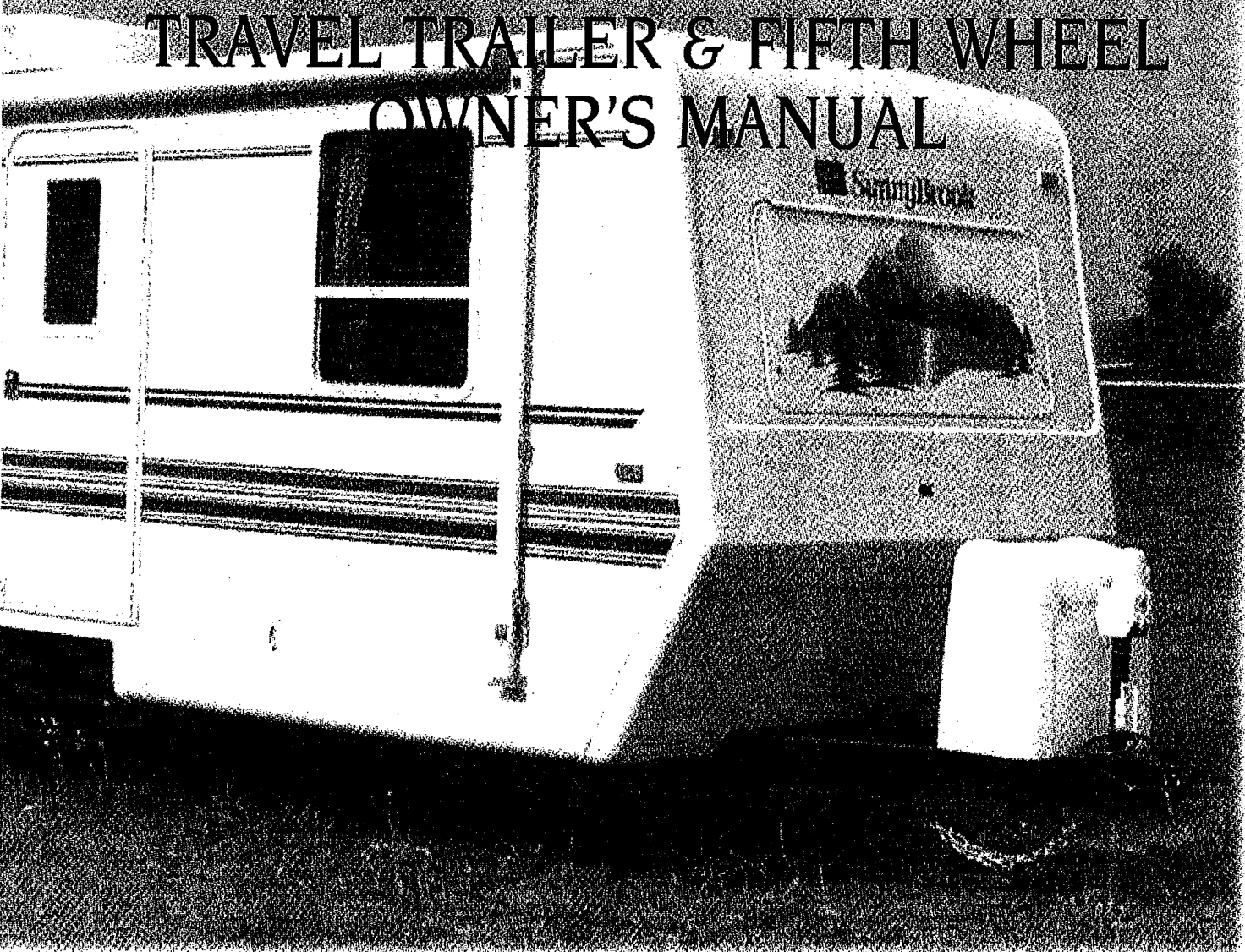




Model Year
2004-2005

TRAVEL TRAILER & FIFTH WHEEL
OWNER'S MANUAL



MOBILE SCOUT

®

by SunnyBrook



**Limited two-year warranty for Travel and Fifth Wheel Trailers (the Product).
Manufactured by SunnyBrook RV, Inc. (the Factory) sold in the United States and Canada.**

Expressed Warranty Coverage Provided:

SunnyBrook RV, Inc. expressly warrants the Product(s) that it manufactures for 24 months of normal use. Normal use means for recreational or temporary living purposes. Coverage terminates 730 days from the date of purchase by the original purchaser or on the date the original purchaser sells or transfers his interest in the Product to a subsequent owner. It is the intent of SunnyBrook RV, Inc. to comply with Magnuson-Moss Warranty Act and the Federal Trade Commission's prescribed rulings. This warranty does not cover or include:

- 1) Equipment and appliances (such as tires, brakes, axles, stoves, water heaters, furnaces, power jacks, microwaves, refrigerators, awnings, washers, dryers, air conditioners, radio/cassette players, TV's, satellite receivers, stereo tuners, CD players, VCR's, 12V/110V power converters, etc.) which are warranted directly by their respective manufacturer. Copies of those written warranties are to be provided to owner by selling dealer at time of retail sale.
- 2) Damage caused by or related to:
 - a) Environmental conditions (salt, hail, chemicals in the atmosphere, etc.)
 - b) Accidents, misuse, or negligence.
 - c) Failure to perform normal maintenance.
 - d) Alteration or modification of the product.
- 3) Normal deterioration due to wear or exposure, such as fading of furniture fabrics or drapes, carpet wear, etc.
- 4) Normal service items such as light bulbs, fuses, lubricants, etc.
- 5) Any Product used as a commercial unit or used as a leased or rental unit. Commercial unit means used for business for profit or income purposes at any time.
- 6) Condensation on any window or other parts, or any results of condensation.

Damage Limitations :

SunnyBrook RV, Inc. will not be responsible for any incidental or consequential damages including but not limited to loss of use of vehicle, loss of time, inconvenience, expense for travel, lodging, transportation charges, loss or damage to personal property or loss of income. Some states do not allow the exclusion of limitation of incidental or consequential damages, so the above limitation on damages may not apply to you.

Oral and Implied Limitations:

NO ORAL OR IMPLIED WARRANTIES EXIST EXCEPT THOSE SPECIFICALLY EXPRESSED HEREIN, IN FACT OR IN LAW (INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE). Some states do not allow limitations on implied warranties, so the above limitation of implied warranties may not apply to you.

THIS WARRANTY MAY NOT BE AMENDED AND IS NOT ASSIGNABLE OR TRANSFERABLE.

Owner's Obligation:

Written notice of defects subject to warranty coverage must be given to the selling dealer or SunnyBrook RV, Inc., 201 14th Street, Middlebury, Indiana 46540 within 30 days after the defect is discovered by the retail purchaser. Notice must be received by the selling dealer or the Factory during warranty period or no later than 30 days after its expiration. If repairs are required, they will be made without charge, excluding any freight, after the Product is taken to the selling dealer or the Factory.

The owner is responsible for normal maintenance. However, minor adjustments (such as adjustments to the interior passage doors, cabinet doors, cabinet latches, exterior entrance doors, screen doors, compartment/baggage doors, LP regulator pressure, cabinet latches, etc.) will be performed by the selling dealer during the first 90 days of warranty coverage. Thereafter, such adjustments are the responsibility of the owner as normal maintenance unless required as a direct result of repair or replacement of a defective part under this warranty.

The owner shall contact the selling dealer or the Factory if a problem occurs which may be covered by this warranty with sufficient information to resolve the matter. The owner shall be responsible for the freight costs to the selling dealer or the Factory for warranty service.

Dealer's Obligations:

The selling dealer is obligated to maintain the Product prior to retail sale, to perform a detailed pre-delivery inspection, and to provide warranty service.

If the selling dealer is unwilling to resolve a problem which the owner is convinced is covered by this warranty, the owner should write to the Factory at the address listed above with a description of the problem and attempts made to resolve it. The Factory will review the problem to determine if this warranty is applicable, and will immediately provide written notice to the owner and the selling dealer.

Owner Registration:

The original retail purchaser and/or selling dealer should complete and mail "Warranty Registration" form at the time of the pre-delivery inspection by the owner and the selling dealer or within 30 days from and after that date.

WARNING: RETURN OF WARRANTY REGISTRATION IS A CONDITION PRECEDENT TO WARRANTY COVERAGE AND PERFORMANCE. IF THE FORM IS NOT RECEIVED COMPLETED AS DIRECTED, YOU WILL NOT HAVE A WARRANTY.

Legal Rights:

This warranty gives you the specific legal rights and you may also have other rights, including but not limited to those provided by the Magnuson-Moss Warranty Act, 15U.S.C. 2301 et seq. as well as other rights, which may vary from state to state.

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INTRODUCTION

SunnyBrook RV's management and employees would like to welcome you to our growing family of Travel Trailer and Fifth Wheel owners. Since **SunnyBrook RV's** inception in 1992, our goal has been to provide towable recreational vehicles designed and engineered to give many years of enjoyment to our customers, who love the great outdoors. This manual has been compiled to assist campers, both novice and experienced in set-up, use, and preventative maintenance for continued like-new appearance and performance from their travel trailer or fifth wheel.

Like finely crafted furniture or highly engineered automobiles, **SunnyBrook** and **MOBILE SCOUT** travel trailers and fifth wheels require care and regular maintenance to retain maximum performance characteristics. If, after taking delivery of your new trailer, it requires additional adjustment, please return the trailer to your dealer as soon as possible.

This Owner's Manual, along with the information provided in your Owner's Information Package, outlines important areas of maintenance and provides a maintenance schedule to ensure safe, trouble-free service. A good working knowledge of trailer usage, components and maintenance will help you enjoy many miles and years of recreational living.

INITIAL DEALER RESPONSIBILITY

SunnyBrook RV employees take great care in manufacturing travel trailers and fifth wheels to our high standards, which meet or exceed local, state and national codes. Each trailer has been thoroughly inspected at our manufacturing facilities prior to shipment. Every **SunnyBrook** or **MOBILE SCOUT** dealer has the responsibility to re-inspect and to prepare every travel trailer and fifth wheel during the pre-delivery phase of the sale. Dealership personnel will provide instruction in basic trailer use and features plus complete a pre-delivery inspection with you. Dealership pre-delivery instruction and inspections should be supplemented by a thorough review of all material furnished with the trailer by **SunnyBrook RV** and component and appliance manufacturers.

The dealer/customer pre-delivery instruction and inspection should review:

- TOW VEHICLE/TRAILER CONNECTIONS
- TRAILER CONNECTION MAINTENANCE
- COUPLING & UNCOUPLING
- BREAKAWAY SWITCH
- TRAILER LOADING

Pre-delivery Inspection (cont.)

- EXTERIOR INSPECTION
- INTERIOR DÉCOR INSPECTION
- EMERGENCY EXITS
- FIRE EXTINGUISHER
- DOOR, WINDOW & LOCK OPERATIONS
- FRESH WATER SYSTEM OPERATION
- WATER PUMP OPERATION
- WASTE WATER SYSTEM OPERATION
- WATER HEATER OPERATION
- LAVATORY AND TUB/SHOWER CARE
- CONVERTER FUNCTION & OPERATION
- GROUND FAULT INTERRUPTER (GFI)
- CIRCUIT BREAKERS
- INTERIOR LIGHTS, SWITCHES & RECEPTACLES
- REFRIGERATOR OPERATION
- RANGE OR RANGE/OVEN OPERATION
- FURNACE OPERATION
- OPERATION OF OTHER APPLIANCES
- MONITORING PANEL FUNCTIONS
- LP GAS SYSTEM & LP LEAK DETECTOR
- TV ANTENNA & RELATED COMPONENTS
- AWNINGS
- BED CONVERSIONS
- CURTAINS, CARPET & COUNTERTOPS
- TABLE SETUP & STORAGE
- SPARE TIRE CARRIER
- EXPLANATION OF **SunnyBrook** WARRANTY
- EXPLANATION OF COMPONENT & APPLIANCE WARRANTIES
- ACCEPTANCE OF TRAILER CLEANLINESS
- WEIGHT DISTRIBUTION

GENERAL INFORMATION

NOTE: The Owner's Manual is intended to provide general information and instruction. Product information or instruction may not apply, may be excluded or may be generalized because:

- Equipment and features described or shown may be optional or unavailable on some models.
- Ongoing design changes may not be included because of continuous product improvement.
- Specifications may change without notice.

Photographs or illustrations in this manual are representative of function and may or may not be specific in depiction of actual equipment, fabrics, interior or exterior décor or design options as installed on or in your trailer.

**THIS PRODUCT IS DESIGNED FOR
RECREATIONAL USE AND SHORT-TERM
OCCUPANCY ONLY.**

SunnyBrook travel trailers and fifth wheels are not designed or intended to be used as permanent housing. Use of this product for long term or permanent occupancy may lead to premature deterioration of appliances, plumbing, interior finishes, fabrics, carpeting and drapes. Damage or deterioration due to long term occupancy may not be considered normal, and may constitute misuse, abuse, or neglect under the terms of the warranty, therefore reduce your warranty protection.

TOW VEHICLE RECOMMENDATIONS

MANUFACTURER SPECIFICATIONS

SunnyBrook RV travel trailers and fifth wheels are designed to be towed by many types of vehicles. When selecting a vehicle used for towing travel trailers and fifth wheels, it is important to comply with vehicle manufacturer specific recommendations concerning towing capabilities and restrictions. Many vehicle manufacturers and dealers can provide special towing packages based on specific requirements, such as trailer size, maximum trailer load and tow vehicle demands during travel (i.e. terrain, trip lengths, etc.).

VEHICLE TUNE-UP

Proper vehicle maintenance is necessary including engine tune-ups and lubrication. An engine may overheat on long upgrades, which may be prevented with a larger, heavy-duty radiator and proper care.

BATTERY AND ALTERNATOR

During travel the tow vehicle battery and alternator must support some of the trailer's electrical equipment including taillights, turn signals, brake lights, clearance lights and electric brakes. The battery and alternator must be in good condition and able to handle this load.

HITCHES

Many types and ratings of trailer hitches are available. Important factors when selecting the proper hitch are:

- Follow the tow vehicle manufacturer's and the hitch manufacturer's recommendations to ensure proper installation and size requirements.
- Keep the tow vehicle and the trailer level to maintain equal weight distribution and ensure maximum steering control.
- Heavier springs and/or overload shock absorbers will help increase hitch load capacity.

ELECTRONIC BRAKE CONTROLLERS

Many types of electronic brake controllers are available. Consult your dealer to determine specific needs. Insist that any electronic brake controller be installed per the manufacturer's instructions.

