Damage from add-on equipment or improper loading voids the Limited Warranty of your motorhome.

Hitch

Your motorhome is designed to be a recreation vehicle, however it does have towing capabilities as well as limitations. A class III hitch receiver is available with a 3,500# (1588 kilograms) gross weight capacity. A variety of extender bars of different ratings are available. Remember the limit of weight on the hitch and chassis.

The following warning label (Fig. 4) is attached to the exterior of your motorhome near the hitch receiver bar and in the interior adjacent to or immediately below the RVIA Weight Information Label. (The weight labels are typically placed on the back of an interior cabinet door in the kitchen.) For your safety, please read, understand and follow this label and all towing and braking capacities of your vehicle found in the chassis owner's manual and all applicable information. For added information, consult with the chassis manufacturer and/or your independent, authorized dealer.

! WARNING

YOUR MOTORHOME CHASSIS IS RATED FOR TOWING OPERATION AT GVWR NOT GCWR. CONSULT YOUR CHASSIS OWNER'S MANUAL(S) FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES. THE BRAKING CAPACITY OF YOUR MOTORHOME IS NOT NECESSARILY AS GREAT AS THE TOWING CAPACITY. SEPARATE BRAKING SYSTEMS SHOULD BE USED FOR CONTROL OF A TOWED VEHICLE, (AUTO, TRAILER, BOAT, ETC.), BEHIND THE MOTORHOME. IF THE TOWED VEHICLE MEETS OR EXCEEDS THE MINIMUM WEIGHT AS DETERMINED BY THE CHASSIS MANUFACTURER, (THIS MINIMUM WEIGHT RATING WILL VARY BY CHASSIS AND CHASSIS MANUFACTURER), CONTACT YOUR CHASSIS DEALER OR MANUFACTURER FOR ASSISTANCE IN DETERMINING WHETHER A SEPARATE BRAKING SYSTEM IS RECOMMENDED AND WHAT LIMITS THERE ARE FOR YOUR TOWING COMBINATION AND TRAVELING SAFETY.

Fig. 4

Trailer Brakes

If you choose to tow behind your motorhome, the unit is pre-wired for connection to electric trailer brakes. The seven (7) way electrical connector at the motorhome hitch interfaces with the original equipment manufacturer (OEM) chassis wiring terminating near the base of the steering column or parking brake mechanism area. These wires on your

motorhome are provided for ease of installation of an optional electric trailer brake controller.

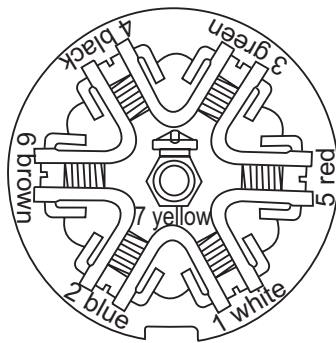


WARNING: Electric trailer brakes will not operate without the proper installation of an optional electric trailer brake controller.

See your independent, authorized dealer for assistance in selecting and installing an electric trailer brake controller to meet your needs.

The following diagram (Fig. 5) indicates the layout of the seven (7) pin connector supplied with your motorhome. The connector between the motorhome and trailer may build up corrosion with extended use and should be cleaned periodically to insure good electrical contact.

Fig. 5



White	1	Ground
Blue	2	Brakes
Green	3	Running Lights
Black	4	Interior 12-volt lighting
Red	5	Stop & left turn
Brown	6	Stop & right turn
Yellow	7	Back up

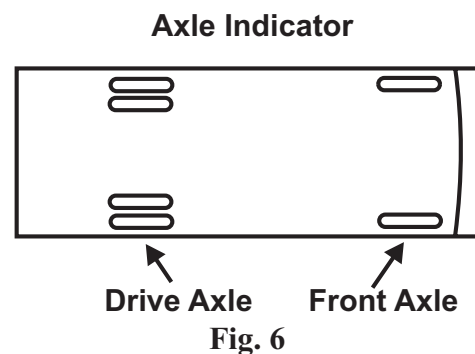
WEIGHING INSTRUCTIONS

As your packing and loading routine becomes more familiar from experience, physically weighing your motorhome may not be necessary before each trip. While you are developing a process, it is imperative that you verify compliance within the weight ratings. Overloading your RV voids the Jayco limited, express warranty and the warranties of many component part manufacturers. The following process will aid with weighing your motorhome. Keep in mind that each individual scales and the surroundings will vary in usability.

Your recreation vehicle must be weighed fully loaded, that is, with passengers, food, clothing, fuel, water, propane, supplies, etc. Any towed vehicle (car/pickup, boat or trailer) or item loaded on brackets on the back of the recreation vehicle, such as bikes or motorcycles, must also be included when weighing your motorhome.

There are three types of scales:

1. **PLATFORM** - This scale is long enough to weigh the complete vehicle. The following steps are suggested:
 - a. Pull onto the scale so that only the front axle is on the platform (with the end of the scale midway between the front and rear axles), and record the scaled weight.
 - b. Pull forward until the full unit is on the scale, and record the scaled weight.



- c. Pull forward so that only the rear axle is on the scale (again with the edge of the scale midway between the front and drive axles), and record the scaled weight.
- d. If a boat, trailer or other vehicle is being towed, it should be weighed and combined with the towing vehicle's GVWR to ensure the total weight does not exceed the GCWR.
2. **SEGMENTED PLATFORM** - Platform scales with segmented sections can provide individual axle weights and total vehicle weights simultaneously, when the vehicle is positioned properly.
Position the vehicle on the scales so that each axle is centered as much as possible on separate segments, and record the weight. Reposition the vehicle so that only one side is on the scale, again centered on the segment as much as possible. Subtract the weighed wheel positions from the total axle weights to determine the unweighed wheel positions' weights.
3. **SINGLE AXLE** - This scale weighs one axle at a time. Drive your front axle onto the scale and stop long enough for the weight to be recorded. Pull vehicle forward until the rear axle is on the scale. To obtain the gross vehicle weight, add the two axle loads together. To obtain the individual wheel position weights, repeat this process with only one side of the recreation vehicle on the scale.

(N) NOTE: Even though the weight of the total axle may be within the axle's rating, it may be overloaded on one side. This causes one wheel position to be overloaded. Therefore, side-to-side weighing should also be done.

- a. To determine individual wheel position weights, it is necessary to repeat the previous three steps (1a, 1b, and 1c), but this time, use only one side of the scale.
- b. To calculate the opposite side of the vehicle wheel position weight, subtract this side's weights from the weights recorded in steps 1a, 1b, and 1c.

Your recreation vehicle must remain as level as possible on the scale (even though an axle or side is not physically on the scale). Obviously, to obtain the side-to-side weights, there must be enough space on either side of the scale to accommodate the recreation vehicle being partially off the scale.

If there is a difference in the weights on one side of the vehicle as compared to weights on the other side, components (tires, wheels, brakes, springs, etc.) on the heavier side could be overloaded, even though the total axle load is within the GAWR. It is important to redistribute the load to avoid component failure, to improve the handling characteristics of the vehicle and to not void the warranty.

With these actual weights, it is now possible to compare them against the GAWR, GVWR and tire capacities. These weights are also what should be used to help determine the proper air pressure for the tires.

TIRES

The chassis manufacturer has equipped your motorhome with name brand tires. Recommended air pressure (PSI) is stamped on each tire and can also be found on the Federal Certification Label. Always check air pressure and adjust accordingly while tires are cold. During travel, tires heat up and pressure increases. **DO NOT** release air pressure when tires are hot or your tires may then be under inflated.

Any service or warranty coverage on tires will be handled by the tire store representing the specific brand on your motorhome.



WARNING: It is recommended that the tire pressure be checked at the beginning of each journey to obtain the maximum life and proper performance of the tires. Follow the instructions of the tire manufacturer to determine the correct tire pressure. Underinflation or overinflation may cause tire failure and loss of control, resulting in injury, death or property damage.

WHEEL LUGS

Ensure that wheel lugs are tight as specified in the chassis manual. When your vehicle is new or a tire has been removed for any reason, re-torque the lug nuts at 10, 25 and 50 miles (15, 40 and 100 kilometers) and every 3,000 miles (5000 kilometers) thereafter.

SEAT BELTS

Three-point shoulder harnesses and lap belts are provided at the front driver and passenger seats by the chassis manufacturer. See the chassis manual for operating instructions and warnings.

For the recreation vehicle section, the dinette, sofa, and barrel chairs have two-point lap seat belts installed. Swivel chairs must be locked facing forward or toward the rear while traveling.

To operate:

- Slide the loose end of the seat belt into the buckle until it "clicks" in place.
- Adjust by pulling the loose strap end until it fits snugly on your upper lap.
- To release the seat belt, push the button on the buckle and pull apart.



WARNING: Your motorhome is equipped with seatbelts at all seat locations. Having seatbelts at all seat locations does not necessarily mean that all seats can be occupied at one time, because you cannot exceed the GVWR of your vehicle. When calculating the loaded weight of the vehicle, make sure to include all people who will be riding in the unit. The GVWR of your unit is located on the Motorhome Weight Information label.



NOTE: Pregnant women should consult a physician for seat belt use.

DRIVING

Driving a motorhome is similar to an automobile, however the size of the motorhome requires different handling. If you are not familiar with handling a large vehicle, become familiar with all controls and the unit's handling ability. The following list of items provides information to keep in mind during travel:

- Motorhomes are built on a larger chassis than cars, and you will sit higher off the road.
- The chassis wheel base is longer and the “house” portion of the RV is longer. This requires more space to turn and change lanes during travel.
- The motorhome is heavier than a passenger vehicle. The additional weight requires a longer distance to pass another vehicle and to stop the motorhome.
- Always use your turn signals when changing lanes.

BACK UP CAMERA (SOME MODELS)

Your motorhome may have a camera mounted on it to view directly behind the unit when backing. Not all motorhomes have this option available. If your unit has this feature, a monitor is installed on the back of the driver’s seat sun visor or the rear view mirror. The monitor is operational whenever the motorhome engine is running. To use the monitor, flip the switch from stand-by to on. Make sure you turn the monitor to stand-by while driving to avoid being distracted. Consult with your independent, authorized dealer if you have further questions.

POWER MIRRORS (SOME MODELS)

Your motorhome may be equipped with power mirrors as standard or optional equipment. This feature is not available on all motorhomes. If your unit has this equipment, a control panel is placed in the mounting panel of the mirror on the driver's side. The system is powered by 12-volt DC with fuse located under the dash, 1-amp in line.



Fig. 7

To Operate:

1. The top switch turns the mirrors on and allows you to adjust them as needed.
2. With the top switch ON (Fig. 7), you are able to adjust one mirror at a time. In the middle of the bottom switch, move the R/L tab to select the mirror you wish to move. When R is visible, you are adjusting the right mirror, and when L is visible, you are adjusting the left mirror.
3. Press an arrow in the direction you wish to move the mirror.
4. Place the R/L tab in the middle position, so both letters are showing, and turn off the top switch when not adjusting the mirrors.

ELECTRIC DOOR STEP (STANDARD ON SOME MODELS)

Your motorhome may be equipped with electric door steps. Make sure that you read, understand and follow all information for operation supplied by the step manufacturer with your unit. If you have further questions, consult with your independent, authorized dealer and/or visit the step manufacturer’s website at www.kwikee.com.

The electric door step opens automatically when the screen door is opened. Constant 12-volt power to the electric step is supplied through a 20-amp circuit breaker located under the hood near the auxiliary start solenoid.



CAUTION: When opening the door from the outside, ensure that you are not in the path of the step.

PRE-TRAVEL CHECKLIST



WARNING: For traveling safety, it is important to make sure that tie down straps are secured on all appliances such as the television, coffee maker, etc. Vibration caused during travel will move the appliances creating the potential for them to fall out of their cabinets possibly causing injury.

In order to enjoy your travel, having all the right tools and supplies will help. A checklist may be beneficial to avoid forgetting something essential. This list is meant to be a starting point, while realizing that personal preference will also play a large roll in your packing. There are items here which may not apply for you and items which could trigger other ideas. As you expand your camping experience, you may wish to develop your own list of needs.

Motorhome Operation

- ☐ Check fluids
 - oil
 - coolant
 - transmission fluid
 - washer fluid
 - power steering fluid
 - brake fluid
 - battery terminal
- ☐ Check belts
- ☐ Check wheel lugs
- ☐ Check tire pressure (include inner wheel and spare, if applicable)
- ☐ Check tire wear (uneven wear pattern)
- ☐ Check lights
 - headlights
 - brake lights
 - clearance lights
 - turn signals
- ☐ Retract stabilizer jacks
- ☐ Retract steps (if applicable)
- ☐ Wheel chocks removed
- ☐ Test brakes for proper operation
- ☐ Tools
 - jack
 - torque wrench
 - tire pressure gauge
 - jumper cables
 - duct tape
 - fuses and light bulbs (compatible with your RV)
 - shovel (small folding)
 - axe
 - saw (bow or folding)
 - work gloves

Before you Travel...

- AC voltage tester
- tool kit (screws, hammer, pliers, etc.)
- rope, cord, bungee cord(s) or wire
- ☐ Electrical cord
- ☐ Water hose
- ☐ Disposable rubber gloves
- ☐ Sewer hose
- ☐ Surge protector
- ☐ Telephone and/or cable wire (if applicable)

Supplies

- ☐ First aid kit
- ☐ Flashlight(s)
- ☐ Toilet paper
- ☐ Bug spray
- ☐ Sun screen

Recreation

- ☐ Games - cards, board, dice
- ☐ Outdoor activity equipment (fishing poles, tennis rackets, etc.)
- ☐ Lawn chairs
- ☐ Campfire supplies
 - smores - marshmallows, chocolate, graham crackers
 - skewers, pie irons, etc.
 - fire grate for cooking
 - firewood, newspapers and/or kindling
 - matches in waterproof container and/or utility lighter

Bedding

- ☐ Sheets
- ☐ Blankets
- ☐ Comforters
- ☐ Pillows
- ☐ Sleeping bags

Kitchen

- ☐ Pots & pans
- ☐ Cooking utensils
- ☐ Trash bags and/or paper sacks
- ☐ Aluminum foil, plastic wrap, etc.
- ☐ Paper plates, towels, napkins, coffee filters, etc.
- ☐ Dish towels and rags
- ☐ Dish soap
- ☐ Food supplies
- ☐ Charcoal and lighter fluid

Personal Supplies

- ☐ Clothing
- ☐ Toiletries
- ☐ Towels - beach and bath
- ☐ Laundry detergent

Before leaving home

- ☐ All list items packed in motorhome
- ☐ Refrigerator door locked
- ☐ Loose items secured
- ☐ Membership cards
- ☐ Keys (spare ignition, baggage door, etc.)
- ☐ Vehicle registration
- ☐ Proof of insurance
- ☐ Roadside assistance phone number, membership card and/or policy
- ☐ Road flares
- ☐ Map/road atlas/campground directory
- ☐ Owner's manual for the RV
- ☐ Owner's manual and information regarding component parts
- ☐ Arrange for pet care, mail/newspaper pickup
- ☐ Leave itinerary with neighbor/family/friend
- ☐ Security watch for house (neighbor/family/friend)
- ☐ Weigh fully loaded motorhome (people, cargo and liquids included) and maintain proper weight distribution (redistribute as necessary)

Before you Travel...

NOTES

[illegible]

SETTING UP CAMP...

SELECTING YOUR CAMPSITE

In some cases, searching for the right campground prior to traveling might be the first step in selecting your site. Some campgrounds will allow reservations made in advance. Depending on the area you are headed to and the time of year (i.e. around a holiday), reservations may limit your frustration upon arrival.

Your trip experience will be affected by the site you choose to park your RV. With time, you will know what you are looking for and what best fits your needs. A few items to keep in mind when selecting your campsite are:

- Arrive before dark, if possible, to make the site selection easier.
- Is the ground level? This will help with leveling your RV and making your stay more comfortable.
- Is there plenty of space?
 - › Will it accommodate slideouts, awnings, etc.? (if applicable)
 - › Is there room for picnic tables, lawn chairs, campfire, etc.?
 - › Is it void of hanging limbs that may damage your unit?
- Is it located in a convenient area?
 - › Will you be able to park close enough to hookups (water, sewer, electric)?
 - › Are you away from noisy areas or things that might detract from a positive experience?
 - › Is there plenty of shade?
 - › Is there good drainage in case of bad weather?

Beyond finding a site that best suits your needs, it is also helpful to keep in mind how you are affecting your camping neighbors' experience. Some etiquette items to keep in mind are:

- Observe the quiet times as posted and abide by the rules of the campground.
- Don't play loud music or make noise which is going to be disturbing to others around you.
- If pets are allowed, keep them restrained.
- Show respect to others, don't make shortcuts through occupied campsites.
- Keep your campsite clean and pick up all trash before departing from the campground.

SETTING UP YOUR MOTORHOME

Leveling Your Motorhome

Leveling your RV is critical for several reasons. Your camping experience will be more pleasant in a level unit. It is important for your RV to be level for proper operation of items such as the refrigerator, the slideout system and draining tanks.

Using blocks under the RV tires is a common way to level the unit. Blocks for this purpose can be purchased from various RV resources or made out of wood. The proper size of blocks are required to prevent causing damage to the tires. Make sure the blocks used cover the entire footprint of the RV tire. Refer to Fig. 8 for proper tire blocking.

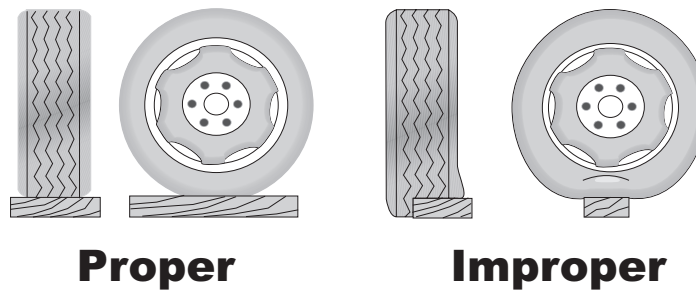


Fig. 8

Additional Set Up

STABILIZER JACKS

1. Insert the crank onto the stabilizer jack shaft.
2. Turn it clockwise to lower the jack. Continue lowering the jack until the frame of the motorhome begins to rise slightly.
3. Equalize the jacks for best support. This may require that you adjust each jack several times. When not parked on cement, you may wish to place a wood or hard plastic block under the jack for convenience.



WARNING: DO NOT USE THE STABILIZER JACKS TO LEVEL THE UNIT. It is important to remember that the stabilizer jacks are to be used only for support while occupying and moving around the motorhome. They are not designed to bear the weight of the motorhome.

TELEVISION

Antenna

Your motorhome is equipped with a crank up antenna for better television reception. Information is supplied with your unit from the manufacturer, Winegard. Refer to this literature for operation and maintenance instructions and/or visit their website at www.winegard.com. If you have further questions, consult with your independent, authorized dealer.

Cable

Some campgrounds provide hook ups to the local cable TV system. If this is available, connect to the motorhome from the campground supplied connection. Your RV system will operate as it would in your home.

Satellite Prep

Your trailer may have wiring included to aid in installation of a satellite dish. Consult with your independent, authorized dealer for assistance with installation. Refer to the “Safety” chapter regarding changes, modifications and additions to your RV.

SLIDEOUT ROOM OPTION

The slideout room is designed for additional floor space and comfort. Mechanical components are gear driven. Read ALL slideout instructions before operation.



CAUTION: Do not place excessive weight in the slideout room. It can cause the slideout room to malfunction and cause damage to the slideout.

