



Owners Manual

Information About This Manual

The Owner's Manual does not cover every aspect of all models manufactured by Six-Pac Campers, Inc. Each owner should read this manual thoroughly and heed the caution given herein, as well as those given in the component instruction manuals contained in the Owner's Information Package.

NOTE: Some equipment and features described or shown in this package may be optional or unavailable on some models. Due to the continuous product improvement program at Six-Pac Campers, Inc. it is possible that recent product changes may not be included in this manual.

Specifications may change without notice. The instructions included in this manual are intended to be a guide, and in no respect extend the responsibility of the manufacturer beyond the limited warranty as presented in this manual. Photographs or illustrations in this manual are representative of function and may not be specific in their depiction of actual equipment, fabrics, interior or exterior décor or design options as installed on or in your camper.

While Six-Pac Campers has provided basic instructions on how to use your camper, it is ultimately your responsibility to make sure you fully understand how to use the camper prior to operation. To fulfill this responsibility, in addition to the instructions received from the dealer, you must read all instructional material furnished with the camper. If you do not understand how to operate any appliance or equipment, please call our factory for further instructions.

Product changes

Not all models include all features. Product information and photography included is as accurate as possible at the time of publication. For the most current product information and changes please visit our website at www.six-pac.com or contact our factory. Subsequent modifications may be evident in the actual product. Specifications are subject to change without notice. All weights, fuel, liquid capacities and dimensions are approximate.

ELECTRICAL SYSTEM

Depending on the options installed, the electrical system is very direct and easy to troubleshoot. You have 12 volt and 120 volt circuits. The 12-volt circuit comes from your automotive battery, and an auxiliary battery if installed in the camper. The power enters the camper at the front through a seven pronged connector, and is routed through the frame to the fuse panel located in the load center, inside the camper. The 120 volt source of power (the outlet) is located on the outside driver side of the camper, and is routed directly to the "load center".

When "shore" power is available, that is, 120 volt power from a source outside the camper, the electronic converter will automatically supply 12 volt power to the lights, furnace, 12 volt receptacles, outside light(s), and ceiling fan. If the camper is not connected to a 120 volt supply, the appliances will operate on 12 volt power from the truck battery and charging system, or, if installed, the auxiliary battery when the vehicle ignition is turned off. The function of the separator switch (with the aux. battery system) is to disengage the truck power supply (i.e. battery) when the truck is turned off, therefore keeping the truck battery fully charged. Disconnect 12 volt power to camper with the master switch if camper is not being used; over time the carbon monoxide and L.P. detectors will drain the battery.

You have been supplied operating manuals for the electrical appliances. Review the contents and operate these appliances according to the procedures provided in each manual. Service issues with these appliances are best handled by an authorized service center rather than our factory, as their centers have specialized training in troubleshooting and repairs.

TROUBLE SHOOTING

Your first inspection should be to check the fuses to determine if they have failed and that the circuit breakers have not overloaded. If either of these has occurred, isolate the cause of the overloading or short circuit and rectify the problem before operating the camper electrical systems again. Then check that the seven prong fitting between the camper and the truck is still connected properly. If you find these areas in good condition, then the problem might be the battery power sources.

The auxiliary battery has a 30 amp thermal breaker between the battery and the exterior seven prong connector.

Next check the electrical connections on the auxiliary battery and thermal breaker (if equipped) to insure they are tight. Then check the connections on the separator, and automotive battery. If you find all of these connections to be tight, and your automotive battery is good, then the problem might be that the auxiliary battery might need to be replaced. Have a service facility check the condition of the battery before replacing.

If you find one light is not operating, it is usually a bulb. If the furnace is not heating it is either the battery is low or an insufficient propane level.

PROPANE SYSTEM

Each new Six-Pac Camper comes equipped with a propane gas system including a regulator designed to provide regulated gas pressure for proper operation of the stove, furnace, refrigerator, and water heater (if equipped). The tank is mounted in a cabinet on the outside of the camper and is easily removed for filling. The tank is empty when you first receive your camper, and must be purged prior to filling the first time. Always have your tank refilled before it becomes empty.

