

[Go To Table of Contents](#)

*Where Tradition and
Innovation Meet*



**Qwest Folding
Camping Trailer**

Owner's Manual

Cunningham Campers, Inc.

5201 Highway 62
Jeffersonville, IN 47130

1-812-284-0276 Option 3



Welcome to our Used Jayco Owners' Group

We Know Jayco Parts!

As a group member you receive **10% OFF** any order for parts, not already on sale. Just call us **with your VIN #** and we will find what you need and ship it directly from Jayco to your front door.

Like Jayco, we are family owned and operated. Our courteous professionals are here to help make your shopping experience as pleasant as humanly possible.

1-812-284-0276

Use Option 3 For Parts

<http://parts.cunninghamcampers.com/jaycoclub>

Cunningham's – Selling & Servicing Jayco RV's for OVER 38 Years!

WARNING: Read all instructions in manual before using your camper.

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 components. Nothing in this manual creates any warranty, either expressed or implied. The only warranty offered by Jayco, Inc. is as set forth in the limited warranty applicable to this vehicle.

The owner's failure to provide required service and/or maintenance could result in the loss of warranty. The owner should review Jayco's limited warranty and the limited warranties of all other manufacturers offering them that are applicable to this vehicle.

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

WARNING: Review the compatibility of your tow vehicle with the trailer you will be towing. You should not exceed the gross vehicle weight rating of the trailer (GVWR). Know your loaded hitch weight and select a hitch that is adequate for that weight. You, as the owner, are responsible for the safety and compatibility of your tow vehicle and trailer selections. Consult your hitch and tow vehicle manufacturers with any questions before you tow your trailer. You are responsible for the maintenance of your tow vehicle and trailer. Do not exceed the tow or cargo capacity of your tow vehicle, and remember that the GCVWR relates to towing capacity and does not necessarily indicate braking capacity. Do not overload your trailer with additions, cargo, or tank fluids to exceed the GVWR of the trailer. Do not load your trailer so that it is unbalanced from front to rear or from side to side. You should clearly understand how your particular tow vehicle capacities are calculated. Make sure your tow vehicle is mechanically sound for your intended usage and pay particular attention to suspension components, tires and tire pressure. We recommend that you use anti-sway devices and weight distributing hitches with all Jayco towable products. Many states have lower speed limit requirements for tow vehicle/trailer combinations. Obey all traffic laws and use your seatbelts at all times. We recommend that you do not exceed 55 MPH when towing a trailer. There are private RV driving schools and some RV clubs offer driving seminars as part of their club activities. Recreation vehicle publications and the Internet can be a source of information regarding RV driver education as well as many other topics to help you learn to safely use your recreation vehicle.

Table of Contents

Introduction to RV Ownership	1
Welcome	1
Safety Considerations	2
Reporting Safety Defects	2
Safety in Using LP Gas	2
Electrical System Safety	3
Safety When Emergency Stopping	3
Additional Safety Considerations	4
Insurance	4
Extended Use	4
Cold Weather Use	5
Condensation	5
Obtaining Service	6
Warranty Registration	6
Service Procedures	8
Basic Service Procedures	8
Dealer	9
Factory	9
Parts	9
Owner's Responsibility	9
Use of Your Folding Camping Trailer	10
Equipment	10
Tow Vehicle	10
Hitches	11
Hitch Height	12
Hookup	12
The Safety Chain	13
Towing	14
Traveling	15
Weights and Cargo Capacity	15
Loading Cargo	17
Weighing Instructions	19
Tires	19
Wheel Lugs	20
Brakes	20
Electric	20
Breakaway Switch	21
Hydraulic (Option for Qwest 12A Only)	21
Backing Your Folding Camping Trailer	22
Breakaway Protection	22
Fire Extinguisher	22
Inspection and Maintenance	23

Soft Shades	23
Setting Up Your Folding Camping Trailer	24
Opening Your Folding Camping Trailer	24
Closing Your Folding Camping Trailer	28
Canopy Setup	30
Screen Room Setup	31
The Systems	32
Plumbing System	32
Fresh Water	32
Water Pressure Regulator	32
Sanitizing Potable Water Systems	33
Drainage - Fresh Water	33
Drainage - Waste Water	33
Winterizing Qwest Folding Camping Trailers	33
Electrical System	34
Changes, Modifications and Additions	34
120-Volt AC System	34
G.F.C.I.	34
Testing Instructions GFCI	35
Air Conditioner (Option)	35
12-Volt DC System	36
Converter	36
Interior	37
Batteries (Option)	37
Battery Charger	37
Trailer Hitch Plug	38
Fuse and Bulb Chart	38
Fuses	38
Bulbs	38
LP Fuel System	39
LP Container	39
Servicing and Filling LP Containers	39
Installing LP Containers	41
OPD Overfill Protection	41
Single Cylinder Mounted on A-Frame	41
Main Supply Hose	42
Regulator	43
Operation	43
Checking For Leaks	44
If You Smell Gas	44
LP Gas Consumption	44
LP Detector	45
Operation	45
Testing	45
Alarm	45
Procedures to Take During an Alarm	45

Alarm Mute	45
Malfunction Alarm	46
Low Power Operation	46
Appliances	47
Stove	47
Handling Stove Assembly	47
Operation of Stove	48
Furnace (Option)	49
For Your Safety	49
Lighting Instructions	50
To Turn Off Gas to Furnace	50
Refrigerator (Option)	51
Points to Remember	51
Operation - N323	51
Controls	51
Electric Modes	52
Ignition – LP Gas Operation (Figure 5-2)	52
Start Up – AC Operation (Figure 5-2)	53
Start Up – DC Operation (3-way Models Only) (Figure 5-2)	53
Shut Down (Figure 5-2)	53
Additional Information on Controls	53
BBQ Grill (Option)	54
Care of Body Components	56
Exterior	56
Aluminum	56
Roof	56
Frame	57
Vinyl Tire Covers (Option)	57
Interior	58
Countertops	58
Hardware and Sink or Shower Fixtures	58
Paneling	58
Floor	58
Fabric Components	59
Definitions	59
Interior	59
Exterior	59
Fabric Care	60
Cushions/Bed Mats	60
SoftShades™	60
Nap Sacks	60
Tents	60
Exterior	60
Interior	61
Canopy	62

Maintenance/Storage	64
Changing The Tire	64
LP Gas Bottles	65
Storage	65
Maintenance Chart	66
Maintenance Checklist	71
Extended Transferable Limited Warranty	75
Towable Transferable Limited Warranty	77
Limited Warranty Transfer Application	79

CHAPTER 1

INTRODUCTION TO RV OWNERSHIP

WELCOME

Thank you for purchasing your Jayco Recreational Vehicle and welcome to the world of recreational 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 you many comforts of home that will make your camping experience as enjoyable as possible. Jayco recreational vehicles are designed, constructed and intended to be used as temporary living quarters for recreational, camping and travel uses, all as defined in the bylaws of the Recreation Vehicle Industry Association. Our recreational vehicles are not intended for the hauling of cargo.**

This owner's manual was prepared to assist you in understanding the proper use and operation of various containment systems, servicing and maintenance of component parts, and explanation of your warranty protection. If you are a newcomer to RV travel, you will especially appreciate the suggestions and "shop talk" information to be found throughout this manual to help you obtain the most pleasure from the use of your vehicle.

The information in this manual reflects the most current available to us at the time of publication. If you find the components in your recreational vehicle vary significantly from what is described in this manual, please disregard that section and follow the instructions provided by that particular component manufacturer. You should carefully read and understand this owner's manual which is a supplement to various other instructions supplied by the manufacturers of separately warranted products. These manuals are included in your camper materials – if you did not receive any or all of the literature for the components, contact your dealer or Jayco customer service for assistance.

Keep this owner's manual in your recreational vehicle for handy reference. Get to know your new vehicle and how it operates. You should carefully read and understand the instructions and information supplied by manufacturers of separately warranted products, since they contain important operating, safety, and maintenance instructions. If you have questions that are not adequately answered by this manual or other booklets, consult your dealer. If he cannot satisfactorily answer your questions, he will call our staff or refer you to us for help.

Every effort has been made to provide you with a safe, dependable product. Your vehicle complies with applicable requirements of Federal Motor Vehicle Safety Standards, State Regulations, Canadian Standards Associations (CSA) where applicable, and complies with requirements of ANSI Standard A119.2, the nationally recognized "Standard For Recreational Vehicles – Installation of Plumbing, Heating and Electrical Systems." The Recreational 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. **Your follow-up with periodic safety inspections and a program of preventive maintenance is important 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.

SAFETY CONSIDERATIONS

The terms NOTE, CAUTION and WARNING have specific meanings in this manual.

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

A **CAUTION** emphasizes areas where equipment damage could result. Disregarding a CAUTION could cause permanent mechanical damage. However, personal injury is unlikely.

A **WARNING** emphasizes areas where personal injury or even death could result from failure to follow instructions properly. Mechanical damage may also occur.

Reporting Safety Defects

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

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHTSA cannot become involved in individual problems between you, your dealer or Jayco, Inc.

NHTSA
U.S. Department of Transportation
Washington, D.C. 20590
Phone: 1-800-424-9393
Washington, D.C. Area: 368-0123

Customer Relations Dept.
Jayco Incorporated
P.O. Box 460, Middlebury, IN 46540
Phone: 1-877-825-4782 or 1-219-825-0608
Business Hours: 8:00-5:00 Mon.–Fri. E.S.T.

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

Safety in Using LP Gas

You should check for leaks at the connections on the LP gas system soon after purchase and initial filling of LP tanks. Continued periodic checks of the system are recommended. Your vehicle was manufactured to provide you with full access to all gas line connections. Leaks can be found with a soapy water solution, which **does not contain ammonia or chlorine**, applied to the outside of the gas piping connections: the soap will bubble at the leak. **DO NOT USE FLAME OR LIGHTED MATCHES TO TEST FOR LEAKS.** Tightening connections will usually stop leaks. If not, ask an authorized dealer's service department to make the necessary tests and repairs.

ALTHOUGH THE MANUFACTURER AND DEALER HAVE PERFORMED TESTS FOR LEAKAGE, THIS CHECK IS RECOMMENDED DUE TO THE VIBRATION ENCOUNTERED DURING TRAVEL.

LP gas is heavier than air, therefore leaking gas tends to flow to low places and will sometimes pocket in low areas, such as the floor of the camping trailer. LP gas can usually be detected by an identifiable odor similar to onions or garlic. Never light a match or allow any open flame in the presence of leaking gas.

It is very important to have the LP gas turned off during refueling of tow vehicles. Some states prohibit traveling with LP gas containers open, especially in underground tunnels.

Never allow gas containers to be filled above the liquid capacity indicated on the container. If a container is overfilled, liquid gas may flow through the regulator causing it to freeze and/or introduce a dangerous excessive gas pressure into the lines. In addition, an overfilled container placed in hot sunlight may expel excess gas through the relief valve and be susceptible to ignition by any nearby open flame.

WARNING: WE STRONGLY RECOMMEND THAT YOU HAVE A PROFESSIONAL TEST YOUR LP SYSTEM FOR LEAKS AT LEAST ONCE A 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 on fixed appliances yourself. If you wish to make changes, consult your dealer and he will assist you in obtaining a safe installation.

An approved power supply cord has been supplied with the vehicle. Always use this cord for hookup to the 120-volt source. Note that the cord has a three pin plug, which provides proper grounding through the third (round) pin. Grounding is your 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.

Safety When Emergency Stopping

Pull off the roadway as far as possible for emergency situations and turn on the vehicular hazard warning flashers. If necessary, display your road flags and/or reflective triangular highway warning devices.

WARNING: Always carry road flags and/or reflective triangular highway warning devices to be displayed when necessary.

Additional Safety Considerations

WARNING: For traveling safety, it is extremely important to read and understand the towing, hitching and loading cargo information provided in Chapter 3. If you do not understand the information provided, please consult your dealer or Jayco owner representative.

- Sanitize the fresh water supply system periodically (see sanitizing instructions).
- Prevent water connection fittings from coming in contact with the ground or drain hose to reduce chance of contamination.
- Enlist services of a qualified or certified RV technician to repair and maintain gas or electrical appliances.
- Always have a serviceable fire extinguisher placed in an easily accessible location.
- Ensure that tires are in good condition and properly inflated. Proper inflation should be monitored closely. Neglecting to do so could result in overheating of a tire, which could result in a blowout.
- Check and tighten wheel lugs after the first 10 miles, 25 miles, and 50 miles (15, 40 and 100 kilometers) when they are new and after a wheel has been removed. Check periodically thereafter.
- Check brakes in a safe area - not while traveling a busy highway.
- Always block trailer wheels solidly before unhitching.
- Never move your unit while people are inside.
- Before leaving a camp area with a trailer in tow, insure that the safety pin or locking lever is seated, breakaway wire is attached to tow vehicle, the jack is raised so that it cannot touch the ground, the dolly wheel removed, 120-volt electrical cord properly stored, safety chains are connected, and all interior lights are off.
- Observe the warning labels attached to your vehicle concerning LP gas, water, electricity and loading.
- Observe the maintenance chart in Chapter 7.

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 dealer will assist you in obtaining appropriate insurance for your protection or you may check with the company which provides your automobile insurance.

EXTENDED USE

This folding camping trailer 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 folding camping trailer could cause accelerated wear and damage to components.

COLD WEATHER USE

Folding camping trailers have no provisions for cold weather use.

- Use in freezing conditions is NOT recommended due to the inability to adequately insulate the tent fabric.
- Proper care should be taken with the fresh water and draining systems to avoid freezing problems. Consult your local dealer or RV supply house for additional material.
- Adequate gas and electrical supply is needed along with protection from possible freeze-ups on the gas regulator.
- During cold weather usage, ventilation or the addition of a dehumidifier may be required to reduce condensation. Reference "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 each of us adds 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 tent, paneling and wood structures.

WARRANTY REGISTRATION

6

INFORMAL DISPUTE RESOLUTION AGREEMENT

I am entitled to receive a copy of this Agreement, and I may review it with my attorney before signing it and anyone making claims on my behalf. Or through mail, that summary and all claims I may have in connection with my recreational vehicle (RV) against any related dealer, manufacturer, or supplier of components parts, including arbitration under the Federal Arbitration Act, 9 U.S.C. § 1-14, to the extent permitted under federal law. I agree that if I have a claim relating to my RV, I will allow the dealer and Jayco to inspect it and make necessary repairs. If my claim is not then satisfied, I will notify Jayco and binding arbitration proceedings will take place. I have paid an initial fee of \$125 to the American Arbitration Association and I consent to pursue my claim in court or in any administrative proceeding. Arbitration will be administered by the American Arbitration Association (AAA), pursuant to its Commercial Arbitration Rules, unless and until Jayco designates a different arbitrator, in which event a notice will be mailed to your last known address. If my claim is less than \$10,000, Jayco will pay the arbitrator fee and arbitrator's fees in excess of \$125, and the arbitrator shall not award damages in excess of \$10,000. If my claim exceeds that amount or is not specified, I will pay one-half of the fees and costs in excess of \$125, if the dealer and Jayco will each pay the remainder and expenses in connection with the arbitration hearing. The claim will be heard by a single arbitrator, and will be held thirty (30) days after the claim is filed. Unless all parties agree in a prior date, the arbitrator shall be selected from a panel named by the AAA, pursuant to its rules. The arbitrator shall be permitted only to award actual damages for known loss and shall not award damages for personal injury, emotional anguish, or other intangible damages or punitive damages. Scenarios of litigation, which would apply as a result of proceeding for my claim, will apply to commencement of arbitration proceedings. If I default on any obligation to a lender in connection with my RV, my lender may exercise all of its rights without regard to this agreement. If I file a claim in court without having first complied with this agreement, I will be required to pay all fees, costs, and expenses, including attorneys' fees, for dismissal or voluntary arbitration. This agreement will apply to me, my heirs and assigns, and anyone who purchases or leases my RV from me or someone or occupies it with my permission or without objection by me. Nothing in this agreement enlarges my rights or creates any right or claim I would not otherwise have. **FOR INFORMATION ABOUT HOW TO FILE A CLAIM OR ABOUT THE ARBITRATION PROGRAM, CALL JAYCO AT 817-823-0908, OR THE AMERICAN ARBITRATION ASSOCIATION AT 800-778-7877.**

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 recreational vehicles. We have found that continuing a pleasant and effective relationship through our dealers is equally as important as maintaining the technical excellence of our product. Your authorized dealer will cordially assist you in providing service maintenance, selection of options and instructions concerning the operation of your vehicle.

Should you have a problem with your folding camping trailer that requires service, please follow these instructions in sequence.

1. Contact your selling 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 dealership should the initial attempt fail with the service department.
3. If further assistance is needed contact:

Customer Relations Dept.

Jayco Incorporated

P.O. Box 460

Middlebury, IN 46540

Phone: 1-877-825-4782 or 1-219-825-0608

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 resolve your problem.

If you are traveling and are unable to locate an authorized Jayco dealer, or an authorized dealer for the component needing service, please call our customer service office at **1-877-825-4782 or 1-219-825-0608** or contact your selling dealer for assistance.

NOTE: Service at a non-authorized Jayco dealer should have prior authorization. You will be asked to return any mechanical parts replaced before reimbursement consideration is made. Unauthorized or improper repairs may void the warranty on that component.

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 dealer level and problems will be resolved with the dealer's facilities and personnel.

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.

Dealer

Your authorized Jayco dealer has inspected and serviced your new Jayco RV and is authorized to service and maintain your folding camping trailer as needed. All warranty repairs are to be performed by the selling dealer unless Jayco gives prior approval.

Some RV dealers may be authorized service centers for certain manufacturers of products warranted separately. Check with your dealer before contacting others to reduce delays. If the your Jayco dealer is not an authorized service center for the product in question, he can assist you in obtaining authorized service.

Factory

A factory service department is operated at our Middlebury, Indiana, manufacturing facility. Should your Jayco RV be in need of repairs and your dealer recommends that the factory make the necessary repairs, it may be returned to our plant upon following these procedures:

- A. You or your dealer must make an appointment prior to returning it to the factory service department.
- B. All transportation costs are the responsibility of the owner. You may need to arrange for alternative accommodations for some types of repairs. Please be prepared accordingly.