Components

The slideout system has numerous major components and are as follows:

- One inner rail drive assembly to support the room weight.
- For electric systems, a 12-volt DC motor and drive shaft will operate the room using energy from an on-board recreation vehicle battery.
- For electric systems, a specially designed auto reset fuse has a load sensing capability that stops the motor when the room reaches its fully extended or retracted position.
- A manual override system that allows you to move the room in or out in the event of a power loss.



WARNING:

- **Ensure that the motorhome is level before operating the slideout room. Water leaks and other problems could result if the slideout is operated without leveling the motorhome.**
- **Ensure there are no people or obstructions blocking the path of the room when it is moving.**
- **Keep away from the slide rails when the room is in motion.**
- **The gear assembly may pinch or catch on loose clothing causing personal injury.**
- **Always install travel bars for storage and transportation.**

FAILURE TO FOLLOW THESE INSTRUCTIONS COULD RESULT IN SERIOUS INJURY OR DEATH.

Caution: After the slideout is extended, verify that the corners of the black rubber seal are set up correctly. The corners of this seal are cut at a 45 degree angle. The top of the seal must overlap the side of the seal to avoid the possibility of water penetration. (Fig. 9)



Fig. 9

Important Slideout Instructions

- Remove the travel bars (Fig. 10) from the top of the slideout before operating the slideout. When the slideout is in, insert the travel on top of the slideout before traveling.
- Models with a slideout front facing dinette seat are equipped with a tie down strap. Make sure this strap is removed when opening the slideout. It is also critical to reinstall the strap prior to travel once the slideout is retracted.

Fig. 10



Extending Room

1. The battery(ies) must be fully charged and connected. The motorhome should be hooked up to 120-volt AC power, if possible.
2. Turn the motorhome master battery switch on.
3. The motorhome must be level and if the unit has stabilizer jacks, they must be in the down position.



CAUTION: Additional support jacks are not needed under the slideout. Damage can occur to your slideout room from improper use of support jacks.

4. Remove the travel bars from behind the top fascia board located above the slideout room.
5. For models with a slideout front facing dinette seat, remove the tie down strap on the aft end of the rear dinette seat.
6. Ensure that there are no items obstructing the room's movement.
7. Locate the slideout master control switch.
8. To move the room out, press the "out" button on the switch (Fig. 11) and hold it until the motor stops.
9. Release the button. Travel time - approximately twenty seconds.



Fig. 11

Retracting Room

1. Remove all objects from in front of the room.
2. Press the "IN" button (Fig. 11) to bring the room in and hold it until the motor stops.
3. Release the button.
4. Install the travel bars in the proper location as indicated on the wall.
5. Install the rear dinette seat tie down strap, if applicable.



WARNING: For models with a slideout front facing dinette seat, confirm that the tie down strap is installed correctly prior to travel.

BOOTH DINETTE TO BED CONVERSION

1. Remove the table top and cushions. Place them to the side.
2. Remove the table legs from the floor brackets and place them in one of the storage compartments of the dinette seats. Place the storage cover back on the dinette seat.
3. Place the table top across the middle from one dinette seat to the other resting on the front edge bracket. For comfort, make sure the table top is level with the top of the dinette bench.
4. Position the dinette bench cushions in place across the benches and the table top.

To convert back to the booth dinette, reverse the procedures above.

J-STEEL SOFA TO BED CONVERSION

1. Lift up on the sofa seat and pull toward the center of the unit.
2. As you pull up, the back of the sofa will fall down and lay out flat to create a bed.
3. To convert back into a sofa, again lift up on the front edge and push toward the unit wall.
4. As you do this, the sofa back will lift into an upright position.

HIDE-A-BED (OPTION)

1. Remove the cushions and place them to the side of the sofa.
2. Pull up, and out, on the handle located in the middle of the hide-a-bed. The middle support leg will fold down to rest on the floor.
3. Using the end support leg, pull the end of the bed out to set on the floor.
4. Fold the mattress out to cover the end of the frame.

To put the hide-a-bed away, reverse the above steps. Make sure all bedding is removed before storing the hide-a-bed. The hide-a-bed must be returned to the sofa position before moving the slideout in to the travel position.

Caution: To eliminate damage to the arm cushions, make sure they are folded out or lifted up when setting up or putting away the hide-a-bed.

SOFA/RECLINER FOOTREST OPERATION

1. Make sure cushion is clear of the footrest opening.
2. Place heels over the edge of the footrest and pull towards you to release the safety lock.
3. Push down – do not force.

AWNING SET UP

Your RV may be equipped with awnings for the slideout, windows, and over the entrance area. Provided with your unit are instructions from the manufacturer which supply the operation and maintenance instructions for your awnings. If you have questions, consult with your independent, authorized dealer, review the materials from the awning manufacturer and/or visit their website at www.carefreeofcolorado.com.

SATELLITE RADIO (OPTION)

Your unit may be equipped with an optional satellite radio system. This feature requires a subscription to operate. Information on the Sirius satellite radio is supplied with your motorhome. Read, understand and follow the instructions supplied by the radio manufacturer to set up and operate your radio system. If you have further questions, consult with your independent, authorized dealer and/or visit the radio manufacturer's website at www.siriusradio.com.

UTILITY HOOKUPS

To complete the unit set-up, the utilities should be hooked to the proper sources as supplied by the campground. Make sure that you read, understand and follow all information provided for complete operation of the utility systems.

Electricity

By connecting the RV electric system to the campground electric source, or "shoreline" power, electricity will be supplied to operate the 120-volt AC and 12-volt DC electrical systems. When hooking up to electricity, follow these steps:

1. Make sure that all circuit breakers are turned off in the RV.
2. Locate the power cord and pull it from the RV to the length required.
3. Plug into the campground power source



WARNING: Do not use an adapter, cheater or extension cord that will break the continuity of the grounding circuit. NEVER remove the grounding pin to connect to a non-grounded receptacle. Any deviation from this will potentially cause a fire from overheating.

Caution: Power surges experienced while plugged in at a campground could potentially damage electronic component parts in your recreation vehicle. Damage from power surges are not covered by your Jayco warranty. Consult the component part manufacturer's owner's manual and/or your independent, authorized dealer for recommendations on power surge protection.

Water

Your motorhome has been built with a complete water system that is unique to your unit's floor plan. The following pages define the water systems available. Determine which plumbing layout applies to your motorhome to operate the water system. Each system provides water to the motorhome from two sources:

- City fill connection attached to an exterior water source.
- Fresh water tank installed on the RV.

Make sure you read, understand and follow all water system safety instructions. Follow instructions for sanitizing your system in the "Utilities and Systems" chapter and make sure it is properly maintained. If you have further questions, consult with your independent, authorized dealer.

BASEMENT OR UTILITY CENTER SYSTEM

For units equipped with a “basement” plumbing system, all functions of the system will be operated from the utility center compartment of the unit. The following information provides definitions of the systems various functions as well as the layout and operation of the utility center. If you have further questions, consult with your independent, authorized dealer.

Utility Center Label Definitions

The following information defines the function of the utility center settings as indicated on the utility center label (Fig. 12)

Normal - This setting allows you to pump water from the fresh water tank to all faucets when you are not hooked up to city water. Turn on your 12-volt demand pump to accomplish this.

City Water - This setting allows you to have access to water at all faucets on demand. Connect a garden hose from an outside water source to the city water connection inlet at the utility center and turn on your outside water.

City Tank Fill - This setting allows you to fill your fresh water tank. Connect a garden hose from an outside water source to the city water connection inlet at the utility center. Turn on your outside water.

Sanitize Tank - (See the instructions in the “Utilities and Systems” chapter.) This setting may also be used to fill the fresh water tank from an external container.

Antifreeze/Sanitize Lines - (See the instructions in the “Utilities and Systems” and “Storage” chapters for these operations.)

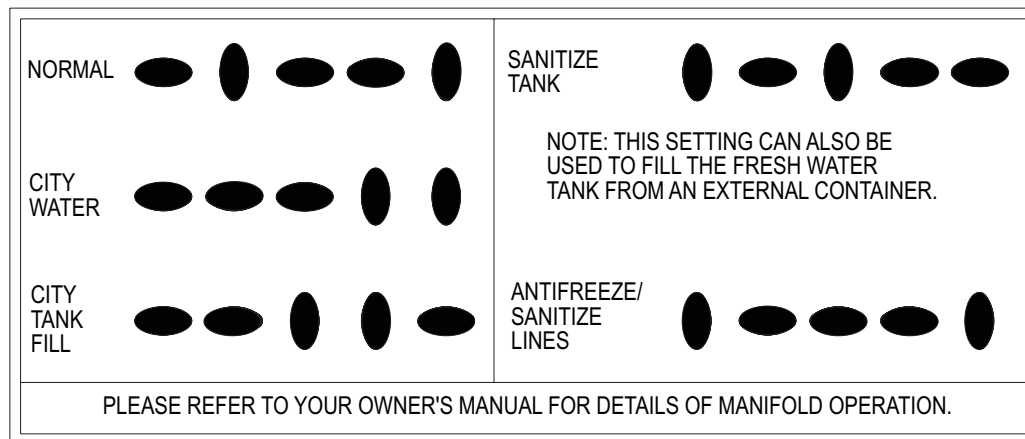
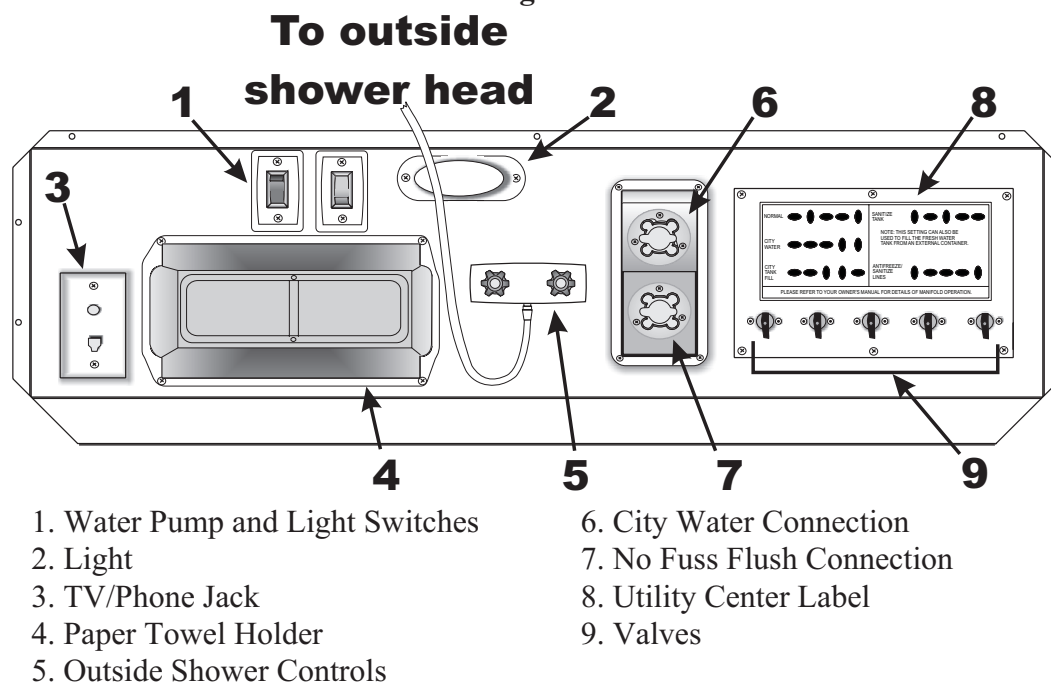


Fig. 12

Utility Center Operation

The utility center components consist of:

Fig. 13



Located inside the unit utility center is the city water connection. Connect a hose from the campground water source to the city water connection. We recommend that you keep a hose available that is dedicated only to supplying the water system with fresh water. Depending on what your intentions are, follow these instructions:

To utilize the campground water direct to your system:

1. Place the utility center valves as indicated for city water operation.
2. Turn on the water.
3. Water will be supplied to all faucets.

To fill the on board fresh water tank:

1. Place the utility center valves as indicated for city tank fill operation.
2. Turn on the water.
3. Water will go to the fresh water tank.

Caution: Be careful not to overfill the tank. It can pressurize the tank, causing leakage and water damage and void the warranty. **DO NOT** leave the tank unattended while filling.

To utilize water from the fresh water tank:

1. Place the utility center valves as indicated for NORMAL operation.
2. Turn on the water.
3. Turn on the demand pump.
4. Water will be pumped from the fresh water tank to all faucets.

Refer to the “Utility & Systems” chapter for complete instructions on sanitizing, and the “Storage” chapter for complete instructions on winterizing, the plumbing system.

NON-BASEMENT WATER SYSTEM

If your motorhome is not equipped with a basement water system, refer to the diagram on the following pages that is specific to your unit. The diagram provides basic valve location and a table of information to show how to position the valves for system operation. If you have further questions, consult with your independent, authorized dealer.

To utilize the campground water direct to your system

1. Connect a hose from the campground water source to the city water connection.
2. Place the valves in the proper position as designated by the diagram of your unit's water lines.
3. If hot water is desired, make sure the valves are set so water will flow through the water heater.
4. Turn on the water.
5. Water will be supplied to all faucets.

To fill the on board fresh water tank

1. Connect a hose from an outside water source to the city water connection.
2. Place the valves in the proper position as designated by the diagram of your unit's water lines.
3. Turn on the water.
4. Water will flow to the fresh water tank.

Caution: Be careful not to overfill the tank. It can pressurize the tank, causing leakage and water damage and void the warranty. DO NOT leave the tank unattended while filling.

To fill the on board fresh water tank when dry camping

1. Set the valves in the proper position as designated by the diagram from your unit's water lines.
2. Place the clear hose in the water container holding the water to be pumped into your tank.
3. Turn on the demand pump to pump water into the tank.
4. Monitor the filling process and make sure the tank is not overfilled. Turn off the pump when the tank is filled.

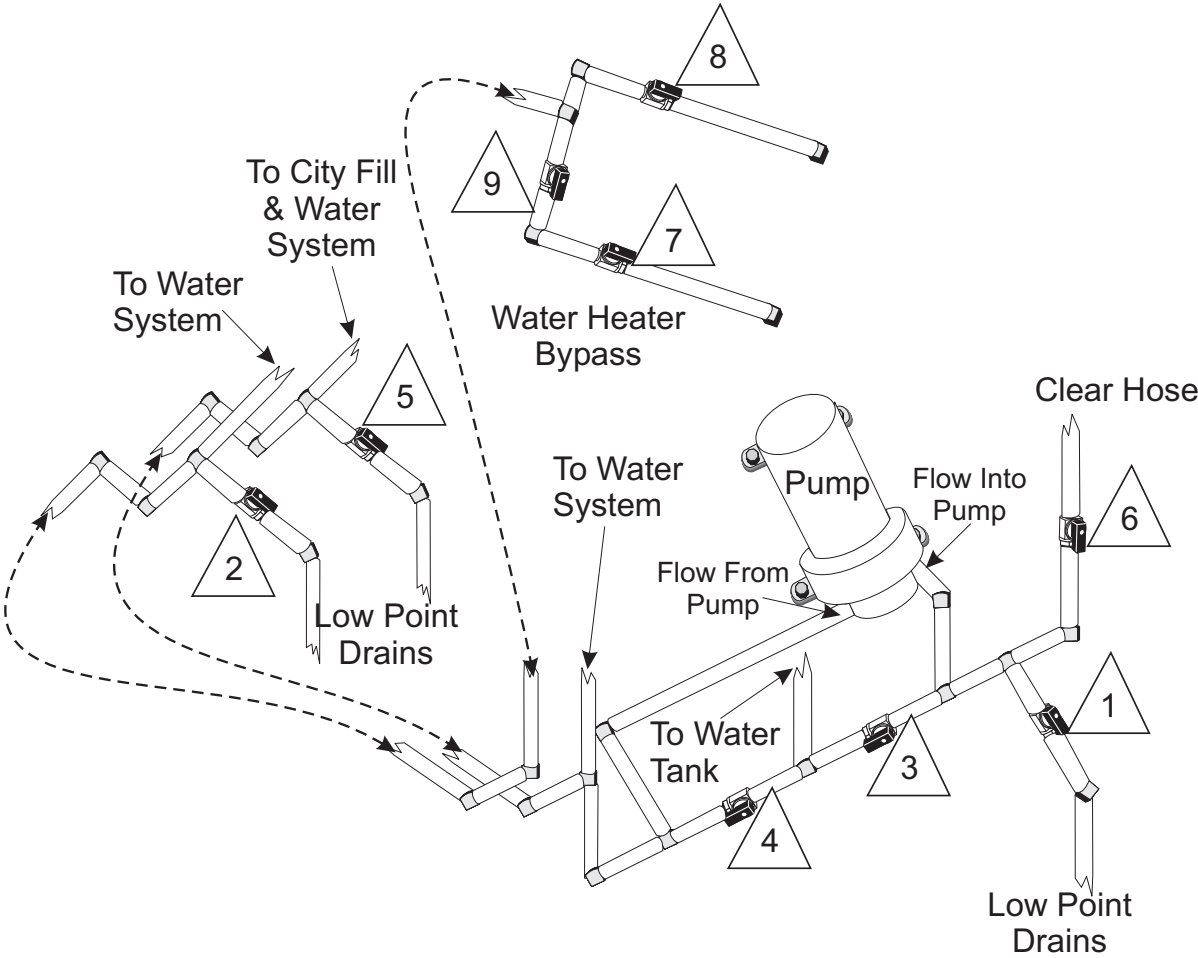
Caution: Be careful not to overfill the tank. It can pressurize the tank, causing leakage and water damage and void the warranty. DO NOT leave the tank unattended while filling.

To utilize water from the fresh water tank

1. Place the valves as designated for the pump operation setting.
2. If hot water is desired, make sure the valves are set so water will flow through the water heater.
3. Turn on the demand pump from the switch located inside the unit.
4. Water will be pumped from the fresh water tank to all faucets.

Greyhawk Model 29GS (ME)

N NOTE: The image shows all valves in the open position.