It may be necessary to install a resistor in the trailer's braking system. If the trailer skids or the brakes grab, a resistor in the circuit may remedy the problem. Follow the individual resistor's instructions. Do not use more than one resistor in the circuit.

REAR VIEW SIDE-MOUNTED MIRRORS

Rear view, side-mounted mirrors on both driver and passenger sides of the tow vehicle are a necessity. Side-mounted mirrors provide a clear view of following traffic and an unobstructed view of the trailer action. They should be properly extended offering an unobstructed view of the rear of the trailer and possible traffic hazards.

TRAILER LOADING

A travel trailer chassis (springs, wheels, tires axles, frame and tongue) is engineered to carry certain maximum load.

WEIGHT DISTRIBUTION

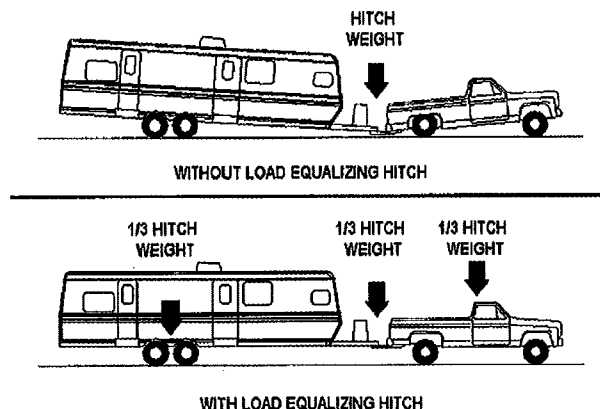
Proper weight distribution between axles and tongue is also critical to safe towing. Factors to consider when evaluating proper weight distribution are:

- On travel trailers, tongue proportion of the GROSS VEHICLE WEIGHT should be approximately 10% to 15% for tandem axle trailers. Depending on the tow vehicle, 11% to 12% tongue-weight is ideal. Hitch weight proportion on fifth wheels is a larger percentage of the GROSS VEHICLE WEIGHT.
- Proper distribution required for towing stability, assures the trailer is not rear, front, or side heavy.
- A light tongue weight or heavy weight placed at the rear end of the trailer may cause trailer sway.

Too much weight on the tongue can overload the tow vehicle, and cause poor tow vehicle stability and handling, poor braking, poor cornering, and may damage the trailer frame.

TRAVEL TRAILER EQUALIZER HITCHES

Travel trailer load equalizer hitches can add 33% plus or minus of hitch weight to trailer axles when the trailer and tow vehicle are level. If the tow vehicle tilts front or rear, the tension on the equalizer bars will affect the amount of weight distributed to the axles.



Effect of Equalizer Hitches

REAR BUMPER LIMITATIONS

The rear bumper of a travel trailer or fifth wheel is not intended to be a weight bearing structure. The bumper is not capable of supporting any additional weight beyond that of the tire carrier and spare tire. Besides being unable to support added weight, adding weight to the rear of the travel trailer will affect the hitch weight and the stability of the trailer while towing.

WARNING: The rear bumper of travel trailers and fifth wheels are not designed to support more than 70 pounds.

WEIGHT RATINGS

The Sample Trailer Weight Information label (which is located inside the kitchen sink cabinet door on almost all *SunnyBrook* or *Mobile Scout* trailers and fifth wheels) below provides weight data critical to understanding the maximum load of a travel trailer or fifth wheel:

TRAILER WEIGHT INFORMATION	
VIN OR SERIAL NUMBER	
GVWR (GROSS VEHICLE WEIGHT RATING) IS THE MAXIMUM PERMISSIBLE WEIGHT OF THIS TRAILER WHEN FULLY LOADED. IT INCLUDES ALL WEIGHT AT THE TRAILER AXLE(S) AND TONGUE OR PIN.	
UVW (UNLOADED VEHICLE WEIGHT) IS THE WEIGHT OF THIS TRAILER AS MANUFACTURED AT THE FACTORY. IT INCLUDES ALL WEIGHT AT THE TRAILER AXLE(S) AND TONGUE OR PIN. IF APPLICABLE, IT ALSO INCLUDES FULL GENERATOR FLUIDS, INCLUDING 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 WATER HEATER), FULL LP-GAS WEIGHT.	
CARGO CARRYING CAPACITY (CCC) COMPUTATION	<div style="display: flex; justify-content: space-around; font-weight: bold;"> POUNDS KILOGRAMS </div>
GVWR	
MINUS UVW	
MINUS FRESH WATER WEIGHT OF GALLONS @ 8.3 LB/GAL	
MINUS LP-GAS WEIGHT OF GALLONS @ 4.5 LB/GAL	
= CCC FOR THIS TRAILER*	
<p>*DEALER INSTALLED EQUIPMENT WILL REDUCE CCC</p> <p>CONSULT OWNER MANUAL(S) FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES.</p>	

CD-132

Sample Trailer Weight Information Label

This tag is affixed inside a lower sink cabinet door in most travel trailers & fifth wheels.

- The maximum load for which a trailer is designed is the **GROSS VEHICLE WEIGHT RATING (GVWR)**. GVWR is the maximum permissible weight of the trailer. The weight of the empty trailer, plus weight added in the form of water, food, clothing, and anything else in or attached to the trailer must not exceed the GVWR. In other words, the GVWR is equal to or greater than Unloaded Vehicle Weight plus the Cargo Carrying Capacity.
- The **UNLOADED VEHICLE WEIGHT (UVW)** is the weight of the travel trailer or fifth wheel as manufactured. It includes all weight on the trailer axles and tongue or pin.
- **CARGO CARRYING CAPACITY** is the maximum weight of personal belongings, food, fresh water, LP gas tools, accessories, etc. that can be loaded.

Additionally, The **GROSS AXLE WEIGHT RATING (GAWR)** provides the maximum weight a specific axle is designed to carry. This weight rating represents the allowable empty vehicle's axle weight plus Cargo Carrying Capacity excluding the hitch weight. The weight is divided between each axle and each has its own GAWR. The total of axle load plus the tongue weight must not exceed the trailer GVWR. The GAWR is located on the manufacturer's tag located on the left-side front corner outside the trailer.

DETERMINING TRAILER WEIGHT

To determine the weight of a loaded trailer:

1. Locate public weight scale.
2. Park your trailer and disconnect it on the scale. Both wheels and jack(s) should be on the scale.
3. The reading will be the Gross Vehicle Weight of the trailer and should not exceed the GVWR as indicated on the manufacturer tag.

To determine Gross Axle Weight - Both Axles:

1. Leave trailer connected to the tow vehicle.
2. Be certain the trailer is level.
3. Leave the tow vehicle off the scale.
4. Roll forward far enough so both trailer axles are on the scale.
5. The reading will be the total Gross Axle Weight for both axles.

To determine Gross Axle Weight - Each Axle

1. Leave trailer connected to the tow vehicle.
2. Be certain the trailer is level.
3. Leave the tow vehicle off the scale.
4. Roll forward far enough so only rear trailer axle (two tires) is on the scale.
5. The reading will be the Gross Axle Weight for the rear axle.
6. Subtract the total Gross Axle Weight from the rear axle weight to calculate the front axle weight.

To determine hitch weight:

1. Subtract the total Gross Axle Weight reading from the Gross Vehicle Weight reading. This figure is the loaded hitch weight.
2. If equalizer equipment is installed, this will affect both hitch and axle weight.

IMPORTANT: Determine hitch and axle weights with both vehicles level.

- Tilting the trailer forward will add front axle weight.
- Hitch weight and tension of the equalizer bars will be affected by leveling the trailer and tow vehicle.
- Have the tow vehicle level if equalizers are used.
- Have tire pressure up to specifications as indicated on the tire sidewall.

Consider load weights when determining weight distribution. Proper trailer positioning and loading are important not only for ease of hauling, but for safety. Remember: 10% to 15% of a travel trailer's weight should be on the hitch. A fifth wheel will be slightly more as a percentage.

Heavier items should be placed over the axles. Avoid placing too much weight at the front or rear of the trailer. Excess weight in/on the rear of the trailer can have a negative effect on the stability of both vehicles.

Stability and weight can be affected if waste is in the holding tanks or water in the fresh water holding tank.

CAUTION: Do not attach such items as motorcycles, fuel or water containers, etc. on the rear of your trailer.

SECURE FOR TRAVEL

Before starting out, make certain everything is secure in the trailer.

- Check cabinets and drawers; make sure nothing can spill in cabinets or refrigerator.
- Ensure that the refrigerator latch is engaged.
- Lock windows and rockguards.
- Close roof vents.
- Secure loose chairs and other items.
- Disconnect all hoses and close all valves.
- Make sure electrical cords and adapters have been disconnected and put away.

HITCH CONNECTION

Using the proper hitch on the tow vehicle is critical for maximum safety when towing a travel trailer. Load-leveling or load-equalizing hitches with anti-sway bars are recommended for added stability and maneuvering. Several factors need to be considered when selecting the proper hitch including:

- Gross weight of the trailer.
- Tongue weight.
- A welded or bolted weight-carrying hitch on the frame or body of the tow vehicle.
- A 2 5/16 inches hitch ball. (Lubricate the hitch ball periodically).

Consult your dealer and/or a representative of your tow vehicle manufacturer in selecting a hitch and accessories for your trailer.

SAFETY CHAINS

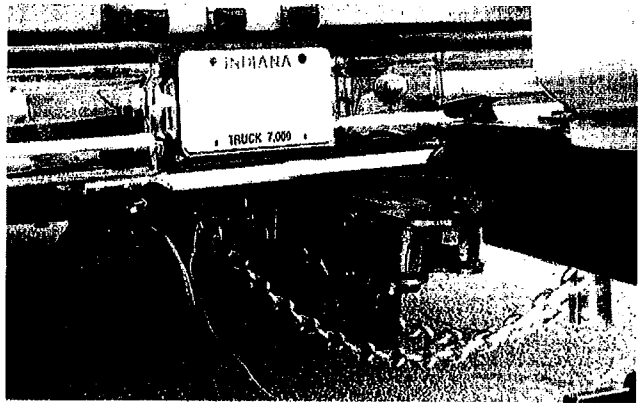
The Department of Transportation federally mandates use of safety chains on travel trailers. Safe towing recommendations include:

- Attach safety chains to the tow vehicle separate from the hitch.
- Leave only enough slack in each length of chain to permit the vehicle to turn during normal driving.
- The chains should not contact the ground or road surface.
- Cross the chains from the trailer hitch to the tow vehicle.
- When all connections are secure, be certain the 7-pin electrical connector cord and the breakaway switch lanyard cable are longer than the extended safety chains.
- Should the hitch ball become disengaged from the coupler, the safety chains will extend, the 7-pin connector should remain connected to the tow vehicle for braking and the breakaway switch should not engage.

VEHICLE & TRAILER HOOK-UP

Connecting the tow vehicle hitch to the coupler on the travel trailer or fifth wheel is a simple procedure, described by the following:

TRAVEL TRAILERS



Travel Trailer Hitch Connection

1. Before dropping the coupler over the hitch ball, the coupler-locking arm must be in an unlocked position.
2. The coupler should be slightly behind the ball (away from the tow vehicle), permitting the coupler to slide down over the ball positively.
3. After locking the coupler over the ball, **BE CERTAIN THE BALL IS FULLY ENGAGED WITH THE COUPLER.**
4. Attach the safety chains to the tow vehicle. Be sure to cross the chains from the trailer hitch to the tow vehicle. **Be careful to leave slack in each length of chain to permit the vehicle to turn during normal driving.**
5. Check the vehicle's turning capabilities.
6. Attach the connector plug on the trailer to the electrical connection on the tow vehicle. Be sure there is slack in the cord to make sharp turns.
7. The breakaway device is located on the trailer tongue. It has a steel cable fastened to it, which will reach to the frame of the tow vehicle. The steel cable (lanyard) should be attached to a secure part of the tow vehicle, separate from the hitch, such as the frame.
8. The breakaway device is connected to the trailer battery and will operate independently to apply the trailer brakes should the trailer become disconnected from the tow vehicle.
9. Apply trailer brakes only and proceed very slowly to confirm proper engagement of the hitch and brake operation.
10. Test all exterior lights on the trailer.

FIFTH WHEELS



Fifth Wheel Hitch Connection

1. Open the hitch locking device in the truck.
2. Lower the tailgate of the truck. **NOTE:** If not required, the rear tailgate can be removed to simplify coupling and uncoupling.
3. Back the truck to engage the kingpin in the hitch latchplate. It is important the pinbox and hitch latchplate are as level as possible.
4. Latchplates will engage the kingpin automatically on some hitches, but the handle grip must be pushed to the locked position (see manufacturer's instructions for full details). On other hitches, the same lever will be used to engage the kingpin (manually) and to lock it in position.
5. **IMPORTANT:** Visually check that the hitch is locked to the small diameter portion of the kingpin.
6. Raise the tailgate of the truck.
7. Raise the front jacks of the fifth wheel trailer.
8. Plug the electrical connector cord into the receptacle on the truck.
9. Attach the safety cable for the break-away device to part of the truck hitch. Keep the cable in a straight line with the switch on the trailer as much as possible and allow enough slack for turns.
10. Apply trailer brakes only and proceed very slowly to confirm proper engagement of the hitch.
11. Test operation of all exterior lights on the trailer.

BREAKAWAY DEVICE

Should your trailer become completely disconnected while being towed, the breakaway device is designed to actuate the trailer brakes and bring it to a stop, preventing a runaway trailer. The switch has a pull-pin linked to the tow vehicle with a steel cable; the cable pulls the pin free. This causes two contacts in the

device to go together, immediately closing the circuit between the trailer battery and the trailer brakes.

CAUTION: Never tow a trailer without the trailer battery being hooked up and fully charged. Attach the breakaway lanyard cable so it is longer than the safety chain. When connected to the vehicle, the pull on the pin is in a straight line with the cable. Do not hook the cable over the trailer ball.

SUSPENSION & TIRES

The suspension system of your new travel trailer or fifth wheel consists of tandem axles, leaf-type springs, wheels, tires and electric brakes on each wheel. The following is an overview of these components:

AXLES & LEAF SPRINGS

SunnyBrook RV installs **Dexter** axles, suspended on heavy-duty, double-eye leaf springs. **Dexter** axles are designed to absorb sharp jolts from the road, prevent jolts from being transmitted to the trailer and maintain full tire contact with the road.

Spring shackle mounts are welded to the steel frame of travel trailers. Adjustable, multi-hole, plate mounts are welded to fifth wheel frames. The springs and shackle bolts are self-lubricating, therefore no lubrication is required. Check the shackle bolts periodically for tightness. Do not reuse shackle bolts/nuts, if an axle must be removed. Self-locking nuts must be replaced if removed.