Parts

Parts are available at most Jayco dealerships or your dealer can order parts for you as needed. Should you be unable to find a dealer in your local area, contact our Customer Service Department at 1-877-825-4782 or 1-219-825-0608. We will assist you in providing parts through an authorized dealer.

Owner's Responsibility

As a new owner of a Jayco recreation vehicle, you are responsible for regular and proper maintenance. 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 authorized dealer for repairs and service. Reference your Limited Warranty for additional information. Because the 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 the dealership.

CHAPTER 3

USE OF YOUR FOLDING CAMPING TRAILER

In this chapter you will find helpful information to assist you in preparing, traveling and using your folding camping trailer.

EQUIPMENT

Tow Vehicle

WARNING: BEFORE USING YOUR TRAVEL TRAILER ON THE ROADWAYS. Review the compatibility of your tow vehicle with the trailer you will be towing. You should not exceed the gross vehicle weight rating of the trailer (GVWR). Know your loaded hitch weight and select a hitch that is adequate for that weight. You, as the owner, are responsible for the safety and compatibility of your tow vehicle and trailer selections. Consult your hitch and tow vehicle manufacturers with any questions *before* you tow your trailer. You are responsible for the maintenance of your tow vehicle and trailer. Do not exceed the tow or cargo capacity of your TOW vehicle, and remember that the GCVWR relates to towing capacity and does not necessarily indicate braking capacity. Do not overload your trailer with additions, cargo, or tank fluids to exceed the GVWR of the trailer. Do not load your trailer so that it is unbalanced from front to rear or from side to side. You should clearly understand how your particular tow vehicle capacities are calculated. Make sure your tow vehicle is mechanically sound for your intended usage and pay particular attention to suspension components, tires and tire pressure. We recommend that you use anti-sway devices and weight distributing hitches with all Jayco towable products. Many states have lower speed limit requirements for tow vehicle/trailer combinations. Obey all traffic laws and use your seat belts at all times. We recommend that you do not exceed 55 M.P.H. when towing a trailer. There are private RV driving schools and some RV clubs offer driving seminars as part of their club activities. Recreation vehicle publications and the Internet can be a source of information regarding RV driver education as well as many other topics to help you learn to safely use your recreation vehicle.

Consult experts on hitch and tow vehicles before you tow your trailer. Jayco does not recommend or endorse particular tow vehicles or hitch assemblies. Review the compatibility of your tow vehicle with the trailer you will be towing. As a minimum requirement, the gross vehicle weight rating (GVWR) of your trailer must not exceed your tow vehicle's rated towing capacity. Know your loaded hitch weight and select a hitch that is adequate for that weight. You, as the owner, are responsible for the safety and compatibility of your tow vehicle and trailer selections. You are responsible for the maintenance and proper connection of your tow vehicle, hitch assembly, and trailer. Do not exceed the towing or cargo capacity of your tow vehicle and do not exceed the GVWR of the trailer. Make sure your tow vehicle is mechanically sound for your intended usage and pay particular attention to suspension components, tires, and tire pressure. Anti-sway devices and weight distributing hitches should be used with all Jayco towable products with the guidance of a trained hitch installer. Towing a trailer is not the same as driving a passenger car or a single vehicle. Many states have lower speed limit requirements for tow vehicle/trailer combinations. Obey all traffic laws and use your seat belts at all times.

Do not exceed 55 M.P.H. when towing a trailer. Consult an expert for specific driver education when towing a trailer. RV driving schools and some RV clubs may offer helpful driving seminars as part of their club activities.

Begin your camping experiences by using a tow vehicle that will adequately transport your folding camping trailer to and from your destinations. You must use the Gross Vehicle Weight Rating (GVWR) factor as a measuring tool to cross match the capability of your selected tow vehicle. Ford, Chrysler-Daimler and Chevrolet provide trailer towing guides for their products, as do most auto and truck manufacturers. Ask your local automotive dealer for a copy or contact the factory's customer assistance for information. Most tow vehicles have towing packages available as an option and these should be given serious consideration. The condition of the suspension system in your tow vehicle is also important and will affect your trailer's handling. Become familiar with and understand how to properly distribute loads in your trailer and tow vehicle and never overload either unit. Make sure your tow vehicle is in good mechanical condition and maintenance is up to date. When you tow a RV, you must drive differently than you do when driving a single vehicle. Practice hooking up, driving, backing up and braking in a safe environment (with vehicles fully loaded as if for normal travel is possible) or seek out professional instruction. Obey all posted speed limits.

WARNING: Be prepared to drive slower and if you must pass, do so with the utmost care, particularly in strong winds. When being passed by or when passing semitrailers or large buses, be prepared for displaced air, as it can be severe enough to cause trailer sway. Understand how trailer brakes, tow vehicle brakes, acceleration can affect your control of the trailer when you experience trailer sway as well as proper hitches and sway controls.

There are many excellent publications about traveling with a RV. We strongly recommend you make use of available resources at your local library, the internet or bookstore.

Hitches

After choosing your tow vehicle, it is very important to install a hitch system with weight distributing bars to accommodate your coach. This weight selection and installation should be performed by a professional hitch service which may or may not be your selling dealer.

Class II or III hitches are suggested. With the Class III, 350# equalizing bars can be used if installed correctly with the surge brakes. The very equipment which sometimes gives autos, trucks and sport utility vehicles a softer ride can accentuate swaying when pulling a trailer. Conversely, too stiff a suspension can increase vibration, bounce and accelerate wear of your tow vehicle and trailer. It is important that your trailer be level when hitched to your tow vehicle. Educate yourself to protect you, your family and other motorists. An anti-sway device may be needed with some tow vehicle/trailer combinations.

WARNING: We recommend the use of an anti-sway device or sway control for all tow vehicle/trailer combinations.

CAUTIONS:

- Using an oversized or undersized hitch can cause damage to the frame of your folding camping trailer.
- Jayco, Inc. cannot be responsible for the suspension system of the tow vehicle. The final ball height after the camping trailer is completely hooked up is a factor to be considered when towing a camping trailer. To avoid overloading your RV axles and minimize possible handling difficulties, your RV should tow level when hooked to your tow vehicle.
- Do not overload your tow vehicle.

Hitch Height

The correct hitch ball height is listed on the chart below for your folding camping trailer. It is measured with the camping trailer in a level position, measuring from the top of the ball to ground level.

Jayco Incorporated cannot be responsible for the suspension system of any tow vehicle. There are a variety of suspension systems available on tow vehicles today which will effect the ball height, stability and levelness of the RV when hooked up to the vehicle. Make certain your dealer is aware of the type of tow vehicle that will be used so a compatible hookup can be achieved.

Specifications	
All Models	17"

The ball size on all folding camping trailers is 2 inches.

Hookup

Hooking up a camping trailer is not difficult and will become easier with practice. The following procedure will help you until you become more experienced.

1. When closing your folding camping trailer to depart from the campsite (before removing the crank for storage), be sure to place slight tension on the cables of the lifter system by turning the crank in the "UP" movement to make it taut taking caution not to overtighten. Make sure that you have carefully read and understand all of the instructions for closing your camper.

CAUTION: It is very important to place tension of the cable system to prevent them from becoming tangled. If the cables become entangled, it could lead to breakage of the lifter cables when the roof is raised.

2. Turn crank on jack to raise tongue of camping trailer above hitch ball on hitch.
3. Open coupler latch.
4. Back tow vehicle into proper position.
5. Turn crank on jack to lower coupler onto ball hitch.
6. Close coupler latch after completely seated.
7. Install weight distributing bars (equalizers) as per recommendations from hitch supplier, when required.
8. Remove dolly wheel and retract tongue jack to its maximum height.
9. Attach break-away switch cable to tow vehicle.
10. Connect safety chains as shown in Fig. 3-1.

11. Plug the 12-volt DC electrical connector from tow-vehicle to camping trailer.
12. The following items should be inspected prior to your journey:
 - All lights should be in working order.
 - Stabilizer jacks should be in the retracted position.
 - Entrance steps should be in the retracted position.
 - Refrigerator door should be closed and locked.
 - All loose items should be secured.
 - Brakes should be tested for operation prior to entering roadway.
 - Tire pressure should be checked and maintained per the tire pressure stamped on the tire sidewall.

The Safety Chain

There are different safety chain requirements determined by the various state laws. Your vehicle is equipped with chains to meet SAE standard requirements for maximum gross trailer weight. Always have the safety chains attached when towing. Install them as shown below so they do not restrict sharp turns, but tight enough so they do not drag on the ground.

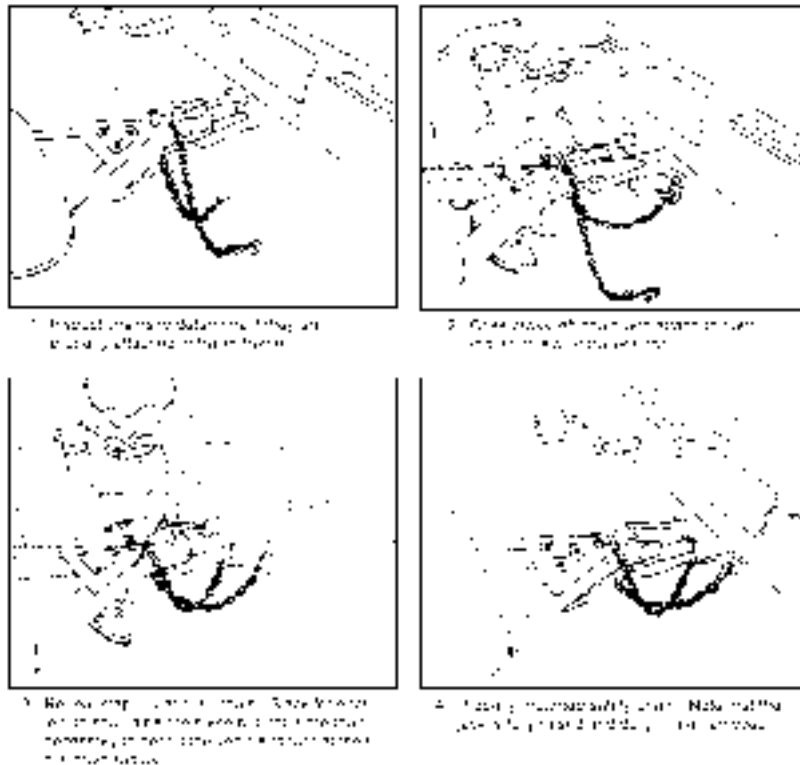


Fig. 3-1

Towing

While towing your Jayco folding camping trailer you need to be aware of the extra weight behind your vehicle. The following lists some pointers to remember while traveling.

- When pulling a camping trailer, you will have slower acceleration and need more distance to stop.
- Ensure you have enough area at corners when turning, as wider turns are necessary. Utilize your turn signals for your own safety.
- When passing or changing lanes, take into consideration the overall length of your RV and allow ample distance and time. **DO NOT SPEED AND BE PREPARED FOR DISPLACED AIR WHEN PASSING OR BEING PASSED BY LARGE TRUCKS.**
- Use your rearview mirrors frequently to observe your camping trailer and traffic conditions.
- When being passed by a large truck or bus, be prepared for displaced air as it may cause you to sway slightly.
- Upon climbing steep, long grades and again descending, use lower gears even before it seems necessary. Use your brakes smoothly and evenly.
- **Decrease your speed for safety!** Most states require cars pulling trailers to maintain slower speeds, usually the same as truck traffic. **DO NOT EXCEED 55 M.P.H.**
- Drive slowly during wet and icy conditions to ensure better control of your vehicle.
- Check all exterior lights before each trip.
- Obey traffic laws, allow extra time for stopping and decrease speed when visibility is limited or roads are wet.
- Have a safe and wonderful trip.

If towing a trailer is new for you. Please take time to practice towing, parking and backing skills prior to traveling. Your dealer can answer many of your question, but nothing replaces practice. We recommend you find a large and quiet parking lot to practice your skills.

TRAVELING

Weights and Cargo Capacity

For safety reasons, it is very important to provide RV owners with the most accurate weight information available. The “Federal Certification” label, located on the roadside front corner of the travel trailer is shown here. The weight terms an owner needs to understand when operating a towable recreation vehicle are defined on the “Trailer Weight Information” label, which will be found on the inside surface of the lower entry door.

The weight provided in the Jayco literature for your travel trailer is based on standard equipment on that particular model and is “dry” (i.e. no liquids or cargo). Remember that any options or personal cargo added must be subtracted from the available cargo capacity. **Never exceed the gross vehicle weight rating of your travel trailer.**

WARNING: Do not add accessories or components that are not safe and appropriate for this product. Jayco DOES NOT provide warranty coverage for equipment installed by dealer or owner for such modifications or additions. Any such modifications effect weight specifications AND CAN ADVERSELY AFFECT HANDLING AND STABILITY OF THE UNIT, AS WELL AS ACCELERATE WEAR TO OTHER COMPONENTS.

MANUFACTURED BY	JAYCO, INC.	DATE		
FABRIQUÉ PAR :				
G.V.W.R. EN RV KG	VIN: NV	PRESS. COOLD INFL.		
	SIZE DIMENSION	PRESS. DE GONFL. À FROID		
GAWR P.N.B.L	TIRE PNEU	REM-DANTE	PSI/LBC	KPA
	FRONT DEVANT			
	INT. CENTRAL			
	REAR ARRIÈRE			
TYPE OF VEHICLE/TYPE DE VÉHICULE	TRAILER/REMORQUE			
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS AND STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE.	CE VÉHICULE EST CONFORME À TOUS LES NORMES QUI SONT APPLICABLES EN VERTU DU RÈGLEMENT SUR LA SÉCURITÉ DES VÉHICULES AUTOMOBILES DU CANADA EN VIGUEUR À LA DATE DE SA FABRICATION CI-DESSUS			

WARNING: Your recreation vehicle's load capacity is designated by weight, not by volume, so you cannot necessarily use all available space when loading the vehicle. Do not exceed your gross vehicle weight capacity and ensure you are loading the unit as evenly as you can for the best possible handling. Ensure heavy items are secured so they do not shift during travel.

TRAILER WEIGHT INFORMATION

VIN or SERIAL NUMBER _____

MODEL _____

GVWR (Gross Vehicle Weight Rating) is the maximum permissible weight of this trailer when separated from the tow vehicle.

UVW (Unloaded Vehicle Weight) is the total weight of this trailer as manufactured at the factory when separated from the tow vehicle. If applicable, it includes full generator fuel, engine oil, and coolants.

CCC (Cargo Carrying Capacity) is equal to GVWR minus each of the following: UVW, full fresh (potable) water weight (including the water heater), full LP-gas weight.

GCWR (Gross Combination Weight Rating) means the value specified by the trailer manufacturer as the maximum allowable weight of this trailer with its towed trailer or towed vehicle.

**The GCWR of this trailer is: Ø

CARGO CARRYING CAPACITY (CCC) COMPUTATION

Pounds / Kilograms (kg.)

GVWR

Minus UVW

Minus fresh water weight of __gallons @ 8.33 Lbs./gal. ...

Minus LP-gas weight of ____ gallons @ 4.24 Lbs./gal.

CCC for this trailer*

*Dealer installed equipment will reduce the CCC.

**This trailer is not recommended or intended to be used to tow any other vehicle or trailer.

CONSULT OWNER MANUAL(S) FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES.

LOADING CARGO

Packing camping gear in your folding camping trailer requires serious consideration. All cargo should be distributed evenly with the heaviest items stored in the lower cabinets. Heavy items must be secured to prevent weight shifts while traveling. Additional weight should be added to either side of the trailer, or behind or in front of the axle in an even manner so the balance and hitch weight of the trailer are maintained.

Observe capacity rating to avoid problems.

WARNING: The rear bumper on the folding camping trailer is not designed to carry additional weight. Never add items such as generators, motorcycle racks, heavy tool boxes, etc. to the back of your folding camping trailer. Channel bumpers can twist, flex, and develop metal fatigue and weld stress. Weight behind the axle lightens the hitch weight and will magnify any sway that occurs when passing trucks or driving in gusty winds. Excess weight may cause a severe sway that you may not be able to control. Damage to your property can occur and also endanger vehicles following your camper during travel and could possibly cause an accident. Towing a trailer behind your Jayco trailer or overloading the rear may result in damage to your trailer or to the added items or cause towing difficulties, resulting in property damage or personal injury.

CAUTION: Damage from add-on equipment or improper loading is not covered by your Jayco Limited Warranty.

Your Jayco folding camping trailer roof has a weight limit of 350 pounds (160 kilograms) in the travel mode. The maximum weight that can be lifted is 250 pounds (115 kilograms). To assist in calculating the weight of options available, we provide the following guide.

NOTE: Weights of canopies, bike or boat racks, are based on Jayco provided brands, and are empty weights. If you purchase other brands, obtain their weights from their representatives.

	POUNDS	KILOGRAMS
Canopy	26-31	12-14
Bike Rack	41	19
Boat Rack	26	12
Additional bike kits	18	8
13,500 air conditioner	Average 100	45

WARNING: Never attempt to raise the camping trailer roof with removable cargo still in place. The maximum weight that can be lifted is 250 pounds (115 kilograms). The 250 pounds (115 kilograms) includes all attached options such as: bike rack, canopy, air conditioning and boat rack.

Never mount a storage pod directly to the roof. It is necessary to provide a rack system which secures to the outer edges of the roof to support and evenly distribute the weight of the storage pod. Consult your dealer for proper installation.

Never walk on the roof. The roof of a folding camping trailer is not designed to accommodate the weight, scratches, dents and punctures that can occur from walking on the roof.

Weight distribution is very important. Improper distribution, as well as overloading the camping trailer can cause poor handling and sway during towing. Heavier items should always be packed over or in front of the axles. Personal cargo should be evenly distributed throughout the camping trailer. When installing a bike rack it should be centered over or in front of the camping trailer axles.

CAUTION: NEVER attempt to raise the camping trailer by placing a jack under the axle. Lifting the trailer by this method may alter the camber in the axle causing permanent damage.

