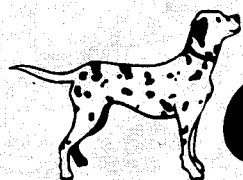


1975 - 1976

CASUALINE

**OWNER'S
MANUAL**



Coachmen
INDUSTRIES, INC.



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INSURANCE

Personal liability, property damage, collision and theft of contents may be features of your automobile insurance policy which apply to your Coachmen unit. Talk to your auto insurance agent for further information. Always carry your policy card.

INTERNATIONAL TRAVEL

Check your driver's license. Renew it if it has expired or will expire during your trip. Passports are not required for entry into either Canada or Mexico. We recommend that you carry some sort of proof of identity (Birth certificate, voter registration card, etc.). Contact your auto insurance agent. Special temporary insurance coverage provisions may have to be made.

CANADA Each province has its own fishing and hunting laws and licenses. You must present a written description of each rifle or shotgun, along with each serial number, to the customs official at the border. Revolvers, pistols, fully automatic rifles and weapons with an operational length of less than 26" are prohibited. Dogs and cats — You must carry a certificate, signed by a licensed veterinarian, which describes the pet and attests that the animal has had a rabies shot within the past 12 months.

MEXICO You must carry a tourist card. One may be obtained either at the port of entry or from a Mexican consulate. If you intend to hunt, you must obtain a firearms permit before your trip. Dogs and cats — You must carry a certificate, signed by a licensed veterinarian, which describes the pet and attests that the animal has had a rabies shot within the past 6 months. You will have to pay a nominal fee at the border for a pet permit.

For further information regarding regulations, points of interest and campsites, contact the appropriate consulate.

TRAVEL PREPARATION

The following list is presented to aid you in deciding what clothing and equipment to take along. It also includes a few basic procedures which should be considered before each trip.

CLOTHING — Compile a clothing list for each person. Consider season and geographical location through which you intend to travel. Basic articles: Underwear, socks, footwear, shirts or blouses, trousers or slacks, dresses, shorts, sweater, jacket or coat, rainwear and swimsuit.

PERSONAL HYGIENE — Toilet paper, soap, washclothes, towels, toothpaste, deodorant, and shaving kit.

CAMP HYGIENE — Dishsoap, dishcloth and dish-towel; garbage and trash bags; mop, broom and dustpan.

SAFETY — 2 fire extinguishers; flares and reflectors; first aid kit; tow rope and chain.

FOOD & WATER — Take along enough food for 3 complete meals for each person. Consider how much water will be required for self-contained operation.

MEAL PREPARATION — Bottle cap and can opener; matches, lighter or igniter device; pots and pans; plates, glasses, and cups; silverware and carving knife.

TOOL CHEST — Include an assortment of wrenches, pliers, hammer, screwdrivers, tire pressure gauge, electrical and masking tape.

ADDITIONAL TOOLS — Hatchet, saw, shovel, and 12-volt portable tire pump.

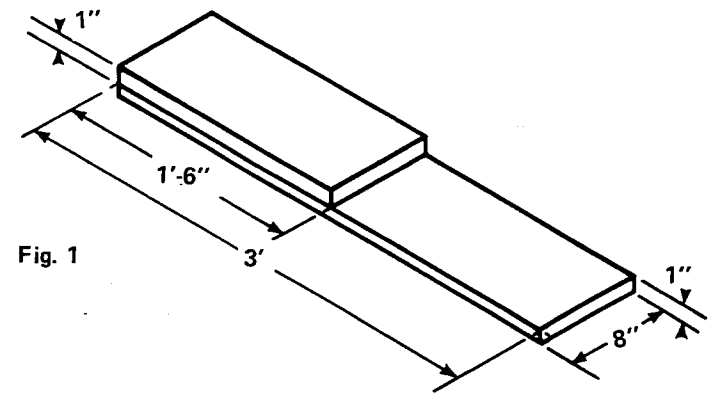


Fig. 1

SET UP — Drain water hose (*garden*) and bucket; fresh water hose (*garden*) and bucket; "Y" type water hose fitting; 20' long 3-wire power cord; 3-prong adaptor with grounding wire; wheel chocks; 2-step leveling ramp (FIG. 1).