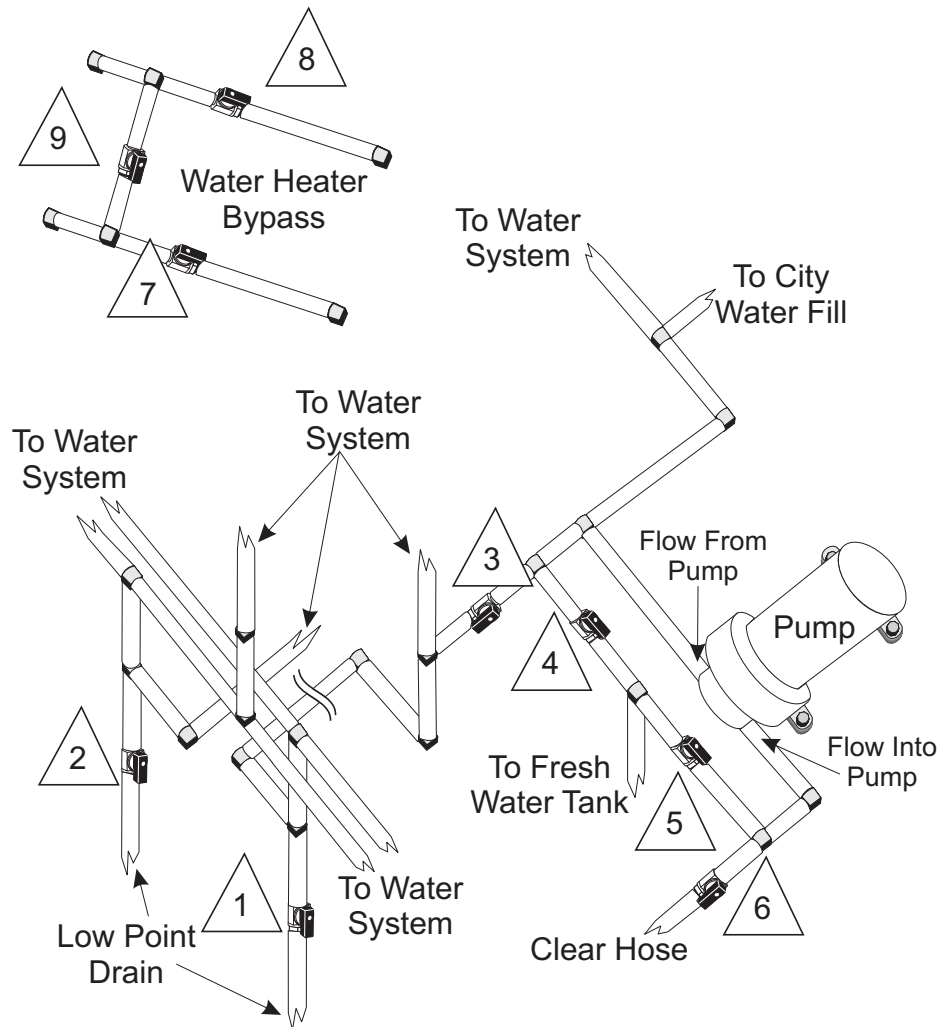


VALVES		
FUNCTION	CLOSE	OPEN
To Use City Water Without the Pump	1, 2, 4, 5, 6	3
To Fill the Potable Water Tank	1, 2, 3, 5, 6	4
When Dry Camping To Fill the Potable Water Tank	1, 2, 3, 5	4, 6
To Pump Water from the Tank	1, 2, 4, 5, 6	3
To Run Water Through Water Heater	9	7, 8

APPROXIMATE VALVE LOCATIONS	
VALVE NUMBER	APPROXIMATE LOCATION
1, 3, 4, 6	Close to the Water Tank
2, 5	Under Lavatory
7, 8, 9	Back of Water Heater, Under Kitchen Sink

Greyhawk Model 31SS (MJ)

(N) NOTE: The image shows all valves in the open position.

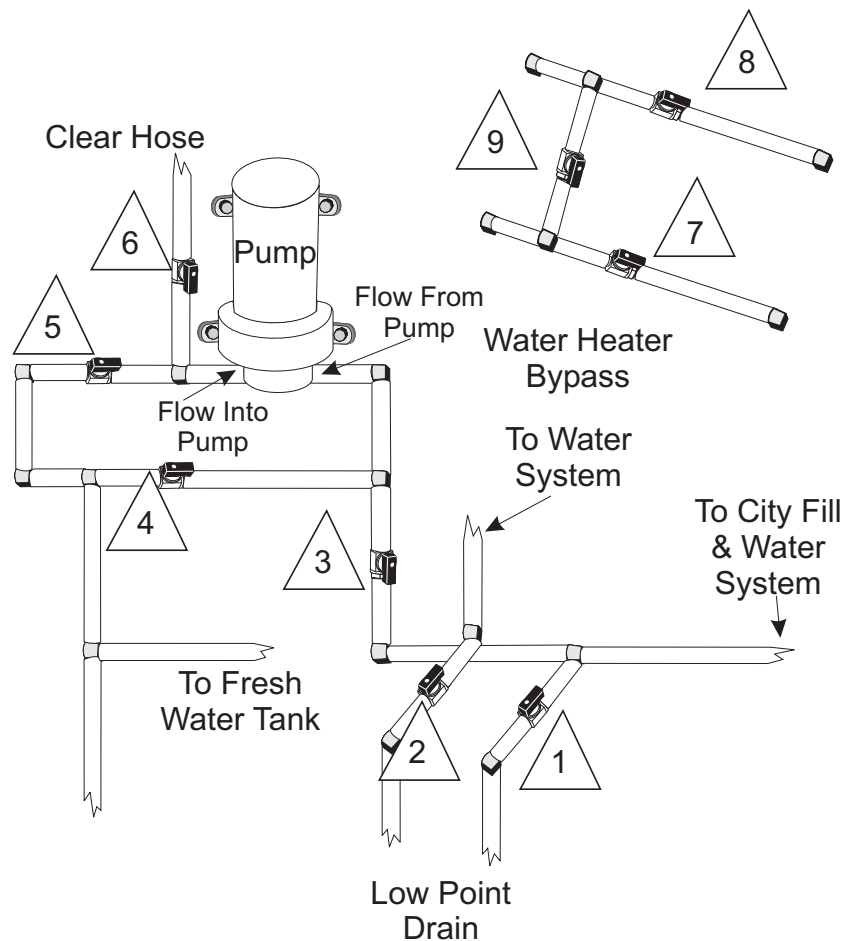


VALVES		
FUNCTION	CLOSE	OPEN
To Use City Water Without the Pump	1, 2, 4, 6	3, 5
To Fill the Potable Water Tank	1, 2, 5, 6	3, 4
When Dry Camping To Fill the Potable Water Tank	1, 2, 5	3, 4, 6
To Pump Water from the Tank	1, 2, 4, 6	3, 5
To Run Water Through Water Heater	9	7, 8

APPROXIMATE VALVE LOCATIONS	
VALVE NUMBER	APPROXIMATE LOCATION
3, 4, 5, 6	Close to the Water Tank
1, 2	Between Shower and Kitchen
7, 8, 9	Back of Water Heater, Under Kitchen Sink

Grehawk 24SS (MY)

(N) NOTE: The image shows all valves in the open position.

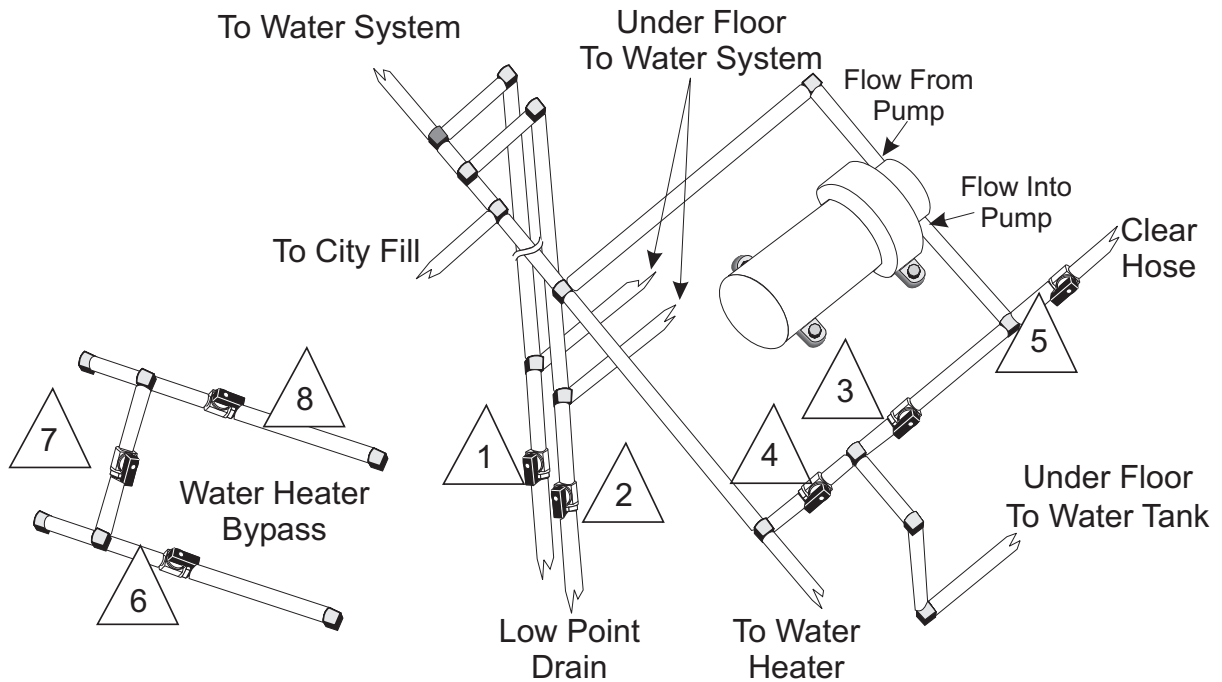


VALVES		
FUNCTION	CLOSE	OPEN
To Use City Water Without the Pump	1, 2, 4, 6	3, 5
To Fill the Potable Water Tank	1, 2, 5, 6	3, 4
When Dry Camping To Fill the Potable Water Tank	1, 2, 5	3, 4, 6
To Pump Water from the Tank	1, 2, 4, 6	3, 5
To Run Water Through Water Heater	9	7, 8

APPROXIMATE VALVE LOCATIONS	
VALVE NUMBER	APPROXIMATE LOCATION
3, 4, 5, 6	Close to the Water Tank
1, 2	Under Lavatory
7, 8, 9	Back of Water Heater, Under Kitchen Sink

Escapade Model 31A (UA)

(N) NOTE: The image shows all valves in the open position.

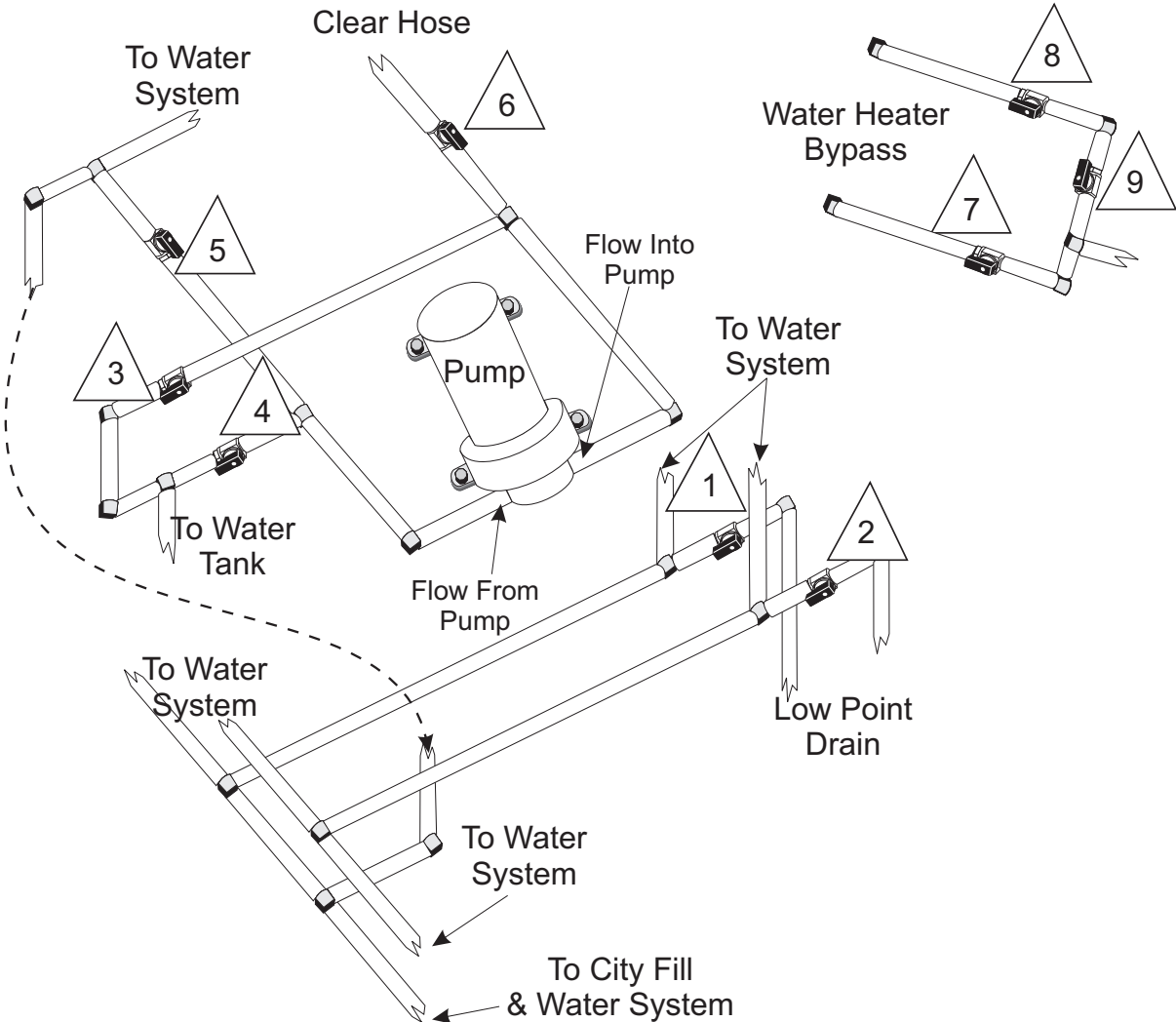


VALVES		
FUNCTION	CLOSE	OPEN
To Use City Water Without the Pump	1, 2, 4, 5	3
To Fill the Potable Water Tank	1, 2, 3, 5	4
When Dry Camping To Fill the Potable Water Tank	1, 2, 3	4, 6
To Pump Water from the Tank	1, 2, 4, 5	3
To Run Water Through Water Heater	7	6, 8

APPROXIMATE VALVE LOCATIONS	
VALVE NUMBER	APPROXIMATE LOCATION
3, 4, 5	Close to the Water Tank
1, 2	Close to Kitchen
6, 7, 8	Back of Water Heater

Escapade Model 28G (UG)

(N) NOTE: The image shows all valves in the open position.

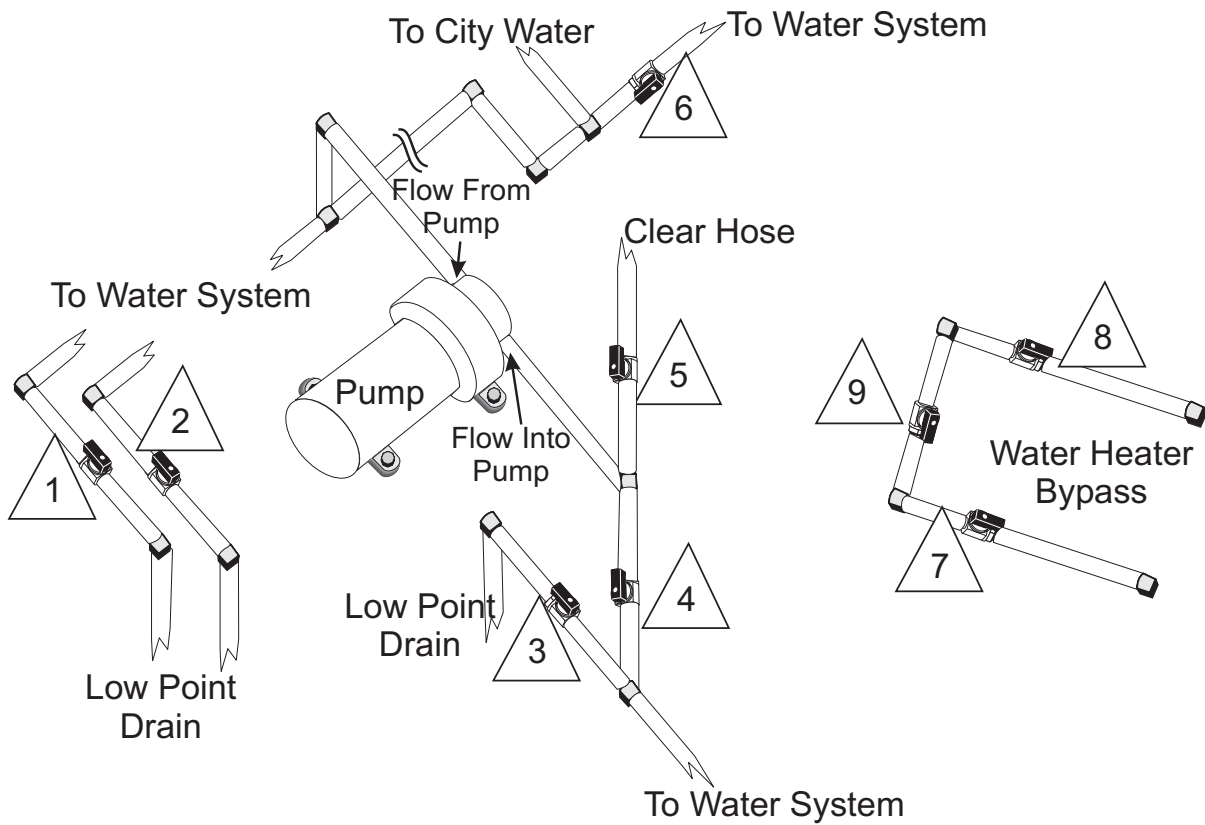


VALVES		
FUNCTION	CLOSE	OPEN
To Use City Water Without the Pump	1, 2, 4, 5, 6	3
To Fill the Potable Water Tank	1, 2, 3, 6	4, 5
When Dry Camping To Fill the Potable Water Tank	1, 2, 3	4, 5, 6
To Pump Water from the Tank	1, 2, 4, 6	3, 5
To Run Water Through Water Heater	9	7, 8

APPROXIMATE VALVE LOCATIONS	
VALVE NUMBER	APPROXIMATE LOCATION
3, 4, 5, 6	Under Lavatory, Close to the Water Tank
1, 2	Under Shower Area
7, 8, 9	back of water heater, under kitchen sink

Escapade Model 24M (UM)

(N) NOTE: The image shows all valves in the open position.