Option Weight Listing

(Approximate Added Weight Listed in Pounds)

	QWEST 8		QWEST 10		QWEST 12	
	POUNDS	KILOGRAMS	POUNDS	KILOGRAMS	POUNDS	KILOGRAMS
Convenience Group	39	18	39	18	39	18
Spare Tire	24	11	24	11	34	15.5
Electric Brakes	30	14	30	14	30	14
Hydraulic Brakes	N/A		N/A		48	21.7
Canopy	26	12	28	13	31	14
Deluxe Screen Room	16	7	17	7	21	10
Screen Room	16	7	17	7	21	10
Furnace	19	9	19	9	19	9
Refrigerator	41	19	41	19	41	19
Air Conditioner	110 max.	50	110 max.	50	110 max.	50
Self Storing Step	19	8.6	19	8.6	19	8.6
U-Shaped Dinette	10	5	N/A		10	5
Extra Table (10X & 12A only)	N/A		25	11.3	25	11.3
BBQ Grill	20	9	20	9	20	9
Kid Stuf Cargo Bunk Organizer	10	5	10	5	10	5
OutStor™ Storage Package	12	5.4	12	5.4	12	5.4

NOTE: Other small option items are 5 pounds (2 kilograms) or less.

NOTE: LP Gas weighs 4.25 lbs. (1.93 kilograms) per gallon.

Water weighs 8.32 lbs. (3.77 kilograms) per gallon.

NOTE: Certain options are not available on all models or may be standard equipment on others.

WEIGHING INSTRUCTIONS

To properly weigh your recreation vehicle, it should first be weighted, including the tongue weight, while detached from the tow vehicle. This actual overall weight must be less than or equal to the GVWR for safe operation. If the overall weight is greater than the GVWR, some contents must be removed until maximum GVWR limitations are achieved. Once the actual overall weight is determined and the recreation vehicle is within GVWR limits, the following weights should be determined:

1. The weight of complete recreation vehicle, while attached, but excluding the tow vehicle. This will result in the actual weight which is exerted on all of the recreation vehicle tires. This weight may be subtracted from the overall recreation vehicle weight (above) to determine actual "tongue" weight.
2. With the recreation vehicle still attached to the tow vehicle, each wheel position should then be weighed separately to be sure each tire is not overloaded.

To determine the wheel position weight:

- Pull the recreation vehicle onto the scale so that only one tire is on the scale. Record the weight. Your trailer 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.
- To calculate the opposite side of the vehicle wheel position weight, subtract the first side's weight from the weight determined in step #1.

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 GVWR. It is important to redistribute the load to avoid component failure, as well as to improve the handling characteristics of the vehicle.

TIRES

The tires of all Jayco camping trailers are supplied by companies for RV use, and tested under D.O.T. standards at allowed speed limits on highways. They are constructed of nylon cord designed to offer strength and extra mileage in various types of weather. The air pressure should be kept at its recommended pressure, which is stamped on the tire sidewall. Always check the tires when they are cold. As tires are in motion, temperature will rise and air pressure will increase. DO NOT release air pressure as tires become hot, as the tires will then be under-inflated as they cool.

WARNING: It is recommended that the tire pressure be checked at the beginning of each journey to obtain the maximum life of the tires. Underinflated tires may overheat and fail or detach from the rims

Tire Chart MODEL	TIRE SIZE	LOAD RANGE	MAXIMUM LOAD
Qwest 8 & 10	5.30 x 12	C	1045
Qwest 12	175/80R x 13	C	1360

INFLATION: Always follow the inflation guidelines printed on the sidewall of the tire for maximum load capacity.

Any replacement of tire MUST be rated equal to original tire in maximum load capacity.

WHEEL LUGS

Your Qwest folding camping trailer is equipped with 12" or 13" tires depending on which model you own. When the wheels are installed on your trailer, the lug nuts must be tightened according to the following specifications:

12"	85-95 foot pounds of torque
13"	50-75 foot pounds of torque

WARNING: Axles on camping trailers do not drive or steer as automobile axles do. The motions involved in being "trailerred" adds stress that can loosen lug nuts, especially during the break in period. Wheel lugs can work loose. Check and tighten wheel lugs every 10 miles, 25 miles and 50 miles (15, 40 and 100 kilometers) when the camping trailer is new or a tire is changed, and then check and tighten after periods of extensive breaking (such as coming down a steep grade) and every 3000 miles (5000 kilometers).

After your first trip, check the wheel lugs periodically for safety. The wheel lugs should then be checked after winter storage, before starting a trip, or following extensive braking. Overtightening can distort wheel. Please observe the above recommendations for your safety and that of others. Size of lug nuts are 1/2" with 13/16" head.

BRAKES

A controller should be installed below the dashboard of your tow vehicle to work in conjunction with the folding camping trailer brakes. Two types of controllers are available. The "hydraulic" controller operates through a steel line attached to the master cylinder of the tow vehicle's brake system. The "electronic" controller, operates using electrical current. Reference the operating instructions provided with the controller for adjustment and operation procedures. Practice coordinating the trailer brakes with the tow vehicle brakes before towing your vehicle at higher speeds or significant distances. Employing the trailer brakes before the tow vehicle brakes will reduce swaying.

Electric

Electric brakes on your recreation vehicle are designed to work in conjunction with the hydraulic brakes on your tow vehicle. This means that in order to have the best brake performance on both systems, the trailer and tow vehicle must perform and operate together. Any attempt to use either brake system alone will cause accelerated wear and damage.

The battery in the tow vehicle is the primary power source that operates the brakes in your folding camping trailer. Keep your battery and charging system in working operation to ensure available energy when required.

From the battery, power is sent to the controller to provide the correct amount of current to brake the folding camping trailer. Use the tow vehicle's brake pedal control for general operation on combined use of both brake systems. The controller's manual control is to be used only in special situations such as indicated in the instructions supplied with control. In the open position, the manual control breaks the electrical current preventing brake engagement. When in the closed position, electrical current will flow to brake assemblies.

Wiring to operate your brakes must be sized in both vehicles, suggesting a minimum of 14 gauge. Your camper has 14 gauge wire from front end to brakes.

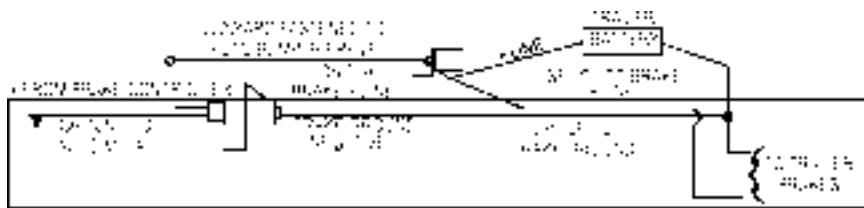
Brake assemblies are wired in parallel, never in a series. Being parallel, there will be equal voltage and amperage at each brake assembly for equal braking capability and/or performance.

WHEN YOUR FOLDING CAMPING TRAILER IS NEW IT IS IMPOSSIBLE TO ADJUST YOUR BRAKE SHOE PRECISELY. IT TAKES APPROXIMATELY 1,000 MILES AND/OR 50 MEDIUM TO HEAVY STOPS TO “BURNISH” FIT OR SEAT THE SHOES TO DRUM. AFTER THIS INITIAL BREAK-IN, YOU CAN NOW ADJUST YOUR SHOES ACCURATELY FOR BEST PERFORMANCE AND INCREASED DURABILITY.

Breakaway Switch

The breakaway switch is one of the most important parts of your trailer electric brake system. The very instant a breakaway occurs, the pull pin which is linked to the tow car, is pulled from the switch. The two contacts automatically close to complete the electrical circuit and apply the trailer brakes. This system will apply the brakes of the trailer should it break away from the tow vehicle. A 12-volt battery is required to power the breakaway switch.

WARNING: NEVER use the breakaway switch and trailer brake system as a parking brake. Usage in this way would place undo strain on the battery and converter, potentially causing damage to the wiring, connectors, and breakaway switch.



Breakaway Switch Schematics

Hydraulic (Option for Qwest 12A Only)

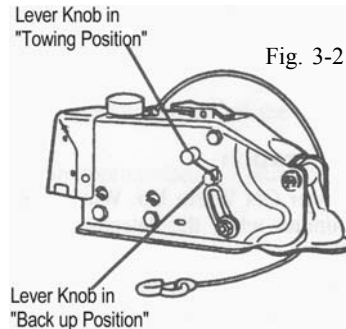
Your folding camping trailer may be equipped with hydraulic surge brakes. These brakes operate automatically as the tow vehicle's brakes are applied. When the tow vehicle operator begins to decrease speed and apply the brakes, the weight of the moving folding camping trailer pushes forward and the coupler moves downward. This pressure moves the plunger, which in turn pushes the piston and rubber cup inside the master cylinder. Brake fluid presses inside of the wheel cylinder and activates the brake shoes against the drum.

Backing Your Folding Camping Trailer

As designed, the weight of a folding camping trailer pushing forward will activate the surge brake system. When backing a camper up a hill, the weight of the camper may activate the brakes, making it difficult to continue to reverse.

1. Prior to backing up a slope or through soft ground, pull the folding camping trailer forward slightly to assure that the actuator socket is in the forward position.
2. Move the lever (Fig. 3-2) knob on the side of the actuator downward from the “towing position” along the curved slot in the actuator frame to the “backup position.” The slot has a notch at the bottom of its travel. Push the lever down to engage the locking notch.
3. The folding camping trailer will now back up. This lever knob will slide into the correct position when pulling forward.

NOTE: It is extremely important to keep the master cylinder full at all times. An empty cylinder invites moisture.



Breakaway Protection

The hydraulic brake system is equipped with a breakaway cable or chain. When towing, this cable or chain should be attached loosely to a frame member of the tow vehicle, leaving enough clearance so that the folding camping trailer can turn freely without actuating the breakaway device.

Should the trailer separate from the tow vehicle, the breakaway cable will actuate the master cylinder, locking the brakes. This will stop the folding camping trailer in the shortest possible distance.

CAUTION: Breakaway protection should be fully released during the vehicle operation. Check this before towing. Do not use the breakaway protection as a parking brake.

FIRE EXTINGUISHER

A fire extinguisher is installed in each vehicle and is located near the entrance door in the travel trailer. Be familiar with its location and operating instructions as printed on the extinguisher. It's 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. The agent contained in this extinguisher 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.

SOFT SHADES

Soft shades are located at each window and can be opened and closed by pressing the small buttons on each side of the black locks and drawing drape up or down to the desired position.

WARNING: Keep soft shades in the upper most position while cooking on the range top to prevent fire hazards.

WARNING: Never leave small children in the camper unattended. Children can become entangled in the soft shade cords.

SETTING UP YOUR FOLDING CAMPING TRAILER

WARNING: Never leave your folding camping trailer plugged into the 120-volt AC outlet while it is folded down. This would make the converter continue to run which can cause overheating and present a fire hazard.

Opening Your Folding Camping Trailer

After parking your Jayco Folding Camping Trailer, disconnect the camping trailer from the tow vehicle. The camper should be on level ground and the tires blocked so it will not roll away. **DO NOT USE YOUR STABILIZER JACKS TO LEVEL THE CAMPING TRAILER. THEY ARE INTENDED TO STABILIZE THE UNIT AND WILL NOT SUPPORT ITS WEIGHT.** If your camper is not level, you may experience some difficulty with its set up, particularly with the fit of the entrance door.

IMPORTANT:

We recommend that well in advance of any trip, you set up your folding camping trailer and using a garden hose, thoroughly soak the tent with a light spray of water. After the tent dries, repeat the soaking process three additional times. This process seasons the canvas and seams. **DO NOT** spray directly on the canvas with a high pressure hose. If you do not follow this procedure, you may experience some water seepage during the first few exposures to rain. Let tent dry thoroughly before storing to prevent mildew and odors. If you note any water seepage or leaks after seasoning your tent, let the tent dry, then spray water repellent on the **INSIDE** of the seams where seepage occurs. One or two applications of water repellent may be necessary to stop all water seepage in seams where thread enters the fabric. **NOTE:** Touching the tent canvas when it is wet can cause leakage. If leakage persists, please contact your dealer for assistance.

1. Unfasten each roof latch (Fig. 3-2).

CAUTION: Never attempt to crank the roof until all roof latches are unlocked and free (Fig. 3-2). **NEVER LIFT ROOF WITH CARGO IN PLACE.**

2. Insert the crank into the square tube located at the front of the A-frame behind the coupler, and turn clockwise to raise roof (Fig. 3-3).
3. Raise the roof until the tent is loosely extended.

NOTE: At this point, the roof needs to be high enough to ensure that the tent will not be in the path of the bed slide during the bed setup.

4. Lower stabilizer jacks (Fig. 3-5) by placing provided jack crank onto jack shaft and turn clockwise to lower. Lower jack until the frame begins to rise slightly. Equalize the stabilizer jacks for best support. You may need to adjust the stabilizer jacks two or three times.

NOTE: Road dirt and grime will sometimes make jacks difficult to operate. You may need to clean them before operating. To maintain stabilizer jacks keep clean and lubricate twice a year using only silicone lubricants. Oils will attract dirt and cause additional problems.

Do not place excessive weight on these jacks as they are intended to stabilize, not support the camper. The camper should be level.

NOTE: The bed braces are stored under the bed mattress (Fig. 3-7).

5. On folding camping trailer models that use a curved or preformed bed brace, place the support into position before pulling the bed out. Place the other end of the bed brace into the bracket attached to the front wall (Fig. 3-10).
6. Pull the end bunk beds out until the rail hits the bed stop. Distribute the awning panel over the bunk and place corners of the tent over the corner of the bed. Make sure the beds are extended fully.

WARNING: Do not use bed support poles if bent or damaged. Replace all damaged support poles.

7. Place flattened end of the straight bed braces into the brackets provided on the A-frame in front and on the bumper in rear (Fig. 3-10). Place the angled, smashed end of the straight bed braces into the bed brackets near the outer corners under the plywood bunk beds.
8. Complete raising the roof until gray limit cable is almost tight and the tent is almost taut. DO NOT OVER TIGHTEN (Fig. 3-4).

CAUTION: If the limit cable is raised too high, lifter system/tent damage could occur and the door will not fit properly.

NOTE: Once the roof is raised, if it is not level, use the bolt just below the rear bumper (Fig. 3-6) to adjust the rear end of the roof. To raise the rear of the roof, tighten, or turn clockwise, the nut on the bolt. If the rear of the roof needs to be lowered, loosen, or turn counter clockwise, the nut. This adjustment will not affect the front of the roof.

9. Enter unit, and insert the bow brace into the saddle plug (Fig. 3-8). Push the bow brace outward and upward while pressing the button farthest from the curved end of the bow brace and slip end into bracket mounted on the roof only past the first button. Release button (Fig. 3-9).
10. Unlatch the twist locks holding the door to the roof (Fig. 3-11). Swing down the double hinged, self-storing screen door. Drop channel of the lower edge of the screen door over the entrance door, guiding locating pins into the doorjamb extrusion (Fig. 3-12). If the door does not align properly, check the stabilizer jacks to make sure they are adjusted correctly and check to see if the camping trailer is level.
11. Insert canvas around the screen door by folding the hard edge of tent over 180° and inserting this portion into channel of the screen door starting at the bottom. This assures the best possible fit (Fig. 3-13).
12. Set up the kitchen flip top.
13. Exit the unit and pull the bed flaps over the corners of the bed until flaps are extended under the bed. Securely attach the Velcro.

WARNING: Ensure that all Velcro fasteners are mated and securely fastened. Loose areas could result in openings large enough for an infant, child or adult to fall through. Never leave small children in the camper unattended.



Fig. 3-2



Fig. 3-3



Fig. 3-4

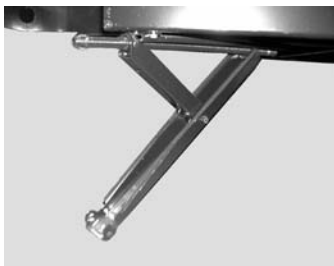


Fig. 3-5

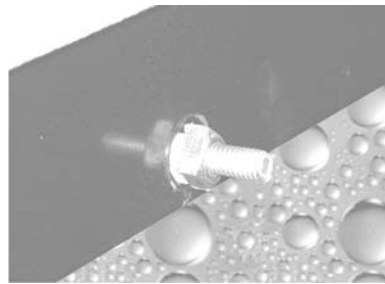


Fig. 3-6

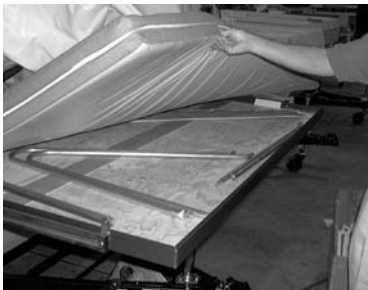


Fig. 3-7

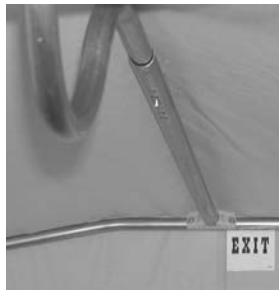


Fig. 3-8



Fig. 3-9

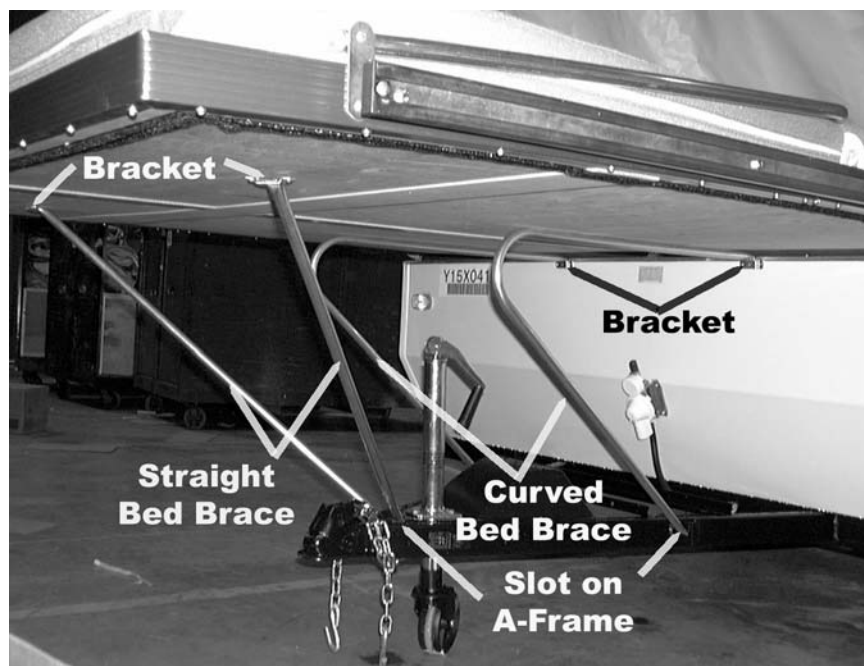


Fig. 3-10



Fig. 3-11



Fig. 3-12



Fig. 3-13

Closing Your Folding Camping Trailer

INSIDE

1. Enter folding camping trailer and remove canvas from screen door by pulling canvas away from channel, beginning at the TOP of door, proceeding to bottom. (Fig. 3-12)
2. Swing screen door up to roof and latch the twist locks. (Fig. 3-10)
3. Zip all windows closed.
4. Roll all privacy drapes to the ceiling by pressing both buttons on either side of the black locks and drawing the locks upward.
5. Remove bow braces from bracket on the roof and pull brace to center of camping trailer. Remove from saddle peg on bed bow. Place bows under bed mattress.
6. Remove stove.

