

CAYO

MOTOR HOME

Operation and Service Manual

Keep this book with your CAYO at all times

CAYO RV CORPORATION
1550 E. Empire Avenue, Benton Harbor, Michigan 49022

CAVO MOTOVATOR OWNERS MANUAL

This owners manual contains general information concerning the care and operation of your motorhome. More detailed instructions on the various equipment in your motorhome may be found in a package within the motorhome. Read carefully all of the material in this package. Fill out and mail all of the warranty cards contained therein. Pay particular attention to the chassis service information contained in your chassis owners and operators manual. Failure to properly service and maintain the chassis components may void the warranty.

WARNING

POTABLE WATER ONLY

SANITIZE, FLUSH AND

DRAIN BEFORE USING.

SEE INSTRUCTION MANUAL

INSTRUCTIONS FOR SANITIZING POTABLE WATER SYSTEMS.

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

1. Prepare a chlorine solution using one gallon of water and $\frac{1}{4}$ cup of Chlorox or Purex household bleach (5% sodium hypochlorite solution). Pour one gallon of the solution into tank for each 15 gallons of tank capacity.
2. Complete filling of tank with fresh water. Open each faucet and drain cock until all air has been released from the pipes and entire system is filled.
3. Allow to stand for three hours.
4. Drain and flush with potable fresh water.
5. To remove any excessive chlorine taste or odor which might remain, prepare a solution of one quart vinegar to five gallons water and allow this solution to agitate in tank for several days by vehicle motion.
6. Drain tank and again flush with potable water.

IMPORTANT

INSTRUCTIONS FOR WINTERIZING YOUR MOTORHOME

1. Open the water tank drain valve located by the water pump, the drain valve on the water heater, the drain cock in the line to the toilet, all faucets including the water purifier faucet if the unit is equipped with a purifier and open the shower diverter to an open position so that the shower hose will drain back into the bath lavy.
2. When water has stopped draining from all openings remove the hose from the outlet side of the pump where it connects to the main copper line. Catch what water that drains from the copper line in a cup or a sponge or towel. Start the pump and catch the water that will come out of the hose. It will not harm the pump to run it when dry.
3. Depress the toilet pedal to drain the toilet bowl.
4. Drain the waste holding tank.
5. There are three traps-one in the kitchen sink, one in the bath lavy and one in the shower base. Either remove the water in these traps by using a suction pump or pour about one cup of Ethylene Glycol type antifreeze in each. Use caution to avoid spilling the solution on any plastic surfaces where discoloration may occur. Do not use an alcohol base antifreeze.

BE SURE TO RECONNECT THE HOSE FROM THE PUMP TO THE MAIN COPPER LINE BEFORE YOU USE THE WATER SYSTEM AGAIN.

CARE OF THE EXTERIOR

Taking care of the exterior is much like taking care of your automobile finish. Waxing periodically will help preserve the finish and make it easier to take care of.

If you should travel with your Motorhome on roads that were chlorided or salted to melt ice, it is suggested that the chloride be washed off of the Motorhome as soon as possible. A very light wiping with a soft cloth with straight back and forth motion while hosing will remove the chloride, which if left on might cause discoloration.

The use of a mild soap or detergent will aid in the removal of road film. Never use a strong alkali or abrasive.

Exterior seams should be examined periodically for holes or shrinkage of the sealer caused from long exposure to the elements.

CARE OF THE INTERIOR

The interior walls of the coach are covered with vinyl. They may be cleaned by washing with mild soap or detergent and water. DO NOT use an abrasive cleaner or a solvent as it may cause damage to the vinyl or dull the finish.

The shower base and lavatory enclosure are molded plastic. They should have the same care as the interior walls.

The cabinets and woodwork deserve the same care as the furniture in your home. A furniture wax or polish will aid in maintaining the fine factory finish.

The windows are Plexiglass acrylic plastic, providing outstanding resistance to breaking. They are tinted to filter out heat and afford privacy. These windows should be dusted and cleaned with a damp cloth or chamois, wiping the surface gently. Wash with a mild soap or detergent and water. Use as much water as possible, applying with a clean soft cloth, sponge or chamois. The best method of drying is with a clean damp chamois.

Your plexiglass windows may be protected with a good grade of commercial wax. Apply and bring it to a high polish by rubbing with a soft dry cloth.

Removal of the screen is accomplished by pushing upward on the screen frame until it clears the bottom channel. It can then be pulled out from the bottom and removed.

CONVERTER

The power converter is capable of delivering 20 amps of direct current at 12-volts. It operates whenever the power cord is plugged into a 115-volt AC source or from the 110-volt generator if the Motorhome is equipped with a generator (optional). The converter is equipped with a battery charger and a built in manual reset circuit breaker.