SLEEPING GEAR — Pajamas, pillows, sheets, blankets or sleeping bags.

ENTERTAINMENT — Take along games and toys for rainy day entertainment.

IMPORTANT DOCUMENTS — Vehicle registration and insurance policy card(s).

TOURIST INFORMATION — Obtain current road maps and tourist information for each state through which you intend to travel. Purchase a tourist guide book.

HOME SECURITY — Give a trusted neighbor, friend or relative a house key and your travel itinerary. Make arrangements for someone to check your house at least once a week. If you intend to be away for more than 2 weeks, request police surveillance. Stop mail and newspaper delivery. Carry an extra set of vehicle and house keys on a separate key ring.

TOWING HOOK UP

COUPLER & FRONT JACK — Lift the coupler lever to its fullest extent (FIG. 2). Place coupler socket over the hitch ball. Crank front jack to lower coupler onto the hitch ball. Press coupler lever to lock it. Insert a locking device through the lever holes. You may purchase a locking device from your Coachmen Dealer.

Crank up front jack as far as possible. Turn the dolly wheel assembly clockwise so the dimple will slide into the groove of the jack (FIG. 3). Remove wheel assembly and store. Crank jack all the way up. If this procedure is not followed, the front jack may dig into the road and be damaged.

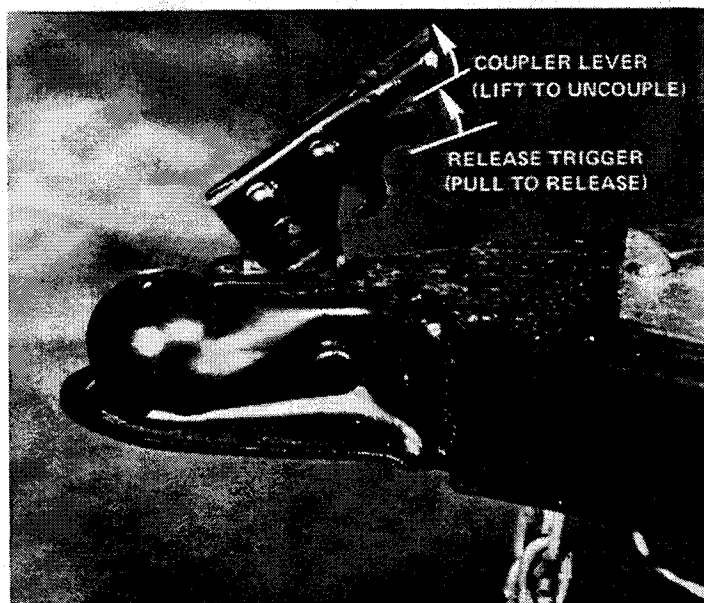


Fig. 2

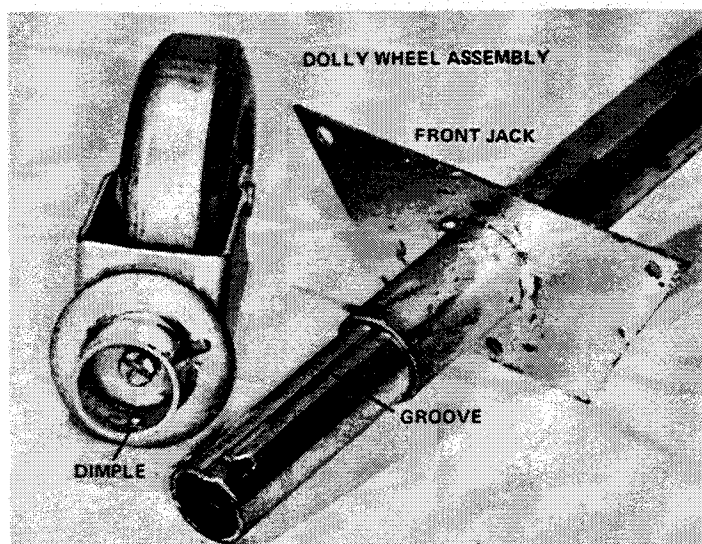


Fig. 3

SAFETY CHAINS & PIGTAIL — Cross the safety chains under the "A" frame and attach them to the hitch platform. Plug the electrical pigtail into the towing vehicle's harness.