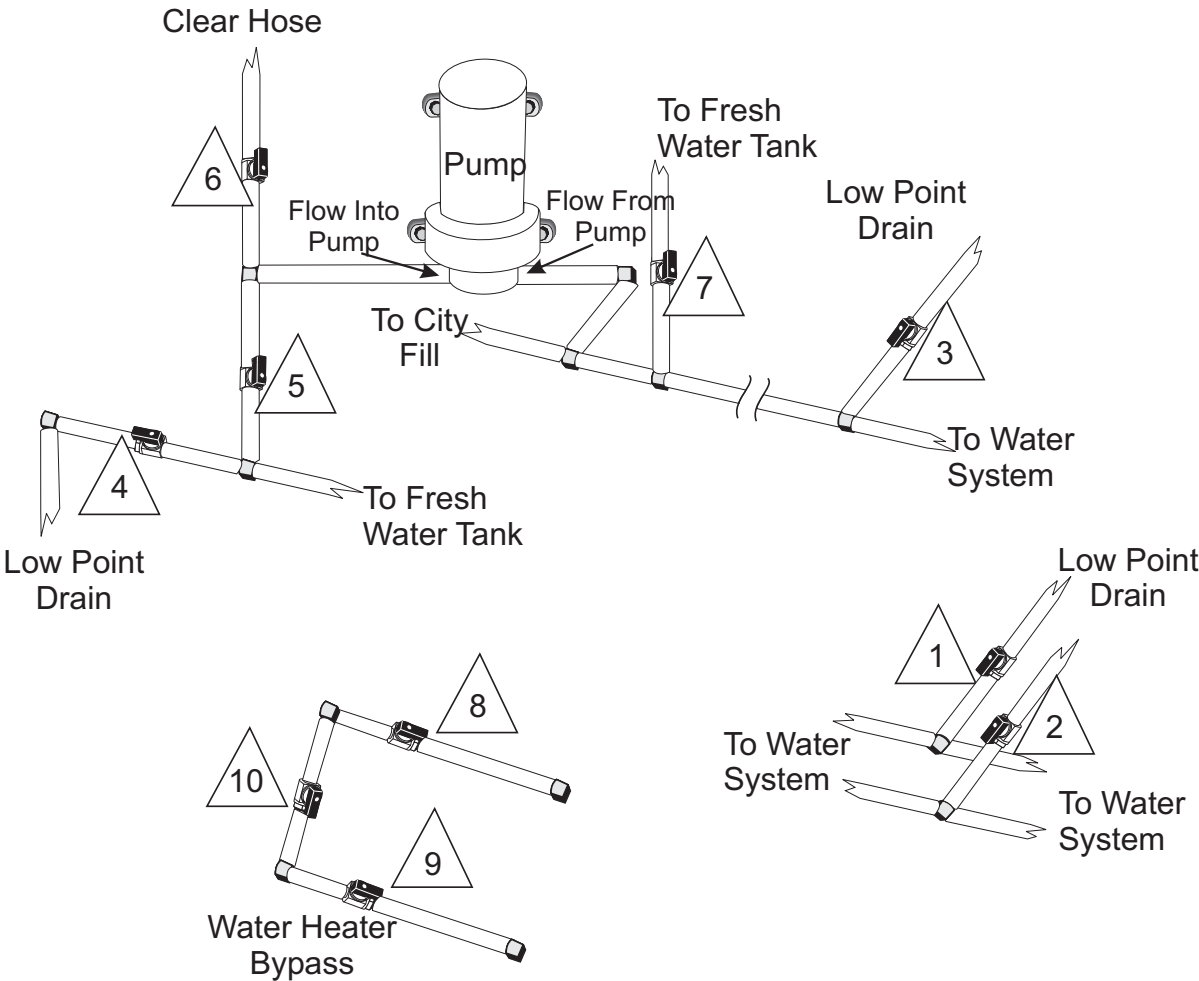


VALVES		
FUNCTION	CLOSE	OPEN
To Use City Water Without the Pump	1, 2, 3, 5, 6	4
To Fill the Potable Water Tank	1, 2, 3, 5	4, 6
When Dry Camping To Fill the Potable Water Tank	1, 2, 3, 4	5, 6
To Pump Water from the Tank	1, 2, 3, 5, 6	4
To Run Water Through Water Heater	9	7, 8

APPROXIMATE VALVE LOCATIONS	
VALVE NUMBER	APPROXIMATE LOCATION
3, 4, 5, 6	Under Dinette, Close to the Water Tank
1, 2	Under Lavatory
7, 8, 9	Back of Water Heater, Under Kitchen Sink

Escapade Model 23U (UU)

(N) NOTE: The image shows all valves in the open position.



VALVES		
FUNCTION	CLOSE	OPEN
To Use City Water Without the Pump	1, 2, 3, 4, 6, 7	5
To Fill the Potable Water Tank	1, 2, 3, 4, 6	5, 7
When Dry Camping To Fill the Potable Water Tank	1, 2, 3, 4, 5	6, 7
To Pump Water from the Tank	1, 2, 3, 4, 6, 7	5
To Run Water Through Water Heater	10	8, 9

APPROXIMATE VALVE LOCATIONS	
VALVE NUMBER	APPROXIMATE LOCATION
3, 4, 5, 6, 7	Close to the Water Tank
1, 2	Close to Stool
8, 9, 10	Back of Water Heater, Under Kitchen Sink

12 VOLT DC DEMAND PUMP

To utilize water from your water tank, you need to have 12 volt DC power to operate the demand pump. Energy for the pump is supplied by the auxiliary battery or converter. Depending on your motorhome model, the demand pump will be located under the bed, in a cupboard, under the unit or under the sink. The switch to operate the pump is located on the monitor panel or a wall near the pump.

Refer to instructions supplied by the pump manufacturer with your . If you have questions, consult with your independent, authorized dealer and/or visit the manufacturer's website at www.shurflo.com.

(N) NOTE: The water pump switch should be in the off position when the camper is left unattended for any amount of time. If something would happen to the water system, this will help limit water damage to a smaller area.

WATER PRESSURE REGULATOR

Excessive pressure from water supply systems may be encountered in some parks, especially in mountain regions. Water pressure regulators are available to protect your system against such high pressure. A regulator of this type is recommended to prevent damage to the plumbing system or components.

Caution: *Not using a water pressure regulator when using city water may cause the o-rings to blow. It is advisable to always use a water pressure regulator when using the city water connection.*

LP Gas Connections and Start Up



WARNING: LP gas can be extremely dangerous. Make sure that you read, understand and follow all information supplied in this manual and all component part manufacturers before operating your LP gas system.

After the camper is completely set up and you are prepared for camping enjoyment, follow these steps for LP gas operation.

1. Close all the burner valves, controls and pilot light valves.
2. Open the main valve on the LP gas tank slowly to avoid a fast rush through the excess flow valve causing a "gas freeze." If you experience a gas "freeze-up," close the main valve and wait fifteen (15) minutes before trying again.
3. Listen carefully as the gas begins to flow. If "hissing" is heard for more than one or two seconds, this may indicate a leak. Immediately close the valve and search for the leak.
4. Light the appliances as needed and directed in the appliance manufacturer's instructions.

Make sure that you read, understand and follow ALL safety requirements for handling and operation of the LP gas system. Literature is supplied with your unit from the manufacturer of the various appliances hooked to your LP gas system. The LP gas system provides added benefits to your camping enjoyment, however, it must be handled with care. If you have

any questions or concerns, consult with your independent, authorized dealer and/or the specific appliance manufacturer.

Waste Disposal

Proper care of the sanitation system is critical to efficient operation. Make sure that you have reviewed and understand the operation of your system.

Some campgrounds provide sewer hook up right at the individual campsite. This convenience can save a great deal of energy if utilized properly. If hook up is not provided at your site, the motorhome will need to be moved to an approved dump station.

The termination valves for your holding tanks are located on the exterior of the motorhome or in the utility panel depending on your floor plan. Refer to the “Preparing to Travel Home...” chapter for typical valve set up and location.

When hooked up to the sewer drain line at a campsite, keep the termination valve on the waste tank **CLOSED** until the tank is at least 3/4 full. This will provide sufficient water to assist in complete draining of the tank. At this time, open the termination valve to empty the tank (see directions for draining above) and close the valve when the tank is empty. Repeat this process as needed, but **NEVER** leave the termination valve open when hooked up to the park’s sewer system.

To Connect the Motorhome for Waste Disposal:

1. Make sure the unit is as level as possible to aid with drainage.
2. Attach the adapter to the flexible sewer hose and secure it with a clamp.
3. Remove the dust cap and attach the adapter onto the drain pipe.
4. Turn the adapter 10° to lock it onto the pegs on the drain pipe.
5. Place the other end of the hose into an approved sewer system.
6. Open the black tank termination valve to empty the black tank.
7. Open the gray tank termination valve to empty the gray tank, utilizing the water to rinse the flexible hose.

No-Fuss Flush System

Your motorhome may be equipped with a no-fuss flush tank spray system. This feature provides hook up for cleaning the interior of the black holding tank. Refer to the no-fuss flush manufacturer’s instructions supplied with your motorhome for complete operating instructions.

AT CAMP...

APPLIANCES

All appliances in your motorhome are name brand quality built equipment, guided by current codes and standards. For gas operation, the appliances in your motorhome will operate on LP gas only, not on natural gas. All safety precautions for LP gas, found in this manual and additional information supplied by the appliance manufacturer with your unit, must be followed during operation of the appliances. Please familiarize yourself with this information before proceeding.

Kitchen

The kitchen of your RV is equipped with many of the conveniences of home. However, special consideration needs to be taken when utilizing this equipment because there is limited space and available electricity in your RV. Make sure you understand what is available to you while operating these appliances. Follow all safety precautions supplied by the appliance manufacturers with your RV.

RANGE

Your range is designed to operate with LP gas. Make sure you read, understand and follow all information supplied by the range manufacturer and in this manual about the use of LP gas. This oven will operate similar to a gas range in your home. If you have questions or concerns, consult with your independent, authorized dealer and/or visit the manufacturer's at www.atwoodmobile.com.

MICROWAVE

Your microwave has been installed above the range and operates similar to your microwave at home. Make sure you read, understand and follow all information supplied with your unit from the microwave manufacturer. Contact your independent, authorized dealer if you have more questions, or consult with a Samsung appliance dealer.

REFRIGERATOR

Your RV refrigerator will provide the same functions as a home refrigerator, but will operate differently. Make sure that you read, understand and follow all the information supplied by the manufacturer, Norcold. Consult with your independent, authorized dealer for further information and/or visit their website at www.norcold.com/norcold_home.cfm.

Furnace

Your motorhome is equipped with an LP gas furnace. Make sure you understand the properties of LP gas and follow all safety instructions to operate this appliance. The manufacturer, Atwood, has supplied an operation manual to guide you with understanding how to operate your furnace. Refer to the furnace manufacturer's manual for instructions. If you have further questions, consult with your independent, authorized dealer and/or visit the manufacturer's website at www.atwoodmobile.com.

Water Heater

Your water heater is manufactured by Atwood Mobile Products. Complete safety, operating and maintenance instructions are supplied by Atwood with your motorhome. Make sure you read, understand and follow all instructions before operating the water heater. If you have further questions, consult with your independent, authorized dealer and/or visit the manufacturer's website at www.atwoodmobile.com.

BATHROOM

Your bathroom facilities function similar to those in a home. Ensure the water heater is operating before bathing. Adjust the faucets for desired temperature before entering the tub or shower.

Used water will drain into the gray water holding tank. Remember there are limited capacities in the water heater and gray water holding tank. Long showers in a recreation vehicle are NOT suggested due to the amount of water that is available. Refer to waste disposal and plumbing sections of this manual for further information on operation and emptying the holding tanks.

Tub or shower faucet requires a vacuum breaker when a shower hose and head is used. There are two purposes for this breaker:

- To prevent siphoning water through the hose from another fixture.
- To prevent water from being contained in the hose.

The shower head also DOES NOT have a complete shut-off valve. Any drainage from either part is normal function and NOT a leak. The complete shut-off is at the faucet.

Toilet

The operation of the toilet in your motorhome is important and needs to be understood to keep it operating correctly. The capacities, function and emptying of your holding tanks are also an important part of proper operation covered in this manual. Make sure that you read, understand and follow all information about the function of your sanitation system.

The care and maintenance of your toilet are important. Make sure that you read the toilet manufacturer supplied information on its operation and care. If you have further questions, consult with your independent, authorized dealer and/or visit the manufacturer's at www.thetford.com.

Faucets

Faucets in your motorhome operate the same as in a home. There may be air in the lines when tanks are filled or when you first hook up to exterior water sources. Make sure you allow the air to escape before turning the faucet off. Close faucets when sufficient water is released. Refer to instructions supplied with your motorhome for operating instructions.

Water Purification System

A water purification is installed on your motorhome. This system is equipped with a long-life cartridge to effectively reduce chlorine, taste, odor, sediment, organic chemicals and inhibit bacteria growth. Whenever the water system has not been used for some time, allow water to flow for several minutes to flush the system. When the system is not in use, store the water filter cartridge in the mounting bracket located near the water system, and when necessary, out of freezing temperatures.

RV antifreeze will damage the water filter cartridge. A clear plastic bypass hose with fittings on either end is supplied with the motorhome to replace the water filter when the motorhome is winterized. The hose should be stored when the filter is in use and kept available to reuse.

The filter should be replaced the sooner of: reduced water flow causing an inconvenience, or one time each year.

TO REPLACE THE FILTER:

1. Drain the water system.
2. Remove the cartridge by disconnecting the fitting at either end of the filter and pull it out of the fittings. It may be helpful to have a container available under the filter to catch any water left in the lines or filter.
3. If winterizing the unit, install the bypass hose and store the filter as is appropriate.
4. If replacing the filter, install the new filter and tighten the fittings at either end.



CAUTION: Never allow the filter to freeze or come in contact with RV antifreeze when the motorhome water system is winterized. Refer to complete instructions supplied by the water purification system manufacturer.

AIR CONDITIONER

An air conditioner has been installed in your motorhome for added comfort as you travel. For specific air conditioner instructions, consult your independent, authorized dealer and the air conditioner manufacturer's manual supplied with your unit. You may also find information at the manufacturer's website, www.rvcomfort.com/rv_products.htm.

Some models have Central Air Conditioning available. All cooled air is moved through a duct built into the roof and enters the motorhome through a group of round registers.

Keep all registers open to insure full airflow. Closing the register(s) may cause the compressor to freeze, which could shut down the cooling process.

Caution: When camping at campgrounds providing less than 30 amp service, discontinue air conditioning use when using the microwave.

GENERATOR

The function of a generator is to supply 120-volt AC power on a limited basis when extended power is not available.

The power to start the generator comes from the auxiliary battery. A start/stop switch is located on a mounting plate with the generator. A remote generator start switch is located near the monitor panel inside the motorhome.

- If the auxiliary battery has been drained of power, start the chassis engine to supply 12-volt DC power to the auxiliary battery and then start the generator.
- If both the auxiliary battery and the chassis battery are low on power, it is best to obtain assistance from another motorist and use jumper cables.
- If you are in a situation with no assistance available and both the auxiliary and chassis battery have a small amount of voltage, it is possible to start the generator if two people are present. One person will need to hold the auxiliary start button on the dash and the other person will need to press the start button on the generator.

The generator will draw fuel from the chassis fuel tank. When the tank drops to $\frac{1}{4}$ tank, the generator will shut off to preserve fuel for operating the motorhome.

The generator is manufactured by Onan. They have supplied an owner's manual with your motorhome for safety information, operation and maintenance of the generator. Make sure you read and follow all information supplied to you. If you have questions, consult your independent, authorized dealer and/or contact the manufacturer via their website at www.onan.com. In addition, please note that the generator runs on gas and gives off carbon monoxide. Please read, understand and follow the various safety precautions set forth in this manual, and provided by Onan regarding these items.

ENTERTAINMENT

Your motorhome may be equipped with a variety of component parts for your entertainment. Each individual system is supplied with an operation and maintenance manual which is with your unit's information packet. Make sure that you are familiar with each system and how it operates. Any questions should be directed to the component part manufacturer and/or your independent, authorized dealer. A Manufacturer's Customer Support Directory appears toward the end of this manual. It provides some websites and phone numbers for component part manufacturers.

MONITOR PANEL

The monitor panel will provide useful information on the capacities of the water tanks and the battery condition. Your motorhome has a wall mounted panel. Follow instructions below regarding operation. If you have further questions on the operation, refer to information supplied with your motorhome by the monitor panel manufacturer, consult with your independent, authorized dealer and/or the monitor panel manufacturer.

The panel operates on 12-volt DC power supplied by the converter or battery. Sensors are installed into the tanks and a resistor assembly relaying a message through wires to the display board on the panel. No power is drawn from the battery unless a switch is pushed or turned on.

OPERATION

Spring loaded push button switches are located on the monitor panel. Press only one button at a time, as one set of lights serve all functions. As you push any button, one or more lights will come on, indicating the tank contents level.

When pushing the battery button, the highest light coming on indicates battery condition.

C=charging at 12.7 volts; G=good at 11.9 volts; F=fair at 11.2 volts; and L=low at 6.0 volts.

When the water pump switch is in the “ON” position, the pump runs until 45 pounds of pressure has been achieved. The red light will stay on. Turn the switch off when the pump is not in use.

The heater switch is for the direct spark ignition (D.S.I.) water heater operation.

Fuses for the monitor panel operation are in the 12-volt distribution center fuse block.

BBQ GRILL PREP

Your unit is equipped with an LP gas “quick coupler” connection and support bracket for easy installation of the optional BBQ grill. The “quick coupler” is directly connected to the LP gas system of your trailer. Make sure that you read, understand and follow all information about LP gas supplied with your unit by various component manufacturers and this manual.



WARNING: Make sure that you read, understand and follow all information supplied with your RV about LP gas before operating the BBQ grill. The fuel hose must be correctly connected before lighting the grill. Failure to follow instructions supplied by the grill manufacturer with your RV or to use any other components than those originally supplied with the grill could lead to death or serious injury from fire or explosion.

The “quick coupler” connection can be attached to the BBQ grill as follows:

1. Place the “quick coupler” handle in the OFF position and push back the sleeve. The valve handle must be OFF to make the connection. (Fig. 14)
2. Insert the plug at the end of the BBQ grill LP gas hose and release the sleeve.
3. Push the plug until the sleeve snaps forward, locking the plug into the socket. (Fig. 15)
4. Turn the handle ON to allow LP gas to flow to the BBQ grill. (Fig. 16)

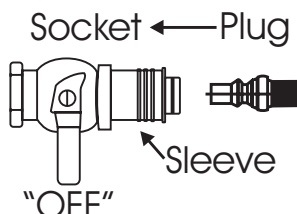


Fig. 14

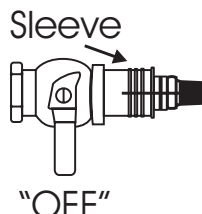


Fig. 15

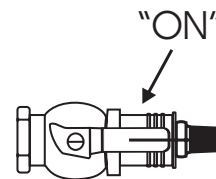


Fig. 16

BBQ Grill (Option)



WARNING: The maximum weight limit for the bracket on the side of your trailer is 50 lbs. This limit includes the weight placed on the BBQ grill. Exceeding this weight limit could cause damage to the unit and possibly cause personal injury from hot equipment.

An option for your trailer is a BBQ grill. This grill is for use outside of the trailer. **Never use this grill inside a compartment or the trailer.** The bracket and “quick coupler” LP gas connection are installed on your trailer as standard equipment. The following list will supply basic operations for the grill. Make sure to read, understand and follow all instructions included with the BBQ grill.

1. Install the grill bracket on the support bracket installed on the side of your trailer. Make sure that it is securely placed on the support bracket.
2. Place the BBQ grill into the grill bracket. (Fig. 17)
3. Attach the fuel hose from the grill to the “quick coupler” LP gas connection as directed above.
4. Open the lid to the BBQ grill.
5. Using an electric match, light the grill using the following procedures:
 - Light the electric match.
 - Insert it into the middle slot on the bottom of the BBQ grill.
 - On the BBQ grill control knob, depress and turn the knob to the desired temperature.
 - The grill should light at this point.
6. If the grill does not light, turn the gas off, wait five (5) minutes and repeat the above steps.
7. Use the temperature control knob to adjust the grill to the desired temperature. (Fig. 18)



Fig. 17

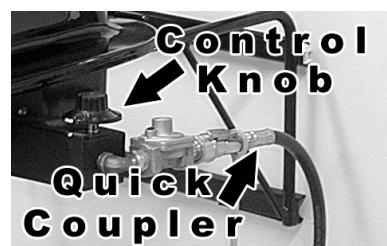


Fig. 18

The BBQ grill grate is coated with standard grill enamel and can be cleaned as you would a grill at home. Underneath the grate, there is a heat diffuser. This is formed and ventilated to distribute the heat from the burner. Do not use lava rocks in this grill.

To disconnect the BBQ grill, turn the temperature control to OFF. Reverse the above fuel hose hookup procedures. Wait until the grill is completely cooled, then store it in the supplied carrying case. This carrying case will ONLY accommodate a cool grill. The grill carrying case has a pocket for accessories such as the fuel hose in the lid. The bracket will not fit inside the carrying case and will need to be stored in a separate location.