To use propane inside the camper for your appliances, you must open the valve on the propane tank.

Prior to operating the refrigerator, forced air furnace or water heater, you should purge air from the propane supply lines. Light the stove and operate for about one (1) minute. This removes the air in the lines and allows faster and easier lighting of the refrigerator, furnace, and the water heater (if installed).

Another precaution that needs mention is in regards to cooking on the 2 burner stove. Always insure the pans you use for cooking do not extend outward above the control valves. Either use smaller pans or place the pans on the grates so that the flame does not overheat and damage the knobs.

Propane has a distinct smell added to warn the user of a possible leak. If you smell propane inside the camper, make sure the stove knobs are in the "Off" position, exit the unit immediately, turn off the propane tank valve outside the camper, and allow ventilation through the door and windows to exhaust the vapor. Wait until the scent of the propane is no longer present. Check for valves that might have been left open. A spray bottle with water with a small amount of dish soap added can be used to spray the plumbing fittings and gas lines to inspect for leaks. The soap will bubble if a leak is present.

The gas system is designed for use with liquefied petroleum gas only (propane).

Do not connect natural gas to this system.

WATER SYSTEM

The water system consists of an inboard fresh water tank. The campers also contain a stainless steel sink, electric water pump, and faucet. The fresh water tank is filled through the lockable external fill door, easily accessed on the outside / driver's side of the camper.

The fresh water tank drain is located on the rear wall (most models), at back edge of the camper with a white spigot.

The electric water pump adds convenience to your camping. To use the electric water pump, turn the pump on with the switch located on the monitor panel, it is not suggested to run the water pump dry for any length of time. Possible damage could result to the water pump motor. When finished, turn the switch off. Open the hot and cold faucets slightly at the sink and also on the outside shower controls to allow air to

bleed from the water lines. The pressurized system with the on-demand water pump can be left on all the time provided there is water in the fresh water tank. The on-demand water pump will automatically shut off once it reaches a certain pressure. When traveling or when finished using the camper it is always best to shut off the water pump.

After the water pump is off, you can also open the hot and cold faucets at the sink to remove any excess water pressure from the system.

Sanitize the water system by flushing the system with a mild bleach solution. Use a dilution ratio recommended by your local health department, or use a commercial sanitizing product following the appropriate directions. Excessive odor or taste from the sanitizing solution can be removed following instructions from your health authority, or following commercial preparation instructions. It is recommended that the system be sanitized after long periods of standing water being unused. Fill water tank with mild bleach solution then turn on water pump to get solution through all the lines and faucets. Let stand for 24 hours, drain and flush with fresh water until the bleach smell is gone. If the camper will be stored in freezing conditions, be sure to drain the water system to prevent damage from frozen water lines.

(See Back Pages Attached On Winterizing Your Camper)

TO EMPTY WASTE HOLDING TANK

1. Check that holding tank drain valve is in closed position
2. Connect drain hose to drain outlet on dump valve and other end to dumping station's sewer inlet.
3. Check that the drain hose has a smooth downward flow from the outlet to sewer inlet.
4. Unlock and pull valve handle out smoothly and quickly.
5. When waste has drained, close drain valve.
6. Flush toilet to run several gallons of water into tank. Open drain valve again.

OPERATING CONNECTED TO SEWER

1. Connect to sewer line, as in steps 1 -3 above.
2. Do Not leave the dump valve(s) open. Allow holding tank to become nearly full before dumping to facilitate proper drainage.
3. Drain holding tank as stated above. Note: RV accessory stores sell a sewer hose support device. If you are to remain connected to sewer hook up for an extended period of time, you might consider purchasing one.