OUTSIDE

7. Raise the stabilizer jacks (Fig. 3-5) to their upright position. Insert the crank and turn counterclockwise until the jack is tight, then turn the crank an additional 1/8 of a turn (snug tight).
8. Unfasten Velcro bed flaps.

CAUTION: DO NOT push bed in until ALL Velcro is detached. Push bed in COMPLETELY before beginning to lower roof. Failure to push the bed in completely BEFORE lowering roof can damage tent components. Your Jayco Limited Warranty does not cover this damage.

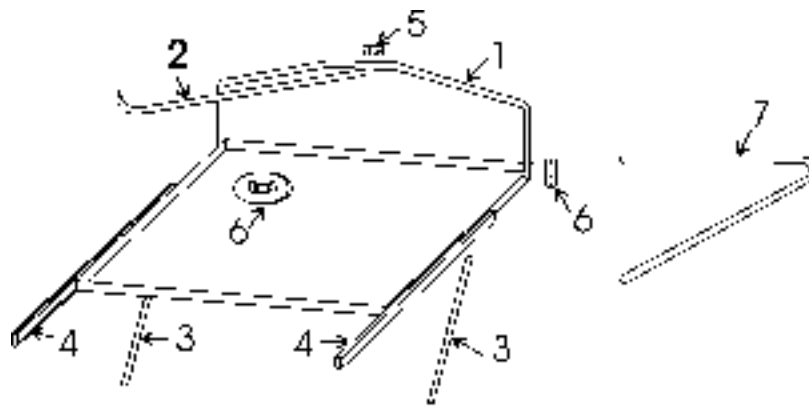
9. Remove straight bed braces and push beds in carefully and completely.
10. Remove curved bed braces. Place all braces under bed mattresses carefully. (Fig. 3-6)
11. Lower roof half to two-thirds down. Reach inside and distribute awning panel of tent and drape EVENLY across beds.
12. Continue to lower roof until final 6-8" (10-15 cm). Using both hands and arms, push tent from each side, front and rear, into the center of camper evenly and carefully continue to lower roof.
13. Attach roof latches to clips. Due to air pockets, the roof may need to be pushed down with your hand the last 1-2" (3-5 cm).
14. Before removing crank, tighten cable system by turning crank in the "UP" movement to make it taut taking caution not to overtighten. This will place slight tension on the cable system and avoid cables becoming loose and entangled.

CAUTION: It is very important to place tension on the cable system to prevent them from becoming tangled. If the cables become tangled, it could lead to breakage of the lifter cables when the roof is raised.

15. Remove crank and place in storage area inside folding camping trailer.
16. Fasten roof latches.

CAUTION: Excessive snow, 8" (20 cm) or more, or ice, 2" (5 cm) or more, places excessive weight on roof. Such excessive quantity of snow or ice should be removed as needed. Care **MUST** be exercised as not to damage 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.

Parts List For Beds



- | | |
|--------------------|----------------------------------|
| 1. Bed Bow | 5. Saddle Plug |
| 2. Bow Brace | 6. Bracket |
| 3. Bed Brace | 7. Curved Bed Brace (used on 70" |
| 4. Steel Bed Slide | beds in addition to part #3) |

Fig. 3-13

CANOPY SETUP

Your canopy has been designed and built with quality material to give you years of trouble free service with low maintenance.

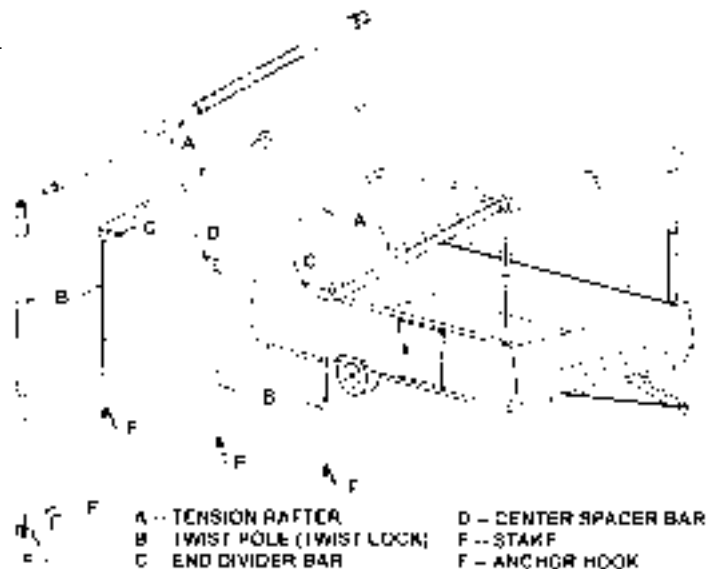
Read these instructions fully before beginning setup. Become familiar with each pole, its description and where it belongs. Refer to Fig. 3-14.

One person can do the setup, but two people will make it easier.

1. Open zipper and unroll canopy fabric.
2. Insert the two end divider bars "C" (with gray caps) and center spacer bar "D" (7/8" tube) into front pocket of the canopy. These bars may be left in the canopy during travel or storage, but should be removed during winter storage to avoid corrosion.
3. Assemble the two parts of a tension rafter, Pole "A." Insert the peg through the "eye" of the twist pole "B" and then through the hole in the middle of the center spacer bar "D." Compress tension rafter and place in the center of the roof side board, as pictured. The metal tip from the tension rafter will rest against the roof metal or the canopy bag.
4. If no screen room is being installed, repeat step #3 on the front and rear tension rafter, inserting the end of the tension rafter through twist poles "B" and the end divider bars "C." Position tension rafter as in step #3.
5. After all the poles are installed:
 - a) Adjust the canopy to fit properly.
 - b) Adjust the height of the canopy with the twist lock poles.
 - c) Install the three stakes to anchor the canopy in case of strong winds.

CAUTION: Always install the stakes to avoid wind damage to the poles and the fabric. In severe wind it is best to remove the canopy. Wind and rain damage are not covered by warranty.

Fig. 3-14



SCREEN ROOM SETUP

1. The canopy must be setup through step #3 before attempting to attach the screen room. (See Canopy Setup.)
2. Open, unfold and spread screen room under canopy area. Enclosure must be on the outside of the twist poles. A grassy area or clean floor is suggested.
3. Each upper side panel has a pocket sewn into fabric. Slide a two-piece tension rafter into pocket with the white crutch tip to be placed against side panel of the roof. Insert crutch tip at outer edge, and push in toward unit.
4. Insert peg through the “eye” of the twist pole “B” and then through the hole at the outer end of end divider bar “C” (Fig. 3-14). The white rubber crutch tip will rest against roof metal or the canopy bag. Install both ends.
5. Attach the Velcro hook sewn to the inner side of canopy to the Velcro loop sewn to the outer side of the screen room, full length.
6. Ensure all snaps are secure, fastening skirt to frame of unit.
7. Attach Velcro from skirt to Velcro on screen room lower corners.
8. Adjust three twist poles “B” (Fig. 3-14) so bottom of screen room is just touching the ground.
9. Install the 7 stakes through the screen room loops to protect against wind damage.

CHAPTER 4 THE SYSTEMS

PLUMBING SYSTEM

Fresh Water

1. A five-gallon portable water container is located inside the cabinet nearest the sink. A 3/8" non-pressure hose is attached to the container.
2. A ten gallon water tank is permanently installed in your camper. To fill the tank, open the lid as shown. (Fig. 4-1) Insert or hold the water hose and fill to the desired capacity. The tank has an overflow outlet, but care must be taken to not overfill it.



Fig. 4-1

CAUTION: Overfilling the container can potentially pressurize it and cause leakage.



Fig. 4-2

3. Water may be received into the system through a direct hookup, referred to as "city water connection," (Fig. 4-2) when attached to entry supply and water hose.
4. Operation of hand pump:

Tank Water - place handle into vertical position, using short strokes. Allow 10-20 seconds to prime pump and fill the water lines before filling sink.

City Water - move handle down slowly to open "CW" valve. Hold in this position for quick use. Press down completely to lock for continuous water flow.

WARNING: Handle should be in the TANK WATER position when connecting city water to avoid city water spill.

Depress handle while traveling. Spout will swivel over 90° for your convenience. The spout is NOT a handle.

WATER PRESSURE REGULATOR

Due to the possible existence of high pressure in some campgrounds (80 pounds per square inch (psi) and higher) you may wish to use a removable water pressure regulator. Water systems in RVs are tested at 100 psi as specified by RVIA codes.

CAUTION: Not using a water pressure regulator when using the city water connection may cause the o-rings to blow. It is advisable to always utilize a water pressure regulator with the city water connection.

SANITIZING POTABLE WATER SYSTEMS

To assure complete sanitation of your potable water system, it is recommended that the following procedures be followed on a new system, one that has not been used for a period of time, or one that may have become contaminated.

1. Prepare a chlorine solution using one gallon (3-4 liters) of water and 4 teaspoons of household bleach (5% sodium hypochlorite solution). Pour this solution into tank.
2. Complete filling of tank with fresh water. Open each faucet and drain cock until all air has been released from the pipes and entire system is filled.
3. Allow to stand for three hours.
4. Drain and flush with potable fresh water.
5. To remove any excessive chlorine taste or odor which might remain, prepare a solution of one quart vinegar to five gallons water and allow this solution to agitate in tank for several days by vehicle motion.
6. Drain tank and again flush with potable water.

CAUTION: Chlorine solution concentrations exceeding recommended levels may damage the water system.

DRAINAGE - FRESH WATER

Portable water containers need to be removed from cabinets and physically emptied.

DRAINAGE - WASTE WATER

Connect a hose to the drainage outlet (Fig. 4-3) and drain sink either to a container to hold waste water or to a direct sewer inlet supplied by some campgrounds. Most campgrounds and some states prohibit sewer water drainage onto the open ground.



Fig. 4-3

Winterizing Qwest Folding Camping Trailers

1. Drain tank. The remaining small quantity of water in a plastic tank will not damage tank by freezing.
2. Ensure all water has been drained from the hand pump by using an up and down motion. No antifreeze is needed for hand pumps.
3. Pour one pint of nontoxic antifreeze into trap to ensure that the small amount of water left in trap assembly does not freeze.
4. Faucets should be left in the open position to allow air movement until dry.

WARNING: DO NOT use Ethylene Glycol (automotive antifreeze) or Methanol (windshield washer antifreeze) in your fresh water system because they are harmful and MAY BE FATAL if swallowed. USE ONLY NON-TOXIC ANTIFREEZE.

ELECTRICAL SYSTEM

The electrical system in this folding camping trailer is composed of 120-volt AC (alternating current) and 12-volt DC (direct current) capabilities. All installations are made in compliance with safety requirements of ANSI standard A.1192, National Electric Code, and Canadian Standards Association.



Changes, Modifications and Additions

Any changes or additions made after delivery may cause a hazardous condition. Be sure to consult your local authorized dealer. Only qualified electrical technicians should attempt to make changes or additions to our electrical system, using only approved materials, components, and employing approved methods of installation, which meet safety and code requirements.

120-Volt AC System

Your folding camping trailer is equipped with a power cord prewired into the converter. By opening cable hatch door (Fig. 4-4) you can pull the power cord out from compartment and attach to a power supply. Power cord is rated at 30. For Canadian units, the power cord is protected with a 30 amp main circuit breaker. This supplies 120-volt AC power to camping trailer receptacles built into walls and cabinet. Cord extends at least 20' from camping trailer depending on floor plan.

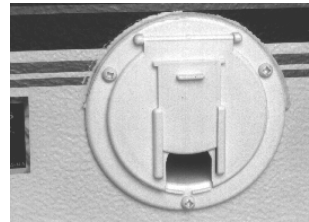


Fig. 4-4

It is strongly recommended to avoid the use of extension cords. If an extension cord is used, it MUST be the same amperage rating as the RV power cord. Using an improper extension cord will cause overheating of the cord and equipment as well as possible causing premature failure of the AC equipment.

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 a non-grounded, two-prong receptacle. Any deviation from this will potentially cause a fire from overheating.

G.F.C.I.

Each unit contains a Ground Fault Current Interrupter (G.F.C.I.) outlet. This special breaker 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.

The G.F.C.I. breaker 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.

When the G.F.C.I. 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 special breaker should be tested monthly while the camping trailer is being used. See the manufacturer's owner's manual for more instructions.

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. When plugged into a receptacle with no provision for the third pin, use an adapter with a pigtail that can be connected to the receptacle box, with the grounding circuit completed through the ground pin or RV park receptacle box. Any accidental short of a live circuit conductor will trip the circuit breaker indicating a shorted circuit. You should be certain 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.

TESTING INSTRUCTIONS GFCI

1. Plug a lamp or radio into the receptacle on the face of the GFCI.
2. Push and release the RESET button.
3. The lamp should light at this time.
4. Press the TEST button.
5. RESET button should pop out indicating "trip" and the lamp should go out. (If the GFCI is manufactured with an indicator light, the light should glow when the device has tripped.)
6. If the GFCI did not trip, do not use. The ground fault protection is no longer working and the GFCI may not be working properly.
7. If the GFCI did not trip, call a qualified electrician. Do not use until an electrician has serviced this device.
8. To restore power after tripping, press in the RESET button. It must remain in. (If an indicator light is furnished, it will be off.)

Air Conditioner (Option)

To meet State, National, and RVIA codes as well as support from manufacturer of camping trailers, you need to have installed a special kit to provide proper operation and energy for successful enjoyment. To comply with all applicable codes, it must have the following:

1. 20-amp receptacle with 12 gauge wire.
2. 20-amp power cord to feed air conditioner.
3. Two twist caps.

The weight limit for air conditioners is 110 pounds. Exceeding this weight can damage the roof and lifter system which will not be covered by your Jayco Limited Warranty.

DuoTherm and RVP brands usually are acceptable for folding camping trailer roof installations. Other brands may be used if the weight is 110 pounds or less and the interior shroud fits around the roof components.

BTU	Kilojoules	DuoTherm BriskAir		DuoTherm Penguin		Coleman		
		Lbs.	Kg.	Lbs.	Kg.	Lbs.	Kg.	
7,100	7,490	74	33.6	88	39.9	75	34.0	Use #6727
11,000	11,605	92	41.7	104	47.2	92	41.7	Use #6757 A, D, or E Series
13,500	14,243	96	43.5	109	49.4	95	43.1	Use #6757 A, D, or E Series

WARNING: Any electrical installation that does not meet the criteria may damage the electrical system and cause problems which will not be covered under your Jayco Limited Warranty.

WARNING: Follow the wiring listed below as it attaches to the air conditioner.

Outer Smooth Protective Covering	=	Positive Black
Outer Ribbed Protective Covering	=	Neutral White
Center Smooth Protective Covering	=	Ground Green

Failure to wire as specified will send reversed polarity in the air conditioner, causing a potentially dangerous situation with the possibility of fire.

Follow the air conditioner installation instructions as supplied with the air conditioner. Connect the 20-amp power cord to the air conditioner as listed above warning. Notch the interior air conditioner shroud so the cord can pass between it and the roof. Using a p-clamp, secure the cord to the outer edge of ceiling and let it hang down the side of the tent. It is code violation to run the 120-volt cord through a conduit of any type of covering. The cord must be visible.

12-Volt DC System

The 12-volt DC system is composed of numerous items such as converter, battery, fuses and lights. Explanation on these items will follow in this section.

CONVERTER

The converter utilizes 120-volt AC power and transforms this energy into 12-volt DC power, which is used inside of the camper. 12-volt DC energy supplies power to all lights, furnace blower, and water pump (option).

The converter is a technologically advanced 12-amp PWM “switch mode” type, that can be used with computers. It is self-contained with built in circuit breakers and DC fuses. A quiet cooling fan provides ventilation and is thermally protected to shut down and cycle back on if overheating occurs.

WARNING:

- Turn off all interior lights before folding the camper for transit as the bulbs may cause a fire hazard in the folded position and burn holes in tent.
- Do not block converter ventilation.

Interior

All 12-volt DC power comes from the converter or the black lead in the wire harness from the tow vehicle battery. Remember, to receive power from the converter you must have a 120-volt AC energy source available. 120-volt AC power may be turned off or on by switching the 120-volt AC breaker in the converter.

Batteries (Option)

All Jayco folding camping trailers are pre-wired to accept an auxiliary battery if so desired. The battery must be hooked up directly to red (positive) and white (negative) wires on trailer hitch, harness and frame using nothing less than 10 gauge wires.

The auxiliary battery may be installed to avoid discharging tow vehicle battery when 120-volt power is not available.

Camping trailers with power lift system will have a battery and box installed as part of the option package.

All battery packages installed by the manufacturer will have an “in-line” fuse and holder included for protection.

CAUTION: When drawing current from the tow vehicle battery, be sure to avoid draining battery to a low point that the tow vehicle will not start.

All Jayco folding camping trailers have ceiling light circuit directed through a master shut-off switch to prevent 12-volt DC current flow to ceiling lights with roof lowered. Periodically test light and switch to be sure switch adjustment is correct. Switch is located along bottom edge of roof on roadside.

WARNING: The converter output is not intended to power the optional 3-way refrigerator. When the fold-down is parked and the power cord is plugged in, set the 3-way refrigerator to “AC Power.” A “DC” mode is to be used when traveling and will pull its power from the auxiliary battery charge line. While camping without available AC power, utilize the “LP Gas” mode.

Please note, battery warranties are prorated.