The warranty, features, benefits, and maintenance guidelines of **Dexter** axles are included in the Owner's Information Package. Contact any *SunnyBrook RV* dealer with questions regarding axle components.

TIRES

Premium quality radial tires are installed on every *SunnyBrook RV* product. Every tire meets or exceeds load and wear specifications for trailer use. For safety, trailer stability, and maximum tire life, proper inflation pressure must be maintained. The load range and maximum cold inflation pressure are stamped on the sidewall. Always inflate the tires to this maximum pressure.

A tire gauge should always be part of your tool kit. Check tire pressures before starting out, when the tire is cold. Do not bleed air out of warm tires. Inflation specifications are for cold tires.

Inflate the rear tires of the tow vehicle to the maximum cold inflation pressure stamped on the tire sidewalls. This higher rear tire pressure improves tow vehicle stability.

WARNING: CHECK TIRE PRESSURES OFTEN. ALWAYS CHECK PRESSURE WHEN TIRES ARE COLD. DO NOT EXCEED MAXIMUM RECOMMENDED PRESSURE.

WARNING: KEEP TIRES PROPERLY INFLATED. TIRES MAY LOSE AIR SUDDENLY AND/OR CATCH FIRE, IF DRIVEN FOR LONG DISTANCES OR AT HIGH SPEEDS WHILE SERIOUSLY UNDER INFLATED. TIRES COULD OVERHEAT TO A POINT WHERE DAMAGE TO THE VEHICLE, CONTENTS AND/OR PERSONAL INJURY MAY OCCUR.

CHANGING TIRES

1. Turn on the tow vehicle's hazard warning flashers.
2. Set up flares or warning lights.
3. Chock the opposite tire and unhitch the trailer from the tow vehicle, or **ELIMINATE TENSION ON EQUALIZER BARS, IF APPLICABLE.**
4. Place scissors-type or hydraulic jack on a block of wood directly **UNDER THE FRAME**, close to the tire you intend to change. **CAUTION: When using bottle-type jacks, a metal plate or block of wood to relieve stress against the steel frame should be inserted between jack and frame.**
5. **DO NOT** use a bumper jack. It may damage the sidewalls or floorboard of the trailer.
6. Raise the jack to take weight off the tire.
7. Loosen the lug nuts.
8. Raise the jack until the tire clears the ground.
9. Remove the lug nuts and old tire and put the spare on the hub.
10. Replace and tighten the nuts.
11. Lower the jack until the tire touches the ground.
12. Tighten the lug nuts to a torque of 90 to 95 ft. lbs.
13. Lower and remove the jack.
14. Hook up equalizer bars, if applicable.
15. **CHECK THE TORQUE IMMEDIATELY.**

BRAKE SYSTEMS

BRAKE SYSTEM COMPONENTS

1. **Tow Vehicle Battery.** This is the primary power source for the trailer braking system. The connection is made at the positive post of the battery, or at the tow vehicle starter solenoid battery terminal.

2. **Brake Controller.** Electric trailer brakes are automatically applied by the brake controller, which is usually mounted within easy reach of the driver. Connect an electric brake controller to the brakes with 12 gauge, stranded wire. Some controllers are connected to the tow vehicle's hydraulic brake system, and are actuated when tow vehicle brakes are applied.

Other information about brake controllers:

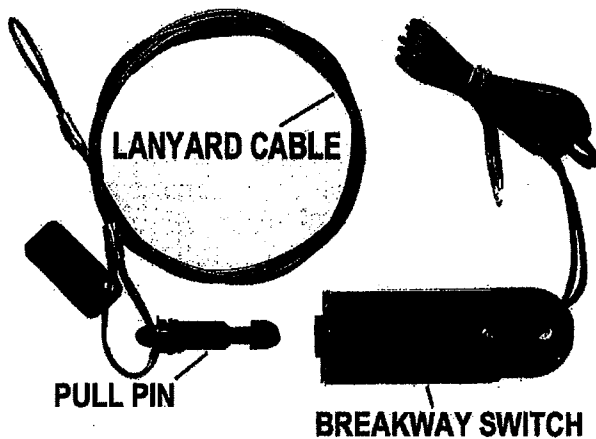
- Most experienced drivers prefer to have the trailer brakes set to engage slightly before the tow vehicle brakes.
- If during rainy weather or slippery road conditions, the tow vehicle brakes first, the trailer will have a tendency to push the tow vehicle or possibly "jackknife".
- Lag time can be adjusted by turning the brake controller knob. The new setting will be retained until a new adjustment is made.
- Brake controllers usually have a manual feature, allowing the trailer brakes to be applied independently of the tow vehicle brakes.
- Consult instructions supplied with the controller for further information.

WARNING: DO NOT INSTALL A FUSE IN THE CIRCUIT BETWEEN THE TOW VEHICLE BATTERY AND AN ELECTRIC OR ELECTRONIC BRAKE CONTROLLER. A BLOWN FUSE WOULD CAUSE THE CONTROLLER TO CEASE FUNCTIONING AUTOMATICALLY AND MANUALLY, CAUSING LOSS OF TRAILER BRAKING WITH NO ADVANCE WARNING. CIRCUIT PROTECTION SHOULD BE INSTALLED PER INSTRUCTIONS PROVIDED BY BRAKE CONTROLLER MANUFACTURER.

3. **Connector Plug.** The 7-pin connector on the trailer hitch transfers 12 Volt DC electrical power from the tow vehicle battery to the trailer brakes, exterior lighting system, and battery. Make certain that when all hitch connections are made that the 7-pin connector is longer than the extended safety chains. For safety and extended connector life:

- Keep the plug clean, tight and protected from the elements.
- Inspect it carefully every time you hitch up.
- Be certain there is a 10 gauge, stranded, insulated copper "charge line" from the alternator on the tow vehicle to the trailer's 12-volt connector. The "charge line" will keep the trailer battery charged while traveling.
- A 30-amp circuit protector should be installed near the alternator connection.

4. **Breakaway Switch.** This device is a vital component of the trailer's braking system. The breakaway switch is located on the trailer tongue.



Breakaway Switch & Lanyard Cable

The basic concept of a breakaway switch is:

- A steel cable (lanyard) is fastened to the switch, which should connect to the frame of the tow vehicle.
- When connected to the tow vehicle frame, the lanyard cable should be longer than the extended safety chains.
- It automatically applies the trailer brakes if the tow vehicle and trailer become uncoupled while in motion.
- The breakaway switch operates when a pull pin linked by the cable to the tow vehicle is separated from the switch.
- As the switch closes, the trailer battery supplies power to apply the brakes..
- The steel lanyard must be anchored to the tow vehicle when the trailer is hitched. Secure this cable loop to the permanent frame of the tow vehicle, or a non-removable part of the hitch.
- DO NOT FASTEN THE BREAKAWAY SWITCH LANYARD TO THE HITCH BALL OR ANY OTHER REMOVABLE PART OF THE HITCH.**

Remove the pull pin every three months and lubricate it with light oil. Before reinserting the pin, spray the inside of the switch with an electrical contact cleaner to prevent corrosion.

Test breakaway switch operation before each trip, as follows:

- Hitch the trailer to the tow vehicle.
- Pull out the pull pin.

- Test the breaker by attempting to drive away. If the breakaway switch is functioning properly, the trailer brakes will be activated.
- If the brakes are not activated, check to make sure that the trailer battery is connected and fully charged, and the trailer brakes are properly adjusted.
- If the trailer brakes do not operate after making these checks, contact your dealer for repair.
- Reinsert the pull pin before towing the trailer.

WARNING: DO NOT TOW A TRAILER WITH A MALFUNCTIONING BREAKAWAY SWITCH. DO NOT LEAVE THE PULL PIN OUT OF THE BREAKAWAY SWITCH FOR MORE THAN A FEW MINUTES, OR THE BATTERY WILL BE DRAINED. DO NOT USE THE BREAKAWAY SWITCH FOR A PARKING BRAKE.

- Trailer Brakes.** Travel trailer and fifth wheel brakes are actuated by 12V electrical energy, converted to mechanical energy, providing power for smooth, safe, stops. Greater electrical current from the brake controller will provide greater braking force applied to the trailer brake drums.
- Grounding.** Only proper grounding back to the tow vehicle can complete the 12V electrical circuit within a travel trailer or fifth wheel brake system. A POOR GROUND CIRCUIT FROM THE BRAKES TO THE TOW VEHICLE BATTERY CAN BE AS DETRIMENTAL TO EFFICIENT BRAKING AS A POOR PRIMARY CIRCUIT FROM THE BATTERY TO THE BRAKES. Do not rely on the hitch ball/coupler for a good ground. Run a ground in the 12-volt connector to the tow vehicle battery negative post, or the tow vehicle frame. The ground conductor must be the same wire size as the "charge line".

BRAKE INSPECTION & ADJUSTMENT

Complete the following inspections before using the travel trailer or fifth wheel:

- Inspect all external braking system components.
- Inspect all wiring connections, and test the breakaway switch as outlined previously.
- Inspect the brake drums and internal components each time the wheel bearings are repacked. (See Maintenance Schedule in Dexter Owner's Manual provided with this trailer.)
- The magnets and linings should not show excessive or uneven wear.

PARKING & LEVELING

- The magnets should move freely in and out on their mounts.
- After replacing the hubs on the axle, adjust the brakes as follows, using a standard automotive brake tool:
 1. Remove the rubber plug from the adjustment hole at the base of the brake drum backing plate.
 2. Raise the wheel off the ground. Place the jack under the axle only.
 3. With the adjusting tool, turn the adjusting screw while spinning the wheel. When the wheel begins to drag heavily, back off the screw just enough for the wheel to spin freely.
 4. Replace the adjustment hole plug. Lower the wheel, remove the jack and repeat the sequence for the other wheels.

BRAKING TIPS

1. **Never use the trailer brakes alone for extended periods.**
 - They were designed to stop the trailer, not the tow vehicle.
 - Such use places excessive loads on the brakes, causing overheating, fading, and premature wear of magnets, brake shoe linings and drums.
2. **Never use the tow vehicle brakes alone.**
 - The weight of a loaded travel trailer or fifth wheel will more than double the load placed on the vehicle's brakes, with the same results as using trailer brakes alone.
 - Driving control is severely affected when tow vehicle brakes are used alone, due to the force of the trailer pushing against the tow vehicle. This is especially true on slippery pavement or loose gravel, and jackknifing can occur.
3. **Always use the automatic brake controller.**
 - The synchronized braking system enables safe driving with both hands on the steering wheel.
 - If the brake controller is properly adjusted, there will be a slight "lead" on the trailer brakes. This braking resistance, combined with the tow vehicle's engine pulling power, helps keep the two vehicles correctly aligned and help bring them to a safe, straight stop.

Park on a wide, level spot whenever possible, never on a steep slope. Being level is necessary for comfort, but it is also required for correct operation of your refrigerator and monitor panel.

SIDE TO SIDE SITE LEVELING

To level the trailer from side to side:

- Use a step ramp, which can be constructed from several lengths of 2x6 lumber
- Place under the wheels on the low side of the trailer.
- Use a bubble level to determine when the trailer is level.

FRONT TO REAR LEVELING

To level the trailer from front to rear:

- Block the wheels so that the trailer cannot roll.
- Uncouple the trailer from the tow vehicle.
- Level the trailer front-to rear, with the dolly wheel jack (Travel Trailers) or landing gear (Fifth Wheel).
- Stabilizer jacks should be placed under the frame after the trailer has been leveled. Front and rear for travel trailers. Rear only for fifth wheels.
- Some models will require stabilizer jack placement in slightly different locations.
- Stabilizer jacks are not intended to lift the trailer or support its entire weight, but to steady it while the weight is supported by the dolly wheel jack and the running gear (Travel Trailer) or landing gear (Fifth Wheel).

APPLIANCES & ACCESSORIES

All appliances and accessories installed in travel and fifth wheels are supplied by leading manufacturers in the recreational vehicle industry using the industry's highest quality standards. The Owner's Information Package contains operating instructions and warranty registrations for each appliance or accessory. Warranties should be validated with the manufacturer as soon as possible. Always operate installed appliances and accessories according to the manufacturer's explicit instruction.

WARNING: Laws in some states prohibit the operation of any gas appliance while in motion because of the danger of fire or explosion if an LP gas line under pressure happens to be ruptured in an accident.

OBTAINING SERVICE

SunnyBrook RV warrants only proper installation of appliances. Appliances are warranted by the manufacturer. In the event that any of the appliances in a **SunnyBrook** travel trailer or fifth wheel require service or replacement under the terms of the manufacturer's warranty, follow the procedures outlined by the manufacturer's instructions.

STANDARD APPLIANCES & ACCESSORIES

Appliance	Manufacturer	Features	Comments
Furnace	Atwood/Hydroflame	25,000 BTU and Optional 31,000 & 35,000 BTU	Forced Air, Thermostatic Control, LP Gas. Instructions in the Owner, Information Package.
Range Hood	Elixir Industries	Light, Single Speed,	12Volt
Power Vent	Phillips Ventline	Single Speed, 12V	Located in Bathroom
Range/Oven	Atwood Mobile Prod.	21" Piezo Ignition, 3-Burner, LP Gas	Pilot Ignition Ranges Have "Pilot Off" Setting for Travel.
WARNING: DO NOT use portable fuel-burning appliances for comfort heating. In addition to hazards from toxic fumes and oxygen depletion, open flames add moisture to the air increasing condensation.			
Refrigerator	Dometic Corporation	Single Door, Flush Mount LP Gas/110V Electric	Instructions Inside Refrigerator, Trailer must be level for efficient operation.
TV Antenna	Winegard Company	Includes Signal Amplifier, 12V	Instructions included in Owner's Information Package.
Water Heater	Atwood Mobile Prod.	6 Gal Std. Manual Pilot, LP Gas	Instructions located in water heater compartment accessible from outside.
NOTE: New chamber coatings may give off a slight odor for the first few hours of use.			
WARNING: BEFORE lighting the water heater, make sure it is full of water! Operating the water heater without water will cause damage.			
Smoke Alarm	Bob Gunn Associates	Battery Operated	Detects visible and invisible products of combustion. Audible alarm needs no adjustment. Alarm sounds when batteries are low.
Fire Extinguisher	Odyssey	Portable, Dry Chemical	Instructions included in Owner's Information Package. RATED for small grease & oil (Class B) and/or electrical fires (Class C).
LP Gas Leak Detector	CCI Controls	Wall Mount, 12V	Instructions included in Owner's Information Package, FOR LP GAS ONLY.
REMEMBER: Alarms and detectors can only warn of dangerous situations that already exist! No alarm can eliminate hazards that arise from unsafe practices.			
THE BEST SAFEGUARD AGAINST FIRE IS TO BE ON GUARD – ALL THE TIME!			