After emptying toilet holding tank, it is necessary to put approximately 1 or 2 quarts of water in the tank. This helps prevent solids build up. At this time, add an odor control chemical. These chemicals come in liquid, powder and tablet form. We recommend Thetford Aquazyme, this prevents solids build up. This can be done after dumping the tank by putting water in the tank through the toilet. It is always necessary to flush out the waste holding tank.

Do not put anything in the holding tank that will not dissolve, such as paper towels, facial tissues, etc.

ENTRY DOOR

When entering your unit, don't pull on the door. Don't allow children to hang on the door. Keep hinges and locks lightly lubricated and the lock adjusted. To shut the door it should not be necessary to slam it shut. Use a silicone or Teflon base lube as it does not collect as much debris. Lubricate the locking mechanism with a graphite product. Be very careful with graphite, though, as it stains most surfaces easily.

RACK AND LADDER

Never allow children to play on the ladder or on the top of your unit. To do so may cause damage to your roof that may result in your roof leaking. When traveling with gear on camper top deck, take care in properly securing all items. Do not overload deck and possibly make your camper top heavy.

TURNBUCKLE SECURING PROCEDURES

Your camper is secured to the bed of your truck with a system turnbuckles.

Occasionally check the tension, especially when driving on curvy mountain roads. It is always better to be safe than sorry by checking them more often than not at all.

MAINTENANCE PROCEDURES

Exterior:

Your new camper has aluminum siding with a very durable baked enamel paint finish. We suggest maintaining the finish by washing with a solution of mild detergent and water. The best product we have found for keeping the outside of the camper clean and shiny is called "Protect All" (www.ProtectAll.com). It can be purchased here at Six-Pac Campers or you can buy it at most local RV supply stores. An application of this product also aids in washing of insects and road soils from the front surfaces of the camper.

When storing the camper, ensure the camper is clean, dry, and condensation has been allowed to evaporate before storing an extended period of time.

Interior:

All of the cushions and curtains are hand washable or dry cleanable. We do not suggest you wash them in a washing machine. This could damage the zippers, and possibly the sewn seam, of the cushions.

ROOF MAINTENANCE

Cleaning and Maintaining the Royal Tuff-Ply Roof (TPO).

Proper care, cleaning and maintenance of TPO roofing is quite simple due to the basic properties and longevity of the material. Periodic cleaning is the primary maintenance needed. Alpha Systems recommends using Murphy's Oil Soap® with a soft nylon brush or sponge to clean Tuff-Ply.

DO NOT USE SOLID OR GRANULATED CLEANERS, as they will mar the natural finish.

DO NOT USE ARMOR-ALL® OR OTHER OIL OR SOLVENT-BASED CLEANERS, as they will leave a slick surface and possibly damage the membrane.

A thorough cleaning with moderate scrubbing action, per the suggestions above, should remove most stains and keep the roof looking good. For removal of more stubborn stains, contact Alpha Systems Customer Service at (574-295-5206).

Annual roof inspection is recommended. Check the membrane for possible damage and check the caulk or lap sealant used in all termination areas and around all accessories and fasteners.

Winterizing the Hot Water / Outdoor Shower System:

To reduce the possibility of fractures and splits in the system's water tanks, lines, and pressurizing pump in climates where the temperature is below freezing (32 degrees F; 0 degrees C), it is recommended that as much water as possible be drained from the system, and that a mixture of water and non-toxic antifreeze be added. (Please contact the companies at the bottom of this page for more info regarding non-toxic antifreeze, mixture ratio, and important safety info).

1. Drain the Hot Water Tank:

Drain the Hot Water Heater six (6) Gallon Hot Water Tank by removing the Hot Water Tank Drain Plug. This plug is located on the center of the bottom of the hot water tank and accessed by removing the Hot Water Heater Access Panel on the exterior wall. Remove the Hot Water Tank Drain Plug. After water stops flowing from the Hot Water Tank Drain Plug Port, replace the drain plug.