CAUTION: The BBQ grill must be **COMPLETELY** cooled before storing to avoid damaging the carrying case and causing injury from handling the grill when it is hot.

UTILITIES & SYSTEMS

NOTE: Make sure you have read and understand all safety information found in this manual and manufacturer supplied information.

PLUMBING SYSTEM

For set up instructions of your plumbing system, refer to the “Setting Up Camp...” chapter. If you have further questions on setting up the system, consult with your independent, authorized dealer.

Potable water systems require periodic maintenance to deliver a consistent flow of fresh water. Depending on use and the environment the system is subject to, sanitizing is recommended prior to storing and before using the water system after a period of storage. Systems with new components, or ones that have been subjected to contamination, should also be disinfected.



WARNING: Failure to sanitize the potable water system could result in death or serious illness.

Follow the instructions supplied for your unique water system to determine the proper procedure for sanitizing your unit. If you have further questions, consult with your independent, authorized dealer.

Utility Center (Manifold) Sanitizing

The follow instructions are applicable to all units equipped with a “basement” or utility center water system. Read, understand and follow all instructions as supplied here to sanitize your system.

1. Drain the water tank, water lines and water heater completely by opening all faucets and low point drains until the tank and heater are empty.
2. In a large bucket prepare a chlorine solution, using 3/4 cup of household bleach and three (3) gallons (12 liters) of water.
3. Attach the intake hose to the city fill connection located inside or under the utility center panel. (Fig. 13) Place the free end of the intake hose in the bucket of chlorine solution.
4. Position the valves on the utility panel to the “Sanitize Tank” configuration. (Fig. 12) The low point drains located directly below the utility center must be closed for the chlorine solution to siphon through the lines.
5. Turn the demand pump switch (Fig. 13) to the “ON” position and pump all of the chlorine solution into the tank.
6. After pumping all the chlorine solution into the tank, position the valves to the “City Fill” configuration. (Fig. 12)
7. Attach a garden hose to the city fill connection (Fig. 13) and finish filling the tank.
8. Open the kitchen and bathroom faucets to allow air to escape the water lines and the water heater.
9. Turn the demand pump switch to the “ON” position and allow several seconds for the pump to prime. (Fig. 13)

10. After the water heater and water lines fill, the air will stop bubbling out of the faucets. At this point, turn all faucets off.

(N) NOTE: The water heater will hold approximately six gallons of water. Allow the water to run long enough to ensure that the tank is full.

11. Allow the solution to stand in the tank for three hours.
12. Drain the water tank and water heater completely by turning on all faucets until the tank and water heater are empty.
13. With the garden hose connected to the city fill connection (Fig. 13), refill the tank with fresh water as in steps 6 and 7.
14. Open the kitchen and bathroom faucets to allow air to escape the water lines and the water heater.
15. Turn the demand pump switch (Fig. 13) to the “ON” position and allow several seconds for the pump to prime.
16. After the water heater and water lines fill, the air will stop bubbling out of the faucets. At this point, turn all faucets off.

(N) NOTE: The water heater will hold approximately six gallons of water. Allow the water to run long enough to ensure that the tank is full.

17. Allow the water to stand in the tank for at least three hours.
18. Drain the water tank and water heater completely by opening all faucets and low point drains until tank and heater are empty.
19. The water system is now sanitized for use. If the system has a strong chlorine odor or taste, refer to the following information to eliminate this.

To Remove Excess Chlorine Odor and Taste:

1. In a large bucket, prepare a solution of 1/2 cup baking soda to one gallon (4 liters) of water for every 15 gallons (60 liters) of tank capacity.
- Repeat steps 3-10 from above.
2. Allow the baking soda solution to sit in the tank for a few days, if possible. If you can have the soda in the tank while traveling, it will work better to clean and refresh the tank from the agitating motion.
- Repeat steps 12-18 from above.

Non Basement Sanitizing

Your unique water system has a specific valve layout to complete the sanitizing process. Determine which table of information applies to your unit. Utilize the water line drawing found in the “Setting up Camp...” chapter to locate the valves. After properly setting up the valves to sanitize the system, follow the procedure listed to complete the process. Read, understand and follow all instructions supplied to sanitize the water system. If you have further questions, consult with your independent, authorized dealer.

GREYHAWK MODEL 29GS (ME)

VALVES		
FUNCTION	CLOSE	OPEN
To Drain Water Lines	6	1, 2, 3, 4, 5
To Bypass the Water Heater	7, 8	9
To Run Water Through Water Heater	9	7, 8
To Add Antifreeze/Sanitize Lines	1, 2, 3, 4, 5	6
To Add Antifreeze/Sanitize Lines and Fresh Water Tank	1, 2, 3, 5	4, 6

GREHAWK MODEL 31SS (MJ)

VALVES		
FUNCTION	CLOSE	OPEN
To Drain Water Lines	6	1, 2, 3, 4, 5
To Bypass the Water Heater	7, 8	9
To Run Water Through Water Heater	9	7, 8
To Add Antifreeze/Sanitize Lines	1, 2, 4, 5	3, 6
To Add Antifreeze/Sanitize Lines and Fresh Water Tank	1, 2, 5	3, 4, 6

GREYHAWK MODEL 24SS (MY)

VALVES		
FUNCTION	CLOSE	OPEN
To Drain Water Lines	6	1, 2, 3, 4, 5
To Bypass the Water Heater	7, 8	9
To Run Water Through Water Heater	9	7, 8
To Add Antifreeze/Sanitize Lines	1, 2, 4, 5	3, 6
To Add Antifreeze/Sanitize Lines and Fresh Water Tank	1, 2, 5	3, 4, 6

ESCAPADE MODEL 31A (UA)

VALVES		
FUNCTION	CLOSE	OPEN
To Drain Water Lines	5	1, 2, 3, 4
To Bypass the Water Heater	6, 8	7
To Run Water Through Water Heater	7	6, 8
To Add Antifreeze/Sanitize Lines	1, 2, 3, 4	5
To Add Antifreeze/Sanitize Lines and Fresh Water Tank	1, 2, 3	4, 5

ESCAPADE MODEL 28G (UG)

VALVES		
FUNCTION	CLOSE	OPEN
To Drain Water Lines	6	1, 2, 3, 4, 5
To Bypass the Water Heater	7, 8	9
To Run Water Through Water Heater	9	7, 8
To Add Antifreeze/Sanitize Lines	1, 2, 3, 4	5, 6
To Add Antifreeze/Sanitize Lines and Fresh Water Tank	1, 2, 3	4, 5, 6

ESCAPADE MODEL 24M (UM)

VALVES		
FUNCTION	CLOSE	OPEN
To Drain Water Lines	5	1, 2, 3, 4, 6
To Bypass the Water Heater	7, 8	9
To Run Water Through Water Heater	9	7, 8
To Add Antifreeze/Sanitize Lines	1, 2, 3, 4, 6	5
To Add Antifreeze/Sanitize Lines and Fresh Water Tank	1, 2, 3, 4	5, 6

ESCAPADE MODEL 23U (UU)

VALVES		
FUNCTION	CLOSE	OPEN
To Drain Water Lines	6	1, 2, 3, 4, 5, 7
To Bypass the Water Heater	8, 9	10
To Run Water Through Water Heater	10	8, 9
To Add Antifreeze/Sanitize Lines	1, 2, 3, 4, 5, 7	6
To Add Antifreeze/Sanitize Lines and Fresh Water Tank	1, 2, 3, 4, 5	6, 7

Step by Step Instructions

The following steps will take you through the process of sanitizing your non basement water system. If you have further questions, consult with your independent, authorized dealer.

1. Drain the water tank, water lines and water heater completely by opening all faucets and low point drains until the tank and heater are empty.
2. In a large bucket prepare a chlorine solution, using 3/4 cup of household bleach and three (3) gallons (12 liters) of water.
3. Place the clear intake hose into the bucket of chlorine solution.
4. Determine if you want to sanitize only the water lines, or the water lines and the tank. Verify that the water system valves are set up correctly for the function you wish to perform and your specific unit based on the tables of information listed previously.

5. Turn the demand pump switch to the “ON” position and pump all of the chlorine solution into the system.
6. If you are sanitizing both the water lines and the tank, attach a garden hose to the city fill connection and finish filling the tank.
7. Open kitchen and bathroom faucets to allow air to escape the water lines and the water heater.
8. Turn the demand pump switch to the “ON” position and allow several seconds for the pump to prime.
9. After the water heater and water lines fill, the air will stop bubbling out of the faucets. At this point, turn all faucets off.

(N) NOTE: The water heater will hold approximately six gallons of water. Allow the water to run long enough to ensure that the tank is full.

10. Allow the solution stand in the water tank for three hours.
11. Drain the water tank and water heater completely by turning on all faucets, and positioning the valves as indicated for your unit, until the tank and water heater are empty.
12. With the garden hose connected to the city fill connection, fill the system with fresh water.
13. Open the kitchen and bathroom faucets to allow air to escape the water lines and the water heater.
14. Turn the demand pump switch to the “ON” position and allow several seconds for the pump to prime.
15. After the water heater and water lines fill, the air will stop bubbling out of the faucets. At this point, turn all faucets off.

(N) NOTE: The water heater will hold approximately six gallons of water. Allow the water to run long enough to ensure that the tank is full.

16. Allow the water to stand in the tank for at least three hours.
17. Drain the water tank and water heater completely by opening all faucets and low point drains, as indicated by your unit’s valve layout, until the tank and heater are empty.
18. The water system is now sanitized for use. If the system has a strong chlorine odor or taste, refer to the following information to eliminate this.

To Remove Excess Chlorine Odor and Taste:

1. In a large bucket, prepare a solution of 1/2 cup baking soda to one gallon (4 liters) of water for every 15 gallons (60 liters) of tank capacity.
- Repeat steps 3-10 from above.
2. Allow the baking soda solution to sit in the tank for a few days, if possible. If you can have the soda in the tank while traveling, it will work better to clean and refresh the tank from the agitating motion.
- Repeat steps 12-18 from above.

Draining the Water System

UNITS WITH UTILITY CENTER SYSTEM

To drain the fresh water tank, open the tank low point drain valves in the utility center.

UNITS WITH NON BASEMENT SYSTEM

To drain the fresh water tank, utilize the table of information supplied previously for the valve set up that is specific to your unit.

SANITATION SYSTEM

Your motorhome is equipped with a complete sanitation system. The components of this system are the toilet, waste water and sewage holding tanks and drains for both tanks. Familiarize yourself with all functions of the system. Read, understand and follow the information found here as well as information in the “Set Up Camp...” chapter. If you have questions, consult with your independent, authorized dealer for clarification.

Caution: For the protection of your sanitation system and the environment, always use biodegradable toilet paper that is specifically rated for recreation vehicles. If you have questions, consult with your independent, authorized dealer.

Using Toilet and Tank System

(N) NOTE: For added convenience and better sanitation system performance, it is advisable to always have four to six inches (10-15 cm) of water in the toilet.

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

The toilet system will perform better when water is run for ten to fifteen seconds after flushing to ensure that the waste will proceed to the bottom of the tank. Unlike a toilet in a home, which uses four to seven gallons (18-32 liters) of water per flush, the average recreation vehicle system uses one to three quarts (1-3 liters).

Vents

Another important part of the sanitation system are the vents which release air from the tanks. Each tank has a vent pipe built into the motorhome through the cabinet, wall and roof. A vent cap is attached to the roof and must be clear of obstructions to perform as intended. On some models, the vent pipe may be part of the drainage system referred to as a “wet vent.” This means water flows downward as air flows upward in the same pipe.

Holding Tanks

The final part of your system are the holding tanks. They hold waste and are located below the floor of your motorhome. The bath tub and sinks drain into the waste water tank, also referred to as the “gray” water holding tank. The toilet drains into the sewage holding tank,

also referred to as the “black” waste holding tank. Certain floor plans may also have the lavatory draining into the waste (black) tank.

WASTE (BLACK) TANK PREPARATION

3. Release one to two quarts (1 or 2 liters) of water into the toilet bowl.
4. Follow the directions on your toilet chemical bottle, by placing the recommended quantity of holding tank chemical into the bowl.
5. Flush the toilet and allow at least two gallons (8 liters) of water to flow into the tank.

Caution: It is important to add enough water to prevent solid waste build up. Follow these directions each time after emptying your holding tank, except when winterizing.

GRAY WATER HOLDING TANK

No special preparation is required, however, placing a small quantity of chemicals into this tank, such as baking soda or an approved RV chemical, will reduce odors from food particles in the system.

Heated Holding Tanks

With the heated tank option, a pad will be glued to the exterior bottom side of the holding tank. Heat is supplied by 12-volt DC power through the heating element built into the pad. Approximately 6-amps of energy per pad is consumed and fused through the 12-volt power supply board. Switches to turn heat pads on or off are located on an interior wall in or near the bathroom.

Power to heating pads should be turned off until:

1. Water is in the holding tank.
2. Temperature drops to 32° (0° C).
3. Motorhome is parked, set up and all attachments performed.

(N) NOTE: Turn heat pads off when dumping and draining tanks.

An internal thermostat is built into components of the heat pad to assist in energy conservation.

LP GAS SYSTEM



DANGER: LP gas can be extremely dangerous. Improper use of the LP gas system will present an immediate hazard situation where death or serious injury will result. It is possible that mechanical or property damage will also occur. Make sure you read, understand and follow all information supplied with your unit in this manual and all component part manufacturer’s literature.

It is because of the LP gas system that your RV has the convenience of a refrigerator, stove, water-heater, and furnace. The components of the LP gas system are:

- LP gas tank
- A two stage regulator
- Pipes, hoses and tubing to deliver the gas to appliances

When correctly used, the LP gas system is a safe and effective way to operate the appliances in your RV. This system is also potentially very dangerous and should be used with care. Carefully read, understand and follow all information supplied with your for the LP gas system and its components and consult with your dealer about the proper operation of the LP gas system.

A warning label has been placed in your RV to warn against asphyxiation (inability to breathe). The label has been located in the cooking area to remind you to provide an adequate amount of fresh air for combustion. Please read, understand and follow the information in this label.



WARNING: IT IS NOT SAFE TO USE THE COOKING APPLIANCE FOR COMFORT HEATING.

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

- a. Open overhead vent or turn on exhaust fan.**
- b. Open window.**

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

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

The following label has been placed in the motorhome near the range area. Please read, understand and follow the information in this label.



**DANGER
IF YOU SMELL GAS**

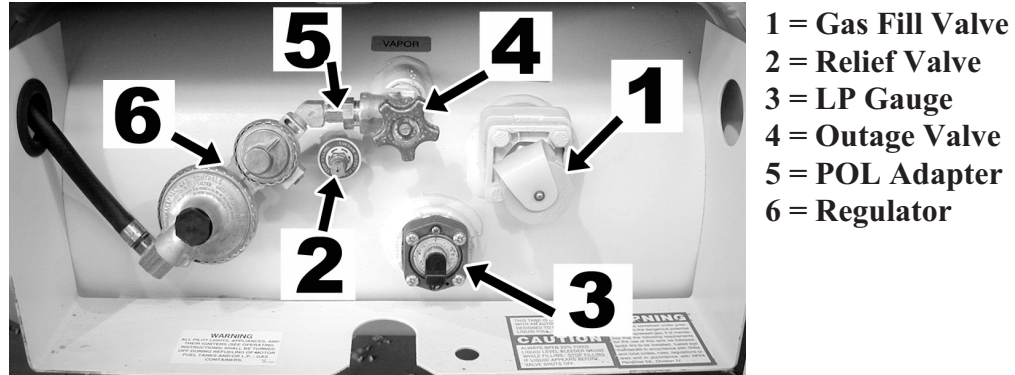
- 1. Extinguish any open flames, pilot lights, and all smoking materials.**
- 2. Do not touch electrical switches.**
- 3. Shut off the gas supply at the tank valve(s) or gas supply connection.**
- 4. Open doors and other ventilating openings.**
- 5. Leave area until odor clears.**
- 6. Have the gas system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

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

As noted above, the presence of any gas smell is dangerous. Make sure that everyone, including pets, are out of the RV. Do not return to the RV until the source of the LP gas odor has been determined and corrected by an LP gas professional.

The components of the permanently mounted LP gas tank are (Fig. 19):

Fig. 19



This unit's LP gas tank is an A.S.M.E. tank mounted under the floor of the motorhome. Because the tank is not removable, the motorhome will need to be driven to an LP gas fill station.



DANGER: All pilot lights, appliances and their ignitors (see operating instructions) shall be turned off before refueling of motor fuel tanks and/or LP gas tank. FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.

The following warning label is located near the LP gas tank on the motorhome. Make sure you read, understand and follow all information on this label. Failure to do so could result in death or serious injury.



WARNING:

THIS GAS PIPING SYSTEM IS DESIGNED FOR USE OF LIQUEFIED PETROLEUM GAS ONLY. DO NOT CONNECT NATURAL GAS TO THIS SYSTEM. DO NOT FILL CONTAINER(S) TO MORE THAN 80 PERCENT OF CAPACITY. FAILURE TO COMPLY COULD RESULT IN A FIRE OR PERSONAL INJURY. Securely cap inlet(s) when not connected for use. After turning on gas, except after normal container replacement, test gas piping and connections to appliances for leakage with soapy water or bubble solution. Do not use products that contain ammonia or chlorine. AS-34

SERVICING AND FILLING LP GAS TANK

Your LP gas tank should only be serviced and filled by a qualified person who knows the proper inspection and safety procedures. If an LP gas tank is new, make sure the service person is aware of it so they can be purged prior to being filled. LP gas tank must never be filled beyond 80% of capacity to allow for expansion with increases in temperature. The following warning label is located near the LP gas tank. Make sure that you read, understand and follow these warning labels.



WARNING: DO NOT FILL CONTAINER(S) TO MORE THAN 80 PERCENT OF CAPACITY.

- **Overfilling the LP gas container can result in uncontrolled gas flow, which can cause fire or explosion.**
- **A properly filled container will contain approximately 80 percent of its volume as liquid LP gas.**



WARNING: LP gas cylinders shall not be placed or stored inside the vehicle. LP gas cylinders are equipped with safety devices that relieve excessive pressure by discharging gas to the atmosphere. FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.



WARNING: Do not bring or store LP gas cylinders, gasoline, or other flammable liquids inside the vehicle because a fire or explosion can result.



WARNING: Portable fuel-burning equipment, including wood and charcoal grills and stoves, shall not be used inside the recreation vehicle. The use of this equipment inside the recreation vehicle may cause fires or asphyxiation.

When an LP gas tank gets low, sometimes there is a concentration of garlic-like odor, which may be mistaken for a gas leak. After refueling the tank, the odor usually will disappear. If not, turn off the LP gas tank and have the system checked by a qualified technician.



WARNING: DO NOT use tools or heavy equipment to open or close valves on the LP gas tank. HAND TIGHTEN only. The use of tools to tighten the tank valve creates the potential to overtighten the valve. This could cause damage to the interior seals on the tank valve seat. If damage occurs, you will not be able to close the tank properly, creating a false sense of security that the LP gas tank is shut off. Consult with your independent, authorized dealer or a qualified LP gas dealer if you have further questions.



DANGER: Never smoke during the filling of LP gas tanks. Failure to follow this safety rule could lead to death or serious injury from fire or explosion.

Fuel Distribution Components



CAUTION: Remember - POL adapters and fittings have left hand threads.

