

# Trailer Maintenance/Troubleshooting

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*The information provided may not be applicable to your specific trailer model. If unsure please contact us for additional assistance.*

## I. OUTDOOR STORAGE

Your trailer can be stored outside if you follow these procedures:

1. The trailer must be on level ground. Lower all the scissor jacks.  
**DO NOT** set the trailer on an uneven grade or slope.
2. Hitch area should be higher than back end as this assists in water runoff.
3. Direct sunlight will crystallize the plastic roof vent covers. An RV parts department can supply covers for vent lids.
4. Brush snow off the roof with a broom. **DO NOT** allow snow to sit on roof. This is the same procedure that you would need to follow at home with a flat roof.
5. If the vehicle is stored outside for longer than 10 days in freezing temperatures, or 30 days in above freezing temperatures, the battery should be removed from the hitch and stored inside.

## II. TRAILER MOVEMENT

Before moving the vehicle, be sure the following have been done:

### **INSIDE:**

1. Equipment and/or props are properly stored.
2. Power vent(s) is/are closed and locked.
3. Window(s) is/are closed and locked.
4. Caller's and dispatcher's phones are properly stored.
5. Mini-blinds or day/night shades are in the "up" position.
6. Smoke machine shelf is clean and free of liquid.
7. Lights and breakers are in the "off" position.
8. Interior pocket doors are strapped.

9. Overhead/Filing cabinets are closed and/or locked.
10. Task chairs are secured with straps/bungee cords.

### **OUTSIDE:**

1. The shoreline 50A power cord is stored and the Maringo shore power connection cover is closed.
2. The leveling scissor jacks must be cranked up to the closed position. When traveling with the vehicle, check the jacks frequently to make certain that they are still tightly in place.
3. Entry doors are locked & dead bolted and grab handles are rotated to be against door.
4. All compartment/baggage/rollup doors are latched and locked.
5. Honda generator soft vinyl protective cover has been placed over the generator.
6. Aluminum tread plate box is over the Onan generator and the t-handles are attached.
7. Rear ramp is closed and latched.
8. Slideout(s) is/are fully retracted.
9. Pole light(s) should be turned inward and retracted.
10. Strobe light on push-up pole should be fully-retracted.
11. PTZ camera(s) on push-up pole should be fully-retracted.
12. Awning(s) is/are fully retracted.

## **III. EXTERIOR**

**1. Caulking:** To avoid water leaks, it is imperative that you follow this maintenance schedule **every six (6) months** using the required sealants.

- a. **Roof:** The roof seams will need to be checked regularly and Carlisle 502-LSD self-leveling caulking reapplied every six (6) months. Apply required caulk as needed around all roof seams, including the perimeter of the roofline and anywhere there is a seam such as roof vents, antennas, etc.

**NOTE:** Carlisle 502-LSD is a self-leveling caulk for the roof. This is required by the manufacturer of the rubber roof membrane. This caulk will not crack; however, it does crust and wear. **Do not remove old caulk!** Reapply generously over old caulk.

- b. **Windows/Exterior Lights/Handles:** Using a high grade silicone sealant, check regularly and reapply every six (6) months around the windows, exterior lights, grab handles, etc.

Use Sil-flex RTV 7500, 100% silicone. Before applying any new silicone, remove all of the old silicone and clean the surface. Then apply the new silicone.

**2. Brakes & Wheel Bearings:** Have the brakes and wheel bearings serviced and checked by an RV Center yearly. Depending on your climate conditions, you may need to check these items twice a year.

**3. Tires:** Keep the tires inflated to recommended level (review the side of the tire for the specific psi level), as soft tires will cause sway. Tire lug nuts should be checked for tightness after the first 100 miles, and at least every six (6) months. Torque lug nuts to 90-120 foot-pounds.

**4. Painting:** Regular paint will not stick to the exterior fiberglass finish. If you are interested in painting the exterior with graphics, contact a professional sign painter or body shop.

*DO NOT hang any materials or signs heavier than a decal to the exterior. Signs may be torn off by the airflow during transportation, tearing the siding off as well. The vehicle is engineered to withstand the bending and flexing involved during transportation; however, it is not designed to hold the additional weight of signs.*

*DO NOT penetrate the fiberglass exterior with nails, screws or staples of any kind. Putting holes in the fiberglass siding may cause water traps or leaks leading to structural damage.*

***Any alterations or misuse of the exterior will void the warranty!***

**5. Cleaning Exterior:** Use a garden hose only when washing the vehicle. Wash with soap, water and a soft brush. Do not use a High Pressure Wash.