Battery Charger

The converter will automatically monitor and charge the auxiliary battery up to a 20-amp rate. In order to maintain the battery, one of two things is recommended:

- The battery can be stored in a fully charged condition.
- The battery can be hooked to a battery charger once per month.

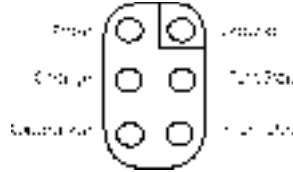
Battery terminals and connectors, including vehicle frame connections, should be cleaned thoroughly, securely fastened, and coated with a silicone dielectric compound or petroleum jelly.

Trailer Hitch Plug

All exterior vehicle lights are 12-volt DC and wired in accordance with the standard accepted color code:

6-Way Poly Mold with Cover

10G WHITE	Ground
16G RED A	LH Turn/Brake
16G BROWN	RH Turn/Brake
10G RED	Charge Line
16G GREEN	Running
12G LIGHT BLUE	Brake



The connector between tow vehicle and trailer may build up corrosion over a period of time. This is caused by weather elements, and should be cleaned occasionally to insure good electrical contact.

For the electric brake option, a brake controller must be installed to power the blue wire when the brakes are applied. Included is a brake-away switch for emergency stopping. See your dealer for installation.

Fuse and Bulb Chart

FUSES

Operation	Location	Circuit Number	Fuse Size	Type
Interior Lights, Water Pump	in converter	1	15	Blade
Refrigerator	in converter	2	15	Blade
Furnace	in converter	3	15	Blade
Battery Pac (exterior)	in line by battery	4	20	Blade
LP Detector	behind LP	N/A	1	Blade

Some components listed above are options.

BULBS

Exterior	Porch Light	#912
Exterior	Tail Light / Signal	#1157
Exterior	Clearance	#194
Interior	Interior Ceiling	#921

WARNING: Do not replace circuit breakers or fuses with a higher current rating than those supplied with the new camper. Over-fusing can cause a fire hazard by overheating the electrical wiring.

When attaching wire leads to a tow vehicle, carefully insulate all connections for protection. Follow the instructions on instruction sheet provided with covered harness.

LP FUEL SYSTEM

It is because of the LP gas system that your RV has the convenience of a refrigerator (option), stove, and furnace (option). This system has container(s) that contain the fuel and also a regulator to control the pressure of the fuel and supplies the gas vapor to the various appliances. When correctly used, the LP system is very effective and will ensure the comfort and added convenience for your vehicle. This system is also potentially very dangerous and should be used with care.

Liquefied petroleum (LP) is a product that is refined from crude oil through natural gases. LP gas is a colorless and odorless gas that in the liquefied state resembles water. An odorant is added as a warning agent. This is usually a sulfur compound which gives the gas the rotten egg, stinky, skunk oil odor. It is extremely important to become familiar with the odor associated with LP gas.

LP fuel is stored in a pressurized canister in a liquid state. As the fuel is released from the canister, it becomes vapor that is needed for the operation of the appliances. In the liquid state, propane should not run through the appliances. A liquid fuel will damage the o-rings in the valves and also leave a sticky, oily residue causing poor or no operation in the regulator.

LP Container

The tank or bottle is a D.O.T. approved container to hold fuel in liquid form, and is normally a 20# or 30# (44 or 66 kilograms) capacity. The open/close valve is to be closed at all times unless hooked up to LP gas system or filling container. When container is disconnected from hose and P.O.L. connection, install P.O.L. plastic plug as attached to container. This is required by RV industry, Gas Association, and for your own safety. Do not allow container (filled or empty) to move or roll around while transporting to and from filling location.

WARNING: Because your vehicle has exterior combustion air inlets, all appliance pilot lights should be turned off during gasoline or propane refueling. Laws in some states require this.

Servicing and Filling LP Containers

Filling an LP container correctly is very important and should be performed by a qualified person who knows the proper inspection and safety procedures. Any new container must be carefully purged for best performance and must NEVER BE OVER-FILLED.

CAUTION: DO NOT use tools to open or close tank valve. HAND TIGHTEN ONLY.

CAUTION: Never smoke during the filling of LP tanks. Keep the RV away from immediate filling area when possible or extinguish all gas pilot lights.

LP gas expands 1½% for each 10° increase in temperature. It is imperative to leave sufficient space inside the container to allow for the natural expansion of gas during warmer weather. Each propane container is equipped with an overfill device built into the main valve. This device must remain open during the filling. When the container is filled to 80%, the maximum level for safety, a liquid will appear replacing the vapor. Stop filling immediately and close both valves; HAND TIGHTEN ONLY.

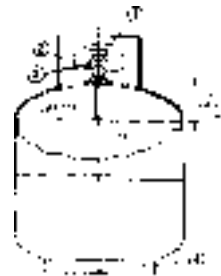
WARNING: A propane container should never be filled beyond 80% of its capacity.

If your LP container becomes overfilled and is not allowed to “bleed off” before installation to the RV system, it may gain pressure from exposure to direct sunlight and will begin “blowing off” pressure from the overflow valve. This will be detected by the strong odor around the LP container. Keep open flames away from this area. It is best to find a technician qualified in releasing an overfill from the container. If that is not possible, remove the container, take it to a safe area at least twenty-five feet from any source of combustion, and “bleed off” the excess pressure by opening the valve slightly and closing it when discharge has been sufficient, one to two minutes.

WARNING: LP gas containers are equipped with safety devices which relieve excess pressure by discharging gas into the atmosphere. Do not bring or store LP gas containers, gasoline or other flammable liquids inside the recreational vehicle. Disregarding this warning may result in fires or explosions.

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

1. Knob to open valve to fill or to use camper.
2. Complete valve assembly.
3. “10%” valve, small brass knob or slot screw.
4. Container mounting stand.



A warning label has been located near the LP gas container. This label reads:

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. 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.

AD-34

Installing LP Containers

1. Place container onto steel angle rack.
2. Insert $2\frac{1}{4}$ " x $\frac{1}{2}$ " bolts through hole in center of angle.
3. Attach lock washer and nut onto bolt.

Fig. 4-5



CAUTION: Ensure that all fasteners are secured before traveling.

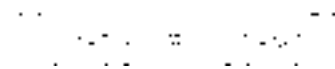
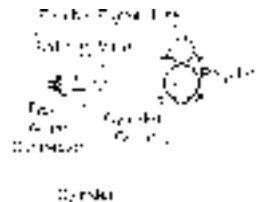
OPD Overfill Protection

Supplied with your folding camping trailer is information that applies to the Type 1 ACME LP Gas Connection on your LP gas container(s). Please read all information contained in the supplied literature.

The following instructions will supply information for correct cylinder/valve orientation, regulator placement, hose length, hose routing and cylinder cover placement. Make sure these steps are followed for proper LP connections.

SINGLE CYLINDER MOUNTED ON A-FRAME

1. Connect the $\frac{3}{8}$ " low pressure hose to the outlet of the two stage regulator.
2. Attach the regulator with the "Z" bracket on the center of the front wall with the vent pointing down.
3. Attach the protective plastic cover to the regulator.
4. The regulator has a 90° elbow that directs the inlet toward the trailer curbside.
5. Place the cylinder on the bracket provided on the A-frame and position it so the outlet of the cylinder valve is pointed directly outward to the curbside wall.
6. If a vinyl cylinder cover is provided, slip it over the cylinder and leave the zipper open.

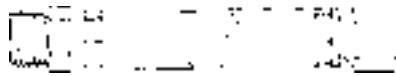


7. Attach the 1/4" inverted flare x 24" Type 1 pigtail hose to the regulator inlet and the right hand swivel nut to the cylinder valve.
8. If applicable, close the cylinder cover zipper up to the hose.
9. Secure the cylinder to the A-frame bracket using the bolts, nuts and washers provided.

Main Supply Hose

The main supply hose will be attached from regulator to brass manifold fitting in frame of camping trailer. Swivel brass nut on main hose will be your final attachment. There are several things to remember each time the container is removed:

Fig. 4-6



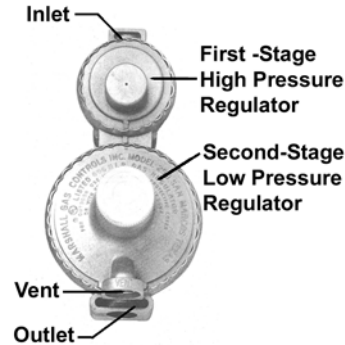
3/8" MPT x 1/2" Female
Flare Swivel

1. Check that ALL fittings are tight.
2. Ensure that ALL connections are tested with leak solution.
3. Open main valve slowly to avoid fast rush of gas to excess flow valve causing gas freeze up. Should you experience a gas "freeze-up," close main valve and wait fifteen minutes before trying again.
4. Listen carefully - a "hissing" sound longer than one second may indicate a gas leak. Close valve and search for leak.

**ALL GAS LINES HAVE BEEN
CHECKED WITH AIR PRESSURE.
DEALERS ARE REQUIRED TO
RECHECK AND ADJUST PRESSURE
BEFORE DELIVERY TO CUSTOMERS.**

Regulator

The regulator is the heart of your LP gas system with internal moving parts. Its function is to reduce the high and varied pressure from the LP container to safe and consistent low operating pressure. The pressure regulator reduces the full cylinder pressure within a 10-13 pound range. The second stage then reduces this inlet pressure to an operating pressure of 11" W.C. (water column) or 6.35 oz. of outlet pressure to the folding camping trailer system. The second stage is adjustable and will need to be adjusted for precise operation. Only qualified persons should install, adjust or service LP gas regulators. If service is needed, contact a qualified LP dealer. We suggest this normal maintenance procedure be performed once per year. Please refer to information provided from the manufacturer.



WARNING: LP gas regulators must always be installed with the diaphragm vent facing downward. Regulators that are not in 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 or explosion.

If you travel alternately on wet roads and in freezing weather, be sure your LP gas regulator is protected from road spray. If water enters the vent in the regulator, it may freeze the pressure controlling diaphragm in the open position so that the container pressure is applied to the appliances – a hazardous condition. Follow the instruction given by the manufacturer of the regulator.

Operation

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

1. Close ALL burner valves, controls and pilot light valves.
2. Open main valve on LP container slowly to avoid fast rush through excess flow valve causing "gas freeze." Should you experience a gas "freeze-up," close main valve and wait 15 minutes before trying again.
3. Listen carefully as gas begins to flow. If "hissing" is heard for more than one or two seconds, close valve and search for leak.
4. Light appliances as needed and directed in the supplied information.

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

Checking For Leaks

Please refer to Chapter 1, “Safety in Using LP Gas.”

IF YOU SMELL GAS

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

WARNING: It is not safe to use cooking appliance for comfort heating. Cooking appliances need fresh air for safe operation. Before operation:
1. Open the overhead vent or turn on the exhaust fan.
2. Open the window.

This warning label has been located in the cooking area to remind you to provide an adequate amount of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) will avoid danger 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.

LP Gas Consumption

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

LP gas consumption depends upon individual use of appliances and the length of time operated. Each gallon of LP gas produces about 91,500 BTUs (96,350 kilojoules) of heat energy. Following is a list of typical appliance consumption when turned on fully for one hour of operation:

Appliance	Average BTU Consumption Per Hour	Average Kilojoules Consumption Per Hour
Stove	6,500	6,825
Furnace	16,000 to 20,000	16,880–21,100

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

LP DETECTOR

All recreation vehicles containing an LP fuel system with propane consuming appliances require a propane leak detection device for safety protection. Converter or auxiliary battery is required to supply 12-volt DC energy to operate leak detector.

Operation

Power ON Warm Up: When power is first applied, the yellow LED will flash for three minutes while the detector is warming up. At the end of that time, the LED will turn Green indicating full operation. If the detector has detected unsafe levels of gas, it will immediately go into alarm.

CAUTION: This detector cannot alarm during the three minute warm up cycle.

Testing

WARNING: Test the operation of this detector after the vehicle has been in storage, before each trip and at least once per week during use.

Simply press the TEST switch any time during the warm up cycle or while in normal operation. The LED should flash RED and the alarm should sound. Release the switch. **This is the only way you should test your detector.** This test feature checks the full operation of the detector. If this detector does not test properly, return the detector immediately for repair or replacement.

Alarm

The red LED will flash and the alarm will sound when dangerous levels of gas are detected. The detector will continue to alarm until the gas clears or the MUTE switch is pressed. (See Procedures To Take During An Alarm)

PROCEDURES TO TAKE DURING AN ALARM

1. Turn off all gas appliances (stove, heaters, furnace). Extinguish all flames and smoking material. Evacuate – leave doors and windows open.
2. Turn off the propane container valve.
3. Determine and repair the source of the leak. Seek professional help if necessary.

CAUTION: Do not reenter until the problem is corrected.

ALARM MUTE

Pressing the TEST/MUTE button when the detector is in alarm activates this feature.

1. The red LED will continue to flash and the alarm will beep every 30 seconds until the gas level has dropped to a safe level.
2. The LED will flash green until the end of the mute cycle.
3. If dangerous gas levels return before the end of the mute cycle, the alarm will beep four times and return to #1.
4. After two minutes, the detector will return to normal operation (solid green) or resound the alarm if dangerous levels of gas remain in the area.

MALFUNCTION ALARM

The microprocessor will activate the malfunction alarm when it detects a fault in the detectors operation. The LED will alternately flash red and green, while the sounder beeps twice every 15 seconds. The mute switch will not function. Remove the detector immediately and return it for repair or replacement.

Low Power Operation

This detector will operate normally down to 7-volt DC. Do not operate this detector below 7-volt DC.

WARNING: Limitations of propane/methane gas detectors:

- This detector will not work without power. Examples causing no power are: an open circuit breaker, a faulty power line connection, a blown or missing fuse.
- This detector will only indicate the presence of propane or methane gas at the sensor. Explosive gas may be present in other areas.
- This detector may not be heard. The alarm loudness is designed to meet or exceed regulatory standards, however, the alarm may not be heard if detectors are located in remote locations or behind closed doors. The alarm may not be heard by persons who are hard of hearing.
- This detector is not a smoke or fire detector. It is not suitable as a smoke or fire detector.
- This detector is not suitable for installation in hazardous areas as defined in the national electrical code.

Additional information is supplied in a manual published by the manufacturer of this equipment.

CHAPTER 5 APPLIANCES

It is important to remember that the folding camping trailer appliances are connected to the LP gas system. All safety precautions and warnings stated in Chapter 4 for the LP gas system need to be observed when using the appliances.

NOTE: Separate owner's manuals are supplied from manufacturers of the appliances to assist you in the operation of individual appliances. Read all manuals completely before operating any appliance.

STOVE

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

In most folding camping trailers, a removable or portable stove and cabinet containing a two or three burner drop-in range for cooking purposes is included. This portable assembly may be used inside or outside of the camper. On the outside of the camper the portable assembly will be hooked to the outside rail attached to wall panel. The bottom part has two rubber or nylon supports and will rest against the sidewall panel for support.

Handling Stove Assembly

1. To use the stove outside, unhook the fuel hose and carry the stove out. Always carry cabinet assembly with both hands.
2. Mount cabinet onto rail at a 30° angle and slowly lower outer side until in horizontal position.
3. Attach brace to the underside of stove and unit for the three burner unit. The two burner cabinet assembly is constructed from aluminum material and a brace is not required.
4. LP gas connections are made with a "Quick-Coupler" (Fig. 5-1) system with positive shut-off valve as required by code and standards.

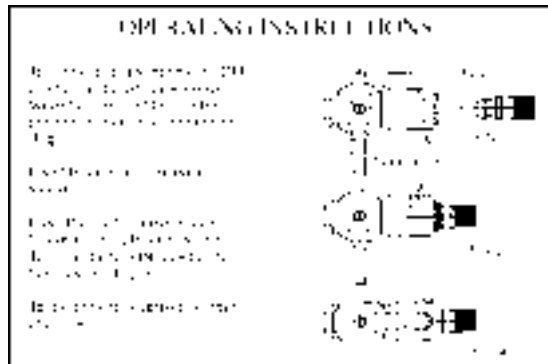


Fig. 5-1

5. Each stove assembly will have a hinged wind guard attached. Raise hinged assembly to vertical position. End panels are also hinged and will swing to outer edge of stove for wind protection, preventing flames from reaching tent material.

Operating instructions for stove are below. Additional information can be found in the manual supplied by manufacturer of stove.

Operation of Stove

1. To light the top burners:
 - a. Turn the appropriate burner knob fully counterclockwise to the “Lite” position. Do not attempt to light more than one burner at a time.
 - b. IMMEDIATELY light the burner by holding a lit match or a hand-held spark igniter designed for this purpose near the burner ports.
 - c. Set temperature.
 - d. To extinguish the top burner flame, turn the appropriate burner knob clockwise to the “OFF” position.
2. To remove the stove top:
 - a. Loosen screws
 - b. Lift free.

NOTE: If flames lift off the burner there is too much pressure in the gas line, or if the flame flashes back into the burner tube there is not enough pressure in the gas line. Under both conditions, discontinue use and have your regulator checked by a qualified service center.

CAUTION: When cleaning any orifice or the burner assembly, care must be used to prevent damaging or enlarging the openings. Never use a wire or other metallic implement to clean an orifice or burner post. Any enlargement of an orifice or burner ports will affect the gas flow and, consequently, the burner’s function.

WARNING: Keep privacy drapes in the upper most position while cooking on the range top to prevent fire hazards.
--

FURNACE (Option)

The furnace in the folding camping trailer requires both 12-volt DC (or 12-volt AC power through the converter) and LP gas energy for full operation. Listed below are basic safety and operation guidelines. Refer to the manual supplied by the manufacturer for full operating instructions.

For Your Safety

Read before operating:

WARNING: These instructions must be followed exactly. Failure to follow instructions could result in a fire or explosion that could result in property damage, personal injury or loss of life.