OPTIONAL APPLIANCES & ACCESSORIES

Appliance	Manufacturer	Features	Comments
Air Conditioners	Dometic – DuoTherm	Available in 13,500 or 15,000 BTU 12V/110V	Ducting & heat strip option vary.
Awnings	Dometic – A&E	Sizes range from 16' through 23'.	Center rafter required on 23', optional on others.
AM/FM Cassette Stereo	ASA Corporation	Digital tuning, 12V	
CD Player	ASA Corporation	Add on to Stereo	
Fantastic Fan	Fantastic Fan Corp	12V	Instructions included in Owner's Information Package.
Microwave Oven	Dometic	1.0 Cubic Ft., 110V	
Power Jacks	Atwood Mobile Prod.	2,500 Lb. Capacity on TT's, 4,000 Lb. Capacity on FW's	Instructions included in Owner's Information Package. 12 Volt Electric
Refrigerators	Dometic	Royale Lrg. Double Door or Extra Large Double Door.	
Satellite Dish	Winegard Company	Digital Readout Option	
Washer/Dryers	Sears – Kenmore	2 Speed Washer 2.0 CuFt Capacity, Dryer 3.4 CuFt Capacity, 110V	Prep only or installed. Does not drain to any holding tank. Make certain gate valve is open.
Water Heater	Atwood Mobile Prod.	DSI, Gas and/or Electric in 6 or 10 Gallon.	Wash/Dryer Prep requires 10-gallon water heater.
Water Filter	Hydro Life, Inc.	In-line Filtration	Instructions included in Owner's Information Package.

NOTE: Before contacting a listed vendor for warranty service, please verify the appliance's manufacturer from the information provided in your owner's packet.

ELECTRICAL SYSTEMS

12VOLT CHASSIS ELECTRICAL SYSTEM

A trailer chassis electrical system includes:

- Trailer battery
- Charging system
- Brake system
- Taillights
- Turn signals
- 12 volt convenience outlets
- 12-volt power vents
- Fans
- Motors
- Fresh water pump
- Any 12-volt entertainment equipment
- All 12-volt interior lighting fixtures
- Other vehicle lights and accessories.

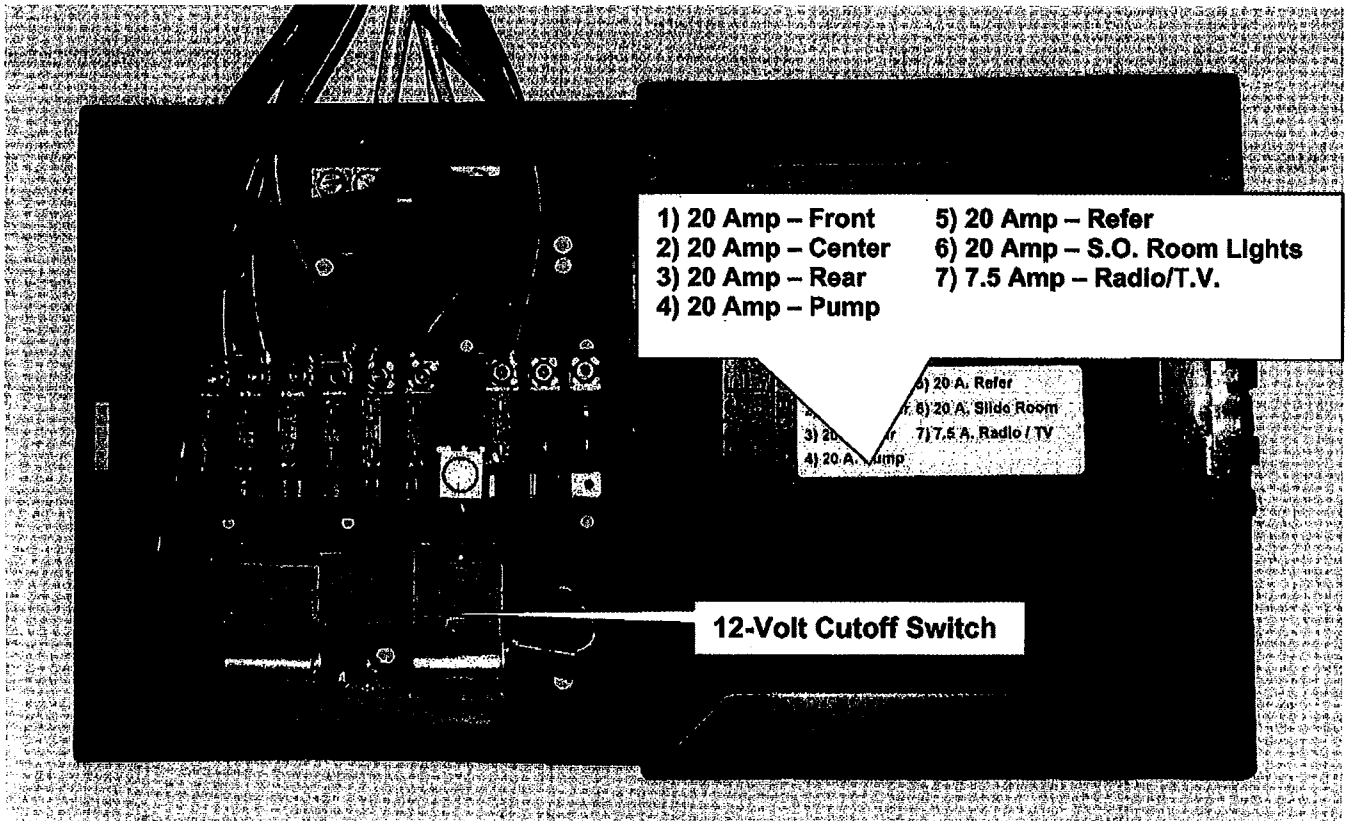
The tow vehicle's 12-volt battery, the trailer's 12-volt battery or the AC/DC power converter may provide twelve-volt power. The battery's charge is maintained by the tow vehicle alternator, or by the charging circuit included in the power converter.

12-VOLT FUSE BLOCK PANEL

Fuses for the 12-volt trailer DC circuits are located at the fuse block panel. The fuse block panel is located in an overhead cabinet in various locations by model. Fuses are automotive type and should always be replaced with the same type and amperage rating. Replace bulbs with same type or equivalent.

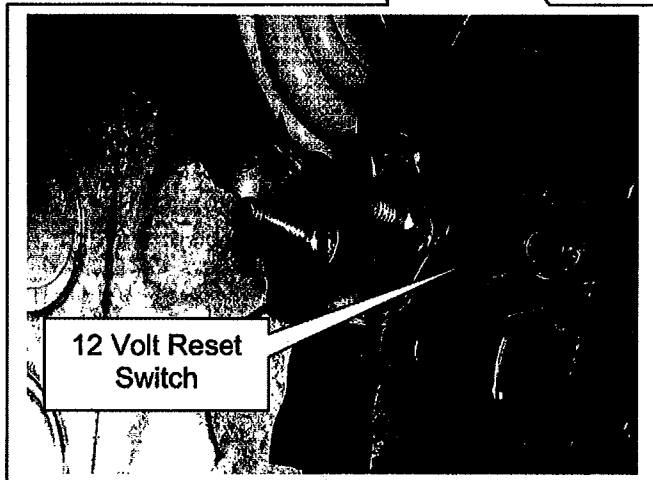
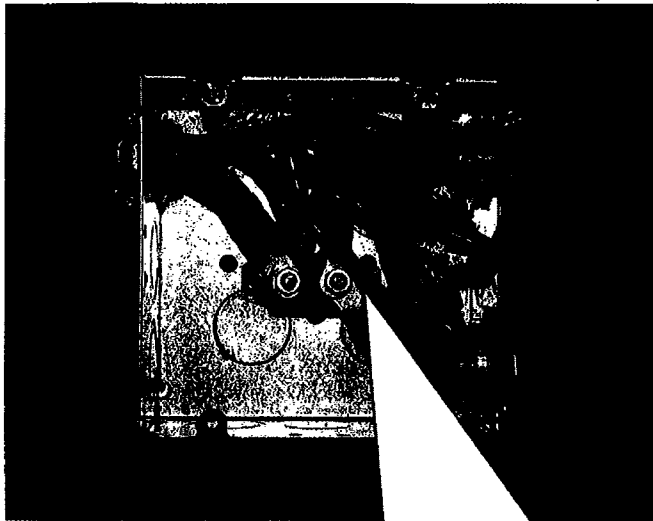
The fuse block panel also includes a 12-volt power cutoff switch. The cutoff switch when disconnected will avoid constant drain on the trailer battery when not in use.

WARNING: DO NOT INSTALL 12-VOLT FUSES WITH AMPERAGE RATINGS GREATER THAN THAT SPECIFIED ON FUSE BOX LABEL.



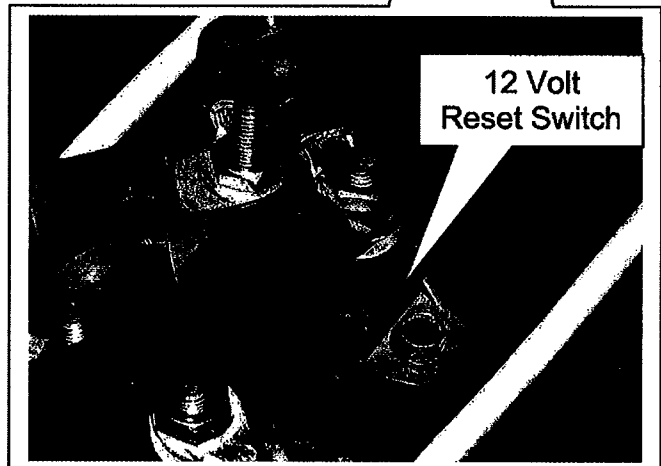
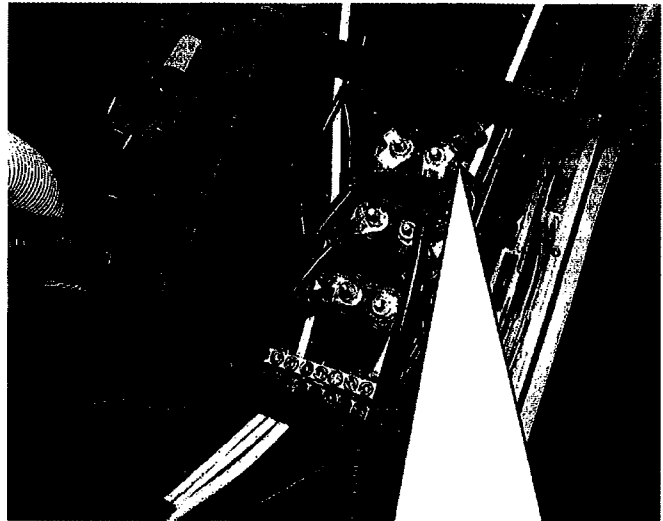
12-VOLT CIRCUIT BREAKER & RESET

In all units, 30-amp circuit breakers have been installed to protect the trailer's 12-volt electrical system.



In-Line 30-Amp Circuit Breaker w/Reset Switch in Travel Trailers

In travel trailers, the circuit breaker with reset switch will be located inside a covered 4-inch square junction box attached inside the front cross member of the A-frame. Additional 30-amp circuit breakers may be used for slide-out switch protection. Those circuit breakers will be located inside a plastic junction box in a cabinet near the slide-out wall switch.



In-Line 30-Amp Circuit Breaker in Fifth Wheels

In fifth wheels, the circuit breaker with reset switch will be located inside a covered plastic fuse box attached inside the off-door side baggage compartment with additional 30-amp breakers for slide-out protection and other 12-volt circuits.

NOTE: Not all 30-amp circuit breakers are equipped with the reset switch as shown in the picture above. Resets on 30-amp circuit breakers for slide-out motors are automatic reset switches.

12 VOLT FUSE BOX LOCATIONS	24FB	26FK	26DB	26CKS	29DBS	29RBS	30FK	30FBS	30FKS	33FKS	24CKFS	27RKFS	30RKFS	33RKFS	33RLTS	33BWS	31BWFS	34BWTS
In overhead cabinet behind the sofa	X	X	X				X											
In the bathroom medicine cabinet				X												X		
In the overhead cabinet at the kitchen sink					X	X		X			X							
In the overhead cabinet above the T.V. shelf									X	X								
In the cabinet above the toilet												X	X	X	X		X	X

120 VOLT FUSE BOX LOCATIONS	24FB	26FK	26DB	26CKS	29DBS	29RBS	30FK	30FBS	30FKS	33FKS	24CKFS	27RKFS	30RKFS	33RKFS	33RLTS	33BWS	31BWFS	34BWTS
In the bedroom on the off-door side	X	X		X			X		X									
In wardrobe in front of the bathroom door			X															
Inside the T.V. cabinet						X					X		X	X		X	X	
Inside the wardrobe by the rear entrance door								X										
In the bedroom under the wardrobe										X								
Inside the bathroom linen closet												X						
Underneath the rear bunk beds					X													
Inside the pantry by the entrance door															X			X

120 VOLT AC SYSTEM

The 120-volt AC system provides grounded electrical service for the refrigerator and optional appliances such as air conditioners, microwave ovens, water heaters, TV, etc. Other appliances such as toasters, lamps, etc. may also operate on the 120-volt system.

The 120-volt system also provides a power source for the power converter. The trailer is equipped with a heavy-duty power cord to connect to an external 120-volt, 30-amp rated AC service.

- The cord and connector are molded together to form a weatherproof cable assembly.
- Do not cut or alter the cable in any way.
- Do not remove the cable connector ground pin or bypass the ground circuit of the trailer.
- Be sure the ground is maintained if an adapter is used to plug into an electrical service,
- Do not use a two-conductor extension cord, or any cord or cable that does not assure appropriate and adequate ground continuity.
- **NEVER** plug the 120-volt cord into an ungrounded receptacle.

WARNING: DO NOT OPERATE THE 120-VOLT ELECTRICAL SYSTEM WITHOUT A PROPER GROUND.

THE POWER CONVERTER

The power converter is the nerve center of the 12-volt DC and the 120-volt AC system.

- The power center will supply 12-volt requirements when operating on 120 AC volts.
- The onboard battery will gradually be brought to a full charge and maintained by the 6-amp battery charger as long as 120-volt power is available.
- The LP leak detector and other 12-volt components continually consume small amounts of current even when switched "OFF". The trailer's battery will fully discharge within 72 hours if not recharged during that period or if the power center is not connected to a 120-volt AC source.