**6. Battery:** The batteries must be recharged after use. This requires connecting the trailer to shore power and turning on the main breaker(s), converter breaker(s), and turning the red, 12V battery cutoff switch to the "on" position. The converter will not charge the battery if the switch is in the "off" position. The converter is designed to maintain a trickle charge as needed, and will not overcharge the batteries.

The batteries must have a strong charge in order for the electronic equipment to operate correctly.

**NOTE:** The battery works in conjunction with the power converter, meaning the battery must always be fully charged. Any interference on the television could be the result of a weak battery.

**7. BAL Leveling Scissor Jacks:** Use small amounts of WD-40 or similar lubricant on drive screw threads and bolt locations as required.

**8. Underbelly:** The underbelly of the vehicle should be inspected yearly. Check for tears and vermin points of entry. Check that ground wires are fastened securely and that all wires are secure and in good shape.

**9. FRC Scene Lights:** Use a clean, soft cloth, mild soap, and water to clean the lens. **NOTE-** FRC led lampheads use Lexan lenses and cleaning with abrasive materials, solvents, or most chemical cleaners can cause lens surface degradation and reduced performance of the light. Some chemicals will cause the lens to become brittle and prone to cracking.

### **10. Carefree of Colorado Awning Care:**

- Always operate the awning according to the instructions.
- Periodically check that the fasteners are tight. Tighten if necessary.
- Keep the awning fabric and arms clean.

#### Awning Fabric Care

**CAUTION- DO NOT** use oil based cleaners or any caustic, granulated, or abrasive type cleaners on your Carefree product.

1. One of the best ways to keep the fabric looking good and to delay the need for deep or vigorous cleanings is to hose fabrics off on a monthly basis with clear water. This practice helps prevent dirt from becoming deeply imbedded in the fabric. In most environments, a thorough cleaning will be needed every two to three years.

2. When it's time for a thorough cleaning, the fabric can be cleaned while still on the awning frame.

- For Vinyl Fabric – Use a soft brush and warm water with soap.
- For Acrylic Fabric – Use a stiff brush and warm water with soap.

3. When cleaning the fabric, it is important to observe the following:

- Always use a natural soap, never detergent.
- Water should be cold to lukewarm, never more than 100°F.
- Air-dry only. Never apply heat to the fabric.
- Always allow the fabric to dry thoroughly before rolling up the awning.

#### Mildew

Mildew is a fungus growth that looks like dirt. Vinyl coated polyester fabrics are mildew resistant because of a chemical biocide in the vinyl coating. Under ordinary conditions, mildew

will not appear. However, in areas where high temperature and humidity are common, mildew can be a problem and require the material to be washed more frequently.

### Pooling

When water collects on the top of the fabric, this is known as "pooling". This can occur during inclement weather or if a running air conditioner discharges over the awning. The water is dumped when the awning is retracted. It is recommended that if water accumulates on the top; retract the awning in steps (8"-12") to dump the water. This will help prevent the fabric from stretching or distorting. The effects of wind and rain on an awning are unpredictable. Severe damage to the awning and the vehicle may result. **IF WIND OR EXTENDED PERIODS OF RAIN ARE EXPECTED, ROLL UP THE AWNING AND SECURE FOR TRAVEL.**

### Leaking

On vinyl canopies, side hems and poly cords are stitched in with a sewing machine. On occasion, this stitching may allow water to seep or leak through. This is normal and not a defect covered by warranty. Treat the seams with a quality seam sealer.

### Arm care

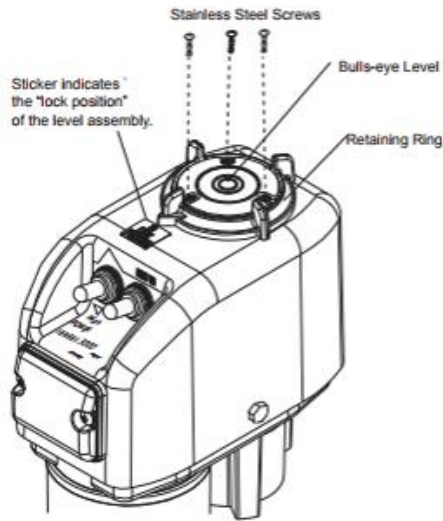
The best method of keeping the arms and braces operating smoothly is to clean them. Dirt and debris can cause the arms not to move easily. Periodically wash out the channels with running water (i.e. a hose). If the arms still do not move easily, lightly spray the joints and pivot points with a dry silicone lubricant after the arms have been cleaned and dried thoroughly.