- A. This appliance does not have a pilot. It is equipped with an ignition device which automatically lights the burner. **DO NOT** try to light the burner by hand.
- B. **BEFORE OPERATING**, smell all around the appliance area for gas. Be sure to smell next to the floor because some gas is heavier than air and will settle on the floor.
- C. **WHAT TO DO IF YOU SMELL GAS**
 - Evacuate all persons from the vehicle.
 - Shut off the gas supply at the gas container or source.
 - Do not start the vehicle's engine or electric generator.
 - Contact the nearest gas supplier or qualified service technician for repairs.
 - If you cannot reach a gas supplier or qualified service technician, contact the nearest fire department.
 - Do not turn on the gas supply until the gas leak(s) has been repaired.
- D. Use only your hand to turn a gas control valve. Never use tools. If the valve will not turn by hand, don't try to repair it, call a qualified service technician. Force or attempted repair may result in a fire or explosion.
- E. Do not use the appliance if any part has been under water. Immediately call a qualified service technician to inspect the appliance and to replace any part of the control system and any gas control which has been under water.

WARNING: When first fired, the furnace may circulate fumes caused by the heating of materials used in the furnace manufacturing process. These fumes may cause physical irritation in some persons. The first heating of some building materials in the trailer can give off fumes that can be fatal to birds or other small animals and may be harmful to humans. Open all windows and doors when firing the furnace for the first time until the fumes have fully dissipated to the outside.

WARNING: Do not operate this furnace while the vehicle is in motion.

WARNING: Should the furnace overheat, or the gas supply fail to shut down, turn off the main gas valve to the appliance prior to cutting off the electrical supply.

WARNING: A flow of combustion and ventilation air must not be obstructed from reaching the furnace.

Lighting Instructions

Read all safety related information before operating the furnace. This appliance is equipped with an ignition device which automatically lights the burner. Do not try to light the burner by hand.

1. **STOP!** Read the safety information in the preceding section.
2. Set the thermostat to the lowest setting.
3. Turn off all electric power to the appliance.
4. This appliance is equipped with an ignition device which automatically lights the burner. DO NOT try to light the burner by hand.
5. Open the control access panel.
6. Turn switch or circuit breaker to OFF.
7. Wait five minutes to clear out any gas. Then smell for gas, including near the floor. If you smell gas, **STOP!** Follow "C" in the safety information above. If you don't smell gas, go to the next step.
8. Turn ON the circuit breaker or switch.
9. Close the access panel.
10. Turn on all electric power to the appliance.
11. Set the thermostat to desired setting.
12. If the appliance will not operate, follow the instructions **TO TURN OFF GAS TO APPLIANCE** (in next section) and call your service technician or gas supplier.

Note: It may be necessary to set the thermostat to a higher setting than that in a home to achieve a comparable level of comfort. Opening an exterior door or window results in the rapid loss of interior heat.

If the furnace does not light, repeat the above process for lighting. If the furnace does not ignite after three attempts, turn the thermostat to "OFF" and call a qualified technician or your gas supplier.

To Turn Off Gas to Furnace

1. Set the thermostat to lowest setting.
2. Turn off all electric power to the appliance if service is to be performed.
3. Open the access panel to turn OFF electric switch or circuit breaker.
4. Close the control access panel.

REFRIGERATOR (Option)

The refrigerator is available for your folding camping trailer as a convenience option. Unlike your home refrigerator, the RV refrigerator can be powered by one of three sources: 120 volt AC, 12 volt DC or LP gas. Another difference from your home refrigerator is the ability to withstand the many rigors of the road. This includes the day-in and day-out physical punishment, exposure to outside elements like dust, and dramatic changes in temperature.

For top performance of your RV refrigerator, it is important to make sure the trailer is level. When the folding camping trailer is parked, proper positioning to level the refrigerator will happen naturally when the trailer is leveled for comfort with no noticeable sloping of the floor or walls. When the vehicle is moving, the leveling is not critical because of the rolling and pitching movement.

Another important requirement to keep your refrigerator at optimum performance, is the ventilation. The lower vent panel is hinged for access to the controls. The upper vent is for expelling hot air and gases from the LP burner. These can NOT be altered or restricted in any way.

Points to Remember

- From time to time, especially if the refrigerator has been out of use for a period, make sure all air vents are free from obstructions before starting up. Also, check connections for gas leaks using an approved commercial test leak solution.
- Never cover or partially cover the air vents with cardboard or anything else.
- Remember to level the vehicle when stopping for more than about an hour, otherwise the cooling unit could be permanently damaged due to overheating if it is left on.
- If possible, start the refrigerator on gas some hours before it is to be used to allow time for the interior to cool. It is then preferable to load the refrigerator with food which has been precooled in your household refrigerator, or at the market.
- High ambient temperatures (90 degrees and up) can affect the cooling performance of your refrigerator. It is recommended that you open the refrigerator door only when absolutely necessary on days when the temperature is high.
- Before moving the vehicle, make sure that all containers are tightly covered to avoid spills. If required, crumpled paper may be packed between bottles and other items to prevent shifting while under way.
- Engage the travel catch at the top of the front corner of the door before moving off.

Operation - N323

CONTROLS

The gas mode utilized an adjustable Gas Control. The control can be manually adjusted to meter the fixed amount of propane gas to the burner thereby acting as a temperature control to maintain cabinet temperature.

NOTE: Unlike an automatic gas control, this control does not cycle the flame from high fire to low fire as the other types of RV refrigerators. If the cooling load changes, the Gas Control must be manually adjusted to maintain the same temperature.

NOTE: When using the LP gas mode, be sure the refrigerator is the last appliance started. This will help in assuring that proper levels of gas are being fed to the refrigerator.

When the gas mode is selected, the Gas Control Selector is enabled. It is used not only to light the gas burner but also to adjust the amount of cooling in the gas mode.

NOTE: Your refrigerator may exhibit a tendency to freeze contents in the gas mode when outside, ambient temperatures fall below 50 degrees Fahrenheit for two or more days. The effects of this can be minimized by setting the refrigerator's gas control to the "Low Cool" setting (refer to illustration at bottom of page for location of gas control), by keeping your refrigerator cabinet loaded, and by placing foods more likely to freeze on the middle or top shelves. Also note that the electric modes of operation are not affected.

Refer to the start-up and lighting procedures for gas mode operation.

The safety valve is built into the Gas control and is designed so that any loss of flame will stop the gas flow to the burner. It is controlled by means of a thermocouple positioned in the gas flame. As long as a flame is detected by the thermocouple, the valve is held open. Upon flame failure (empty propane tank, blowout, etc.), the valve closes, shutting off the gas flow. To light, or relight, the Gas Control knob must be pushed and held in while pressing the Spark ignitor rapidly in succession until a flame is established (see lighting instructions).

Electric Modes

The AC mode, and DC mode in the case of the 3-Way model, is thermostatically controlled by a non adjustable thermostat. The Thermostat has a capillary sensor attached to the cooling fin. The electric heater (AC or DC) will cycle in response to the fin temperature to maintain the cabinet temperature.

IGNITION – LP GAS OPERATION (Figure 5-2)

WARNING: Do not hold gas valve in more than 30 seconds. If flame is not indicated within this time, turn gas to off, wait 2 minutes and retry. Continuing to hold gas valve in will cause gas buildup in the burner area and can result in an explosion which can cause personal injury or death.

1. Open the lower vent door at the rear of the vehicle to gain access to the rear of the refrigerator. Open window in front side of Burner Box to view the burner.
2. Set the Energy Selector Switch (A) to the Gas position.
3. Set the Gas Control Selector (E) to the HIGH COOL position.
4. While pushing the Gas Control Selector switch (E) in, press the spark ignitor push-button (B) in, several times in rapid succession (A click should be heard each time it is depressed.). The burner should light; however, continue to hold the Gas Control Selector (E) in for another 15 seconds before releasing.
5. Verify that the flame remains lit by looking at the burner through the burner box window.
6. Adjust the Gas Control Selector(E) to the desired cooling setting. Close viewing window ion Burner Box.

START UP – AC OPERATION (Figure 5-2)

- Verify that 120-volts AC is available to the refrigerator and that the AC fuse (D) in the control bracket is operational.
- Set the Energy Selector Switch (A) to the AC position and verify that the Gas Control Selector (E) is in the OFF position.
- No other action is required since a fixed thermostat is provided to prevent food from freezing in the electric modes.

START UP – DC OPERATION (3-WAY MODELS ONLY) (Figure 5-2)

- Verify that 12-volts DC is available to the refrigerator and that the DC fuse (C) in the control bracket is operational.
- Set the Energy Selector Switch (A) to the DC position and verify that the Gas Control Selector (E) is in the OFF position.
- No other action is required since a fixed thermostat is provided to prevent food from freezing in the electric modes.

SHUT DOWN (Figure 5-2)

- Set the Gas Control (E) to the OFF position.
- Set the Energy Selector Switch (A) to Gas position.

NOTE: The Gas Control and Energy Selector must be switched to the above positions to completely shut down the refrigerator.

ADDITIONAL INFORMATION ON CONTROLS

Be attentive when the unit's outer surface is being washed down, particularly when using power sprays, to avoid wetting electrical controls.

CAUTION: Never allow water to be sprayed on electrical controls located behind the inlet vent door. Electrical damage or fires could result.

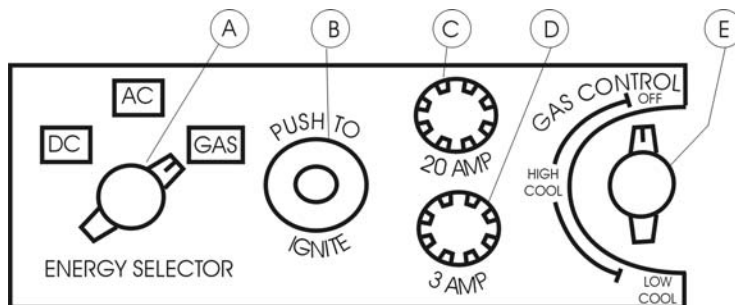


Figure 5-2

BBQ Grill (Option)

WARNING: The maximum weight limit for the bracket on the side of your folding camping trailer is 50 lbs. This limit includes the weight placed on the carry out stove and 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 folding camping trailer is a BBQ Grill. This grill is for use outside of the folding camping trailer and comes with a bracket to attach to the side of the unit. The following list will supply basic operations for the grill. Be sure to read all instructions included with the grill.

1. Install the grill bracket on the side of the folding camping trailer mounting bracket. Make sure that it is securely in place.
2. Place the BBQ grill into the bracket. (Fig. 5-2)



Fig. 5-2

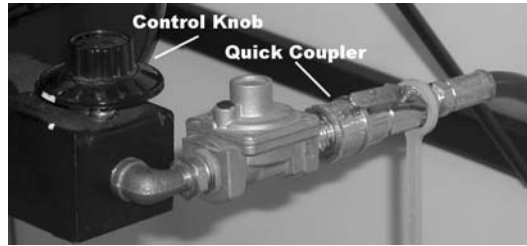


Fig. 5-3

3. Attach the fuel hose to the grill and the LP gas connection located under the folding camping trailer by using the “Quick-Coupler” instruction as follows (Fig. 5-3):
 - Place the handle in the “OFF” position and push back the sleeve. Valve handle must be in the “OFF” position to make the connection. (Fig. 5-4)
 - Insert the plug and release the sleeve. (Fig. 5-4)
 - Push plug until the sleeve snaps forward, locking the plug into the socket. (Fig. 5-5)
 - Turn handle to “ON” position to turn gas on. (Fig. 5-6)

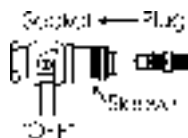


Fig. 5-4



Fig. 5-5



Fig. 5-6

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 grill control knob (Fig. 5-3), 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 minutes and repeat the above steps.
7. Use the temperature control knob to adjust the grill to the desired temperature.

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 the “OFF” position. Reverse the above fuel hose hookup procedures. Wait until the grill is completely cooled, and 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.

CHAPTER 6

CARE OF BODY COMPONENTS

EXTERIOR

Aluminum

The aluminum on the outside of your Jayco can be cleaned and washed the same as an automobile finish. It is suggested that a spray wax or wash and wax combination be used for waxing due to the texture of the aluminum. The textured aluminum siding will reduce excess scratching. The roof aluminum skin material should be washed and polished to maintain its finish.

CAUTION: We recommend that you DO NOT take your recreation vehicle through automatic car washes and extreme caution should be used if utilizing any type of pressure sprayer around all attachments, doors, windows, appliance vents, etc. to avoid forcing water inside the unit, possibly damaging components.

Roof

CAUTION: All roofs require maintenance. At least two times each year inspect for cracks, voids, peeling or loose seal and reseal **as necessary** all seams including trims, vents, doors and windows. (Fig. 6-1)

Weather elements, such as winter's freezing and summer's UV rays cause sealant to dry out, shrink, and deteriorate. Contact your dealer for the appropriate sealant to use. Two areas on your roof require maintenance to be performed to meet warranty coverage on the folding camping trailer roof.

1. Any corner or center flat trim has putty sealer tape between the metal and the skin. This sealant must be examined and maintained yearly to avoid dry out and cracking. In addition, the roof center flat trim is cap sealed on each end at the front and back. The cap seal should be inspected for cracks, voids, peeling or loose seal two times each year and resealed as necessary.
To cap seal:
 - Purchase a sealant as recommended by your dealer.
 - Remove any excess, cracked, peeling or lifting sealant from around the trim.
 - Clean the surface before resealing.
 - Apply a bead of sealant along each side of the trim with a caulking gun.
 - Using a soapy solution on your index finger, smooth out the sealant along each side of the trim.
2. The trim on the lower edge of the roof is sealed internally and also has an outer cap seal. If the cap seal becomes loose, separates, or cracks, it must be resealed as indicated in Step #2.
3. Do not add roof attachments (such as boat or bike racks, air conditioners, vents, etc.) in areas not designed to support such accessories. **You must maintain the seal around all after market installed accessories at the attachment points as well.** Check all fasteners and accessories on the unit periodically and tighten and seal as needed. Only factory installed equipment is covered under the terms of the Jayco Limited Warranty.

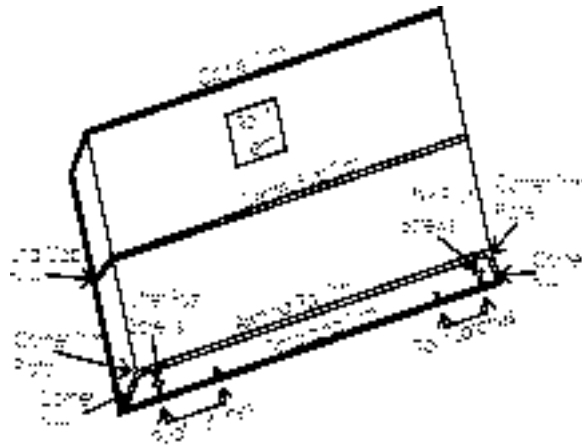


Fig. 6-1

NOTE: It is important to examine all seams and repair them to prevent water leakage. If you are uncertain about the process to follow, contact your Jayco dealer for assistance.

Frame

The frame on your new Jayco coach has a water based paint. It is recommended you periodically inspect the exterior exposed areas, clean and repaint the steel members to insure long life. Road debris will chip paint, inviting rust and other deterioration. To prevent rust or corrosion, you may wish to purchase a commercially available rust treatment application. If damage would occur, the frame needs to be painted with e-coat paint and not a gloss black paint. This type of paint is available in a spray can from the vendor, Leland.

Vinyl Tire Covers (Option)

TIP: To minimize the possibility of tire “bleeding” through onto a tire cover, use a separator (garbage bag, paper, cloth, etc.) between tire and cover.

INTERIOR

Countertops

Made of high pressure laminate, the countertops are quite easy to keep clean. 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.

The laminated surface resists alcohol, fruit acids, cosmetics and most household chemicals. Avoid contact with dyes, strong laundry bleaches and bluing. Indelible inks used on food packages may stain, so take care when unpacking groceries, particularly on a damp countertop. Sharp knives may damage the finish thus confine slicing to a cutting board.

Hot pots and pans should be placed on hot pads or protective trivets. Never place a hot iron or lighted cigarettes on the countertop.

For lasting beauty, avoid using harsh abrasives, scouring powders, peroxide or bleaches. These may dull the surface thus making it more susceptible to staining.

Hardware and Sink or Shower Fixtures

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

Paneling

The wall paneling is a vinyl covered wood panel. If deep scratches occur, they may be covered by using a thin film of shoe polish or stain, followed by a coating of furniture wax. Putty sticks are also available to cover scratches at your local hardware store

To clean, use a mild solution of soap and lukewarm water with a soft sponge or cloth. Refrain from the use of abrasive cleaners as they may scratch and dull appearance. Grease spots and stubborn dirt can be cleaned off with an all-purpose spray cleaner.

Floor

To care for the decorative no wax vinyl floor covering, wash with a mild detergent. Avoid excessive application of water on new floor as it may cause lifting and curling of the vinyl.

FABRIC COMPONENTS

Your folding camping trailer is a combination of several fabric components used to enclose the living area. The canvas used to construct the bunk end and side panels is made of 10.10 ounce army duck cotton, treated to pass the required Federal Fire Retardant Standards. The folding camping trailer awning (refer to awning definition) is made of an embossed vinyl with textile backing. On the interior of the folding camping trailer tent, the material is a 100% polyester backing. The following definitions will assist you in providing the proper care for your folding camping trailer tent components.

Definitions

INTERIOR

1. Bed mat - Upholstery covered foam mattress which provides softness to the bed extensions.
2. Cushions - Upholstery covered foam pad used in dinette area for your comfort.
3. Upholstery - Fabric used to cover the interior cushions and bed mats of the folding camping trailer.
4. SoftShades™ - Window covers with a valance used to help create privacy for your camping experience.
5. Privacy Curtains - Fabric panels provided between bed extensions and the folding camping trailer area to provide a “bedroom” area.
6. SofStor™ Components - An option with some folding camping trailers are components made of vinyl which provide added gallery cabinets, wardrobe and personal storage.

EXTERIOR

7. Awning - Top or “roof” part of the folding camping trailer tent that is located over the bed extensions.
8. Window Panels – Side and end panels of the folding camping trailer which are made of canvas or charcoal vinyl with a zip down section to provide light and ventilation through an attached “screen” panel.
9. Tent - Complete assembly of the folding camping trailer “soft” wall and roof areas. The tent is made up of the awning and the window panels.
10. Canopy - Added feature to create a shaded area around your folding camping trailer door for outside enjoyment.
11. Screen Room - Available feature to enhance the canopy area by providing an added “room” to your folding camping trailer. This “room” is attached to the canopy and the camper.