The safety chains and pigtail wires must be arranged so that both vehicles may turn freely without them dragging on ground.

HYDRAULIC BRAKES WITH BREAK-AWAY (Optional 18 & 20 ft. Models Only) — Run break-away chain through the eye bolt located on the actuator (FIG. 4). Attach it to your towing vehicle's bumper. It must hang clear of the camper tongue and be long enough to permit short radius turns without activating the braking system. **DO NOT** use this system as a parking brake.

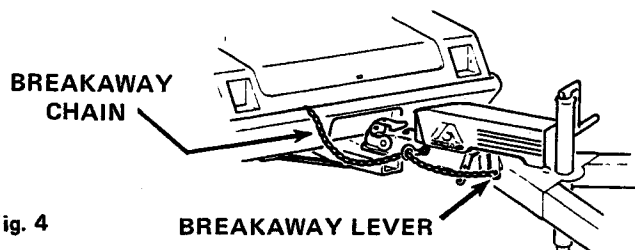


Fig. 4

DRIVING

BASIC MANEUVERS — Practice turning, backing and braking in an empty shopping center parking lot.

TURNING — Determine the maximum left and right turning radius. You will need a person to tell you how close the towing vehicle is to the camper. This procedure will be helpful when backing. Remember the camper wheels will turn a tighter radius than the towing vehicle; therefore, swing wide around corners.

BACKING — Place your hand at the bottom of the steering wheel. Move wheel in the direction you want the camper to go (FIG. 5). Have someone stand behind the camper where you can see him. Remember the maximum turning radius when backing. If your camper begins to jackknife, pull forward and start over.

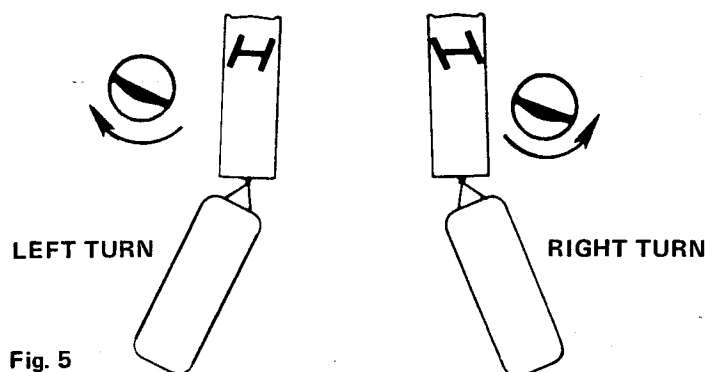


Fig. 5

BRAKING — Allow sufficient distance to safely stop your unit. Pump the brake pedal lightly to stop on wet or icy roads. If your vehicle starts to slide, turn the steering wheel in the direction of the slide. **DO NOT** tromp down on the brake pedal — a panic stop will increase the slide. **DO** drive slow enough so that you may stop without causing a panic slide.

TOWING — Observe traffic flow. Signal to oncoming traffic and accelerate slowly in low gear. Stay in the right lane as much as possible. Allow faster vehicles to pass you. Some states require slow moving vehicles to pull off the road as soon as possible when four or more vehicles are waiting to pass. Before passing another vehicle, be sure that there is enough space ahead to pull in safely. Signal all lane changes. Shift to lower gear when ascending or descending a grade or hill. Drive for several hours, then rest a half hour. Stretch your legs. Check engine temperature — see your towing vehicle manual for further details.

SWAYING OR FISHTAILING — This condition must be eliminated as soon as possible. Accelerate, then gradually slow down. If this maneuver does not eliminate the sway, pull off the road and check: tire pressure, proper loading of camper, front end alignment and suspension.