## **11. RAM EJ-3520 Electric A-Frame Jack Maintenance and Troubleshooting:**

To keep your jack in good functional condition fully extend the jack and clean inner jack tube once a year. After cleaning coat the tube with a light grease or silicone spray lubricant.

If motor is not operating check to make sure the circuit breaker is not open. If it is wait 15 seconds for the breaker to close. Check for poor ground making sure there is good metal to metal contact with the star washers to ensure proper ground. Check to make sure wire is in good contact with positive on battery. Check to make sure battery is charged. A minimum of 10 volts is needed. Check to make sure the fuse is not blown. If it is replace it.

## 12. VIP 3500 Power Jack:



Once a year, the powerhead should be removed and a liberal amount of grease (preferably grease with a high melting point) should be applied directly to the coupling on which the drive pin rests.

**DO NOT POUR OIL** into top of jack post.

Once a year, the housing cover should be removed and gears inspected for proper lubrication. Remove 4 screws and tap around edges of housing to free the cover.

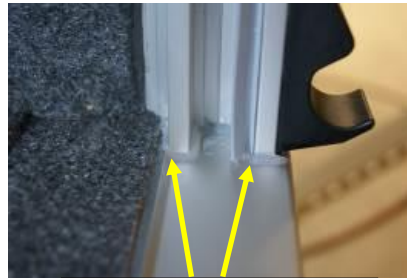
**DO NOT** insert screw driver blade - this may damage mating surfaces.

## 13. Rollup Door:

Using a Clear Silicone Sealant, check and reapply on the inside of the rollup door channel where the sides connect to the bottom plate. If this is not performed, leakage may occur into the gaming console compartments from rain and snow.



BEFORE



AFTER

The above sealant is to be used on the vehicle every 6 months.

**14. Nonskid Strips:** Check the nonskid strips installed on the entrance step area(s) and the ladder rungs monthly. If the skid strips are showing signs of wear and tear, remove and replace

with a new nonskid strip. We recommend 3M's Non Skid Pads, which can be purchased at any local hardware store.

## IV. INTERIOR

- 1. Cleaning Interior:** The interior walls can be cleaned with a household cleaner such as Fantastic or 409 Spray. Do not put any holes in the interior wallboard; we recommend the use of heavy-duty Velcro for posting signs, mirrors, or pictures.
- 2. Air Conditioner Filter:** Clean the filter twice a year or more often depending on usage. The filters in the air conditioners are washable. Clean them in warm water with a small amount of dishwashing soap, then rinse completely. Do not wring out the water, but instead, squeeze and completely dry before reuse. See the manufacturer's manual for more details.
- 3. Surge Protector:** The surge protector will be self-diagnosing and should not need any maintenance. The LED screen will show any faults or surges and must be addressed.
- 4. Vinyl Cushions:** To clean the black seat cushions-  
**Step 1:** Remove dust/dirt. You should remove dust and loose particles from the surface before any deep cleaning.  
**Step 2:** Prepare the Cleaning Solution. This is just soap (mild dish detergent) and water.  
**Step 3:** Clean the Seat Cushion. The cloth you use to clean the record should be soft and absorbent.  
**Step 4:** Repeat if necessary.  
**Step 5:** "Rinse"...wet/dampen a clean towel to wipe clean. **Avoid** harsh cleaning products and solvent chemicals as this could damage the material.

## 5. Better Life Technology Commercial Grade Vinyl Flooring

G-Floor® is an extremely durable and easy-to-maintain surface. It has incredible versatility, and can stand up to any stain in the most rugged of environments. G-Floor®'s solid polyvinyl construction ensures no scratches, tears, or nicks.