A relay is employed to automatically switch to the self contained 12-volt battery whenever the power cord is disconnected. The camper battery is charged by the truck generator or by the converter when connected to 110-volt power. (Be sure to check this battery regularly to insure that it is being maintained in a state of full charge. Allowing a battery to stand in a discharged condition may cause damage from sulfation).

CHECK BATTERY WATER LEVEL REGULARLY AND FILL WHEN DOWN

A copy of the converter instruction sheet is included in each camper warranty envelope. It contains detailed information that will help you use your electrical system to best advantage. The model PD-701-AR converter is warranted by the manufacture for the life of the unit, according to the terms and conditions of the warranty statement. For information, warranty service or parts contact PROGRESSIVE DYNAMICS INC. P.O. BOX 168 MARSHALL, MICHIGAN. The telephone number is AC 616-781-4241.

WATER PURIFIER - OPTIONAL

If your camper is equipped with an Ogden water purifier, it will be located to the left in back of the kitchen sink. This purifier is designed to remove harmful bacteria, odor, and impurities from your drinking water. The filter should be changed when the water begins to run slowly from the filter unit.

The replacement packs #SMI are available direct from WESTERN OGDEN PURIFIER COMPANY AT 7906 SANTA MONICA BLVD., HOLLYWOOD, CALIFORNIA.

SPACE HEATER

The wall furnace in your Motorhome is a Duo-Therm Model 16 ME. The fan is equipped with a switch. Place the switch in the "on" position to permit the blower to operate whenever the furnace reaches proper temperature. Place the switch in the "off" position when it is desirable to conserve electrical energy.

Lighting instructions are located on the front of the furnace and in the instruction sheet placed in each Owners Instruction Envelope.

This heater is warranted for a period of one year, according to the terms of the warranty statement. Warranty service, information and parts may be obtained from DUO-THERM DIVISION, MOTOR WHEEL CORPORATION, SERVICE DEPT. LA GRANGE, INDIANA 46761. The telephone number is AC 219-463-2191.

REFRIGERATOR

The refrigerator in your Motorhome is an Instamatic model RV 6. Lighting instructions will be found attached to the removable kick plate below the door. It is very important that the refrigerator be level for proper operation. The components in the Instamatic refrigerators are warranted for one year, with the cooling unit guaranteed for 7 years. Refer to the warranty policy for specific information. Warranty service, information and parts may be obtained from INSTAMATIC CORP., 233 MIDDLEBURY, ELKHART, INDIANA 46514. Phone AC 219-293-4591. For service on the west coast contact INSTAMATIC CORP., 17051 GREEN DRIVE, BIXBY INDUSTRIAL PARK, CITY OF INDUSTRY, CALIF. 91744. Phone AC 213-964-3421. For service call Watts Line 800-348-7681.

WATER HEATER

The water heater in your Motorhome is an Atwood Model 6A2. Lighting instructions are on the outside of the panel which provides access to the burner. The unit is warranted by the manufacturers for a period of 10 years on the inner tank. Service, information or parts may be obtained from ATWOOD VACUUM MACHINE CO., 1400 EDDY AVE., ROCKFORD, ILL. 61101.

RANGE

The range in your Motorhome is a Magic Chef Model 166. The burner controls are equipped with a safety catch. Push the knob inward and turn counter-clockwise to turn gas on. Light by holding a match near the burner as you open the valve.

RANGE (continued)

The shut-off valve for the oven pilot and burner is located under the range top. Lift the hinged top to gain access. The constant pilot may be allowed to burn during the period that the camper is parked. BE SURE TO CLOSE THE SHUT OFF VALVE AND ALLOW THE PILOT FLAME TO BURN OUT BEFORE LEAVING THE CAMPSITE.

The Model 166 range has a 90 day warranty to the original owner according to the terms and conditions of the warranty certificate. Warranty service, information and parts may be obtained from MAGIC CHEFF, INC., SERVICE DEPT., 245 N. VINELAND, CITY OF INDUSTRY, CALIF. 91744. The phone number is AC 213-330-6878.

TOILET

The toilet in your Motorhome is a Thetford Model Galaxy 40. It is a pedal operated stool, with Water Saver Package installed. Operating instructions are provided on a label attached to the seat, and in the instruction sheet included in each Owners Warranty Envelope. When operating the stool, be sure all paper is flushed from the bowl before allowing valve to close. Paper wedged into the valve seat will prevent sealing.

The Thetford Toilet does not require lubrication. Ordinary household cleaners may be used for routine cleaning. Common toilet bowl cleaners may be used, however, they should be flushed on through the system within four hours, and should not be left in the holding tank for any extended period of time.

The Thetford Toilet is warranted by the manufacturer for a period of two years, according to the terms of the Guarantee statement. Warranty service and parts may be obtained from THETFORD ENGINEERING CORP., 6539 JACKSON RD., ANN ARBOR, MICH. 48103. Phone AC 313-426-4612.