EMERGENCY STOPPING — If the camper coupler is jolted off the hitch, steer towards the nearest shoulder of the road and gradually reduce speed. The safety chains, which must be crossed under the coupler and hooked to the hitch platform, will prevent the tongue from dropping to the road. **DO NOT** slam the brakes if the coupler bounces off the hitch — the camper will strike the towing vehicle.

CAMP SITE SELECTION

Arrive at the campground early enough so that you may inspect and choose a parking site during daylight hours. Check ground firmness — avoid mud, sand and gravel. DO NOT camp next to a swamp, stream or other bodies of water — mosquitoes and other insects may be quite bothersome. Check for dead trees and loose limbs — a strong wind may blow them over and damage your unit. Avoid areas which display signs of flash flooding, such as exposed tree roots or other erosion.

WINTER USAGE — Park behind a grove of trees, bushes or any other type of windbreak. Cover the gap between your unit and the ground with plastic, canvas or other suitable insulating material. These procedures will help maintain a comfortable interior temperature.

LOADING

GENERAL — Distribute cargo load equally from side-to-side and front-to-back. Store heavy items as low as possible. Items which are too heavy and bulky to store inside cabinets and dinette seat areas should be lashed down in the center of your unit.

BASIC PROCEDURE — We strongly recommend that you determine whether your unit is loaded safely. To do this, you must weigh your unit complete with water, LPG and cargo at a local grain elevator, stone, sand or gravel dealer or other commercial weighing station. The axle weight must never exceed the GROSS AXLE WEIGHT RATING (GAWR) (*See the SPECIFICATIONS section for the GAWR of your model*).

DETAILED PROCEDURE — If so desired, you may predict your unit's approximate TOTAL LOADED AXLE and TOTAL LOADED PIN weights by performing the following procedure.

STEP 1 — Divide Dimension X, as shown in the SPECIFICATIONS section, by 10. This establishes 10 loading zones forward of the axle. Using the same zone size, establish zones behind the axle.

STEP 2 — List additional weight items, such as water, LPG, cargo and optional equipment in zone where each item is located (FIG. 6A). If item covers more than one area, enter figure in Fig. 6A where the most weight is located. Figure 6B displays the weight of optional equipment and water.

WEIGHT COMPUTATION FIGURES 6A & 6B

SEE PAGE 4

STEP 3 — Total the weights of all zones and write in each figure in corresponding box.

STEP 4 — Multiply each zone weight by indicated percentages and write in each figure in corresponding box.

STEP 5 — List your unit's AXLE WT. and PIN WT. in boxes A and B respectively. (*See the SPECIFICATIONS section, DRY WEIGHT-STANDARD, NO OPTIONS.*)

STEP 6 — Total the AXLE and PIN columns of STEPS 4 & 5 and write each figure in appropriate box. Be sure to deduct the negative percentage (—%) weights from the PIN WEIGHT total.

STEP 7 — Step 6B (Total loaded pin weight) must be 8 to 15% of Step 6A (Total loaded axle weight). Simply divide A into B. If the quotient is less than 8%, you must shift some of the additional weight items (Step 2) forward of the axle until 8 to 15% is achieved.

We realize that figuring the TOTAL LOADED AXLE and TOTAL PIN weights may seem to be unnecessary, time consuming and complicated; however, we know that if you do not follow these instructions, your vacation may be cut short due to an accident caused by improper loading.

DESCRIPTION & OPERATION OF SYSTEMS

(STANDARD & OPTIONAL)

LPG SYSTEM

The Liquefied Petroleum Gas (LPG) System provides fuel for the operation of the range and optional furnace and 3-way refrigerator. Fuel may be purchased from any LPG dealer. He will provide a mixture of propane and butane fuels, which will be suitable for operation in his location. If you intend to travel to an area which experiences different weather conditions, or is located at a different elevation, ask your LPG dealer for his recommendations. The appliances will not function if the LPG does not vaporize. Butane will not vaporize below 32°F and propane below -44°F.