### Cleaning & Maintenance

The surface is easily washed with floor soap and water. This product can be easily washed off. Brush or sweep with cool water using a broom or sponge squeegee. Mild soaps and other household detergents suitable for floors are usually effective. Never leave

harsh detergents or chemicals on product. Normal household vinyl cleaners may be used to increase longevity and to remove stubborn debris. **CAUTION- Certain automotive vinyl products may cause surface to become slippery.** Use a non-slip vinyl protector such as a clean-and-shine floor cleaner. After cleaning, apply a coat of floor polish for vinyl floors to add a long-lasting, high-luster finish. This is not a stain-proof product—certain dyes, inks, rubber tires, and chemicals may cause permanent staining. Some non-permanent stains can be removed with spray-on Brake and Tool Cleaner, found in many auto parts stores, without damaging the product. However, use of Brake and Tool Cleaner may cause product discoloration. Never use harsh chemicals such as tar remover or kerosene on this product.

## 6. Chauvet 1302 Smoke/Fog Machine:

### Maintenance

Do not allow the fog/haze machine to become contaminated. After every 40 hours of continuous operation, use CHAUVET FCQ through the system to prevent the accumulation of particulate matter in the heating element.

The recommended cleaning regimen is as follows:

1. Unplug the product from power
2. Empty all fog/haze fluid from the machine
3. Add cleaning solution to the tank
4. Connect the product to power and allow it to warm up
5. Run the unit in a well-ventilated area until the tank is almost empty and the fog output is very light.

**CAUTION: Do not allow the pump to run dry.**

6. Refill with fog/haze fluid to continue using the fog/haze machine. Run the machine briefly to clear any cleaning solution from the pump and heater.

**CAUTION: Do not operate the machine without fluid at any time.**

### Storage

1. Before storing the fog/haze machine, run FCQ through the system as described in the cleaning procedure above; however, only follow steps 1 through 5. Do not refill the tank with fog/haze fluid if storing the fog/haze machine, but fluid can remain in the line. Cleaning the system prior to storage helps prevent particles from condensing inside the pump or heater while not in use.
2. It is strongly recommended to test run the machine on a monthly basis in order to achieve its best performance.



**CAUTION:**

1. Never place the fog/haze machine on any flammable material (i.e., carpet, fabric, etc.) during operation. All fog/haze machines should always be on a non-flammable surface, such as concrete or tile.
2. Depending on the amount of fog/haze generated, all fog/haze machines may set off smoke detectors.
3. In certain environments, fog/haze fluid-based machines may leave a slippery residue on floors and surfaces.

**False Sensor Reading (Priming)**

If the fluid sensor falsely detects an empty fluid tank and the tank does not contain fluid, then there may be an air bubble in the fluid line.

To clear air bubbles out of the fluid line, do the following:

1. Fill the tank with correct fluid.
2. Let the unit reach normal operating temperature. When the machine has reached its normal operating temperature, a blue indicator will light.
3. Set the fog/haze output to the highest level.
4. If the blue indicator light flashes, the unit is falsely detecting an empty tank.
5. Power cycle the unit 1 or 2 times until the fluid reaches the sensor. The blue tank indicator light stops flashing.
6. Operate the machine as normal.

**Note: If an air bubble remains in the fluid line, tilt the machine at a 45° angle while pumping fluid to help remove the air bubble and thus eliminate a false sensor reading. To avoid spilling fluid, set the fluid tank in an upright position outside the machine prior to tilting the machine.**

If problems persist, please go to [www.chauvetlighting.com](http://www.chauvetlighting.com) for contact information.

**Frequently Asked Questions (FAQs):**

**1. The smoke machine automatically spurts out smoke when it is turned on. What's wrong?** *If smoke is coming out of the ductwork, the remote control was activated. Small puffs that dissipate in the piping before reaching the rooms are considered normal. If smoke machine is running, press the wireless remote switch to turn off the flow.*

**2. When the smoke machine is running, sometimes the control room fills with smoke. Is there a way to avoid this problem?** *Yes, you need to create a positive pressure in the control room. However, a windy day may cause a reversal of the pressure*

and cause the smoke to collect in the control room. Follow the steps that are listed on the prior pages and post in the control room.