DISCONNECT THE BATTERY IF YOU ARE NOT USING YOUR TRAILER.

GROUND FAULT INTERRUPTER

Kitchen, bathroom and patio 120V electrical outlets are protected by a Ground Fault Interrupter (GFI). This device is provided in compliance with ANSI A119.2/NFPA 501C requirements, and is intended to protect against hazards of line to ground electric faults and electrical leakage shocks possible when using electrical appliances in the bathroom or damp areas.

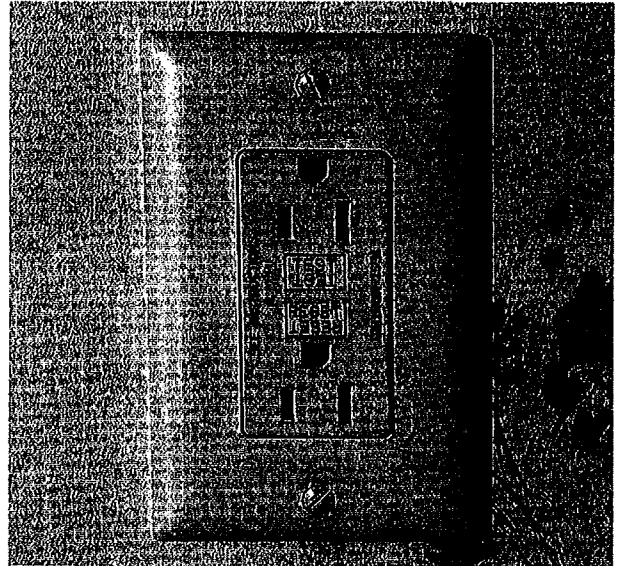
1. Insulation materials for appliances and devices can deteriorate over time or develop cracks allowing electric current to "leak" through insulation.
2. Should a circuit or appliance (electric shaver, hair dryer, etc.) develop shock hazard of this type, the GFI device will disconnect the outlet (and other outlets on the same circuit), limiting exposure to current leakage to ground.
3. **The GFI device does not prevent electric shock, nor does it protect a person who touches both "hot" and neutral sides of the circuit. It does not protect against electrical circuit overloads.**

Test the GFI at least once a month while operating on 120 volts AC. To test the GFI:

1. Push the "TEST" button. The "RESET" button should pop out, indicating that the protected circuit has been disconnected.
2. **IF THE "RESET" BUTTON DOES NOT POP OUT WHEN THE "TEST" BUTTON IS PUSHED, A LOSS OF GROUND FAULT PROTECTION IS INDICATED. DO NOT**

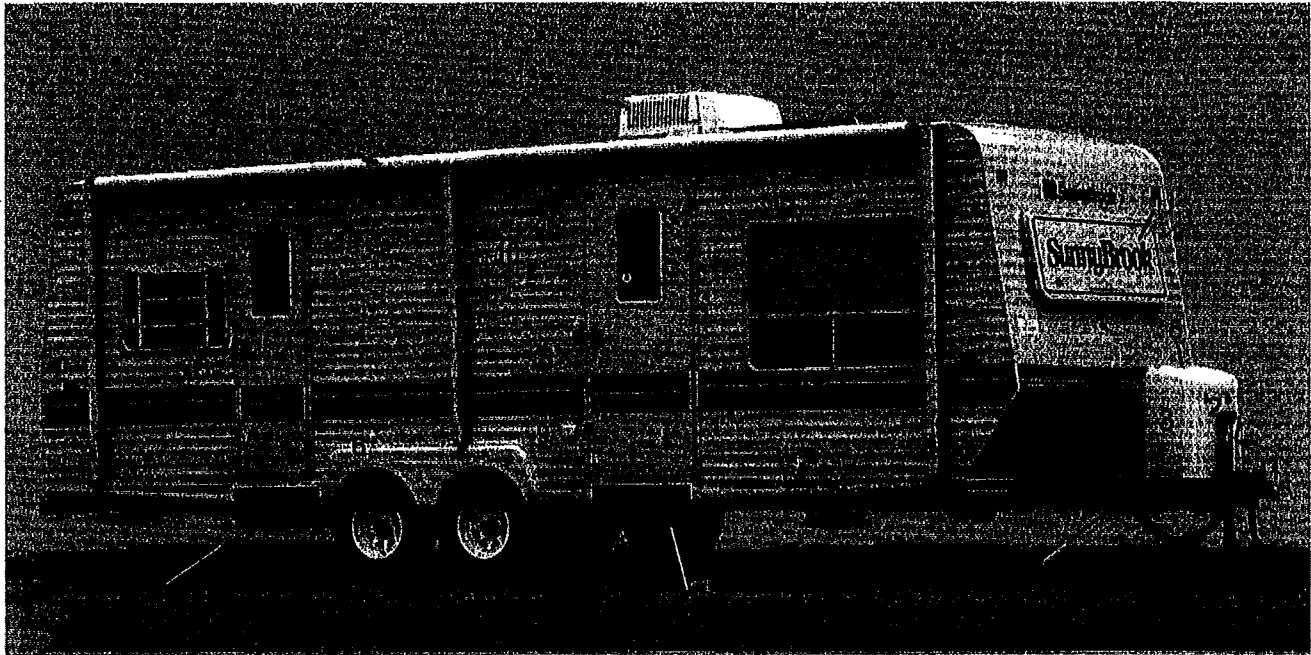
USE THE OUTLET OR OTHER OUTLETS ON THE SAME CIRCUIT.

3. **HAVE THE TRAILER ELECTRICAL SYSTEM CHECKED AT AN AUTHORIZED SERVICE CENTER OR BY A QUALIFIED ELECTRICIAN.**
4. **DO NOT USE THE SYSTEM UNTIL THE PROBLEM HAS BEEN CORRECTED.**
5. To restore power, push the "RESET" button.

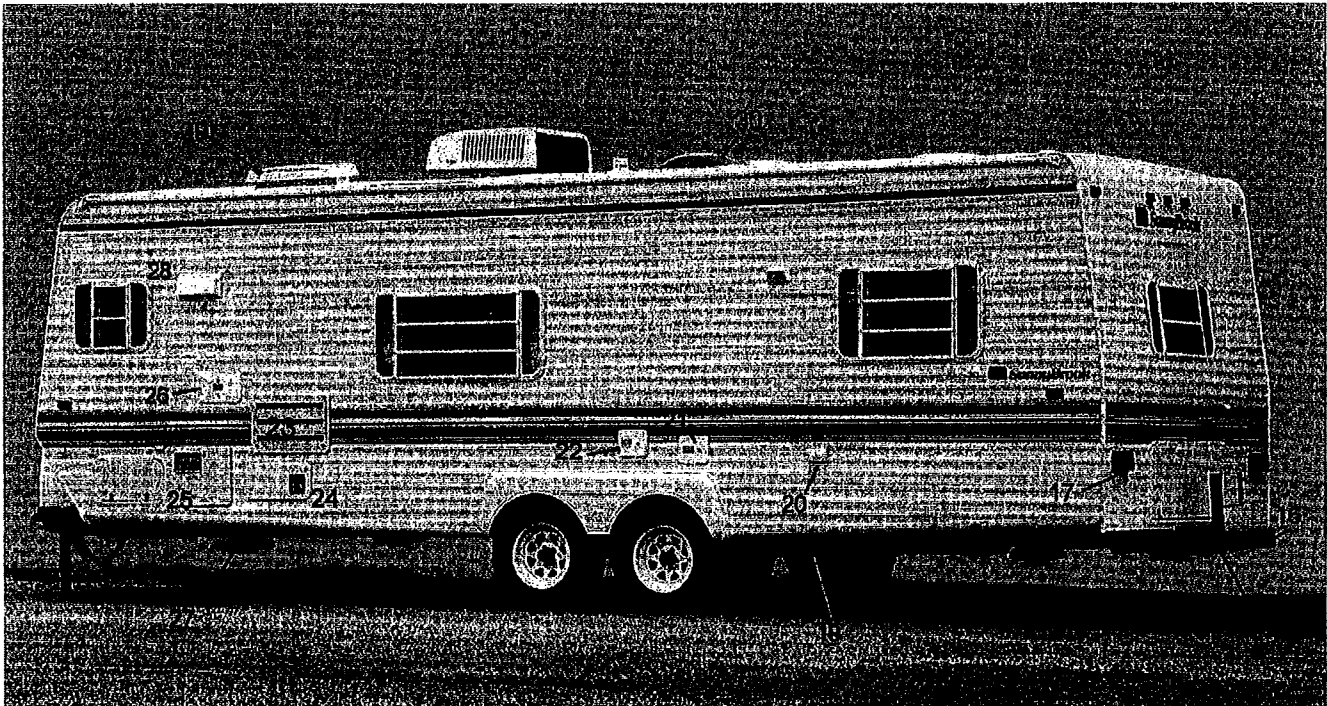


Ground Fault Interrupter Receptacle with Reset

Single or Double Ceiling Fixture	921
Wall Lamp with Cloth Shade	1076
Glass Shaded Fixture Above the Dinette	1141
Cosmetic Strip in Bathroom	9-019F
Light Under Bed Platform	212.2
Fluorescent Light in Kitchen	F8T5CW
Metal Endwall Tail Light	1157
Fiberglass Endwall Tail Light	3157
Clearance Lights	C-194
Porch Lights	C-912
Refrigerator Light	GE7576
Upgrade Wall Light in Bedroom	C-912
Range Hood Light	912



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|--------------------------------|--------------------------------------|----------------------------------|
| 1. Hitch Coupler | 11. Rockguard Awning – Optional | 21. 110V Power Cord Compartment |
| 2. Tongue Jack | 12. TV Antenna – Optional | 22. City Water Connection |
| 3. LP Gas Tanks | 13. Air Conditioner – Optional | 23. Refrigerator Access Door |
| 4. Battery Tray | 14. A&E Awning – Optional | 24. Furnace Vents |
| 5. Hitch Light | 15. A&E Center Rafter Arm – Optional | 25. Water Heater Access Door |
| 6. Entry Door Latch | 16. Sewer Hose Carrier | 26. Outside Shower – Optional |
| 7. Entry Step | 17. License Plate Bracket Holder | 27. Stabilizing Jacks – Optional |
| 8. Assist Handles | 18. Spare Tire Bracket - Optional | 28. Range Hood Vent |
| 9. Electrical Patio Receptacle | 19. Waste Tank Dump Valve | 29. Refrigerator Roof Vent |
| 10. Patio Light | 20. Park Cable/Phone Jack - Optional | 30. Skylight - Optional |





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|---------------------------------|---|--------------------------------------|
| 1. Pin Box | 12. Water Heater Access Door | 23. Dump Valve Controls |
| 2. Hitch Light | 13. Range Hood Vent | 24. Patio Light |
| 3. LP Gas Tanks Compartment | 14. Patio Light | 25. City Water Connection |
| 4. Battery Compartment | 15. Awning Center Rafter Arm - Optional | 26. Stabilizer Jack |
| 5. Fresh Water Connection | 16. Refrigerator Roof Vent | 27. Spare Tire Carrier - Optional |
| 6. Entry Door Catch | 17. Awning - Optional | 28. License Plate Holder |
| 7. Entry Step | 18. Battery Box Vent | 29. Roof Rack & Ladder - Optional |
| 8. Lighted Assist Handle | 19. Jack Crank Handle Hatch | 30. Air Conditioner - Optional |
| 9. Refrigerator Access Door | 20. Outside Shower - Optional | 31. TV Antenna - Optional |
| 10. Furnace Vent | 21. Park Cable/Phone Jack - Optional | 32. Skylight - Optional |
| 11. Electrical Patio Receptacle | 22. 110V Power Cord Compartment | 33. Slide-out Room Topper - Optional |



FRESH WATER SYSTEM

Fresh (potable) water is supplied from one of two sources:

FRESH WATER STORAGE TANK

Water is stored in an on-board storage tank and is distributed to the various faucets by an automatic, self-priming pump which is operated by the 12V electrical system. This pump will function when power is available and the pump switch is "ON".

This water storage tank is filled through a special filler cap outside the vehicle.

1. Before filling the tank, turn the pump switch to "OFF".
2. Open the filler cap on the outside of the trailer.
3. Pour the water in from a bucket, or use a hose.
4. When the tank is full, close the cap before turning the pump switch to "ON"

CAUTION: OVERFILLING THE FRESH WATER TANK FROM A PRESSURIZED SOURCE MAY CAUSE SERIOUS DAMAGE TO THE WATER TANK OR STRUCTURAL COMPONENTS. MONITOR WATER TANK FILLING CONTINUALLY.

CITY WATER

Water, under pressure, is provided when the trailer is connected to a park or city water supply. Connect the trailer as follows:

1. Turn the 12V water pump to "OFF".
2. Remove the protective cap on the city water fill, and connect a hose between the city water supply and the city water fill on the trailer.
3. An in-line 60 psi pressure regulator is recommended to protect the trailer's water system.
4. Open the city water supply valve.
5. Open the faucets in the trailer and let the water run a few minutes to clear the lines.

NOTE: As long as the water system is hooked up to a city water supply, the on-board storage tank and the 12V pump are isolated from the system. Do not turn the pump to "ON" until the city water supply is disconnected in order to avoid damage to the pump.

FRESH WATER SYSTEM SANITIZING

Sanitize the fresh water tank and piping at least once a year or whenever the trailer sits for a prolonged period. This will discourage the growth of bacteria and other organisms that can contaminate the water supply. Use a chlorine/fresh water rinse as follows:

1. Prepare a solution of ¼ cup liquid chlorine bleach (5% sodium hypochlorite) to one gallon of water for each 15 gallons of tank capacity.
2. Close drain valves and faucets, pour chlorine solutions into the fresh water tank filler, and complete filling with fresh water.
3. Turn water pump switch "ON". (Be sure you have 12-volt DC power.) Open all faucets individually until water flows steadily, then turn off. This will purge any air from the lines.
4. Top off water tank with fresh water and wait three hours.
5. Drain the entire system by opening all fresh water tank valves, faucets, and plumbing line drain valves.
6. Flush the system with drinking quality water. Let the fresh water flow through the system for several minutes to flush out the chlorine solution.
7. Stop the flow of water, close the tank valve, the faucets, and drain valves.
8. Fill the tank with fresh water, and the system is ready to use.

WARNING: DO NOT use a contaminated system until it has been cleaned and thoroughly flushed (4-6 flushes), with water. Keep children away from unit until the water is safe to drink.