POL ADAPTER AND LOW PRESSURE

LP gas leaves the tank through a POL adapter with an excess flow valve built into the adapter, which is attached to the regulator. No sealant is required on a brass to brass connection. The excess flow valve provides a large volume of LP gas to escape from the bottle if there is a breakage between the LP gas tank and the regulator.

REGULATOR

The regulator is an integral part of the LP gas system. It is required to reduce the pressure of the LP gas before it is sent to the system to operate your appliances. It is critical to your safety that you read, understand and follow all literature supplied with your unit on the operation and maintenance of the regulator.

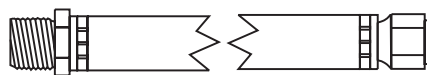


WARNING: LP gas regulators must always be installed with the diaphragm vent facing downward. Regulators that are not in a compartment have been equipped with a protective cover. Make sure that the regulator vent faces downward and that the cover is kept in place to minimize vent blockage, which could result in excessive gas pressure causing fire, explosion, death or serious injury.

MAIN SUPPLY HOSE – LOW PRESSURE

The main supply hose (Fig. 20) is attached from the regulator to the brass manifold fitting in the frame of the motorhome. The swivel brass nut on the main hose is the final attachment.

Fig. 20



3/8" MPT x 1/2" Female
Flare Swivel

LP GAS CONSUMPTION

Most gas appliances are operated intermittently. Unless there is heavy use of hot water, the water heater consumption is minimal. During freezing weather and high wind conditions, furnace consumption can be extremely high.

LP gas consumption depends upon the length of time appliances are operated. Each gallon (3.86 liters) of LP gas produces about 91,500 BTUs (46,514 kilojoules) of heat energy. Following is a list of typical RV appliance consumption when turned on fully for one hour of operation:

Appliance	Average BTU Consumption Per Hour	Kilojoules/Hour
Water Heater	8,800	9,280
Refrigerator	1,200 – 1500	1,270 – 1,580
Furnace	20,000 – 30,000	21,100 – 31,650
Range Oven	7,100	7,490
Range, Rear Burner	6,500	6,860
Range, Front Burner	9,000	9,490
Outside Grill	10,000	10,550

N NOTE: This chart is an example of a typical system and may not represent the exact system in your particular vehicle.

LP Detector

All recreation vehicles with an LP gas system require a LP gas leak detection device (Fig. 21) for safety protection. A converter or auxiliary battery is required to supply 12-volt DC energy to operate the leak detector. Carefully read, understand and follow the information supplied by the LP detector manufacturer which is supplied with your motorhome. Consult with your independent, authorized dealer and/or visit the manufacturer's website at www.safe-t-alert.com if you have any questions on the operation or maintenance of this detector.

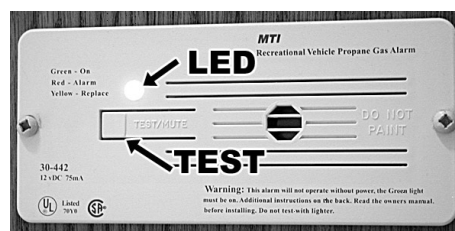


Fig. 21



WARNING: For your safety, make sure that the LP gas detector is properly maintained and functioning. The detector requires 12-volt DC energy through the converter or from an auxiliary battery to operate. Without a proper energy source the detector will not work and you will not be warned of leaking gas.

ELECTRICAL SYSTEM

General

The electrical system in your motorhome consists of 120-volt AC (alternating current) and 12-volt DC (direct current) circuits and components. All installations are made in compliance with safety requirements of ANSI standard A.1192, National Electric Code, and Canadian Standards Association.

Wiring code for 120-volt AC system:

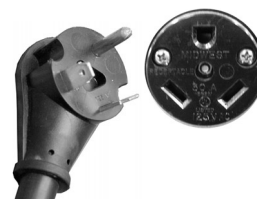
Black = Hot or Positive

White = Neutral or Negative

Green/Bare = Ground

Caution: Power surges experienced while plugged in at a campground could potentially damage electronic component parts in your recreation vehicle. Damage from power surges are not covered by your Jayco warranty. Consult the component part manufacturer's owner's manual or your independent, authorized dealer for recommendations on power surge protection.

Fig. 22



120-Volt AC System

POWER CORD

Your motorhome is equipped with a 30-amp rated power cord pre-wired into the breaker box. By opening the cable hatch or utility center door you can pull the power cord out from the compartment and attach it to the campground power source. Power will enter the coach through a main circuit breaker. It is distributed through additional circuit breakers to wall receptacles and any appliances wired direct, such as an air conditioner. The cord extends approximately 25'–35' (7 to 10 meters) from the motorhome depending on floor plan. Your RV power cord must be fully extended and not left coiled in the compartment or on the ground. If the cord is left coiled, it creates potential for heat to melt the cord's casing together.

To prevent accidental electrical shock, insure that the ground pin on the attachment plug cap is intact to the earth ground through the RV park receptacle. Any accidental short of a live circuit conductor will trip the circuit breaker indicating a shorted circuit. Make sure that the polarity of the external power is not reversed, in order to avoid harm to appliances and personal electrical shock. Polarity indicators may be purchased in most electrical and hardware stores.

It is strongly recommended to avoid the use of extension cords. Using an improper extension cord will cause overheating of the cord and equipment, and it voids the warranty. It may also cause premature failure of the AC equipment. If you choose to use an extension cord, it **MUST** be the same amperage rating as the RV power cord and be identified for heavy-duty outdoor use. However, the use of an extension cord can still cause all the problems discussed here and will void the warranty.



WARNING: Do not use an adapter, cheater or extension cord that will break the continuity of the grounding circuit connected to the third pin.

NEVER remove the grounding pin to connect a non-grounded, two-prong receptacle. Any deviation from this will potentially cause a fire from overheating.

POWER CENTER

Your motorhome is equipped with a power center that includes 120-volt breakers, 12-volt fuses and battery charging capability. Your motorhome is equipped with a transfer switch that automatically switches between generator power and external power when the optional generator is ordered.

AC DISTRIBUTION CENTER

When 120-volt AC is connected to the power center through an external power source or generator, the 120-volt AC circuits are activated. These circuits are protected by circuit breakers contained in the AC load center. 120-volt AC circuits may be turned off by flipping the circuit breaker to indicate “OFF”. The circuits may be turned on or reset by flipping the breaker to indicate “ON”.

GFCI



WARNING: Make sure you read, understand and follow all instructions supplied by the GFCI receptacle manufacturer with your RV. Failure to follow these instructions could lead to death or serious injury from shock or electrocution.

Each motorhome has a GFCI receptacle installed. These initials mean “Ground Fault Current Interrupter.” This special receptacle has been designed to reduce the possible injury caused by electrical shock.

An example of ground fault current is the current which would flow through a person who is using or touching an appliance with faulty insulation and, at the same time, is in contact with an electrical ground such as a plumbing fixture, wet floor, or earth.

When this GFCI receptacle is tripped, it has interrupted ground fault current caused by such things as faulty insulation or wet wiring inside some appliance or equipment connected to the circuit. The faulty equipment should be repaired before is it used again.

This GFCI receptacle will not protect against short circuits or overloads. The circuit breaker or fuse in the electrical panel which supplies power to the circuit provides this protection.

This GFCI receptacle should be tested monthly while the motorhome is being used.

Testing Instructions

1. Plug a 120-volt electrical device into the receptacle on the face of the GFCI.
2. Push and release the RESET button.
3. The 120-volt electrical device should operator at this time.
4. Press the TEST button.
5. The RESET button should pop out indicating it has been “tripped” and the 120-volt electrical device should cease operating. (If the GFCI is manufactured with an indicator light, the light should glow when the GFCI has tripped.)

6. If the GFCI did not trip, do not use the outlet. Call a qualified electrician to service or replace the receptacle. The ground fault protection is no longer working properly.
7. To restore power after “tripping”, press in the RESET button. It must remain in. (If an indicator light is furnished, it will be off.)

30-AMP SERVICE



WARNING: Do not replace breakers or fuses with any that are rated at a higher amperage. Over fusing may cause a fire by over heating the wire.

Below is a generic table of circuit breaker alignment. Your motorhome may not be exactly the same as shown depending on model, floor plan, and options.

120-volt AC Layout		
Main	30-amp	main, incoming power to unit
A	20-amp	air conditioning
B	15-amp	microwave oven
C	15-amp	refrigerator, GFCI, kitchen/bath
D	15-amp	utility/converter
E	15-amp	water heater

12-volt DC Layout		
1	12.5 amp reset	Tank Heater#1/Bedroom Slideout Motor
2	15 amp	Bath Area
3	15 amp	Monitor Panel/Kitchen Area/Water Pump
4	15 amp	Furnace/Attic Fan
5	15 amp	Bed Area
6	15 amp	12-volt Outlets/Radio/LP Detector
7	15 amp	Living Area/Porch Lights
8	15 amp	Bunk Lights/Trunk Lights/Power Awning
9	15 amp	Main Slideout Lights
10	15 amp	Option
11	15 amp	Refrigerator/Slideout Switch
12	20 amp reset	Tank Heaters #2 & #3

CONSUMPTION OF 120-VOLT AC POWER

Your recreation vehicle is equipped with a 120-volt/30 ampere power cord and load center. A maximum of 30 amperes (or 3600 watts) of power can be consumed at any given time. It may be necessary to stagger the use of some appliances to maintain power usage at 50 amperes or below. Accessories such as coffee pots, toasters, electric skillets, curling irons, etc. can use a significant amount of power and need to be included in your power consumption plan.

12-Volt DC (Direct Current) System

(N) NOTE: The motorhome master battery switch **MUST** be turned on before 12-volt devices will operate.

Included with your power center is a power converter which transforms 120-volt AC energy into 12-volt DC energy to supply your motorhome. When 120-volt AC power is supplied to the power center through the main circuit breaker in the "ON" position, the converter will supply 12-volt DC power to the motorhome as long as the auxiliary battery is properly connected.

Electrical component parts are sensitive to heat and the power converter will produce heat. Ventilation is required for proper operation. A fan is built into the power converter to assist air movement and provide temperature control. If normal ventilation is obstructed and the fan is unable to control the temperature, a protective "Thermal Breaker" will trip the 120-volt AC power to the power converter. After the converter cools down, the breaker will reset automatically and 12-volt DC power will be restored.

Replaceable fuses are used to protect the 12-volt DC component parts. If a fuse blows, it is an indication that a circuit is overloaded or there is a "short circuit." Contact your independent, authorized dealer for assistance.

A separate 12-volt fuse panel supplies power to your chassis. Consult the chassis owner's manual for assistance.

When 120-volt AC power is supplied to the power converter through a direct connection at the campsite, the converter will supply 12-volt DC power to the auxiliary battery automatically.

The auxiliary battery will also receive a charge from the alternator when the engine is running.

Batteries, Chassis and Auxiliary

Each chassis is built with a battery to provide energy to start the engine and supply energy for other component parts in the chassis. This battery is located under the hood. The original equipment manufacturer (OEM) chassis battery is furnished and warranted by your Ford or GM dealership (as applicable).

An auxiliary battery is included in each motorhome for storage power when 120-volt energy is not available. When drawing energy from the battery, remember that there is a limited amount of power available before the battery needs to be recharged. This auxiliary battery is located in the "house portion" of your motorhome. All auxiliary batteries require an "in-line" fuse, or a 12-volt circuit breaker, placed within 18" of battery for your protection.

To Recharge the Auxiliary Battery:

1. When the motorhome engine is running, the alternator will automatically supply a charge to replenish the auxiliary battery.
2. When parked at a campsite, plug into shore line power. With minimal or no load on the electrical system, the converter will automatically charge the auxiliary battery. This may take several hours and depends upon battery condition and the number of 12-volt components being operated during the charging period.

ISOLATORS

When an auxiliary or "house" battery is installed in a recreation vehicle, it's the nature of parallel circuitry to draw energy from both batteries (auxiliary and chassis). A device called an "isolator" must be installed for two purposes. First it receives current from the alternator and controls distribution of energy to house and chassis batteries. Secondly, it serves as a check valve to prevent energy from being drawn from the chassis battery. Energy in the chassis battery is preserved and available to start the engine.

Your motorhome has an "isolator" solenoid (located on the chassis cowl under the hood) for this purpose.

MASTER BATTERY SWITCH

Located near the entrance door is a master battery disconnect switch. This momentary switch controls a latching type solenoid (located near the house battery), which connects or disconnects the "house" battery dependent upon the number of times it is pushed. When energized, the battery disconnect solenoid supplies battery power to all accessories connected to the house 12-volt fuse panel. During storage of your motorhome, it is important to have the battery disconnect solenoid in the "OFF" or disconnected position.

N NOTE: Make sure the master battery switch is in the "OFF" position during storage of the motorhome to avoid draining current from the battery. If your motorhome has a detachable in-dash radio face plate, it must be removed during storage to prevent current draw from the auxiliary battery.

AUXILIARY START SYSTEM

Your motorhome can momentarily connect the auxiliary and chassis batteries if the chassis battery becomes discharged for any reason.

To Start the Unit When the Chassis Battery Has Been Discharged:

1. Press the button on the dash, located on the left side of the steering column, and hold.
2. Use the ignition switch to start the engine.
3. Release the button after the engine has started.

Inverter (Option on Some Models)

Your motorhome may be equipped with an inverter that converts 12-volt DC current to 120-volt AC current to operate the RV and home theater system. It is important that you familiarize yourself with the inverter function and operation. Refer to the inverter manufacturer's owner's manual for complete operating instructions and/or consult with your independent, authorized dealer.

Generator

The generator will produce 120-volt power for use when camping in areas where shore power is unavailable. 120-volt power from the generator is output to the AC Distribution Center by way of an automatic generator transfer switch. In the default mode, the automatic transfer switch will connect the generator to the AC Distribution Center any time the generator is running AND the shore power cord is disconnected from 120-volt power.

The generator must have 12-volt DC power to start, will start from the auxiliary battery and will draw fuel from the chassis supplied fuel tank.

- When the fuel tank drops to 1/4 tank, the generator will shut off to avoid running the vehicle completely out of fuel.
- If the auxiliary battery has been drained of power, start the chassis engine to supply 12-volt DC power to the auxiliary battery and then start the generator.
- If both the auxiliary battery and the chassis battery are low on power, it is best to obtain assistance from another motorist and use jumper cables.
- If you are in a situation with no assistance available and both the auxiliary and chassis battery have a small amount of voltage, it is possible to start the generator if two people are present. One person will need to hold the auxiliary start button on the dash and the other person will need to press the start button on the generator.

See the generator manufacturer's owner's manual for additional information on generator operation and/or consult with your independent, authorized dealer.

Lights

DOME

These lights are wired directly to the OEM chassis wiring. Operation for these lights is through the headlight switch or the pin switches located on the driver and passenger doors posts.

EXTERIOR

Stop, turn signal, backup, clearance and tail lights are attached to the wire harness supplied by the chassis manufacturer. All exterior lights operate through the chassis fuse panel. Fuse sizes are listed in your chassis owner's manual.

LIGHT BULBS

	BULB #
Tail Light	1157
Turn Signal	1157
Backup	1156
Porch Light	912
Interior Light	921
Clearance Light	194
Refrigerator (900 series only)	168

Fuse Chart

All exterior light fuses are located in the chassis fuse block, located under the dash near the emergency brake pedal.

The fuse chart below is for interior items built into the house portion of the vehicle by the recreation vehicle manufacturer. Some items listed are optional.



CAUTION: DO NOT install any replacement fuse with a rating higher than specified below.

ITEM	AMP SIZE	TYPE	APPLICATION	LOCATION
Remote Mirrors	1	Glass	Option	In line under dash - left hand side
Back-up Monitor	1.5	Glass	Option	In line under dash - left hand side
Power Step/Auxiliary Start Switch/Cutout Relay	5	Blade	Standard	In line under dash - left hand side

NOTES

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PREPARING TO TRAVEL HOME...



WARNING: For traveling safety, it is important to make sure that tie down straps are secured on all appliances such as the television, coffee maker, etc. Vibration caused during travel will move the appliances creating the potential for them to fall out of their cabinets possibly causing injury.

Caution: IMPORTANT! *Never store the slideout without the travel bars installed. This helps seal the slideout in the closed position.*

When the time arrives to return home, it is again critical that you complete the necessary procedures to ensure a safe trip. As you develop a routine, it is possible that a checklist will be helpful. This is a general list, which you may want to customize as you determine your own needs. In addition, make sure you follow the hitching procedures listed in the “Before You Travel...” section of this manual.

DEPARTING CAMP CHECKLIST

Safety

- ☐ Make sure you follow all safety precautions noted in this manual and in any information from component part manufacturers when preparing to travel home.

Interior

- ☐ Counter items put away or tied down
- ☐ Latch drawers, cabinets & doors
- ☐ Refrigerator door locked
- ☐ Set refrigerator to 12-volt (if applicable)
- ☐ Close windows & latch blinds
- ☐ Close roof vents
- ☐ Lower antenna & satellite dish
- ☐ Furnace turned off
- ☐ Water heater turned off
- ☐ Water pump turned off
- ☐ Lights turned off

Exterior

- ☐ Retract awning and secure in place
- ☐ Retract slideout (if applicable)
- ☐ Retract step
- ☐ Pack equipment into compartments and secure it
- ☐ LP gas turned off
- ☐ Water hose & electric cord unhooked and stored
- ☐ Visually look under RV for items missed
- ☐ Lock all exterior compartments
- ☐ Empty black holding tank
- ☐ Rinse black holding tank, if necessary
- ☐ Empty gray holding tank

Motorhome Operation

- ☐ Check fluids
 - oil
 - coolant
 - transmission fluid
 - washer fluid
 - power steering fluid
 - brake fluid
 - battery terminal
- ☐ Check belts
- ☐ Check wheel lugs
- ☐ Check tire pressure (include inner wheel and spare, if applicable)
- ☐ Check tire wear (uneven wear pattern)
- ☐ Check lights
 - headlights
 - brake lights
 - clearance lights
 - turn signals
- ☐ Retract stabilizer jacks
- ☐ Test brakes for proper operation

DRAINING THE HOLDING TANKS

(N) NOTE: Make sure you review the information in the “Before You Travel...” chapter for specific information related to the weight of holding tank contents.

Your motorhome is labeled to indicate the holding tank termination valve locations. These labels, as indicated in Fig. 23 & Fig. 24, are located on the exterior of the unit or in the utility center, depending on your floor plan.



Fig. 23



Fig. 24

A typical set up of the tank drain and termination valves is indicated in Fig. 25 for basement models and Fig. 26 for non basement models. Look for the valve labels on your unit and complete the following steps to empty your holding tanks. If you have further questions, consult with your independent, authorized dealer.

When hooking up to the sewer drain line in a campground, keep the termination valve on the waste tank **CLOSED** until the tank is at least 3/4 full. This will provide sufficient water to assist in complete draining of tank. At this time, open the termination valve to empty the tank (see directions for draining below) and close the valve when the tank is empty. Repeat this process as needed, but **NEVER** leave the termination valve open when hooked up to the park's sewer system.



Fig. 25



Fig. 26

To empty holding tank:

1. Make sure the unit is as level as possible to aid with drainage.
2. Attach the adapter to the flexible sewer hose and secure it with a clamp.
3. Remove the dust cap and attach the adapter onto the drain pipe.
4. Turn the adapter 10° to lock it onto the pegs on the drain pipe.
5. Place the other end of the hose into an approved sewer system.
6. Open the black tank termination valve to empty the black tank.
7. Open the gray tank termination valve to empty the gray tank, utilizing the water to wash and rinse the flexible hose.