FILLING LPG TANK — Turn off range burners. Extinguish furnace and refrigerator pilot lights (*See APPLIANCES & ACCESSORIES section for further instructions*). Close POL valve (FIG. 7). Turn POL gas line connector clockwise to unfasten it from the tank. Loosen the tank retention band and remove tank. When transporting the tank to and from the LPG dealer, be sure to carry it in its operational position. If you lay the tank on its side, the safety valve may open causing liquid gas to escape.

Reinstall tank. Fasten the gas line connector to the bottle. This time turn the connector counter-clockwise. Turn on the valve and check the gas line connection with a soapy water solution. Bubbles indicate leak. Tighten connection with open end wrench until bubbling stops.

Fig. 7

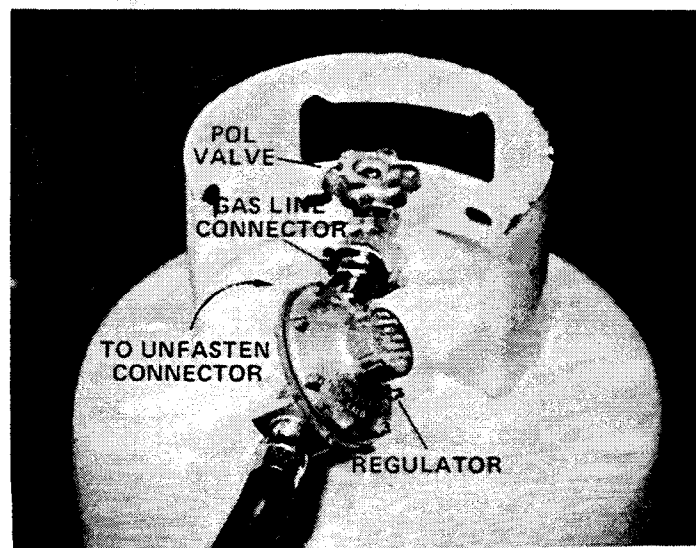


Fig. 6A

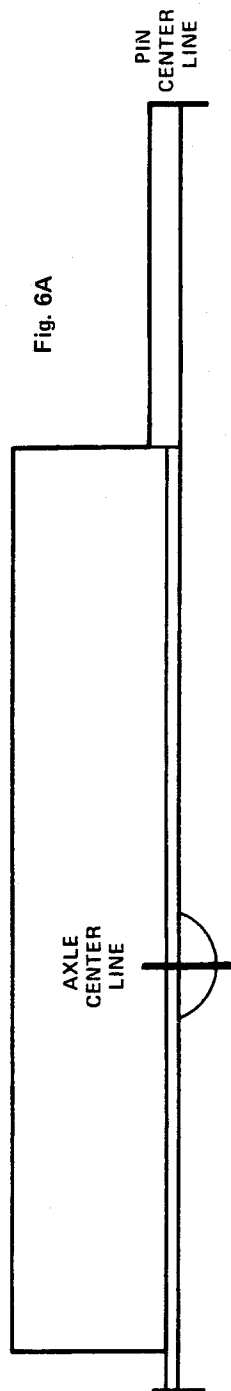
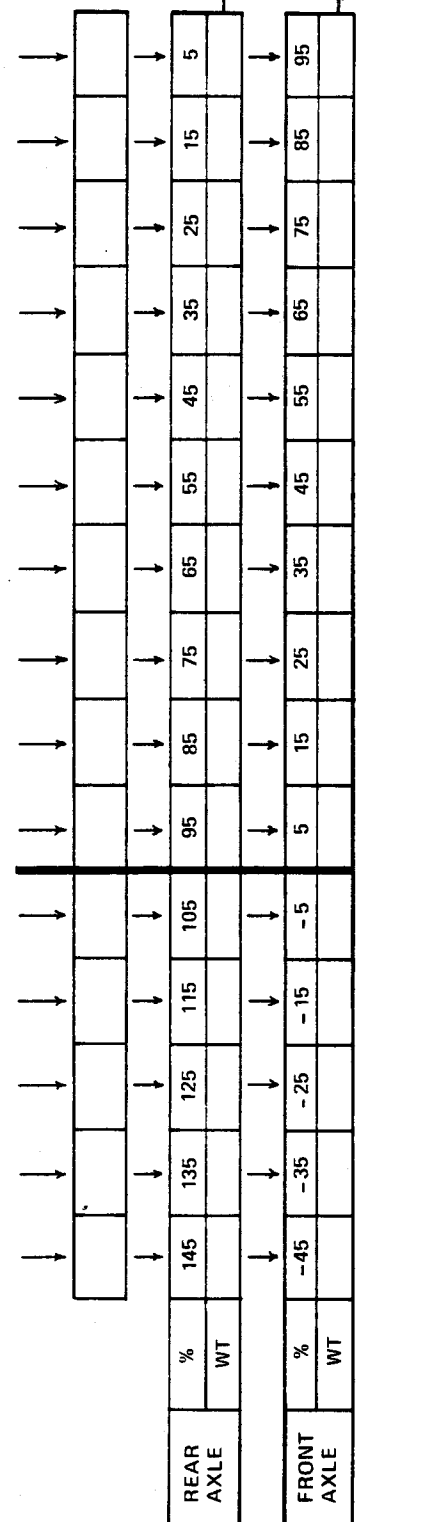