When you remove the drain plug from your water heater, you will see an anode rod attached to it. The anode will probably look corroded and eaten away, but that's the purpose it serves so don't worry about that. Annually, or when the rod has eroded away to about a quarter of its original size, replace it. Simply unscrew the drain plug and screw in a new one.

Suburban water heaters feature an anode rod. The anode equalizes aggressive water action, providing cathodic protection for the tank. It is a very important factor in tank life and should only be removed for inspection, draining or replacement. It is removable using a 1-1/16" socket.

All Suburban water heaters are protected by a magnesium or aluminum anode to prolong the life of the tank. Under normal use, the anode rod will deteriorate. Because of this, we recommend it be replaced annually or when consumption or weight loss of the rod is greater than 75%. Note: Water with high levels of iron and/or sulfate will increase the rate of deterioration. To extend anode life, drain water from tank whenever the RV is not being used. Avoid any extended time of non-use with water in the tank.

*** IMPORTANT HOT WATER TANK NOTES**

Drain the water heater completely, particularly if you are introducing antifreeze into the plumbing system. Antifreeze can be very corrosive to the anode rod. The result will be accelerated deterioration of the rod and heavy sediment in the tank. If you intend to winterize by adding antifreeze into the system, remove the anode rod from the tank (storing it for the winter) and replace it with a 3/4" drain plug.

2. Drain the Shower Head and Hose:

Open the door to the Outdoor Hot Water Shower Compartment on the driver's side. Remove the shower head and hose. Extend the hose until it is straight. With the hose straightened, position the showerhead so that it is lower than where the hose is attached to the shower compartment. Turn on both the cold and hot water valves until the water stops flowing from the showerhead. Close the water valves.

3. Drain the Freshwater Tank:

Open the drain valve on the rear of the camper.

4. Drain the Water Pump:

Run the Water Pump for approximately 15 to 30 seconds or as long as water is flowing from the sink faucet with both the hot and cold water valves opened to drain as much remaining water from the system as possible.

5. Add Non-Toxic Antifreeze

See antifreeze manufacturer's mixture recommendations. Add approximately 5 gallons of properly prepared non-toxic antifreeze and water solution to the Freshwater Reservoir at the Potable Water Port on the driver's side of the camper.

Run the system water pump until antifreeze/water mixture flows from the sink faucet and showerhead. Close all valves. Flush toilet and run inside shower. Drain the sink.

Before refilling the camper's Freshwater System and Hot Water Tank with fresh/potable water, thoroughly flush the entire system with the pressurizing pump running, to remove the antifreeze.

Camco Antifreeze – 1-336-668-7661 – www.camco.net
Pah-Nol Non-Toxic Antifreeze – 1-800-777-2466 --
www.houghtonchemical.com

IMPORTANT REFRIGERATOR INSTRUCTIONS !!

Operating the refrigerator in DC mode:

- For the battery to be fully charged at all times during refrigerator operation on DC, the vehicle must be running and the battery charging system must be in good operating condition.
- The capacity of the battery charging system must be more than what is necessary for the refrigerator and other DC appliances.
- DC operation is intended only to maintain the temperature of the refrigerator and its contents when they are already cool.
- The DC operation is not intended for the initial start up and cooling of the refrigerator. Always use either the AC operation or propane gas operation to initially start up and cool the refrigerator. The refrigerator must be cooled and the temperature must be steady before you operate the refrigerator on DC.
- Do not use DC operation until the refrigerator and its contents are completely cooled.
- Only use DC operation if the vehicle battery and battery charging system are in good operating condition.

Operating the refrigerator in Propane Gas mode:

- When you operate the refrigerator on propane gas at altitudes higher than 5500 feet above sea level:
 - You may experience reduced cooling performance of the refrigerator.
 - You may experience burner outages.
- To avoid these possible problems, Norcold recommends that you operate the refrigerator on AC when at altitudes higher than 5500 feet above sea level.