WASTE HOLDING TANK

Your Motorhome is equipped with a 18 gallon waste holding tank. It will retain the waste from the toilet only when the valve is closed. The water from the sinks and shower do not enter the waste holding tank.

It is wise to keep the tank valve closed. The volume of water used with each flush may not be adequate to flood away all of the solids. The result can be a build up that becomes difficult to remove. Keep the dump valve closed, run about 2" of water in the tank before using and flush when necessary. The larger volume of water through the drain hose will set up a swirling action in the tank that will flush away the solids.

WASTE HOLDING TANK (continued)

The valve for the tank is located on the left side at the rear outside the camper. The valve handle is below the left tail light. Pull the handle out to open the valve and empty the tank.

If the sewer outlet cap is left in place when water is emptied from the sinks, the water will back up into the shower pan. The same will occur if the holding tank valve is open with the outlet cap in place. Be sure the tank valve is closed and locked with the two wire clips while traveling.

A small door, located on the outside of the Motorhome on the left side, provides access to both the electric power cord and the sewer hose storage unit.

WATER PUMP

Your camper is equipped with a 12 volt pump. It is located at the water tank. A switch is located on the Motorhome wall in the kitchen area. Turn pump switch "off" when camper is unattended.

The Model 6950-J pump is warranted by the manufacturer for a period of one year. For information, warranty service or parts contact PETERS AND RUSSELL, INC., 529 W. LIBERTY STREET, SPRINGFIELD, OHIO, 45501. Phone AC 513-323-3777.

TIRES

For the safe and proper operation of your Motorhome and maximum gas mileage and tire life it is essential that the tires be kept properly inflated and rotated as per the instructions provided in the chassis owners manual. The tire pressure will vary depending on the particular tire make and size but will be approximately 55 P.S.I.

BATTERY

The battery in your motorhome is in the right rocker panel at the forward end. It is wired so that the alternator on the truck engine will charge the battery when the truck is running. The RV battery is disconnected from the truck battery when the key is turned off. This protects against running the truck battery down. The battery will also be charged through the converter when the motorhome is connected to 110 Volt power source or when the 110 Volt generator (an optional extra) is running.

THE WATER LEVEL IN YOUR BATTERY SHOULD BE CHECKED OFTEN AND FILLED WHEN NEEDED. The cables are long enough to the battery so that the battery can be lifted out and set on the ground for checking.

110 VOLT GENERATOR

If your motorhome has a generator it is an Onan 2500 Watt and is installed on the driver's side of the unit just to the rear of the driver's seat.

Starting of the generator can be accomplished by one of two ways. There is a remote switch inside your motorhome on the front wall of the sink cabinet just behind the driver's seat. To start the generator push the switch to the start position. Hold the switch until the generator is running. To stop the generator push the switch to stop and hold until the unit is stopped completely. There are also switches on the generator itself. One operates the same as the remote switch. The other is to switch from electric start to manual start.

To manual start the unit, switch to manual start. There is a rope pull wheel on the left hand end of the generator. Chocking or speed control are all automatic. The generator uses gas from the vehicle tank. The generator is wired to start from the truck battery. We have wired it this way for two reasons: 1. Your truck battery is not apt to be drained down to where it won't start the generator. 2. If your battery in the truck is too low to start the generator you can start the truck engine and be reviving the engine somewhat you should get enough power from the alternator and the battery to start the generator.

On the 110V side of the generator you have a switch located under the sink near your 110V breaker box. It has three settings: OFF--CORD--ONAN. When plugged into 110V the switch should be on CORD and when running the generator it should be on ONAN. You cannot get over voltage to any equipment with this arrangement.

110 Volt Generator cont.

The generator is installed on a pull out tray for service. It may be pulled out by removing the flexible exhaust tubing and removing the two bolts at the front of the tray.

When the generator is running your entire unit will be supplied with power the same as if you were plugged into 110 volt power. Your converter will be activated and the battery charger will be charging the battery if the battery is not fully charged.

Read your Onan operation and service manual carefully. Be sure to change oil as recommended. For service consult the list of authorized dealers in your Onan owners manual.

WARRANTY INFORMATION

Service, repairs and parts for your CAYO CAMPER may be obtained through any of the many CAYO DEALERS across the country, or from:

CAYO R.V. CORPORATION
1550 E. EMPIRE AVE.
BOSTON HARBOR, MICHIGAN 49022

Service or repair work performed by CAYO R.V. CORP. will be done on an appointment basis. Please call or write in advance.

For service work under the warranty obtained outside the factory it will be necessary to obtain authorization in advance from the factory.

Warranty service and parts for many components that are manufactured by CAYO suppliers may be obtained direct. In this section you will find warranty information provided by the suppliers, parts lists and lists of addresses of service centers and factories where suppliers have arranged to provide service for CAYO CAMPER OWNERS.