Fig. 6B

	lbs.	kg.
Quick Step	7	3.17
Porta Potti Safari	14	6.34
Boat Rack	10	4.53
Awning 90" x 7' 118" x 7'	36 90 118	16.30 40 54
Combo Room 90" x 7' 118" x 7'	27 90 118	12.23 40 54
3 Way Refrigerator	30	13.59
Furnace	70	31.71
Water	43	19.47
LPG Bottle (Have LPG Dealer Weigh it When Filled)	9 per gallon	3.62 per kilogram

[illegible]

STEP 3



CAUTION: DO NOT smoke, strike a match or ignite a lighter when filling the LPG tank. LPG fumes will leak from the hose nozzle and tank fill connection. A spark or flame may ignite the fumes.

USING LPG SYSTEM — Open the POL valve

NOTE: Some states prohibit vehicles that are equipped with LPG tanks from using tunnels. This regulation is based on the premise that a gas line could be ruptured in a highway accident, which may cause a further hazard through fire and/or explosion. Check regulations of each state through which you intend to travel.

ELECTRICAL SYSTEM

SHORELINE CONNECTION (All Models Except F 16) — Electricity for operation of 12-volt light(s), 110-volt outlet plug(s) and optional appliances is supplied through the shoreline connection.

Pull the power cord from the protection hatch and plug it into a 110/125-Volt Alternating Current (VAC), 60 Hz. outlet (FIG. 8).

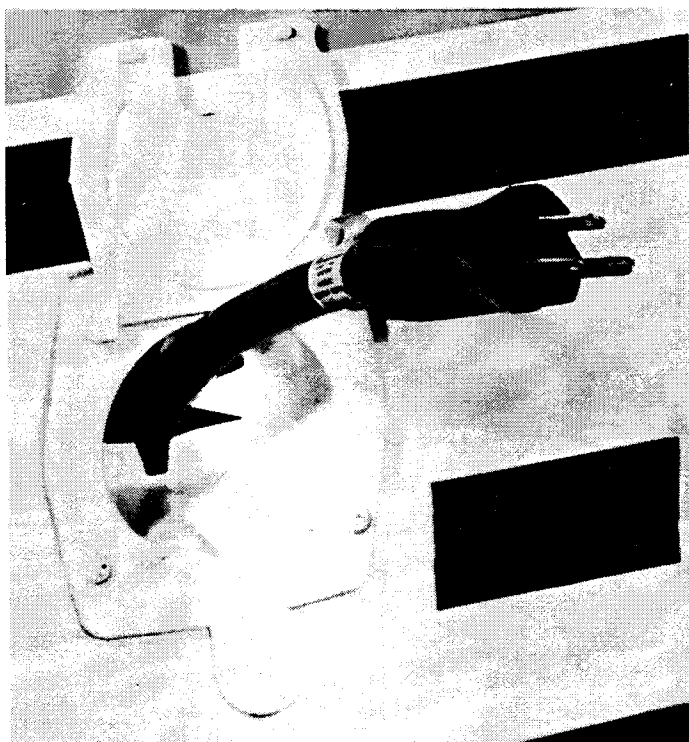


Fig. 8

CAUTION: If you must use a 3-wire grounding adaptor, be certain to attach its grounding wire to the outlet receptacle. You may receive an electrical shock if the cord is not properly grounded.