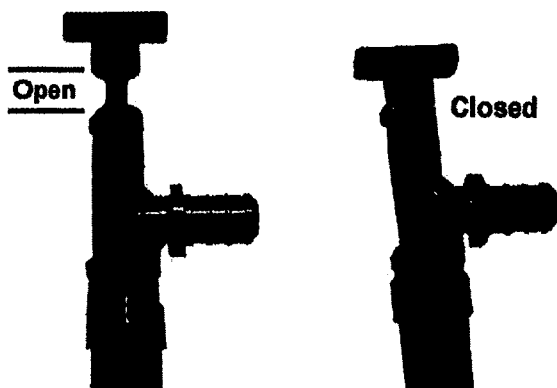
CAUTION: DO NOT run the pump without water in the system. Always keep the pump switch "OFF" when the system is empty or when connected to city water. Running the pump dry can damage it and void the warranty.

DRAINING THE WATER SYSTEM

If the trailer is to be stored in temperatures below freezing, the fresh water system and the waste water system should be drained as follows:

1. Empty the fresh water storage tank by opening the drain valve located on the tank.
2. Turn the pump to "ON" and open cold water faucets.
3. Open the drain petcocks on the hot and cold water pipes located in various locations depending on the model.

4. Open the drain valve on the bottom of the water heater (7/8" wrench required) as well as the water heater safety valve.
5. Open all the faucets and depress the flush pedal on the toilet to promote drainage.
6. Drain the holding tanks using the outlined procedures in the following section.



Low Point Petcock Valves – Lift to Open/Push to Close

FRESH WATER SYSTEM WINTERIZING

Winterizing the fresh water system in temperatures below freezing, will provide a measure of protection for system plumbing components. After draining the fresh water system using the procedures listed above, complete the winterizing with the following steps:

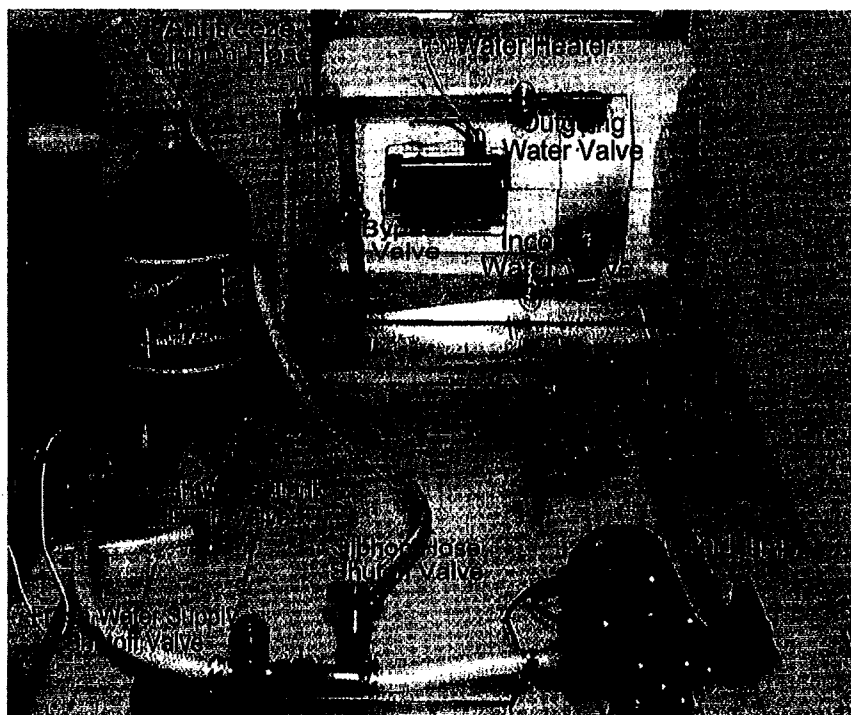
SYSTEMS WITHOUT WATER HEATER BYPASS

1. Pour anti-freeze approved for RV fresh water systems in the fresh water holding tank. Depending on the capacity of the water heater in the trailer, the amount of antifreeze used should be 7-12 gallons.

2. Turn the pump to "ON" and pump fluid through the entire fresh water system.
3. Low point petcock drains may be opened briefly to ensure that the entire system contains antifreeze.
4. Open all faucets and remove drain stops.
5. Be certain to complete the fresh water sanitizing procedures before using the fresh water system for cooking, drinking, etc.

SYSTEMS WITH WATER HEATER BYPASS

1. Close the hot and cold water valves entering and exiting the hot water heater.
2. Open the crossover valve connecting the cold and hot water lines.
3. Close the valve between the fresh water tank and the water pump.
4. Open the valve on the other side of the water pump connected to a siphon hose.
5. Insert the siphon hose into the container of RV fresh water approved anti-freeze.
6. Turn the pump to "ON" and pump fluid through entire fresh water system lines. This procedure will bypass the hot water heater conserving anti-freeze.
7. Turn on faucets in kitchen and bath.



8. Keep pump running until antifreeze flows from faucets and turn water pump "OFF".
9. Leave all faucets open and remove drain stops.
10. Close the valve at the siphon hose.
11. Be certain to complete fresh water sanitizing steps before using the fresh water system to cook, for drinking, etc.

WARNING: Automotive or windshield washer type antifreeze can be fatal if swallowed. DO NOT use them in the fresh water system to protect the drains in your trailer from freezing.

HOLDING TANKS & DRAINAGE SYSTEM

SunnyBrook RV travel trailers and fifth wheels are equipped with two or three separate holding tanks to accommodate waste. One holding tank accommodates toilet drainage. The tub/shower, galley sink, and lavatory sinks have a separate drainage system that bypasses the toilet holding tank. Both systems terminate at the waste valves outside the trailer.

TOILET HOLDING TANK

TOILET

Proper instruction and maintenance of the Thetford toilet is explained in the manufacturer's manual supplied with the toilet.

- The toilet operation is designed to minimize the use of water needed to flush it.
- It is advisable to instruct children and strangers of proper toilet use because of the unusual operation of this type of toilet,.

TOILET HOLDING TANK

- Before using the toilet holding tank, we recommend priming the tank with five (5) gallons of water to discourage waste solids from settling directly under the flush valve.
- Add a good grade of holding tank chemical (available from your local RV supplier). Follow instructions on the package.
- If required, an anti-freeze solution can be added at this time. It will not harm the plastic holding tank material.
- Holding tank drainage is more effective in removing solids when the tank is relatively full.
- When the toilet holding tank is ready to be emptied, locate a proper disposal station to prepare for drainage.
 1. To empty or dump the toilet holding tank, remove the cap at the 3" drain connection.
 2. Securely attach a 3" hose adapter and hose.
 3. Connect the hose to a sewer connection at the disposal station and pull the toilet holding tank drain valve handle out in a straight line.
 4. After draining, close the valve handle, rinse the tank with several gallons of water, and drain again.

NOTE: After draining the holding tank, a false reading may sometimes occur on your monitor

panel due to debris or tissue hanging on the sensor probes in the tank. Most debris clinging to the monitor probes will dislodge during travel by maintaining holding tank fluid levels of at least 1/3 capacity.

GRAY WATER HOLDING TANK

The sinks and tub/shower wastewater will drain to a separate holding tank. This holding tank will be referred to as the gray water holding tank.

- Drain unheated, gray water holding tank(s) after the toilet holding tank. This will help flush the drainpipe and valve. Simply pull the 1 1/2" pipe valve handle to empty the gray tank(s).
- Drain heated, enclosed, gray water holding tank(s) by pulling the valve handle labeled "WASTE" to empty the gray tank(s).
- It is possible to have a continuous drain for the galley and tub (where it is permitted and convenient) separately without disturbing the toilet holding tank.
- Although it is possible to continuously drain the galley sinks and bathtub via the bypass connection while on a sewer hook-up, NEVER leave the drain valve open continuously on the toilet holding tank. Instead, use it as on self-contained operation, and then drain it periodically as required.
- Be sure to add all necessary chemicals after draining the tank.
- The tank must have fluid in it to operate and drain properly.
- Dumping stations are found at most RV campgrounds, RV parks, and some automobile service stations. Lists of these stations can be obtained through sources such as Camping World, Woodall's, etc., and other recreational/camping publications.
- Whenever possible, dump the holding tanks before traveling. Wastewater and sewage in the holding tanks reduce the carrying capacity of the trailer. See "WEIGHING AND LOADING" section.
- Dump holding tanks only when they are at least 3/4 full. If necessary, fill the tanks with water to 3/4 full. This provides sufficient water to ensure complete flushing of waste material into the sewer line.

CAUTION: Do not use any chemical additive that is not approved for recreational vehicle use. Consult your dealer for any clarification.

WARNING: HOLDING TANKS ARE ENCLOSED SEWER SYSTEMS AND MUST BE DRAINED INTO AN APPROVED DUMP STATION. BOTH TOILET AND GRAY WATER HOLDING TANKS MUST BE DRAINED AND THOROUGHLY RINSED REGULARLY TO PREVENT ACCUMULATION OF HARMFUL OR TOXIC MATERIAL.

HOLDING TANK DO'S AND DON'TS

- DO clean holding tanks with an approved cleaner
- DO add a special chemical additive to sanitize and improve tank action.
- DO guard the tank against freeze up.
- Do keep the dump valves closed to allow the tanks to get as full as conveniently possible to facilitate drainage.
- DO keep dump valves closed and drain caps in place to allow use of the system while traveling.
- DO use any soft, single-ply toilet tissue.
- DO open the bathroom vent to dispel condensation and odors.
- DON'T put facial tissues, paper, automotive type antifreeze, sanitary napkins, or household toilet cleaners in your holding tank.
- DON'T put foreign objects into the system, which could clog or damage it in any way.

LP GAS SYSTEM

Liquefied petroleum (LP) gas is available from approved storage tanks to operate your range, oven, furnace, and water heater, and as an alternate energy source for some refrigerators. With proper handling precautions, LP gas is safe and provides modern conveniences wherever you travel. LP gas is stored in a special tank mounted on the trailer tongue or in a special compartment. It is stored as a liquid under pressure and vaporizes under the control of a pressure regulator.

LP GAS SAFETY PRECAUTIONS

Historically, LP gas is a safe and reliable fuel. As with any other volatile and flammable material, common sense dictates that LP gas be handled and used with respect and caution. Because LP gas systems are so reliable, they are often taken for granted. Neglect can be a very dangerous habit. If the system is maintained regularly, you can expect almost trouble-free operation.

WARNING: LP GAS IS FLAMMABLE AND POTENTIALLY EXPLOSIVE. USE PROPER HANDLING, LIGHTING, AND VENTILATION PROCEDURES.

1. The distinctive odor of LP gas indicates a leak. **IF YOU SMELL GAS:**
 - Extinguish all open flames, pilot lights and all smoking materials.
 - Do not touch electrical switches.
 - Shut off the gas supply at the tank valve(s) or gas supply connection.
 - Open all doors, windows and vents.
 - Leave the area until the odor clears.
 - Have the gas system checked and the cause of the leak corrected before using the system again.
2. Inspect the entire LP gas system for leaks or damaged parts before each trip.
3. Always be careful when drilling holes or fastening objects to the trailer. The gas supply lines could be punctured by a nail or screw.
4. Do not restrict access to LP tanks. In an emergency, the tank service valve must be easily accessible.
5. Do not carry or store filled or empty LP gas containers inside a trailer.
 - LP gas containers are equipped with a safety device that relieves excessive pressure by discharging gas to the atmosphere.
 - Leaks can occur at valves and fittings.
 - Always store LP tanks with the valves closed.
6. Do not use any LP gas tanks other than those furnished with the trailer without being sure that all connecting components are compatible.
7. **WARNING: TURN OFF LP GAS MAIN VALVE AND INDIVIDUALLY TURN OFF ALL GAS APPLIANCES OR DISCONNECT ELECTRIC AUTOMATIC IGNITION APPLIANCES BEFORE ENTERING AN LP GAS BULK PLANT OR MOTOR FUEL SERVICE STATION.**
8. **WARNING: DO NOT FILL LP GAS CONTAINERS TO MORE THAN 80% CAPACITY. OVERFILLING CAN RESULT IN UNCONTROLLED GAS FLOW WHICH CAN CAUSE FIRE AND EXPLOSION. A PROPERLY FILLED CONTAINER HOLDS ABOUT 80% OF ITS VOLUME AS LIQUID.**
9. Never check for leaks with an open flame. Use an approved leak detection solution or a non-ammoniated, non-chlorinated soap solution only.

If the leak cannot be located, take the unit to an LP gas service representative.

10. LP gas regulators must always be installed with the diaphragm vent facing downward. 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.
11. Do not use a wrench or pliers to close the service valve. This valve is designed to be closed, leak-tight by hand. If a tool is required to stop a leak, the valve needs repair or replacement. Contact your dealer.
12. Use a proper wrench to tighten the fitting. Don't force, jam or cross-thread the fitting. Always check this fitting for leaks after tightening.
13. Be sure the tanks are securely fastened in their rack whenever they are mounted on the trailer.
14. If you do not have the special tools and training necessary, do not attempt to repair LP gas system components.
15. **WARNING:** Screened enclosures or enclosed porches attached to the side of trailers, which have appliance LP gas vents, present a threat of CARBON MONOXIDE poisoning unless properly vented by opening windows or venting in the enclosure.
16. **ALWAYS THINK SAFETY.**

FILLING LP GAS TANKS

WARNING: TURN OFF LP GAS MAIN VALVE BEFORE FILLING LP GAS TANKS OR ENTERING AN LP GAS BULK PLANT OR MOTOR FUEL SERVICE STATION. TURN OFF ALL PILOT LIGHTS AND APPLIANCES INDIVIDUALLY BEFORE REFUELING OF MOTOR FUEL TANKS AND/OR PERMANENTLY MOUNTED LP GAS CONTAINERS. WHEN NOT INDIVIDUALLY TURNED OFF, AUTOMATIC IGNITION APPLIANCES MAY CONTINUE TO SPARK WHEN LP GAS IS TURNED OFF AT THE CONTAINER. DO NOT FILL LP GAS CONTAINERS TO MORE THAN 80% OF CAPACITY.

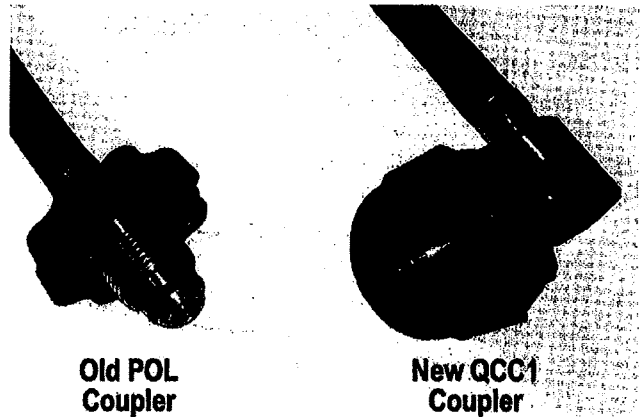
LP gas tanks must be removed from the trailer and taken to an LP gas supplier or a service station, which sells LP gas to be filled.