**3. Should we have parents or guardian sign a permission slip before their children go through the smoke demonstration?** *YES! It is important to have a parent or guardian sign the permission slip before their child participates in the Fire Safety House and Smoke demonstration.*

**4. Should children or adults who have asthma go through the smoke demonstration?**



*No. It is not recommended to have an asthmatic individual go through the smoke demonstration. Not because the smoke will trigger an attack, but these individuals may have a psychological reaction to seeing the smoke causing an episode. If a child or adult has a throat infection, cold or any respiratory illness, it is recommended that they do not participate in the smoke demonstration.*

**5. What should we do with the children whose parents want them to go through the Fire Safety House, but not the smoke demonstration?** *Do not make these children feel different. Have the teacher point out these children and they can go through the entire demonstration, except the smoke portion of the program, together.*

**6. Where can we buy the liquid smoke?** *Mobile Concepts Specialty Vehicles always stocks Smoke Fluid. The fluid is sold by the four-gallon case. Call us at 1-800-783-0213 for pricing.*

**7. Interior Carpet:** The interior carpet should be professionally cleaned as needed. Contact a local carpet cleaning company.

CAUTION! Remove all plastic covering from the carpet. If the unit is left or stored in an area of high humidity or dampness, condensation may become trapped between the plastic floor covering and the carpet.

**8. Beau Flor (wood plank rubber flooring):**

Easy care maintenance:

- Wipe up spills as soon as they occur. Once dried, use a neutral pH cleaner.
- Sweep the floor thoroughly with a soft broom to remove all dirt and grit.
- Damp mop the floor using a clean mop or cloth. Frequently rinse in clean water.
- Do not use a beater bar vacuum cleaner on the floor. It can visibly damage the floor surface.

- When necessary, mop the floor with a solution of clean water and mild detergent or domestic floor cleaning emulsion\*.
- Rinse thoroughly with clean water.
  - \*Do not use:
    - i. Wire or nylon scouring pads
    - ii. Furniture polish
    - iii. Spirit based polish
    - iv. Powder or liquid abrasive cleaners
    - v. Bleach or strong detergents

Protecting your floor from physical damage- Avoid the following:

- Indentation marks from high pressure points such as cookers, washing machines and other appliances; these can be placed on hardboard sheets, castor cups or an off-cut of the flooring.
- Stiletto heels will damage the flooring.
- Tear or scuff damage can result from dragging heavy appliances across the floor.
- This can be avoided by placing a sheet of hardboard or an off-cut of carpet beneath such units before repositioning them.
- Sharp objects can puncture the surface of the floor.
- Hot or burning objects may scorch or blister the surface of the floor.
- Prevent ground-in dirt & grit by placing a non-staining doormat at all external doorways.

Protecting your floor from stain damage- Avoid the following:

- Rubber backing on doormats may result in yellow discoloration of the floor directly beneath. Choose a natural fiber mat or a mat with a non-staining backing.
- Rubber feet on furniture may cause staining. Remove them altogether or place coasters or felt pads between them and the floor.
- Spirit-based products such as shoe polish, solvents, hair dye and permanent marker pens. Wipe up spots and marks as quickly as possible. Also applies to turmeric, mustard and strongly colored foodstuffs.
- Corrosive substances such as acid and alkaline solutions can damage the surface of the floor, clean up any spills quickly and carefully avoiding direct with the substance. Wear protective clothing (gloves etc.) when doing so.
- Bitumen/tar from freshly resurfaced or melted roads and pathways; inexpensive black driveway sealers; some inexpensive rubber shoe (and slipper) soles can also cause stains.

**9. Broan Ceiling/Wall Heaters:** The following maintenance and cleaning tasks can be performed. All other servicing must be performed by an authorized technician. If you have any questions, please consult with the Broan customer service department at: 1-800-558-1711.

## **LUBRICATION**

The heater is permanently lubricated and never needs oiling or disassembly.

## **CLEANING**

Clean heater once a month as follows:

1. Turn off power at service panel.
2. Make sure heating element is cool.
3. Use a soft brush attachment to gently vacuum grille openings or wipe grille clean with a soft cloth.
4. Restore power.

**CAUTION: METAL AND ELECTRICAL PARTS SHOULD NEVER BE IMMERSSED IN WATER.**

*If you have any serious problems with the vehicle, such as sidewall damage or a water leak, the vehicle should be taken out of service immediately. If a water leak goes undetected for any length of time, severe structural damage can occur.*

*If you are experiencing any problems, please contact our Quality Control Manager @ 1-800-783-0213. Mobile Concepts Specialty Vehicles cannot be held responsible for customer negligence or neglect.*