All drain pipes have a “P-trap” installed into each line. Water in these traps prevent odors from escaping into the motorhome. During travel, water from the P-traps may spill and permit odors into the motorhome. These odors come from food particles decomposing in the tank. By adding water and using a RV approved deodorizing agent the contents will dissolve faster and will keep the drain lines and tanks clean and free flowing. Chemicals are available at an RV supply store.

Most states and parks have strict laws and regulations to prohibit dumping of wastes of any kind into anything other than proper disposal facilities or sewer systems. Almost all privately owned parks have either a central pump facility or offer a campsite hookup of sewage. You can find lists of many dump facilities throughout the United States in Woodall's, Rand McNally Camp Guide, Good Sam Camp Guide, KOA Kampgrounds Camp Guide, and various other publications. Some fuel stations also have dump stations.

NOTES

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MAINTAINING YOUR INVESTMENT...

MAINTENANCE

Your motorhome is designed to be as maintenance free as possible. However, maintenance is important to retain its condition as near new as possible and preserve the warranty. The information in the following pages is supplied to provide guidance for your maintenance routine. Many of the component part manufacturers supply information for their equipment. Refer to all instructions supplied with your motorhome when performing maintenance. Proper maintenance will give you many trouble free miles.

(N) NOTE: Some areas in this chapter may not be applicable to your motorhome.

(N) NOTE: Failure to properly maintain your motorhome can cause numerous problems and it voids Jayco's warranty as well as the warranties of many of the component part manufacturers.

Caution: We recommend that you do not take your recreation vehicle through automatic car washes. Extreme caution should be used if utilizing any type of pressure sprayer around all attachments, doors, windows, appliance vents, etc. Avoid forcing water inside the unit, which could possibly damage component parts.

EXTERIOR

Fiberglass Sidewalls

Fiberglass walls are very durable and easy to maintain. To keep them looking nice, wax and buff them once a year. Standard automotive cleaning soaps and waxes work well for general cleaning and maintenance. In addition, do not dry wipe surface. Special cleaners and waxes are available at automotive and RV stores.

Scratches, chips and other cosmetic cracks can be easily fixed by an experienced fiberglass repair shop. Any major damage should be repaired as soon as possible to keep cracks from spreading.

Rubber Roof

CAUTION: All roofs require routine maintenance. At least once per year, inspect and reseal all seams: front and rear, around all vents, and along all moldings. Failure to properly maintain the unit's seals may cause leaks and it voids the warranty.

The rubber roof on your motorhome is manufactured by Alpha Systems. They have supplied instructions with your motorhome to take care of your roof. Make sure you read and follow these instructions when working on your roof. If you have questions, consult with your independent, authorized dealer and/or visit the manufacturer's website at www.alphasystemsinc.com.

Roof Ladder

Your motorhome may be equipped with a roof ladder. For units that are purchased with this option, the roof is built with additional decking for support. If your unit did not come with this option, do not walk on the roof.



WARNING: If your unit is equipped with a roof ladder, do not leave items attached to it while traveling. The ladder has a weight limit of 350# when using it to access the top of the unit. Do not exceed this limit.

Sealing

All corners or flat trim have putty tape sealer between the trim and aluminum skin. This sealant can be damaged by U.V. exposure, air pollution, freezing temperatures and other exposure to weather elements. At least two times each year, inspect all seams. Refer to Fig. 27 for points to inspect. Check the sealant for voids, lifting, peeling or cracking. Reseal as necessary and at least one time each year as preventative maintenance. If you notice any deterioration in the seal, scrape off cracked or loose sealant and then reseal the area. Consult with your independent, authorized dealer for the best type of sealant to use. **FAILURE TO CAULK MAY RESULT IN SERIOUS WATER DAMAGE TO THE ROOF AND OTHER PARTS OF YOUR VEHICLE AND IT VOIDS THE WARRANTY.**

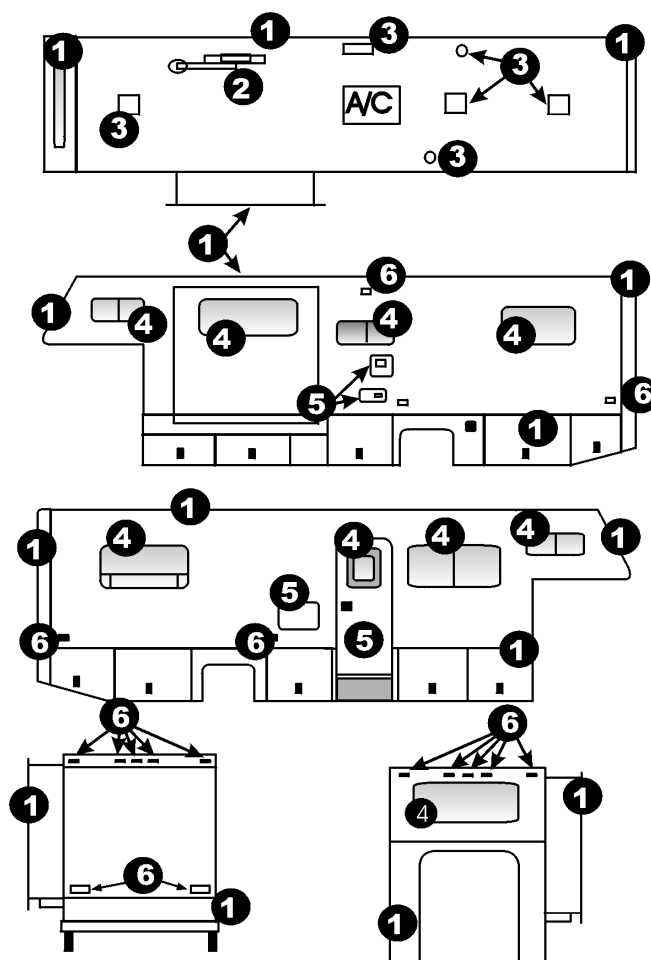


Fig. 27

CHASSIS

Instructions and safety precautions you need to follow for the drive train and automotive chassis are included in the manual supplied by the chassis manufacturer.

A frame extension may have been added to your motorhome chassis. You may wish to have an undercoating material applied to the frame extension to protect your investment from the effects of road grime, salts, and other corrosive materials. Contact your chassis manufacturer before applying undercoating to the chassis frame. Frames will rust much sooner in salt exposed areas than in dry air. Also, frames will receive heavy abuse from roads, such as sand, pebbles, objects on the highway, all of which will cause chipping and a

blasting effect on the painted surface. For these reasons it is necessary to inspect, clean and repaint the steel members to prevent excessive rust and insure a longer life of the frame on a routine basis.

Spare Tire Carrier

The following procedures should be used for securing the spare tire in the travel position:

1. Put the steel hoist lift support located on the end of the cable through the rim of the tire.
 - a. The clips need to seat inside of the hole.
 - b. The tire valve stem **MUST** be pointed in the down position (away from the bottom of the motorhome). The hoist will not seat tire correctly if the valve stem is toward the motorhome.

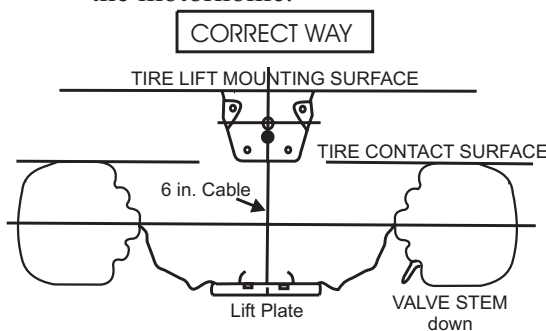


Fig. 28

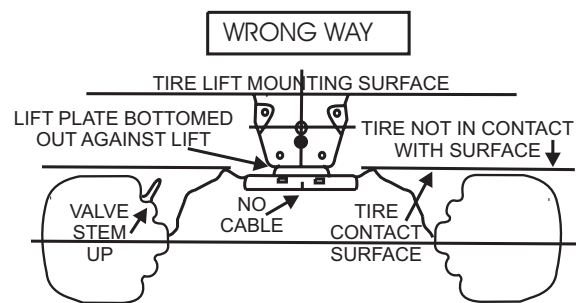


Fig. 29

2. Use the crank handle to lift the tire into the travel position. Two crisp breaks must be heard and felt to insure proper seating of the tire for travel.

The tire must be in contact with the tire contact surface to be in the travel position.



WARNING: DO NOT exceed the maximum load capacities of 100 lbs. for the hoist. DO NOT use air driven guns or impact wrenches to lift the tire into the travel position.

FRONT AXLE ALIGNMENT

The term alignment refers to both the adjustment angles on the steering axle and suspension and tracking of the rear axle. Many factors are considered when establishing proper alignment. Steering components, suspension, wheel bearings and even proper loading will affect your motorhome alignment. To ensure accuracy, your motorhome alignment was verified at our manufacturing facility before shipment to your independent, authorized dealer.

Jayco recommends that you have the front suspension and steering alignment checked and adjusted after you have fully loaded the vehicle. In addition, you should read, understand and follow any instructions from the chassis manufacturer, including anything discussed in documents provided by the chassis manufacturer. As part of normal maintenance, it is your responsibility to have the alignment inspected periodically to maintain vehicle steering performance and prevent uneven tire wear. **Always have the alignment checked and adjusted by a qualified shop with the proper equipment to handle heavy vehicles.**

NOTE: A road test by the independent, authorized dealer should be included as part of the pre-delivery inspection. The independent, authorized dealer can then arrange to have any steering problems corrected before you take delivery of the motorhome. After this road test has been completed, front-end alignment and/or vibrations will not be covered as part of the new vehicle limited warranty.

WHEEL LINERS

Your motorhome may be equipped with Versa-Liner® Wheel Liners. Information on the function of these liners is supplied with your unit by the wheel liner manufacturer. If you have further questions, consult with your independent, authorized dealer and/or visit the manufacturer's website at www.dicor.com.

CLEARANCE LIGHTS

Inspect all exterior lights to make sure they do not have moisture trapped inside. The “weep” holes at the bottom of the lights must be kept open to allow moisture to escape from the light fixture.

DOORS, EXTRUSIONS, WINDOWS & VENTS

These components have putty tape between the component and the wall surface. Portions of these items may have a cap seal added as a secondary seal. Inspect these seals at least once per year. Both putty tape and cap seals can become damaged by U.V. exposure, air pollution, freezing temperatures and exposure to the elements. Therefore, they need to be resealed from time to time.

Locks on entrance and baggage doors need biannual lubrication. Silicone lubricant is recommended. Conditions such as rain, salt, dust and pollution may increase the maintenance needs.

Inspect and seal the door frame threshold corners one time each year. Refer to Fig. 30 which indicates the referenced location.



Fig. 30

Entrance Door

The entrance door installed in your vehicle is the result of years of design and testing to provide you, the homeowner, with the most carefree and functional product available.

To keep your door operating in the manner, in which it was designed and delivered to you, there is some routine maintenance items that should be handled on a regular basis.

- **Strike Plate Adjustment** - The door in your motorhome was installed and adjusted in a factory setting and the setting of the striker plate may change over the course of time and road conditions. Therefore, the setting may need to be changed or adjusted to insure that your door operates as smoothly and efficiently as it should. To adjust the strike plate, loosen the two screws holding the strike plate to the jamb system. Move the plate in or out as needed to obtain a proper seal and closing force and retighten the screws. To adjust the strike bolt in the rotary lock, loosen the bolt with a 5/8" socket or box end wrench, move the bolt in the direction needed and retighten the bolt to 35 foot pounds of torque. The door in your motorhome operates much like an

automobile door and must be closed firmly. The door will not be fully closed until the secondary lock is engaged.

Caution: *If you loosen the screws too far the backer plate will release and drop down into the doorjamb. Should this happen, replace the short screws with a screw that is long enough to go through the jamb system and into the framework of the sidewall.*

- **Locks** - The key cylinder in your locks need to be lubricated on an annual basis and as needed. Always use powdered graphite never a petroleum product. The petroleum product will gum up the cylinder and cause it to not operate smoothly. Apply a light coating of white lithium grease to the face of the lock bolt to obtain a smooth closing.
- **Hinges** - The hinges on your door should be lubricated annually and as needed with a high quality spray lubricant.
- **Fiberglass Skin** - To maintain good appearance and long service life, Philips door skin panels should be washed and cleaned periodically. Cleaning removes the accumulation of dust and dirt that can combine with sunlight and wind to attack exposed surfaces both chemically and abrasively.
- **Cleaning:**
 - › *General Cleaning* - A 10% solution of trisodium phosphate in warm water (not to exceed 120°F), may be applied in a scrubbing motion, using sponge, brush, or cloth. Rinse thoroughly after cleaning.
 - › *Removing Oil Residues or Difficult Substances* - Mineral spirits, applied with a clean cloth, will aid in removing most oily residues or substances.
 - › *Removing Hard Water Deposits* - A 10% solution of acetic acid in cold water may be used in the manner described in General Cleaning above. Rinse thoroughly after cleaning.
 - › Waxing, though not mandatory, will help maintain the appearance and service life of the door. If waxing, use a high quality, non-abrasive automotive or recreation vehicle wax.

(N) NOTE: Use only non-corrosive cleaning compounds. Avoid the use of compounds containing ammonia or chlorine since they may cause the panels to yellow. Do not use rubbing compounds, as they will etch and damage the panel surface.

ELECTRIC DOOR STEP

If your unit has electric door stops, make sure that you follow the step manufacturer's recommended maintenance routine. Refer to information supplied by the step manufacturer with your unit to perform maintenance and/or troubleshoot a problem with the steps. If you have further questions, consult with your independent, authorized dealer and/or visit the step manufacturer's website at www.kwikee.com.

LP GAS SYSTEM

Your LP gas system is designed to function properly with regular maintenance and inspection. Make sure that you regularly check for any gas leaks as outlined in the safety information in this manual, as well as any appliance manufacturer's supplied information. It is recommended that you have your system inspected at least annually by a qualified independent, authorized dealer or LP gas supplier.



DANGER: DO NOT smoke while changing bottles or working on your LP gas system. See the use, danger and warning instructions throughout this manual for the LP gas system.

FURNACE MAINTENANCE

Preventive maintenance and safety checks should be performed by a qualified technician at least once a year, or more, depending on the use of the furnace. Failure to properly maintain the furnace may void the furnace warranty and can result in unsafe furnace operation. Preventive maintenance is NOT covered under the warranty. Power should be disconnected before servicing. Refer to the furnace manufacturer's supplied instructions for information regarding the furnace and its maintenance.

(N) NOTE: To increase motor life, the furnace should be wired directly to the battery.

AIR CONDITIONER

Consult the manufacturer's information supplied with your and/or your independent, authorized dealer for maintenance information on the air conditioning unit. Information is also available at www.rvcomfort.com/rv_products.htm.

A special foam gasket is placed between the roof material and the subframe of the air conditioner to guard against water leakage.

An air conditioner is subjected to wind pressures along with motor vibration during normal operation. Inspect the mounting bolts for tightness to ensure there is no leakage or looseness at least annually. Tighten bolts when they are loose. DO NOT overtighten these bolts as it may damage the gasket.

To gain access to the bolts, remove the filtered panel cover on central air systems or the entire air box on non-central air conditioners.

BATTERY

Maintenance is required on all batteries for maximum performance. Failure to properly maintain the batteries voids Jayco's limited, express warranty and the warranty of many component part manufacturers.

1. Keep all terminals clean and tight.
2. Keep the battery filled with water. Cells low on water cannot hold a full charge. A battery used in daily operation will consume water.
3. The charging system must be in good operating condition to maintain your battery.
4. Keep the battery mounted securely. Vibration may cause pre-mature battery failure.
5. Check the outside condition of the battery. Look for cracks in the case or the vent plugs. Replace a leaking battery as soon as possible.

CARBON MONOXIDE DETECTOR

Maintenance and testing information for your carbon monoxide (CO) detector are supplied by the manufacturer. Make sure you read, understand and follow all instructions and safety

requirements to maintain the unit's proper operation. If you have questions, consult with your independent, authorized dealer or contact the manufacturer.



WARNING: If the CO detector is not maintained and functioning properly according to the CO detector manufacturer's supplied instructions, you will not be warned if CO is present in the air. Death or serious illness could result from asphyxiation (inability to breathe) if CO is present.

TV ANTENNA

Maintenance information for your TV antenna is supplied with your from the manufacturer. Refer to this information for complete instructions, and/or consult with your independent, authorized dealer. Information can also be found at the manufacturer's website at www.wingard.com.

ABS PLASTICS

ABS plastic components such as shower wall and the tub will retain their original beauty with reasonable care.

For Cleaning:

1. Dust and wipe clean with soft, damp cloth or chamois, wiping gently.
2. Wax or polish with Simoniz,[®] Aero-Wax,[®] or Glo-Coat[®] using flannel or jersey cloth. After polishing, wipe gently with damp cloth to ground electrostatic charges which may attract dust particles.

Do NOT use gritty or abrasive particle soaps or scouring compound to clean ABS plastic.

Caution: Avoid using "Citrus" or biodegradable cleaners which contain "D-Limonene." They will damage plastic materials.

BATHROOM TUB, LAVATORY SINK

The bath tub in your motorhome is made of ABS plastic material. DO NOT use abrasive type cleaners, as they may scratch surfaces. Use a mild detergent soap and warm water to clean the tub surface. These cleaning instructions are similar to those recommended for fiberglass tubs and walls. For any type of repair work, see your independent, authorized dealer.

HARDWARE AND SINK OR SHOWER FIXTURES

Use mild dish soap and water to clean these fixtures. Never use harsh chemicals or sprays. A mild solution of vinegar and water works well to remove hard water spots and stains from the sink or shower fixtures.

TOILET

The care and maintenance of your toilet should be performed according to the instructions supplied by the toilet manufacturer. If you have further questions, consult with your

independent, authorized dealer and/or visit the manufacturer's website at www.thetford.com.

FURNITURE

Cloth Furniture

Vacuum occasionally to remove dirt, dust and pet hair. Have steam cleaned when necessary. Test fabric in an inconspicuous location before using any spot cleaners.

Synthetic Leather

Wipe with a soft damp cloth for most dirt and spills, air dry. If needed, use a small amount of a mild liquid detergent. For oil or grease stains, spray immediately with an all-purpose spray cleaner or Tannery Car Care Cleaner. Take care not to smear beyond the original stain. Rinse with clean water, air dry.

CUSHIONS

Caution: Do not dry clean vinyl components. Do not remove covers for dry cleaning.

If the cushions are dry cleaned, the vinyl on the reverse side of the cushion will shrink, become hard and crack. Vacuum the fabric and wipe the vinyl surfaces. The fabric can be gently steam cleaned on the cushions or mats if necessary.

All dinette and bed mat covers are treated with stain protector. Vacuum the cover with a brush attachment periodically to remove dirt.

BEDSPREAD

Dry clean only.

WINDOW TREATMENTS

The window treatments of your recreation vehicle may include mini blinds, pleated shades, and/or drapes. Refer to the following guidelines for cleaning.

Window Treatment	Light Cleaning	Extensive Cleaning
Mini Blinds	Dust or Vacuum	May be removed and washed with a mild detergent and warm water.
Pleated Shades and/or Day/Night Shades	Vacuum	A professional dry cleaning service is recommended.
Privacy or Cab Area Draperies	Vacuum	Dry Clean



CAUTION: To prevent scorching of the window shades, do not use the swivel arm lamps located adjacent to the slideout if one of the lampshades is broken or missing. Remove the light bulb and contact a qualified service center for repairs or replacement.