QCC1 COUPLER

The QCC1 coupler was required since Model Year 1999 *SunnyBrook* and *Mobile Scout* trailers. The

QCC1 coupler and hose assembly connects the LP gas tanks to the LP gas regulator.

- It has a right-hand thread.
- Turn it to the right to tighten, turn left to loosen.
- The mating surfaces are brass and do not require any type of pipe sealant.



LP Gas Couplers – New QCC1 Coupler Vs Old POL

- If it ever leaks or cannot be reasonably tightened without excessive force, replace the complete hose assembly and/or have the tank valve checked and serviced.
- The QCC1 coupler contains an excess flow control to help restrict gas flow if the hose is cut or the regulator is broken.
- It is not designed to detect a leak or totally shut off the system if a leak or regulator failure occurs.
- The excess flow control can inadvertently restrict gas flow to the appliances. To reduce or eliminate this problem, try the following whenever restricted gas flow is evident:
 1. Be sure all appliances (including pilot lights, if equipped) are off and no gas is flowing in the system.
 2. Be sure the system is leak free. Test the fittings as outlined later in this section.
 3. Open the gas tank valve slowly. DO NOT SNAP IT OPEN. The sudden pressure fluctuation could confuse the excess flow control into thinking that the system was damaged.
 4. Wait at least 15 seconds before lighting any pilot or appliance.

This procedure will allow the excess flow control to settle and supply a normal flow of gas.

LP GAS REGULATOR

The regulator is the heart of the LP gas system. It works continuously and requires more care and attention than any other part of the system.

WARNING: DO NOT ATTEMPT TO ADJUST THE REGULATOR. IT HAS BEEN PRESET BY THE REGULATOR MANUFACTURER. IF ANY ADJUSTMENT IS REQUIRED, IT MUST BE MADE BY A QUALIFIED LPG SERVICE TECHNICIAN USING SPECIAL EQUIPMENT.

LIGHTING LP GAS APPLIANCES

Detailed operating information, for LP appliances, can be found in the Owner's Information Package. Please read and follow these instructions.

Air trapped in the gas lines may delay initial lighting of any appliance. Several seconds or minutes may pass for the gas to reach the appliance. To purge some of the air from the gas system, first light a burner on the range. The other appliances will then light more quickly.

ALWAYS FOLLOW THE APPLIANCE MANUFACTURER'S LIGHTING AND OPERATING INSTRUCTIONS.

SAFETY REGULATION REGARDING LP GAS SYSTEMS AND LP GAS APPLIANCES

The manufacturer of this recreational vehicle is required to furnish the following consumer information as provided by the National Fire Prevention Association and the American National Standards Institute. The information and warnings found here may also be found in other sections of this Owner's Manual. Please see sections titled "LP Gas System" and "Appliances" for other safety and operating information.

WARNING:

LP GAS CONTAINERS SHALL NOT BE PLACED OR STORED INSIDE THE VEHICLE. LP GAS CONTAINERS ARE EQUIPPED WITH SAFETY DEVICES WHICH RELIEVE EXCESSIVE PRESSURE BY DISCHARGING GAS TO THE ATMOSPHERE.

This warning label has been located in the cooking area to remind you to provide an adequate supply of fresh air for combustion:

WARNING:

IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEATING!
Cooking Appliances need fresh air for safe operation.

BEFORE OPERATION:

1. Open overhead vent or turn on exhaust fan, and
2. Open window.

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.

The tank manufacturer has affixed the following labels to the LP tanks and valves of this trailer:

NOTICE:

THIS IS A NEW CYLINDER THAT SHOULD BE PURGED BY AN AUTHORIZED LP GAS FILLER BEFORE IT IS FILLED FOR THE FIRST TIME. THE FILLER WILL REMOVE THIS LABEL AFTER PURGING AND FILLING. DO NOT OVERFILL.

THIS CYLINDER IS EQUIPPED WITH AN OVERFILL PREVENTION DEVICE

WARNING

- Only qualified persons are permitted to fill this cylinder
- Read and understand the cylinder warning label before attempting to fill.
- The Overfill Prevention Device (OPD) will only operate if the cylinder is overfilled (greater than 80% level). Do not attempt to calibrate or tamper with the OPD.
- Before filling, inspect the cylinder in accordance with CGA C-6 or CGA C-6.3.
- Cylinder must be level, stable and vertical at all times.
- This cylinder must be filled in accordance with US DOT, NFPA-58, State and Local regulations.
- Failure to properly fill the cylinder can result in injury or death.

The following label has been placed in the vehicle near the range area:

IF YOU SMELL GAS:

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

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

OPERATION

SELF-CONTAINED vs. UTILITY HOOKUP

Travel trailers and fifth wheels are designed to be self-sufficient in remote campsites. Care must be exercised in guarding reserves of water, LP gas, battery power, holding tank capacity (and more important, tow vehicle battery power and gasoline). Remember, the more remote the area, the greater concern should be given these reserves.

The following chart shows the source of power or supply for various trailer components – depending on whether you are set up for self-contained operation or at a RV park hook-up. Refer any questions regarding this chart to your dealer.

POWER SUPPLY OR SOURCE		
ITEM	SELF-CONTAINED (REMOTE) OPERATION	CITY HOOK-UP (RV PARK)
Range/Oven Water Heater Furnace Refrigerator	LPG Tanks LPG Tanks LPG Tanks LPG Tanks	LPG Tanks LPG Tanks/120V* LPG Tanks 120V Input Line
Furnace Blower Motor Vent Hood	12V Trailer Battery 12V Trailer Battery	12V (Converter and 120V Input) 12V (Converter and 120V Input)
Wall Electrical Outlets Interior Lights	(Not Available) 12V Trailer Battery	120V Input Line 12V (Converter and 120V Input Line)
Air Conditioning (Optional)	(Not Available)	120V Input Line
Water Supply Water Pressure	Trailer Water Tank 12V Pump On Demand	City/Park Hook-Up City/Park Pressure Systems
Drainage-Kit & Lav Sinks, Tub /Shower Drainage – Toilet	Gray Holding Tank Toilet Holding Tank	Gray Holding Tank Toilet Holding Tank
Trailer Battery Recharge	Tow Vehicle Alternator	Battery Charger in Power Center – 120V Input Line
Lights – Brake Signal, Backup Lights – Running Brakes Breakaway Safety Device	12V Tow Vehicle Batt. 12V Tow Vehicle Batt. 12V Tow Vehicle Batt. 12V Trailer Battery	

*If equipped

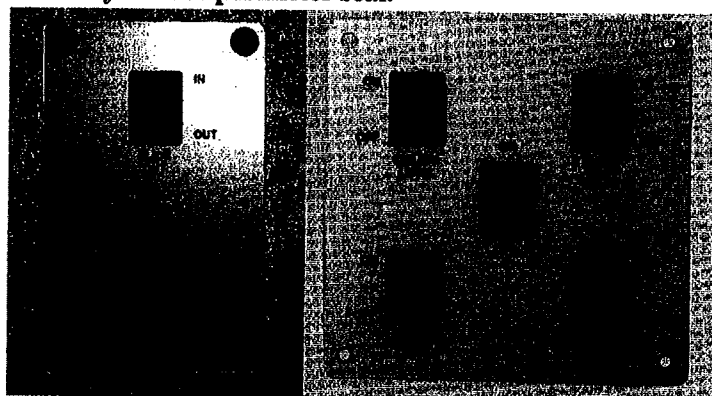
FLUSH FLOOR SLIDE-OUT ROOM

SunnyBrook trailer slide-out rooms operate using on "On/Off" switch for power and a toggle switch, which controls the movement of the room in and out.

OPENING THE FLUSH FLOOR SLIDE-OUT

1. Level the trailer and put stabilizer jacks down.
2. Allow sufficient space for room movement.
3. Removes travel lock bars.
4. Check for obstructions on the roof and at the ends of the slide-out room (i.e., open cabinet doors).
5. Press and hold the lower rocker switch to open the room.
6. When the room has is almost fully opened, the room will begin lower itself on the outside slope.
7. Once the room begins lowering, stop pressing the switch.
8. Check the perimeter seal behind the wood trim. If the perimeter seal is not in contact with the room, very briefly press the rocker switch to further open the room until the seal make contact.

CAUTION! Continuing to press the slide-out room rocker switch will cause the top of the room to run past the perimeter seal. Damage to the wood trim around the slide-out room and damage to the interior walls may occur if the room is run out beyond the perimeter seal.



Bedroom & Triple Slides

Living Room Slide

Slide-out Room Power Switch & "IN/OUT" Switch

CLOSING THE FLUSH FLOOR SLIDE-OUT

1. Clear the roof of any debris (i.e., leaves branches, etc.).
2. Check for obstructions inside (i.e., open doors/drawers, rugs, furniture, etc.).
3. Press and hold the upper rocker switch to close the room. Block stops have been placed on the gear rails to stop the slide-out room at the proper closed position.
4. As the gear mechanism begin straining to close further, remove pressure from the rocker switch and inspect the outside bulb seal. The outside bulb seal will be compressed to half it's open thickness when closed properly.
5. When the room is closed, install one travel bar above the room. Be sure the bar is centered.
6. Install one travel bar at each end of the room as close to the bottom as possible.

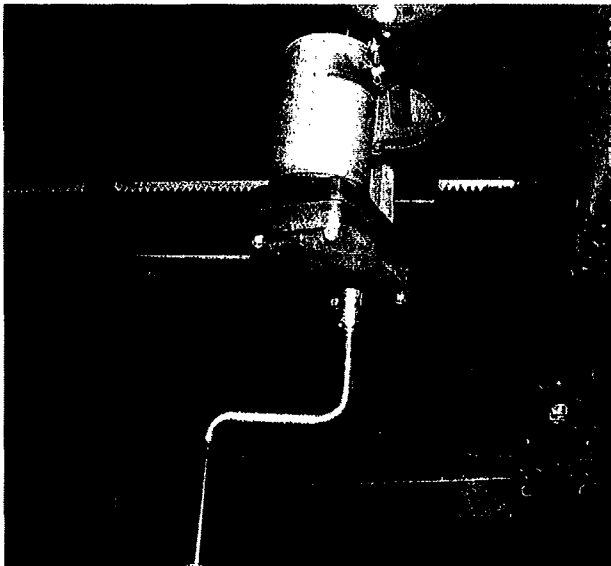
SLIDE-OUT ROOM MAINTENANCE

- Keep the battery at full charge. A low battery will affect slide-out room operation.
- At least twice a year, open the slide-out room and inspect the drive rams. Remove any dirt and grime accumulations. Apply a light coating of white lithium grease to the drive rams if needed.
- Check all bolts attaching the rams to the bottom of the slide-out room.
- Spray rubber seals with silicone to maintain flexibility.

MANUAL OPENING/CLOSING SLIDE-OUTS

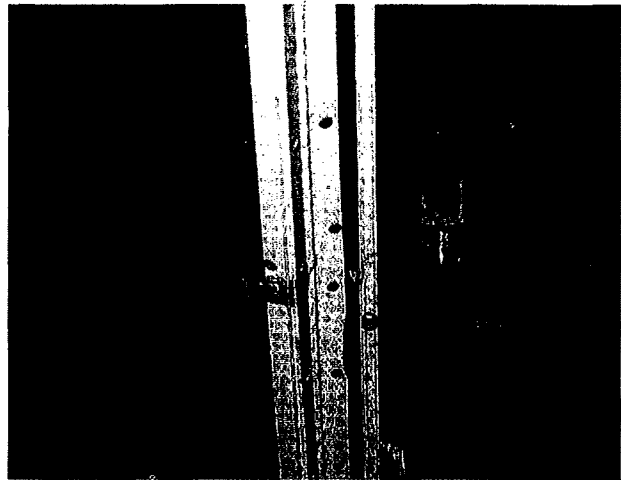
Access to the manual drive shaft has changed with the introduction of the flush floor slide-out rooms. The manual drive shaft is no longer accessible through the sidewall skirting but must be accessed from underneath the slide-out room on the roadside to the right of the slide-out room and on the left on doorside slide-out rooms.

A manual crank handle has been provided with every travel trailer and fifth wheel that has at least one slide-out room. In fifth wheels with bedroom slide-out rooms, an 18" shaft extension has been provided for easier access to the manual drive shaft.



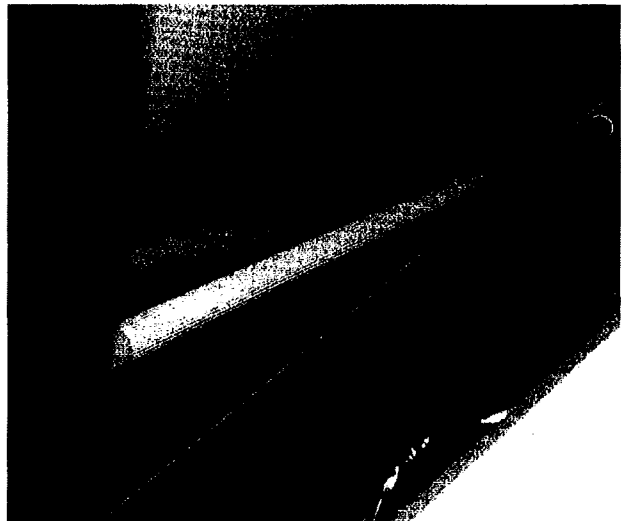
Slide-out Room Motor w/Manual Drive Shaft & Crank Handle

To open or close the slide-out room manually, simply turn the power supply switch to "OFF", which will turn off the electric brakes. Insert the hand crank into the manual drive shaft as shown in the picture above. Turn the crank clockwise to move the slide-out room inward and crank counter-clockwise to move the room outward.



Fifth Wheel Bedroom Slide-out Room Manual Drive Shaft

In fifth wheel bedroom slides, the manual drive shaft is located above the doorside baggage compartment opening under the bedroom floor. The shaft extension attaches to the manual drive shaft using a pin and has a square fitting, which the manual crank handle will attach. The handle will open and close the mechanism as any other slide-out room.



Slide-out Room Travel Bar

TRAVELLING

1. Make certain the slide-out room is properly closed.
2. Be sure the travel bars are in place.
3. Leave the power supply switch on. This powers an electric brake within the slide-out motor and prevents the bottom of the room from creeping outward.