Circuit Breaker (Standard S 16) — A conventional circuit breaker protects the 110-VAC circuit. The breaker box will be found inside the left, rear dinette seat. Overloading the circuit will cause the breaker to "TRIP" (FIG. 9). To reset: turn off and/or unplug all appliances protected by the breaker; press switch down to "RESET" position; lift it to the "ON" position. If the breaker continues to trip, contact your Coachmen Dealer.

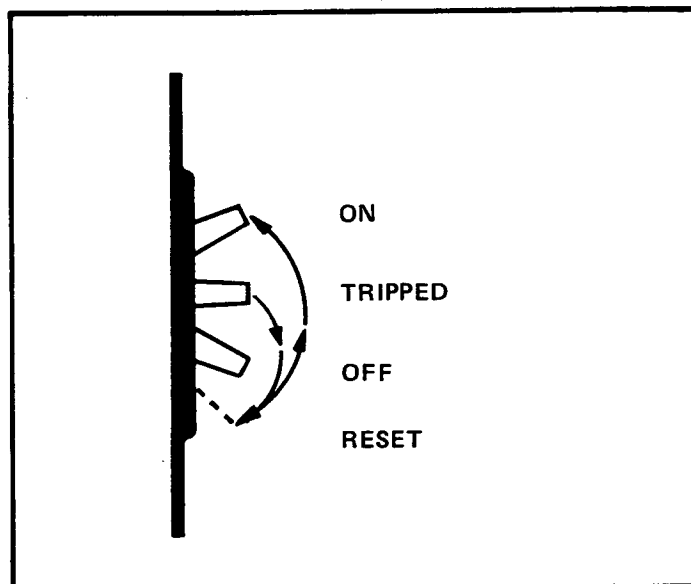


Fig. 9

Towing Vehicle/Unit Battery Hookup — The yellow pigtail wire is connected to the ceiling light(s) and, depending on model, to the optional appliances. Contact your Coachmen Dealer for towing vehicle preparation details.

Converter (Unavailable F 16; Optional S 16; Standard All Other Models) — 115-VAC shoreline input is transformed and converted to 12-VDC output.

An overload condition will cause the 115VAC breaker to trip. A green band will be visible at the base of the reset button (FIG. 10). Turn off 12-VDC section of converter and turn off and/or unplug all 110-V appliances. Wait at least 5 minutes to allow breaker to cool off, then depress reset button. If the breaker continues to trip, contact your Coachmen Dealer.

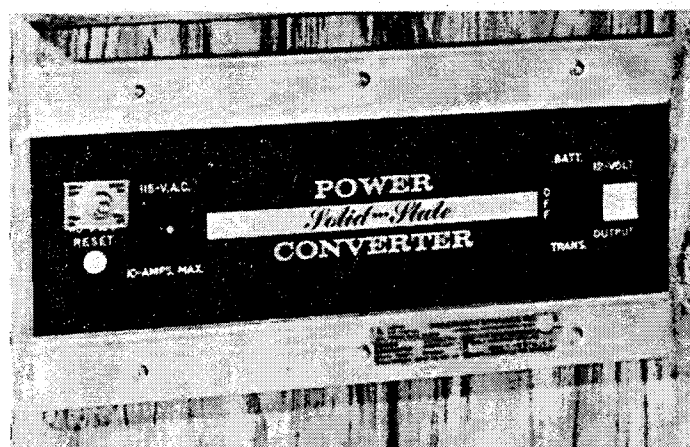


Fig. 10

WATER SYSTEM — Depending on your model, water may be obtained from either a water tank or city water source.