PANELING

The wall paneling in your motorhome is a vinyl covered wood panel. If deep scratches occur, putty sticks can be used to cover them. These can be obtained from hardware stores and lumber yards. For decor paneling, replacement vinyl covering can be purchased for repairs if needed. Your independent, authorized dealer's parts department can assist you with this.

To clean, use a mild solution of soap and lukewarm water with a soft sponge or cloth. DO NOT use abrasive cleaners. It could cause the vinyl to scratch and turn dull. Grease spots and stubborn dirt can be cleaned off with an all-purpose spray cleaner. Harsh cleaners and organic solvents can attack the printed vinyl and, therefore, are not recommended.


VINYL FLOOR

To care for the vinyl floor covering, use a damp mop with water and a mild cleaner. DO NOT SOAK FLOORING. Use care to avoid wetting carpet edges.

Caution: To avoid problems of "yellowing" linoleum, the manufacturer recommends to avoid using cleaners that contain oil based solvents (i.e. cleaners containing lemon oil, Murphy's Oil Soap, etc.).

CARPETING

Because of the additional dirt typically associated with camping, we recommend that you vacuum the carpet frequently. Professional steam cleaning for tough and deep stains is recommended. Use spot removers for minor spills. Always test carpet for color fastness in an inconspicuous area before using any product.

 **NOTE:** Avoid chemical cleaners. Do not permit cleaners to touch carpet or fabrics.

COUNTERTOPS

High Pressure Laminate

Glass rings, food spills, water spots and smudges usually wipe off with a damp sponge. Stubborn stains can be removed with a general purpose spray cleaner. Some stains can be removed by squeezing fresh lemon juice over the stain and allowing the juice to soak for approximately forty-five minutes. After forty-five minutes, sprinkle baking soda over the lemon juice and rub with a soft cloth.

SLIDEOUT

Your slideout system has been designed to require very little maintenance. To ensure a long life of your slideout system, read and follow these simple instructions.



CAUTION: Do not work on your system unless the battery is disconnected.

- When the slideout is extended, visually inspect the inner slide rail assemblies. Check for excess build-up of dirt or other foreign material; remove any debris that may be present.

- If the system squeaks or makes any noise, apply a coat of lightweight oil to the drive shaft and roller areas. Remove excess oil so dirt does not build-up.
- On motorhomes with a flush floor slideout, a light coat of silicone spray is recommended one time per year. To apply the spray, lift the carpet flap. Using a light coat of spray, make one pass all along the glide bar. It is recommended that this be done prior to each camping season.

Caution: Use only a silicone spray to lubricate the glide bar. Other lubricants may attract dirt and oils which will stain the carpet.

- If you have any problems or questions consult your independent, authorized dealer or call Power Gear at 1-800-334-4712.

Troubleshooting Electric Slideout

If the slideout does not move when the slideout switch is depressed, follow these steps.

- Check the battery for a full charge and good wire connections.
- Check for loose connections at the slideout switch, motor and relay module (if applicable).

If the slideout still will not operate, follow these steps.

- If the slideout is extended, see the section on overriding the electric slideout system.
- If the slideout is retracted, leave it in that position. Install the “travel bars” and “tie down strap” (if applicable)
- Take the motorhome to a independent, authorized dealer or service center.

If the slideout extends crooked, or only one side moves, follow these steps.

- Follow steps on overriding the slideout system to disconnect the motor according to directions which apply to your motorhome.
- You may need to push the side that is not sliding to get it to retract all the way.
- Once the slideout is fully retracted, install the “travel bars” and “tie down strap” (if applicable).
- Take your motorhome to a independent, authorized dealer or service center.

Overriding the Electric Slideout System

If the system will not move when the switch is pressed, check the following:

- Is the battery connected and does it have a full charge?
- Are the travel bars and tie down strap (if applicable) removed question

After checking the above, follow these steps to move the slideout manually:

1. Rotate the lever on the back side of the motor counter-clockwise about 1/8 turn (Fig. 31). This will release the brake that locks the slideout in place.
2. Access the manual override. For some models it is located in front of the slideout rail assembly and for other models, it will be found behind the drivers seat.
 - › For models with the override in front of the slideout rail assembly, using a 3/4" or 1/2" drive ratchet with a 3/4" socket, crank the slideout until it is fully retracted (or extended).
 - › For models with the override behind the drivers seat, using a 3/4" drive ratchet with a 1-1/8" socket, crank the slideout until it is fully retracted (or extended).

3. When the slideout is fully retracted (or extended), apply pressure to the ratchet handle and return the brake release lever on the motor to its normal downward position (Fig. 31). This will ensure that the slideout is locked in a sealed position.
4. Install the travel bars and tie down strap (if applicable) and take the unit to a independent, authorized dealer for service.

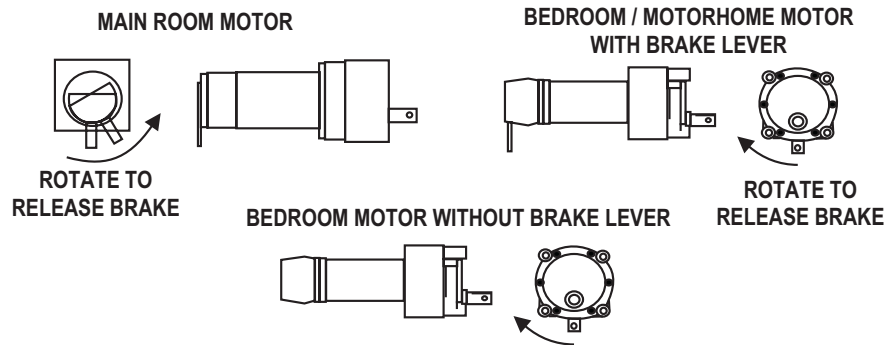


Fig. 31

! WARNING: When the slideout motor brake is released the slideout will not lock into place, and therefore it will not be sealed from the outdoors! When the slideout has been retracted, be sure to install the travel bars and the tie down strap (if applicable) and return the brake release lever to its downward position in order to seal and lock the slideout.

! WARNING: For models with a slideout front facing dinette seat, always confirm that the tie down strap is installed correctly prior to travel.

MAINTENANCE CHECKLIST

This list is a quick reference sheet for suggested areas of regular maintenance. Make sure that you review all literature supplied with your trailer by the various component manufacturers. To perform maintenance items as suggested here, refer to specific information found in literature supplied with your unit from component part manufacturers and in this manual.



WARNING: It is important that you carefully read your chassis manufacturer's owner's manual maintenance items. The following list is only a supplement to that list. Failure to follow both lists could be detrimental to the proper operation of your recreation vehicle or cause failures which can cause property damage and personal injury.

Prior to First Trip

- ☐ Check LP gas lines for leaks
- ☐ Test LP gas, smoke and carbon monoxide detector.
- ☐ Sanitize fresh water system.
- ☐ Check wheel nuts at specified intervals to listed torque values. Re-torque as needed. Refer to the chassis manufacturer's manual.
- ☐ Open all windows and the door and start the furnace. Leave the windows and door open and the furnace on until the odor from the initial use of the furnace is fully dissipated.

First Two-Hundred Miles

- ☐ Check wheel nuts at specified intervals to listed torque values. Re-torque as needed. Refer to the chassis manufacturer's manual.
- ☐ Have brakes adjusted by a qualified service technician.

Each Trip

- ☐ Check LP gas lines for leaks
- ☐ Test LP gas, smoke and carbon monoxide detector.
- ☐ Check battery water level. (If equipped with battery.)
- ☐ Check tire pressure and wear. Make sure the tires are cold when checking the tire pressure.
- ☐ Check running lights.
- ☐ Test brakes.
- ☐ Flush out water heater tank.

After Every Tire Change

- ☐ Tighten wheel nuts to specified torque values at 10, 25 and 50 miles (16, 40, and 80 kilometers) to assure that they are correctly "seated" after the tire change. Refer to instructions supplied in the chassis manual.

Daily

- ☐ Recharge battery after each use.
- ☐ Ensure LP gas detector operation light is green in color.

Weekly

- ☐ Check LP gas lines for leaks
- ☐ Test LP gas, smoke and carbon monoxide detector.
- ☐ Check tire pressure and wear. Make sure tires are cold when checking the tire pressure.

Monthly

- ☐ Check fire extinguisher pressure. Refer to the fire extinguisher label for specific instructions.
- ☐ Test the ground fault circuit interrupter (GFCI)

Every Three Months or 3,000 Miles

- ☐ Compare water heater pilot flame with ideal flame. Refer to the water heater owner's manual for ideal flame. Have cleaned and adjusted as necessary by a qualified technician.
- ☐ Compare refrigerator pilot flame with ideal flame. Refer to the refrigerator owner's manual for ideal flame. Have cleaned and adjusted as necessary by a qualified technician. (RV type refrigerator only)
- ☐ Inspect refrigerator door seals.
- ☐ Inspect refrigerator combustion seals. Have cleaned and adjusted as necessary by a qualified technician. (RV type refrigerator only)
- ☐ Check LP gas lines for leaks.
- ☐ Inspect LP cylinders for rust, pits, gouges, scrapes or sharp dents. Repaint cylinders if rust is present.
- ☐ Drain and sanitize fresh water system.
- ☐ Check, clean, tighten and lubricate battery cables.
- ☐ Check wheel nuts at specified intervals to listed torque values. Re-torque as needed. Refer to the chassis manufacturer's manual.
- ☐ Examine the tires for unusual wear, sidewall defects from possible cuts, bulging and abrasions.
- ☐ Lubricate tongue jack.
- ☐ Lubricate hitch ball.
- ☐ Have brakes adjusted by a qualified service technician.

Every Six Months or 6,000 Miles

- ☐ Clean drains with approved drain cleaners.
- ☐ Check pipe connections for tightness. Tighten if necessary.
- ☐ Lubricate all moving parts on the entrance steps.
- ☐ Lubricate entrance and baggage door locks.
- ☐ Clean and lubricate stabilizer jacks.
- ☐ Inspect wheels for cracks, dents or distortion.
- ☐ Inspect and reseal, as necessary, all sealant and putty tape. Refer to information earlier in this chapter.
- ☐ Have suspension system serviced by a qualified service technician.
- ☐ Lubricate the elevating gear on the television antenna.
- ☐ Lubricate the bearing surface between the rotating gear housing and the base plate on the television antenna.

- ☐ Lubricate the rubber quad ring on the elevating shaft located on the television antenna.
- ☐ Perform routine preventative maintenance on the entire motorhome and all component parts.

Every Year or 12,000 Miles


- ☐ Lubricate moving parts on the awning hardware. (Awning option only.)
- ☐ Manually operate the pressure-temperature control lever on the water heater.
- ☐ Clean city water entry strainer.
- ☐ Check demand tank vent for obstructions.
- ☐ Check water pump connections and mountings for tightness.
- ☐ Rotate Fluorescent tubes in the light fixtures.
- ☐ Replace battery on the carbon monoxide detector. (if applicable)
- ☐ Have LP gas system inspected and serviced by a qualified technician.
- ☐ Inspect and seal corners at the threshold of the entrance door.
- ☐ Have the refrigerator inspected and serviced by a qualified technician.
- ☐ Have brakes inspected and serviced by a qualified technician.
- ☐ Repack wheel bearings.
- ☐ Have furnace inspected and serviced by a qualified technician.
- ☐ Inspect and reseal, as necessary, all sealant and putty tape. Refer to information earlier in this chapter.
- ☐ Perform routine preventative maintenance on the entire motorhome and all component parts.

Every Six Years

- ☐ Replace carbon monoxide detector.

STORING YOUR UNIT...

Depending upon your area and where your unit is stored, your camper may be a target for damage from rodents and insects. To protect your camper, never leave food inside the unit and ensure that all surfaces are clean. You may want to place rodent control products in the unit during periods of storage. Mice and other rodents can do a tremendous amount of damage to drapes, cushions, etc. particularly during the winter months. Storing units in fields make them particularly inviting to rodents. Periodically inspect your unit during storage and seal off any areas which can offer an entry point to rodents or insects. Please remember to remove any screens or tape you have used to seal openings before you use the camper again. Special interest publications, such as articles and books offered through TL Enterprises (Trailer Life, Motorhome, etc.) can offer additional and practical advice on the proper storage of your camper. Damage from rodents or insects is not covered under your Jayco Limited Warranty.

 **NOTE:** When storing your motorhome, it is recommended that the battery be unhooked to avoid draining the battery.

WINTERIZING

Preparing your recreation vehicle for winter is very important for most states and Canada. Failure to prepare the motorhome will cause the water system components and the water heater to freeze, causing damage. Repairs due to freezing are not covered under the terms of your Jayco Limited Warranty.

Please keep in mind that your RV was not designed for use during sub-freezing weather.

There is no commodity or product that can be added to the fresh water system to ensure freeze protection while the system is in use, other than RV antifreeze. Do not drink water that contains antifreeze. This includes non-toxic RV antifreeze.



WARNING: Do not use Ethylene Glycol (automotive antifreeze) or Methanol (windshield washer antifreeze) in your fresh water system. They are harmful to the water system and may be fatal if swallowed.

There are two methods of winterizing your motorhome based upon the model of your unit. Please read, understand and follow all instructions before beginning.

Air Pressure (all models)

This method will utilize an air hose to blow excess water from the water lines.

1. Make sure all holding tanks are empty. Open all low point drains and faucets to drain the majority of the water out of the system.
2. Run the pump until it is dry, this will take approximately 15-20 seconds.
3. Make sure that all valves, faucets and low point drains are open before applying air pressure to the water system.

Caution: Never apply air pressure to the water system with any of the valves in the closed position. Air pressure applied to a closed valve, faucet or low point drain

could potentially damage the seals and cause water leaks. If you have questions, consult with your independent, authorized dealer.

4. Using an air hose and adapter, blow air through the city water connection.
5. Any remaining water in the water lines will blow out in five to ten minutes.
6. Pour one cup of non-toxic RV antifreeze into all drain P-traps.

Utility Center with Antifreeze

1. Drain the water tank and water heater completely by opening all faucets and low point drains until the tank and water heater are empty. Make sure all holding tanks are empty.
2. Position the valves on the utility panel to the “Antifreeze/Sanitize Lines” configuration. The low point drains located directly below the utility center must be closed for the antifreeze to siphon through the lines.
3. Attach the intake hose to the city water connection.



WARNING: Do not use Ethylene Glycol (automobile antifreeze) or methanol (windshield washer fluid) in your fresh water system. They are harmful and can be fatal if swallowed.

4. Put the free end of the hose into a jug of Non-Toxic RV Antifreeze. You will need more than one gallon of antifreeze.
5. Turn the demand pump switch to the “ON” position and open each faucet until the antifreeze flows through. Do not forget to run the antifreeze through the toilet.
6. Pour at least one cup of antifreeze into each drain to protect the p-traps.
7. Before using the water system again, thoroughly sanitize and flush the whole system. (See sanitizing instructions in the “Utilities and Systems” chapter.)

Non Basement System with Antifreeze

1. Drain the water tank and water heater completely by setting the valves as indicated for your specific unit in the “Utilities and Systems” chapter. Make sure the tanks, water lines and water heater are empty.

Caution: Antifreeze could potentially be harmful to the water heater. Follow all instructions as supplied by the water heater manufacturer with your unit. If you have questions, consult with your independent, authorized dealer and/or visit the water heater manufacturer’s website at www.atwoodmobile.com.

2. Position the valves to the “Antifreeze/Sanitize Lines” configuration to winterize the water lines only. If you wish to run a small amount of antifreeze into the water tank, configure the valves as indicated to antifreeze/sanitize the lines AND the water tank. After a small amount of antifreeze is added to the tank, reposition the valve to only fill the water lines.



NOTE: Due to the water tank size, you will not want to completely fill the water tank with antifreeze. A small amount of water in the on board tank will not damage the tank in freezing temperatures. If any antifreeze is run into the tank, make sure the system and tank are thoroughly sanitized prior to using the water system again. Refer to instructions supplied in the “Utilities and Systems” chapter for sanitizing

instructions. If you have further questions, consult with your independent, authorized dealer.



WARNING: Do not use Ethylene Glycol (automobile antifreeze) or methanol (windshield washer fluid) in your fresh water system. They are harmful and can be fatal if swallowed.

3. Put the clear hose into a jug of Non-Toxic RV Antifreeze. You will need more than one gallon of antifreeze.
4. Turn the demand pump switch to the “ON” position and open each faucet until the antifreeze flows through. Do not forget to run the antifreeze through the toilet.
5. Pour at least one cup of antifreeze into each drain to protect the p-traps.
6. Before using the water system again, thoroughly sanitize and flush the whole system. (See sanitizing instructions in the “Utilities and Systems” chapter.)

BATTERY

Preparation of battery(ies) for winter storage must be carefully considered, especially the auxiliary battery. Component parts attached to a battery will discharge it in one to three months. Discharged batteries are subject to freezing, breaking and permanent damage. If you are storing your motorhome for an extended period, it is important to charge the battery(ies) every thirty days to maintain a charged condition at 1.265 specific gravity. Disconnect and/or remove the battery to prevent minor amp draw. If removed, store the battery in a cool, dry place and maintain the charge. The positive cable must be protected from contacting metal surfaces.



WARNING: If you replace or unhook your battery, ensure that the wires are connected properly whenever it is hooked up: Positive-Black; Negative-White.

PRIOR TO STORAGE



NOTE: If storing for the winter, be sure all winterizing steps are followed. Refer to winterizing section.

- ☐ Drain and flush all holding tanks; fresh water, gray water, black water and hot water tanks.
- ☐ Drain all water lines.
- ☐ Close the LP gas tank valve(s). If your tanks do not already have a cover, purchase at least a vinyl LP tank cover. Make sure the regulator is covered.
- ☐ Disconnect 120-volt electric power to the RV.
- ☐ Remove all batteries from the RV and store in a place where they won't freeze. Batteries that have been frozen will never hold a proper charge.
- ☐ Check your roof and other surfaces to ensure there is no damage and potential leakage that might otherwise go unnoticed until it is too late.
- ☐ Inspect and reseal, as necessary, all sealant and putty tape. Refer to information earlier in this chapter.

- ☐ Turn off 12-volt/120-volt/LP gas to the refrigerator; defrost and clean. Use crumpled newspaper or open boxes of baking soda in the refrigerator to eliminate odors during storage.
- ☐ Remove all perishable items from the interior. Include in this any items that are susceptible to freezing, if storing during the winter months.
- ☐ Cover all external outlets, such as furnace, exhaust, etc. to prevent “critters” from entering.
- ☐ Thoroughly wash the interior and the exterior of your RV.
- ☐ Close all windows and roof vents.
- ☐ Cover tires that are exposed to sunlight to prevent weather checking and other UV damage.
- ☐ Cover the roof air conditioner.
- ☐ Store your RV indoors, under a roof or consider the purchase of a tarp to cover your RV during storage. Make sure you invest in a good tarp that can “breathe.”
- ☐ Turn all cushions on edge to prevent the entrapment of moisture/mildew during long term storage.
- ☐ Do not use hydraulic leveling jacks during storage.

During Storage Period

- ☐ Remove snow loads from the top of your RV to prevent damage to the unit’s structure.

Caution: Excessive snow, 8" or more, or ice, 2" or more, places excessive weight on roof. Remove excessive snow or ice as needed. Care MUST be exercised to not damage the roof material when removing snow & ice. Excessive weight can damage the roof, seals, etc. Water leaks and poor fit or operation are the results of this damage.

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