INTERIOR CARE

1. **Interior wood paneling.** All paneling is prefinished plywood, laminated with a film. It may be cleaned with a mild commercial cleaner containing wax. **CAUTION:** Avoid use of solvent-based cleaners containing kerosene, naphtha, carbon tetrachloride, butane or abrasives. Unprotected surfaces will be harmed.
2. **Drapes, bedspreads, upholstery and carpets.** All fabrics have been carefully selected by interior decorators to provide a pleasing, stylish interior. Most dirt can be easily removed with a damp cloth. If badly soiled, use good quality upholstery cleaner. For drapery and bedspread cleaning, refer to the chart on page 28. When storing the trailer, protect upholstery and interior from fading by putting aluminum foil between windows and drapes.
3. **Work Surfaces.** The work surfaces are plastic laminate and will resist alcohol, fruit stains, scratches, acid, household alkali and heat up to 275 degrees Fahrenheit. Waxing helps preserve the luster. Never use these surfaces for cutting or slicing, and protect them from hot vessels.
4. **Bathroom.** The bathroom fixtures should only be cleaned with a mild solution of soap and water. Never use scouring pads or powder.
5. **Appliances.** Manufacturer's instructions for cleaning (if provided) are enclosed in the Owner's Information Package.
6. **Floors.** Vinyl floors require only washing and periodic waxing. Vacuum carpeting regularly, and clean it with a quality carpet cleaner.
7. **Decorative Glass.** Decorative glass should be cleaned with a mild glass cleaner. The decorative material is a polymer, and will be damaged by solvents, abrasives, or strong detergents. Never use these substances to clean the decorative glass.
 - (a) Dampen a clean, soft cloth with glass cleaner.
 - (b) Avoid spraying the glass directly with the cleaner solution.
 - (c) Wipe the surface dry with a second clean cloth.
 - (d) Do not leave the cleaner on the glass surface for more than five minutes.
 - (e) The frosted effect will disappear temporarily when wet, and will reappear when dry.

EXTERIOR CARE

Most exterior parts are made of ABS, fiberglass, aluminum and rubber materials. The finish on these parts is durable, but not indestructible. Any material and finish will deteriorate in time. Exposure to sunlight, moisture and airborne pollutants can chemically alter the composition of the base and finish materials and cause dulling and fading of the finish. Generally, changes in the finish due to weathering are cosmetic – they are on the surface of the part and do not affect its strength. Weathering can take several forms:

- **Chalking.** The surface finish has broken down into a fine powder. It usually will wash off.
- **Fading.** The color of the finish has changed. This can be caused by chemicals spilled on the surface, staining it, or by changes in the pigments used in the finish.
- **Yellowing.** Usually caused by chemical changes in the material and pigments.

OUTSIDE SIDEWALL/ENDCAP CARE

The best insurance against these effects is routine maintenance. If the finish is not washed thoroughly and waxed, the surface can deteriorate very rapidly. The following maintenance guidelines can help you reduce these effects:

1. Wash the exterior of the trailer at least monthly. Wash with a mild soap. Avoid strong alkaline cleaners and abrasives.
2. Wax the exterior at least once or preferably twice a year. Aluminum surfaces can be waxed with a good automotive wax. Fiberglass surfaces must be waxed with products formulated for fiberglass.
 - When waxing, always read and follow the instructions and precautions on the container.
 - Some cleaners and waxes are recommended for use on only certain types of surfaces.
3. Occasionally, one part may weather more rapidly than a similar part may weather. In those cases, a light rubbing compound may be required. Always follow rubbing compound with a high quality wax.

RUBBER ROOF

E.P.D.M. roofs are installed on *SunnyBrook* trailers as an option. Periodic cleaning is the primary maintenance required for rubber roof surfaces. The recommended maintenance includes:

- At least annually, inspect the roof surface for damage, breaks in caulks or sealant and seals around fasteners and accessories.
- Wash the surface with granulated household cleaner mixed in a solution with water.
- Using a soft-bristled brush will work more effectively than sponges or cloth.
- Stubborn stains caused by oak leaves or pinesap can usually be removed with a kitchen cleanser containing bleach.
- Always completely rinse soap residue from both the roof and sidewall surfaces to prevent streaks.
- Rubber roofs may become slippery when wet.
- Do not use acetone or any products containing petroleum distillates on an E.P.D.M. surface.
- Rubber roof material can be punctured or cut by sharp objects. Exercise caution when placing articles on an E.P.D.M. roof surface.
- This rubber roof material does not require coatings to protect the surface from ultra-violet light or ozone. Protective coatings may damage the rubber roof membrane.

WINDOWS, DOORS, VENTS & LOCKS

- Keep moving parts of windows and latches adjusted and maintained.
- Lubricate the windows with a light oil or powdered graphite at least once a year.
- Check and tighten the screws holding the windows in place periodically.
- Check the weather sealant.
- Clean screens by gently wiping with a damp cloth or soft flat brush.
- Inspect the seals around doors and windows every three months.
- Lubricate locksets, latches and hinges in entry doors and exterior storage compartments at least annually with powdered graphite.
- If the trailer is located at a beach or is exposed to salt air, frequent lubrication may be required.
- Record and safely store the identification number of the keys. The lock manufacturer will need this information for duplicate keys in case of loss.

DOOR AND WINDOW RE-SEALING

Inspect the sealant around windows and doors at least every three months. If any of the following

defects are evident during inspection, the affected areas must be resealed:*

- Excessive amount of sealant protruding from joints.
- Sealant cracked or peeling
- Voids in sealant.

*Consult your dealer for type of sealant.

NOTE: Do not seal the bottom flanges of windows and doors. Two sealant voids have been intentionally left in the bottom flange sealant to provide exterior drainage in case of leakage.

If you find any of the above defects:

1. Use a plastic scraper to remove excess sealant.
2. Clean all areas to be resealed with mineral spirits and clean rags.

WARNING: MINERAL SPIRITS IS A FLAMMABLE LIQUID. USE EXTREME CARE WHEN HANDLING AND USING. DO NOT EXPOSE TO OPEN FLAME, SPARKS, OR SMOKING MATERIALS. DO NOT USE IN UNVENTILATED AREAS.

Make sure that all areas to be resealed are dry before new sealant is applied.

STORAGE

COLD WEATHER STORAGE

The fresh water system and holding tanks are greatly affected by cold weather. Proper winterizing will protect pipes, tanks and other components from freezing and/or cracking. The following procedures are recommended for storage during cold weather:

1. Follow the Fresh Water System Draining and Winterizing Procedures in section title **"FRESH WATER SYSTEM"**.

CAUTION: DRAINING THE WATER SYSTEM ALONE WILL NOT PROVIDE ADEQUATE COLD WEATHER PROTECTION. IF THE TRAILER IS TO BE UNHEATED DURING FREEZING TEMPERATURES, YOUR DEALER CAN WINTERIZE YOUR TRAILER OR CAN SUPPLY SPECIAL ANTIFREEZE, WHICH IS SAFE AND APPROVED FOR USE IN RV WATER SYSTEMS. FOLLOW THE INSTRUCTIONS FURNISHED WITH THE ANTIFREEZE.

WARNING: DO NOT USE AUTOMOTIVE OR WINDSHIELD WASHER ANTIFREEZE IN THE TRAILER FRESH WATER SYSTEM. THESE COULD BE HARMFUL IF SWALLOWED.

2. Flush toilet several times to insure that water does not remain in the lines.
3. Drain waste system by opening all knife valves on holding tank system.
4. Remove and store battery(s) in an area with a similar climate to room temperature to help preserve the charge.
5. Do not allow snow to accumulate on the roof. In addition to possible damage from the excess weight, freezing and thawing of snow or ice may cause leakage through the roof seams along the top edge of the sidewalls.

EXTENDED STORAGE

In addition to **"COLD WEATHER STORAGE"** procedures listed, the following procedures are recommended when a trailer will be stored for extended periods:

1. Remove all food and materials from the refrigerator and leave the door open.
2. Close all windows, vents and doors. It is a good idea to cover the windows to protect the interior from sun damage.
3. Lift the weight of the trailer off the tires using blocks or other safe devices of this type.
4. Cover tires to protect from weather damage.
5. Check the sealant on the roof, windows, doors and vents to verify proper protection.
6. Make sure the valves are closed at the LPG tanks.
7. If convenient during the storage period, periodically circulate air throughout the trailer and inspect the interior.
8. Lock all doors.
9. If the trailer is covered with plastic or canvas, provide ventilation from a vent, door and/or window to prevent mildew, etc. on the interior.

MAINTENANCE

SERVICE TO BE PERFORMED

SERVICE INTERVAL

	Each Trip Or Weekly	1,000 Miles Or Monthly	2,500 Miles Or 3 Months	5,000 Miles Or 6 Months	10,000 Miles Or Yearly
Pack Wheel Bearings					X
Inspect Brakes					X
Inspect Safety Chains	X				
Inspect Brake Wiring	X				
Inspect Tires	X				
Inspect Hitch Components	X				
Lubricate Locks					X
Lubricate Coupler Latch and Socket		X			
Lubricate Hinges					X
Inspect and Clean Vents					X
Torque Lug Nuts *		X			
Sanitize Water Tank (if trailer has been stored)			X		
Clean Drapes and Interior Fabrics					X
Clean Battery Cables and Terminals, Check Fluid Levels			X		
Inspect Suspension					X
Check All Top Sealed Seams (including Baggage Doors, Slide-Out Windows, Patio Lights, Vents, Awning Rails, Gutter Rails, Corner Moldings, Roof Extrusions and Rack/Ladder Brackets). Re-seal as Needed **				X	
Check Water System Components					X
Balance Tires (After 1 st 1,000 Miles; as Required Thereafter)		X			
Complete LPG System Check and Pressure Check					X
Visually Inspect Exposed LPG System Components	X				
Visually Inspect Slide-Out Room Tubes				X	

* From the factory, lug nuts should be tightened every 50 miles for the first 200 miles to between 90 to 95 ft.-lbs.

** Leaks or water damage resulting from failure to perform normal maintenance may void the warranty as detailed in Section 2C of the Limited Warranty.

Keeping a clean, well-maintained trailer will result in many years of camping fun. Following the recommended cleaning procedures will eliminate many of the problems associated with poorly maintained units. A poorly maintained unit can result in the voiding of the warranty, as will negligence, misuse, or the installation of equipment not authorized by SunnyBrook. Become familiar with the information in this manual, and in the appliance manufacturer's instruction sheets.

ITEM	MAINTENANCE
Countertops	Clean with damp, soapy cloth and dry immediately
Refrigerator	Clean and remove food after each trip
Stove and Sinks	Clean with appropriate cleaners.
Cushions	Use foam type cleaners or warm, soapy water.
Vinyl	Use vinyl cleaner or soapy water.
Living Room Drapes	Dry clean only.
Bedroom Curtains	Hand wash with mild detergent and drip dry. DO NOT DRY IN DRYER.
Bedspread	Dry clean only. DO NOT DRY IN DRYER.
Carpet	Use recommended carpet cleaner, vacuum.
Vinyl Floor Covering	Wash with soapy water, rinse and wax.
Prefinished Paneling	Use furniture wax or polish.
Stained Wood	Sand and re-stain if needed.
LP Gas System	Check for crimped tubing or other damage. Test for leaks with soapy water or leak tester. Paint LP bottle when needed. Have pressure regulator checked regularly.
Water System	Check all hoses, fittings and connections for leaks. Clean tank discharge filter and sanitize system when necessary.
Electrical	Examine all wiring and connections.
Fire Extinguisher	Check pressure regularly and note on inspection tag.
Side Metal	Clean with soapy water and wax with a non-abrasive wax.
Air Conditioner	Clean evaporator and condenser coils, filter and pan. Cover outside when not in use.

ADDITIONAL PRECAUTIONS

If you believe that your *SunnyBrook RV* travel trailer or fifth wheel has a defect which could cause a crash or could cause injury or death, immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying *SunnyBrook RV*.

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 *SunnyBrook RV*.

To contact NHTSA, either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to: NHTSA, US Department of Transportation, Washington, D.C. 20590. Information may be obtained about motor vehicle safety from the hotline.

CAUTION: Always check to be certain that the hitch is locked properly before towing. Be sure hitch bars are adjusted for proper load equalization.

CAUTION: It's also important to load personal cargo so that Gross Axle Weight Rating are never exceeded. For safety's sake, you should weigh your family camping vehicle frequently as loaded for travel. We cannot emphasize too strongly that the Gross Vehicle Weight and Axle Rating must not be exceeded. Overloading is a safety hazard.

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

DANGER!!! IF YOU SMELL GAS:

1. Extinguish all open flames, pilot lights, lanterns and smoking materials.
2. DO NOT touch electrical switches.
3. Shut off the gas supply at the tank valve(s) or gas supply connection.
4. Open the windows and exit the unit leaving the door open.
5. Stay out of the unit until the odor clears.
6. Have the LP system checked immediately and the cause of the leak corrected before using the system again.

WARNING: INSIST that LP bottle(s) are not filled beyond 80% liquid level. Overfilling bottle(s) will eliminate the "safety cushion" provided by the 20% expansion area, which in turn can result in the discharge of gas through the pressure relief valve when higher outside temperatures are encountered.

WARNING: The water heater and furnace combustion air exhaust ports may be extremely HOT during water heater and furnace operation. DO NOT touch these outlets or allow any material to come in contact with or cover either the air intake or exhaust ports while operating the water heater and/or furnace.

WARNING: DO NOT use the breakaway switch as a parking brake. The current needed to operate the brakes will drain the battery in a short time and the brakes will release when the voltage fails.

WARNING: DO NOT mix different types of tires on the same vehicle such as radial, bias, and bias-belted tires except in emergencies, because vehicle handling and tire life may be seriously affected and may result in loss of control or tire failure.

WARNING: DO NOT replace a blown fuse with one that has a higher amperage rating. If a fuse continues to blow (or circuit breaker to pop) DO NOT attempt to bypass it with a piece of wire. Determine the reason for the overload and have it repaired before using the circuit again. DO NOT attempt wiring repairs on a "live" circuit. Turn off all appliances and disconnect the trailer from all sources of 120V and 12V electricity.

WARNING: DO NOT use a cheater plug (one with the ground wire pin removed) to hook up your trailer to a 120V plug-in. DO NOT use an extension cord with a lower circuit rating to plug into an electrical hook-up that is beyond the reach of your trailer's power cable.

WARNING: DO NOT operate the 120-volt electrical system without a proper ground.

WARNING: Test the smoke detector's operation after your camping vehicle has been in storage, before each trip and at least once per week during use.

WARNING: Use only antifreeze made especially for potable water systems. Automotive antifreeze, if ingested, can cause blindness, deafness or death.



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