FABRIC CARE

Cushions/Bed Mats

Please use common sense and treat your furniture as you would at home. Remember, your folding camping trailer is a small living area, so soiling may occur more frequently and the fabric will probably need more attention than your furniture at home. Please follow these guidelines for cleaning upholstery fabrics on the cushions/bed mats.

Frequent vacuuming with a brush attachment or a light hand brushing will help remove dust, hair, sand and other particles which may dull the look of the fabric and accelerate wear.

Water base cleaners are recommended. If a spill does occur, blot up the spot, but do not rub it in. Solvents are not recommended since they may have an adverse reaction to the specific backing of your upholstery fabric. Do not saturate the area. Clean in a well ventilated area and avoid products containing toxic materials. Always pretest a small area before proceeding. Use a professional furniture cleaning service for an overall cleaning.

A reminder: The upholstery fabrics have been manufactured using quality materials. However, if abused, they are not completely resistant to damage.

CAUTION: Do not dry clean the covers of the cushions/bed mats. If the covers are dry cleaned, the vinyl will become hard and crack.

SoftShades™

SoftShades™ should be dry cleaned by a professional for best results. However, they may be washed in cool water on the delicate cycle. Line dry only.

CAUTION: Care must be taken to follow above instructions or results may not be satisfactory.

Nap Sacks

Dry clean only.

Tents

CAUTION: The tent fabric of your folding camping trailer is a mildew resistant fabric. This does not, however, mean that it is mildew proof. Priority in taking proper care of your tent will help to prolong its life. **For warranty coverage, it is imperative that you read and follow the listed recommendations in this manual and all related literature.**

Proper care and maintenance are important for the life of your folding camping trailer's tent. Be aware that the canvas portion of the tent will take longer to dry than the vinyl. If you are forced to store the tent wet, we recommend that the camping trailer be set up at the earliest possible convenience and left for several days to dry completely. After the tent is dry, brush all dirt and debris from the fabric, taking care in corners and crevices. Make sure the entire tent is completely dry before refolding it and storing the camping trailer. We recommend the following list of suggestions be adhered to when there is a need to clean the tents.

EXTERIOR

- If the tent becomes dirty, use a damp cloth or sponge with water. **Do not use detergents, soaps or solvents since they may remove water repellency, fire retardants, and damage the surface or color.**
- Do not use aerosol type cleaners.
- Do not use insect repellent, hair sprays or suntan lotions around fabrics as they may stain fabrics and damage or destroy water repellency. If accidental contact occurs, apply fabric protector or utilize a professional to provide water repellent treatment.
- Be sure to clean bird droppings, tree sap, dirt and soot from campfires off of the tent.
- **Assure that your canvas and trailer have good ventilation, especially after a rainy period. The most common cause of a damaged canvas is mildew, which is the result of storing your unit for any period of time with a damp or wet canvas, even for short periods. This is even more important in humid climates. If the tent must be stored wet, open the unit and allow it to dry thoroughly as soon as possible.**
- For vinyl awning, use only nonabrasive cleaners with warm water and a sponge to remove excess dirt and grime. **Do not use cleaners with a bleach ingredient. Chlorine or bleach will strip the finish and color from your vinyl.**
- If water seepage occurs in the seams of the vinyl awning, you may want to apply a spray type water sealant on sewn seams.

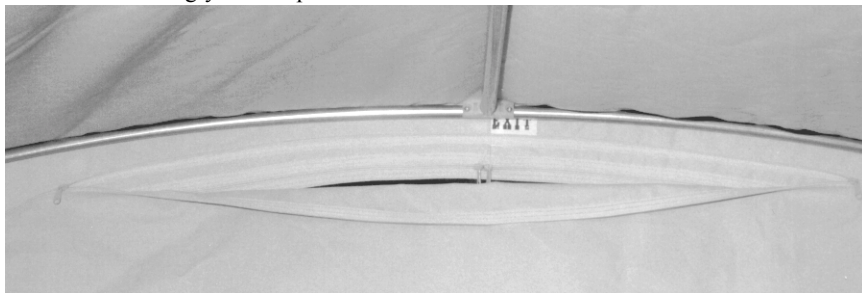
INTERIOR

The material used on the interior of the tents is a 100% polyester backing. This material contains inhibitors that help prevent the growth of mildew on the fabric. **It is not mildew-proof.** Mildew or fungus may attach to the material, however, the material will aid in preventing the growth. If mildew does attach itself to the fabric, brush the mildew dust with a soft bristle brush making sure there is plenty of ventilation and air circulation. Then use one cup of regular household bleach to one gallon of water to thoroughly clean the area. Rinse with clean water.

Condensation

Condensation can be prevalent in folding camping trailers if proper ventilation is not used. It can exist whether or not a heater is used. During periods of rain, avoid contact with the tent. The natural body oils in skin will neutralize the tent waterproofing and cause the rain to soak through. We recommend that you leave a small opening in each bunk zipper to permit air to flow through and allow the tent to “breathe.” This will help minimize moisture gathering above bunk area on the vinyl.

Use only breathable fabric camper covers, such as those available through your Jayco dealer when storing your camper.



Canopy

Heavy rain can damage both the canopy fabric and the poles if it is allowed to “pocket” on the fabric. It is very important to have the correct slope in the canopy. The side of the canopy at the twist poles should be about 19" (48 cm) lower than the side that attached to the awning rail on the roof. If heavy rain is anticipated, lower one side to allow adequate run off.

The canopy is to be removed for winter storage due to winter condensation accumulation. ALWAYS roll up your canopy dry. Should you ever need to roll up canopy when it is wet, unroll within 24 hours and allow to dry. Mildew will develop on damp and wet canopies.

Be sure to follow the list of Do's and Don'ts below when caring for your canopy.

Some Do's:

DO

- Keep your canopy clean. **This is the best protection against mildew.** Even on mildew resistant fabric mildew can grow on accumulated dirt or foreign materials which remain on the top or bottom surface and eventually damage or stain the fabric. **We cannot be responsible for such damage.**
- Wash down your canopy; brushing lightly with a cloth or soft brush.
- Hose your canopy down occasionally (every month) with a garden hose. We recommend doing this on a hot, sunny day.
- Keep the underside of your canopy clean by simply brushing with a clean household broom. The underside can be washed in the same manner as the top.
- Keep shrubbery and vines away from the canopy, as many bushes contain acid which can be harmful.

Some Don'ts:

DO NOT

- Fold or roll in extreme cold temperatures.
- Drag your canopy across any abrasive surfaces, such as a cement drive.
- Get insect spray on the fabric, as some solutions may impair the water repellency of the fabric and cause staining.
- Allow water to stand on the canopy, causing pocketing and possible stretching.
- Wash your canopy with a harsh or strong solution, or scrub too vigorously with an abrasive cleaner.
- Force or yank your canopy when raising or lowering it. Do it gradually.
- Charcoal grill underneath the canopy.
- Store the canopy when damp or wet. Mildew is a fabric's greatest enemy and is caused by dampness. **Mildew may grow on the surface of a damp canopy and permanently stain the fabric.**
- Permit leaves, twigs, etc. to remain on your canopy as they might cause a staining of the fabric.
- Wrap steel or aluminum hardware with the canopy.

Screen Room

Care should be taken when setting up and putting screen room away to avoid tears and cuts. When putting away the deluxe screen room, the curtains should be in the down position and secured to the bottom with their strings.

1. Wash off any droppings or foreign matter from the trees with clear water and keep vinyl clean when putting away.
2. Do not roll stakes or hardware with the screen room.
3. Never roll vinyl screen room up wet for any extended period of time.
4. If mildew is apparent, it should be treated promptly with a light solution of Naphtha soap and water. A soft brush or cloth is recommended for cleaning vinyl.

Fiberglass Screening

When possible, fiberglass screening should be loosely folded, not crushed when opening and putting away screen room. Do not allow poles and stakes to punch holes in the screen.

CHAPTER 7

MAINTENANCE/STORAGE

CHANGING THE TIRE

1. Block the tire on your folding camping trailer on the opposite side of the flat tire. Unhook the trailer from the tow vehicle.

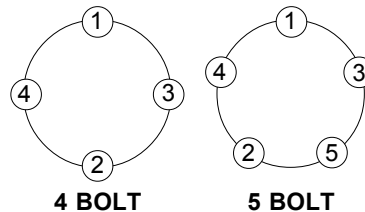
CAUTION: Failure to block the tire and unhook the folding camping trailer from the tow vehicle could result in twisting the frame of the trailer.

2. Loosen lug nuts. You may wish to loosen lug nuts before raising camper.
3. Use a sturdy and dependable jack to raise your camper, preferably a hydraulic or scissor jack. Place a jack at one of the points designated on main rail in the diagram below. A small 4" to 6" square, 1/2" plywood spacer can be placed between jack and frame for support.



WARNING: DO NOT place jack under any part of axle beam. The camper alignment can be altered causing excessive tire wear. DO NOT place jack under outer "Z" frame rails. DO NOT use stabilizer jacks to raise camper. They are designed to support, not raise or lower camper.

4. Remove lug nuts.
5. Change tire and wheel.
6. Reinstall lug nuts snugly.
7. Lower camper to ground.
8. Tighten lug nuts to 85-95# torque for 12" tires, and 50-75# torque for 13" tires. Use a cross tightening sequence as shown.



NOTE: Jacks and lug wrenches are not supplied with camper. Bolt head size is 13/16"

WARNING: Because the axles on an RV do not drive or steer as automobile axles do, the motion of being trailered adds stress that can loosen lug nuts, especially during the initial break-in period. Wheel lugs can work loose. Check and tighten wheel lugs every 10, 25 and 50 miles (15, 40 and 100 kilometers) when the unit is new or a tire is changed, then every 3,000 miles (5000 kilometers).

To protect your investment, as well as ensuring your continued enjoyment and personal safety, we urge you to follow this maintenance schedule. You will find other recommended maintenance instructions and schedules in the individual component operating instructions. While many owners perform their own maintenance, your Jayco dealer will be happy to handle your service needs.

LP GAS BOTTLES

1. The LP gas bottle or tank must be painted with a light color, such as white or silver plate, to reflect heat and light.
2. Rust, scratches, and/or dents can affect the safety of the bottle or tank. The D.O.T. requires that a visual inspection is made prior to each filling.
3. Any container that has been exposed to fire, leaks or seems damaged should not be refilled.
4. An LP bottle must always be placed in an upright position. Assure that the bottle is secured in place prior to moving the vehicle.
5. The D.O.T. requires that LP bottles be inspected, certified and labeled when it is twelve years old. (The number of years for certification may vary in your area.) Following the initial twelve-year period, the bottle must be qualified every five years.
6. The valve of the bottle or tank must be CLOSED at all times except when it is connected to the recreation vehicle LP gas system or is being refilled. When it is unhooked, be sure to use the P.O.L. plug as indicated in Chapter 4.
7. Inspect the bottle at regular intervals. If there is a problem, have it evaluated by a qualified technician and discard it, if necessary. Verify with your local LP dealer that all required inspections and certifications have been completed on the LP bottle within the correct time period before refilling the bottle.

STORAGE

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 can do a tremendous amount of damage to the tent, 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 are NOT covered under your Jayco Limited Warranty.

Use only breathable fabric camper covers, such as those available through your Jayco dealer, when storing your camper.

CAUTION: DO NOT store camping trailer under a dark colored cover. Use only light colored breathable covers to prevent extreme heat. Consult your Jayco dealer for the proper products to use.

CAUTION: When storing your folding camping trailer, it is recommended that the battery be unhooked to avoid draining the battery.

MAINTENANCE CHART

COMPONENT	MAINTENANCE	AVOID
Wheel Bearings	<p>The wheel bearings in your new Jayco tent camper are pre-greased. It is recommended that you repack these bearings at 12,000 miles (19,000 kilometers) or at the end of each season's camping to prepare for winter months ahead.</p> <p>Use only a multipurpose No. 1 or 2 good quality wheel bearing grease.</p> <p>If bearing or cone (race) become pitted, replace any damaged part.</p> <p>NOTE: Should you be concerned about heat in wheel bearings, check them occasionally while traveling by placing hand on hub. You will be able to hold your hand momentarily on the hub.</p> <p>Should it be extremely hot, it is recommended to have the bearings inspected by a qualified service center.</p> <p>NOTE: During break-in period (first 500 miles) (800 kilometers) your hubs may feel extra warm due to brake shoes setting in with the brake drum.</p>	<p>(a.) Exposure to water or condensation will cause bearings to rust.</p> <p>(b.) Never let bearings run dry.</p> <p>(c.) Never overpack wheel bearings, especially in the middle of hub. It will trap heat if overpacked.</p>
Lug Nuts	<p>Lug nuts must be checked at 10, 25, and 50 miles (15, 40 and 100 kilometers) when new or after tire removal, then every 3,000 miles. After this, lug nuts should be periodically checked for safety, especially before any long trip and extensive braking or a tire change.</p> <p>Tighten lug nuts to 85-95 ft. pounds torque for 12" tires and 50-75 pounds torque for 13" tires using a cross tighten sequence.</p> <p>See "Changing the Tire & Wheel" in Chapter 7.</p>	<p>WARNING: DO NOT ignore checking wheel lug nuts. Failure to do can cause wheel loss and an accident.</p>

COMPONENT	MAINTENANCE	AVOID
Coupler	<p>Use a small quantity of WD-40 on moving mechanism and all points of movement in actuator to insure ease of operation.</p> <p>We recommend that you use conventional grease on the ball of hitch for ease of operation.</p>	
Tongue Jack	Lubricate the jack by extending to full down position and insert SAE 30 oil through oil hole in top of jack. Do this several times per season.	
Tires	It is very important to check tires often as noted in Chapter 3.	DO NOT ignore checking tire P.S.I. pressures often. Always check tire pressure during travel & before each trip.
Brakes	<p>It is important to have brakes adjusted by selling dealer at 200 miles (322 kilometers) after initial break-in period.</p> <p>After initial break-in it is recommended to adjust the brakes following each 3,000 miles (5000 kilometers) or at beginning of each season's camping trips.</p>	It is very important to keep brakes adjusted as poorly adjusted brakes will not function correctly and cause accelerated wear.
Lifter Posts	Your telescoping posts should be lubricated semiannually with a light coat of silicone spray to insure smooth, trouble-free operation. Do not permit spray to reach tent.	DO NOT use grease or oil on posts as this lubricant will attract dirt and cause tent to become dirty.
Master Tube of Lifter System	Grease Zerks in both places once per year. See drawing on the next page.	



- | | |
|---|-----------------------------------|
| 1 = WINCH DLB1200 | 6 = SPRING TUBE ASS'Y – ODS REAR |
| 2 = CABLE ASSEMBLY
(8 QWEST - 184") (10 QWEST - 222") | 7 = SPRING TUBE ASS'Y – ODS FRONT |
| 3 = PULLEY ASSEMBLY | 8 = SPRING TUBE ASS'Y – DS REAR |
| 4 = MASTER TUBE ASSEMBLY | 9 = SPRING TUBE ASS'Y – DS FRONT |
| 5 = SPRING PUSH ROD
(8 QWEST - 108") (10 QWEST - 110") | 10 = TIE BAR |
| | 11 = 5/16 X 3/4 RIVET |

COMPONENT	MAINTENANCE	AVOID
Winch	The winch should be lubricated once per year, preferably at the season's beginning. Use a small quantity of light oil on two upper shaft bearings and also at each end of main drum which cable rolls on.	
Cables	Pulleys and cables need no lubricant at any time.	
L.P. Gas System	<p>At the beginning of each season:</p> <ol style="list-style-type: none"> 1. Inspect all gas lines for crimps and road damage. 2. Check all lines and connections for leakage with soapy water or leak detector. 3. We recommend that you have the regulator checked and adjusted to proper pressure once a year. A gas leak check should be performed at least once a year by a qualified technician. 	<p>DO NOT smoke while changing bottles or any lines.</p> <p>DO NOT allow any connection to be loose.</p> <p>DO NOT use ammonia or chlorine based cleaners.</p>

COMPONENT	MAINTENANCE	AVOID
Frame	<p>Inspect, clean and repaint steel members.</p> <p>Apply a commercial rust treatment.</p>	
Bed Slides	Be sure to lubricate bed slides twice per year with silicone spray as you do the lifter posts.	
Bed Braces	Inspect and replace if bent or damaged.	Using damaged bed braces.
Appliances	<p>To care for brushed chrome we recommend you clean with a mild soap and water, wipe dry with soft cloth. Apply a light coat of oil such as "Johnson's Baby Oil" periodically.</p> <p>Various items on these appliances need to be cleaned periodically, such as burner orifices, etc. See individual booklets for directions or see your dealer.</p> <p>On any appliance with porcelain covering, use caution to avoid chipping. Be careful not to drop items on porcelain surfaces.</p>	DO NOT use steel wool, ammonia, acids, or abrasives on chrome surfaces.
Roof	All roofs require maintenance. At least two times each year, inspect all seams: front, rear and along all moldings for voids, lifting, peeling, or cracking. Reseal as necessary or at least one time each year. If you notice any deterioration in the seal, scrape off any cracked or loose sealant and then reseal the area.	Excessive snow and ice loads.

COMPONENT	MAINTENANCE	AVOID
Roof Latches	Inspect for tightness and damage. Periodically adjust to maintain tension and replace when damaged.	
Exterior Sealants	<p>All sealants used in construction can deteriorate from U.V. exposure, air pollution, freezing temperatures and other exposure to weather elements.</p> <p>Tape sealants used around doors, sidewall mounted fixtures and extrusions are subject to dry-out conditions by sunlight and will allow water seepage when they deteriorate.</p> <p>Inspect at least two times each year and look for dried-out, cracking or peeling conditions. Reseal as necessary or at least one time each year. Contact your dealer for the appropriate sealant to use.</p>	<p>Using poor quality sealing material.</p> <p>Failure to reseal sealant and putty tape.</p>

MAINTENANCE CHECKLIST

Prior to First Trip

- ☐ Install SofStor® organizer (SofStor® organizer option only).
- ☐ Install privacy drapes. (Privacy drape option only.)
- ☐ Condition the tent. Refer to Chapter 3.
- ☐ Check LP gas lines for leaks. Refer to Chapter 4
- ☐ Test LP gas detector. Refer to Chapter 4.
- ☐ Sanitize fresh water system. Refer to Chapter 4.
- ☐ Tighten wheel nuts to specified torque values.
- ☐ 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. (Furnace option only.)

First Two-Hundred Miles

- ☐ Tighten wheel nuts to specified torque values.
- ☐ Have brakes adjusted by a qualified service technician.

Each Trip

- ☐ Test LP gas detector. Refer to Chapter 4.
- ☐ Inspect bed bow supports.
- ☐ Check battery water level. (If equipped with battery.)
- ☐ Check brake fluid level in master cylinder reservoir. Keep filled to within ½” from top of reservoir. (Hydraulic Brake option only.)
- ☐ Check master cylinder cap for tightness. (Hydraulic Brake option only.)
- ☐ Check tire pressure and wear. Make sure the tires are cold when checking the tire pressure.
- ☐ Check running lights.
- ☐ Inspect safety chains for signs of wear.
- ☐ Test brakes.

After Every Tire Change

- ☐ Tighten wheel nuts to specified torque values at twenty-five miles to assure they are correctly “seated” after the tire change.

Daily

- ☐ Recharge battery after each use. (If equipped with battery.)
- ☐ Ensure LP gas detector operation light is green in color.

Weekly

- ☐ Test LP gas detector.
- ☐ Check tire pressure and wear. Make sure the tires are cold when checking the tire pressure.

Monthly

- ☐ Clean and lubricate the coupler.
- ☐ Check fire extinguisher pressure. Do not test the extinguisher.
- ☐ 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 service technician. (Deluxe plumbing option only.)
- ☐ 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 service technician. (Refrigerator option only.)
- ☐ Inspect refrigerator/ice box door seals.
- ☐ Inspect refrigerator combustion seals. Have any repairs completed by a qualified service technician. (Refrigerator option only.)
- ☐ Check LP gas lines for leaks. Refer to Chapter 4.
- ☐ Inspect LP cylinders for rust, pits, gouges, scrapes or sharp dents. Repaint cylinders if rust is present.
- ☐ Clean and lubricate the large seal and cap seal located on the toilet. (Toilet option only.)
- ☐ Clean the ventilation seal on the toilet. (Toilet option only.)
- ☐ Drain and sanitize fresh water system. Refer to Chapter 4.
- ☐ Check, clean, tighten and lubricate battery cables. (If equipped with battery.)
- ☐ Tighten wheel nuts to specified torque values.
- ☐ Examine the tires for unusual wear, sidewall defects from possible cuts, wear, bulging and abrasions.
- ☐ Lubricate tongue jack.
- ☐ Lubricate hitch ball.
- ☐ Have brakes adjusted by a qualified service technician.
- ☐ Inspect roof latches for tightness and damage. Adjust to maintain tension and replace if necessary.

Every Six Months or 6,000 Miles

- ☐ Clean drains with approved drain cleaners.
- ☐ Check pipe connections for tightness. Tighten if necessary.
- ☐ Lubricate lifter posts.
- ☐ Lubricate bed slides.
- ☐ Lubricate all moving parts on the entrance steps. (Retractable steps option only.)
- ☐ 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 found earlier in this chapter.
- ☐ Have suspension system serviced by a qualified service technician.

Every Year or 12,000 Miles

- ☐ Lubricate moving parts on the canopy hardware. (Canopy option only.)
- ☐ Inspect and lubricate gears, reel shaft and handle threads on winch.
- ☐ 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.
- ☐ Have LP gas system inspected and serviced by a qualified technician.
- ☐ 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 found earlier in this chapter.

Every Twelve Years

- ☐ Have your LP gas cylinders inspected, qualified, recorded and stamped by a certified cylinder qualifier. DOT also requires qualification every five years after the initial twelve year certification.

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.
- ☐ Drain all water lines.
- ☐ Close the LP gas tank valve(s). If your tanks do not already have a cover, consider purchasing 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 are no unknown leaks or other damage that might otherwise go unnoticed until it is too late.
- ☐ Inspect and reseal, as necessary, all sealant and putty tape. Refer to information found 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 (if applicable).
- ☐ 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 from the top of your RV to prevent it causing damage to the unit.

[illegible]

1. The purpose of the present study was to determine whether the use of a computer-based system for the management of patient care could improve the quality of patient care. The study was conducted in a hospital setting and involved the use of a computer-based system for the management of patient care. The system was designed to provide a comprehensive overview of patient care, including patient history, current status, and treatment plans. The system was used by healthcare providers to manage patient care and to communicate with each other. The study found that the use of the system improved the quality of patient care in several ways. First, the system provided a comprehensive overview of patient care, which allowed healthcare providers to make more informed decisions. Second, the system improved communication between healthcare providers, which led to better coordination of care. Third, the system reduced the risk of errors, which improved patient safety. Finally, the system improved the efficiency of patient care, which led to better patient outcomes.

* 1. 1987-1988, 1989-1990, 1991-1992, 1993-1994, 1995-1996, 1997-1998, 1999-2000, 2001-2002, 2003-2004, 2005-2006, 2007-2008, 2009-2010, 2011-2012, 2013-2014, 2015-2016, 2017-2018, 2019-2020, 2021-2022, 2023-2024, 2025-2026, 2027-2028, 2029-2030, 2031-2032, 2033-2034, 2035-2036, 2037-2038, 2039-2040, 2041-2042, 2043-2044, 2045-2046, 2047-2048, 2049-2050, 2051-2052, 2053-2054, 2055-2056, 2057-2058, 2059-2060, 2061-2062, 2063-2064, 2065-2066, 2067-2068, 2069-2070, 2071-2072, 2073-2074, 2075-2076, 2077-2078, 2079-2080, 2081-2082, 2083-2084, 2085-2086, 2087-2088, 2089-2090, 2091-2092, 2093-2094, 2095-2096, 2097-2098, 2099-2100, 2101-2102, 2103-2104, 2105-2106, 2107-2108, 2109-2110, 2111-2112, 2113-2114, 2115-2116, 2117-2118, 2119-2120, 2121-2122, 2123-2124, 2125-2126, 2127-2128, 2129-2130, 2131-2132, 2133-2134, 2135-2136, 2137-2138, 2139-2140, 2141-2142, 2143-2144, 2145-2146, 2147-2148, 2149-2150, 2151-2152, 2153-2154, 2155-2156, 2157-2158, 2159-2160, 2161-2162, 2163-2164, 2165-2166, 2167-2168, 2169-2170, 2171-2172, 2173-2174, 2175-2176, 2177-2178, 2179-2180, 2181-2182, 2183-2184, 2185-2186, 2187-2188, 2189-2190, 2191-2192, 2193-2194, 2195-2196, 2197-2198, 2199-2200, 2201-2202, 2203-2204, 2205-2206, 2207-2208, 2209-2210, 2211-2212, 2213-2214, 2215-2216, 2217-2218, 2219-2220, 2221-2222, 2223-2224, 2225-2226, 2227-2228, 2229-2230, 2231-2232, 2233-2234, 2235-2236, 2237-2238, 2239-2240, 2241-2242, 2243-2244, 2245-2246, 2247-2248, 2249-2250, 2251-2252, 2253-2254, 2255-2256, 2257-2258, 2259-2260, 2261-2262, 2263-2264, 2265-2266, 2267-2268, 2269-2270, 2271-2272, 2273-2274, 2275-2276, 2277-2278, 2279-2280, 2281-2282, 2283-2284, 2285-2286, 2287-2288, 2289-2290, 2291-2292, 2293-2294, 2295-2296, 2297-2298, 2299-2300, 2301-2302, 2303-2304, 2305-2306, 2307-2308, 2309-2310, 2311-2312, 2313-2314, 2315-2316, 2317-2318, 2319-2320, 2321-2322, 2323-2324, 2325-2326, 2327-2328, 2329-2330, 2331-2332, 2333-2334, 2335-2336, 2337-2338, 2339-2340, 2341-2342, 2343-2344, 2345-2346, 2347-2348, 2349-2350, 2351-2352, 2353-2354, 2355-2356, 2357-2358, 2359-2360, 2361-2362, 2363-2364, 2365-2366, 2367-2368, 2369-2370, 2371-2372, 2373-2374, 2375-2376, 2377-2378, 2379-2380, 2381-2382, 2383-2384, 2385-2386, 2387-2388, 2389-2390, 2391-2392, 2393-2394, 2395-2396, 2397-2398, 2399-2400, 2401-2402, 2403-2404, 2405-2406, 2407-2408, 2409-2410, 2411-2412, 2413-2414, 2415-2416, 2417-2418, 2419-2420, 2421-2422, 2423-2424, 2425-2426, 2427-2428, 2429-2430, 2431-2432, 2433-2434, 2435-2436, 2437-2438, 2439-2440, 2441-2442, 2443-2444, 2445-2446, 2447-2448, 2449-2450, 2451-2452, 2453-2454, 2455-2456, 2457-2458, 2459-2460, 2461-2462, 2463-2464, 2465-2466, 2467-2468, 2469-2470, 2471-2472, 2473-2474, 2475-2476, 2477-2478, 2479-2480, 2481-2482, 2483-2484, 2485-2486, 2487-2488, 2489-2490, 2491-2492, 2493-2494, 2495-2496, 2497-2498, 2499-2500, 2501-2502, 2503-2504, 2505-2506, 2507-2508, 2509-2510, 2511-2512, 2513-2514, 2515-2516, 2517-2518, 2519-2520, 2521-2522, 2523-2524, 2525-2526, 2527-2528, 2529-2530, 2531-2532, 2533-2534, 2535-2536, 2537-2538, 2539-2540, 2541-2542, 2543-2544, 2545-2546, 2547-2548, 2549-2550, 2551-2552, 2553-2554, 2555-2556, 2557-2558, 2559-2560, 2561-2562, 2563-2564, 2565-2566, 2567-2568, 2569-2570, 2571-2572, 2573-2574, 2575-2576, 2577-2578, 2579-2580, 2581-2582, 2583-2584, 2585-2586, 2587-2588, 2589-2590, 2591-2592, 2593-2594, 2595-2596, 2597-2598, 2599-2600, 2601-2602, 2603-2604, 2605-2606, 2607-2608, 2609-2610, 2611-2612, 2613-2614, 2615-2616, 2617-2618, 2619-2620, 2621-2622, 2623-2624, 2625-2626, 2627-2628, 2629-2630, 2631-2632, 2633-2634, 2635-2636, 2637-2638, 2639-2640, 2641-2642, 2643-2644, 2645-2646, 2647-2648, 2649-2650, 2651-2652, 2653-2654, 2655-2656, 2657-2658, 2659-2660, 2661-2662, 2663-2664, 2665-2666, 2667-2668, 2669-2670, 2671-2672, 2673-2674, 2675-2676, 2677-2678, 2679-2680, 2681-2682, 2683-2684, 2685-2686, 2687-2688, 2689-2690, 2691-2692, 2693-2694, 2695-2696, 2697-2698, 2699-2700, 2701-2702, 2703-2704, 2705-2706, 2707-2708, 2709-2710, 2711-2712, 2713-2714, 2715-2716, 2717-2718, 2719-2720, 2721-2722, 2723-2724, 2725-2726, 2727-2728, 2729-2730

5. The defendant's liability for the damage caused by the fire is limited to the amount of the insurance sum.

14. The following information is available for the company for the year ended 31 December 2014:

You and any other user of Jayco products shall not be entitled in any consequential or incidental damages, including without limitation, loss of use of the unit, inconvenience, lodging, damage to personal property, phone calls, meals, lost income or earnings. This warranty shall be void if the unit is not used in accordance with the instructions.

Jayma does not authorize any person to create for it any other obligation or liability in connection with this vehicle. Any implied warranty of merchantability or fitness for a particular purpose applicable to this vehicle is limited in duration to the duration of this written warranty. The performance of repairs is the exclusive remedy under this written warranty or any implied warranty. Jayma shall not be liable for incidental or consequential damages resulting from breach of this written warranty or any implied warranty. In no event shall Jayma be liable for any damages, including attorney's fees, except as provided in this written warranty.

1. *Journal of the American Medical Association*, 1997; 277: 1000-1005.

- © 2000 Blackwell Science Ltd, *Journal of Internal Medicine* 247: 117–122

JAYCZ INC
 9175 N. York St. P.O. Box 211000
 Houston, TX 77202-1002

TOWABLE TRANSFERABLE LIMITED WARRANTY

TOWABLE TRANSFERABLE LIMITED WARRANTY Fold Down, Travel Trailer, Fifth Wheel Five year limited warranty Thirty year structure



SUMMARY OF WARRANTY:

Jayco warrants that its products are designed and constructed to meet the industry standard for strength and performance for a period of two (2) years or three (3) years for the structure from the date of manufacture under normal use and conditions when used in accordance with the instructions. This warranty does not cover any damage or deterioration that is caused by misuse, abuse, neglect, or any other cause not covered by the warranty. The warranty is limited to the repair or replacement of the defective part or parts. The warranty does not cover the cost of labor or any other charges for the repair or replacement of the defective part or parts.

This warranty may be transferred to the second owner of the product without charge. The warranty is void if the product is altered or modified in any way.

STRUCTURAL WARRANTY

Jayco warrants the structure of the product for a period of thirty (30) years from the date of manufacture. This warranty is limited to the repair or replacement of the defective part or parts.

EXCLUSIONS:

1. Not covered: Damage due to fire, theft, flood, or other natural or man-made causes.
2. Not covered: Damage due to misuse, abuse, neglect, or any other cause not covered by the warranty.
3. Normal wear and tear: Damage due to normal wear and tear, including but not limited to, fading, cracking, peeling, or any other damage that is not covered by the warranty.
4. Damage due to alterations: Damage due to any alterations or modifications made to the product after the date of manufacture.
5. Damage due to improper use: Damage due to any improper use of the product, including but not limited to, overloading, towing, or any other use not covered by the warranty.
6. Damage due to accidents: Damage due to any accidents or collisions involving the product.
7. Damage due to vandalism: Damage due to any vandalism or intentional damage to the product.
8. Damage due to other causes: Damage due to any other causes not covered by the warranty.

Options: Two, Three, or More Windows, Marine Grade Construction
Exterior: Aluminum, Fiberglass, or Other Composite Material

This warranty is limited to the repair or replacement of the defective part or parts. It does not cover the cost of labor or any other charges for the repair or replacement of the defective part or parts. The warranty is void if the product is altered or modified in any way.

HOW TO OBTAIN WARRANTY SERVICE:

In the event of a defect in material or workmanship, a defect which, in any case, does not depend upon damage caused by normal use, the purchaser must inform JAYCO of such defect in writing as soon as possible, by registered letter, to the following address:

A. JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099. The purchaser must also inform JAYCO of such defect in writing as soon as possible, by registered letter, to the following address:

B. JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099. The purchaser must also inform JAYCO of such defect in writing as soon as possible, by registered letter, to the following address:

C. JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099. The purchaser must also inform JAYCO of such defect in writing as soon as possible, by registered letter, to the following address:

JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099. The purchaser must also inform JAYCO of such defect in writing as soon as possible, by registered letter, to the following address:

JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099. The purchaser must also inform JAYCO of such defect in writing as soon as possible, by registered letter, to the following address:

PURCHASER'S OBLIGATIONS:

The purchaser must inform JAYCO of any defect in writing as soon as possible, by registered letter, to the following address: JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099. The purchaser must also inform JAYCO of such defect in writing as soon as possible, by registered letter, to the following address: JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099. The purchaser must also inform JAYCO of such defect in writing as soon as possible, by registered letter, to the following address: JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099.

DISCLAIMER OF CONSEQUENTIAL AND INCIDENTAL DAMAGES:

You and any other user of JAYCO products shall not be entitled to any consequential or incidental damages, including without limitation, loss of use of the unit, inconvenience, injury, damage to personal property, phone calls, meals, lost income or earnings. This warranty gives no other rights, remedies or damages beyond those set forth in this warranty.

DISCLAIMER AND LIMITATIONS OF IMPLIED WARRANTIES:

JAYCO does not authorize any person to create for it any other obligation or liability in connection with this vehicle. Any implied warranty of merchantability or fitness for a particular purpose applicable to this vehicle is limited in duration to the duration of this written warranty. The performance of repairs is the exclusive remedy under this written warranty or any implied warranty. JAYCO shall not be liable for incidental or consequential damages resulting from breach of this written warranty or any implied warranty. Such statement shall be made in the event of a breach of this warranty or any implied warranty. Such statement shall be made in the event of a breach of this warranty or any implied warranty. Such statement shall be made in the event of a breach of this warranty or any implied warranty.

PARTS AND DESIGN CHANGES:

JAYCO may make parts and design changes to its products without notice and without obligation to inform the purchaser of such changes. JAYCO does not warrant that its products are free from defects or that its products are free from defects or that its products are free from defects.

WARRANTY REGISTRATION:

The purchaser must register this vehicle with JAYCO within 90 days of the date of purchase. The purchaser must also inform JAYCO of such defect in writing as soon as possible, by registered letter, to the following address: JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099.

JAYCO, 3000 Highway 100, Jayco, Oklahoma 73099.

JAYCO, INC.
3000 Highway 100, Jayco, Oklahoma 73099.
Telephone: 309-225-4444

LIMITED WARRANTY TRANSFER APPLICATION

The warranty on your unit is transferrable one time only, from the original owner to a subsequent owner. This form as shown here and on the next page must be completed by the dealership. The form should be sent with the \$100.00 to Jayco, Attention: After Market Services.

WELCOME TO THE JAYCO FAMILY!

As the owner of a new Jayco recreational vehicle we are proud to welcome you to our growing family.

All Jayco RV homes are built with care, under the watchful eye of our Quality Assurance program. And it is our sincere wish that you will have a lifetime of fun times with your new Jayco.

We are pleased you chose Jayco and want to do everything possible to make sure you stay as happy with your Jayco RV home as you were on the day you bought it.

We work closely with Jayco dealers to provide customer service for you. We honestly feel that Jayco dealers are on the whole the best in the business. And with nearly 300 of them in the U.S. and Canada you should never be too far from help if you ever need it.



In the months and years to come we hope you'll become a close member of the Jayco family. One way to enjoy your Jayco even more is through our owners club – the Jafari International Travel Club. It's lots of fun and a great way to meet other members of the Jayco family. If you're interested please talk to your dealer about the "flight" in your area. Or write to us directly and we'll be in touch.

From Jayco's family to yours: "Welcome Home!"



903 South Main Street • P.O. Box 460 • Middlebury, IN 46540