WATER TANK (Standard L 16, all 18' & 20' Models; Optional S 16; Unavailable F 16)

To Fill Water Tank — Open the water fill spout (FIG. 11). Pour in desired amount of water. Water will flow out of the overflow port of the water fill spout when the tank is full.

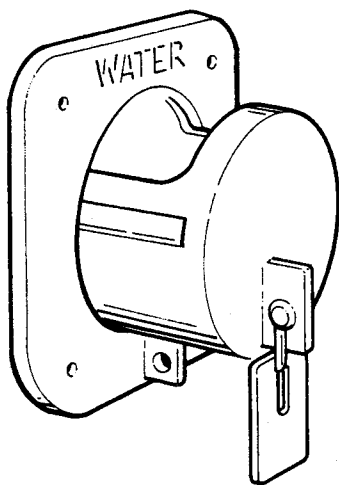


Fig. 11

To Draw Water From The Tank — Open the faucet about 5 turns. Use handle to pump water.

WATER PUMP (Available With All Models Except F 16) — Turn on faucet to obtain water. The power cord must be plugged into a 110v source.

CITY WATER (Standard With All Models Except F 16) — Connect a garden hose to pressurized water faucet and the city water intake (FIG. 12). You cannot fill the water tank through this fixture.

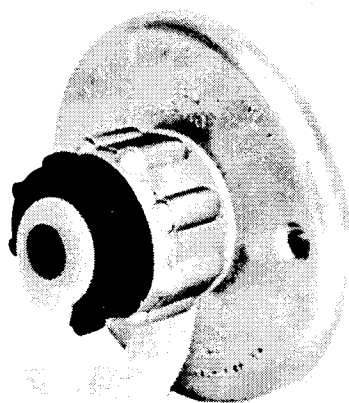


Fig. 12

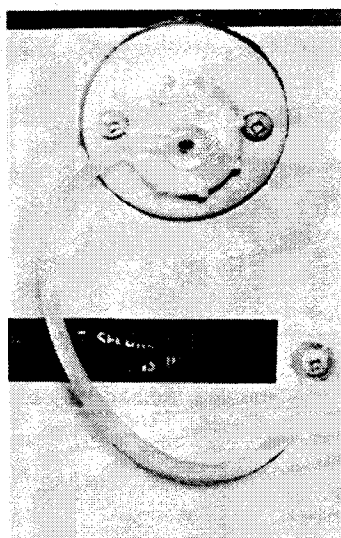


Fig. 13

SINK DRAIN (Standard With All Models Except F 16) — Remove protective cap from drain fixture (FIG. 13). Attach garden hose to fixture and campground septic service. If septic service is not available, place end of hose in a bucket. Empty bucket into a permanent sewer drain. DO NOT drain sink water onto the ground. Besides spoiling the natural beauty of the countryside, you may be breaking local or state ordinances.

CAUTION: Label each hose and bucket either "Fresh Water" or "Drain Water". To avoid contamination of fresh water system, you must use each in its indicated function.

APPLIANCES & ACCESSORIES

(STANDARD & OPTIONAL)

RANGE (All Models Except F 16) — To light range burner: open the POL valve; strike match; turn on burner valve and light. A blowing noise, which will occur when burner is first lit, will subside once air has escaped from the LPG line.

CAUTION: A window or roof vent (optional) must be open when using range burners. DO NOT use range as a heater. Failure to heed these cautions may result in asphyxiation.

FURNACE (Optional) — Turn on POL valve. Open grating. Depress and turn the manual gas cock to its "Off" position (FIG. 14). Wait 5 minutes to allow any LPG, which may have accumulated inside the furnace cabinet, to dissipate. Turn temperature dial to "Low" position. Remove lighter hole cover. Strike match; depress and turn gas cock to "Pilot" position; insert match through hole and light pilot. Hold gas cock in for at least 2 minutes, then release. Repeat procedure if pilot goes out. Turn temperature dial to achieve desired heating.

TO EXTINGUISH FURNACE BURNER — Turn manual gas cock to "Pilot" position; push it in, then turn it to "Off" position.

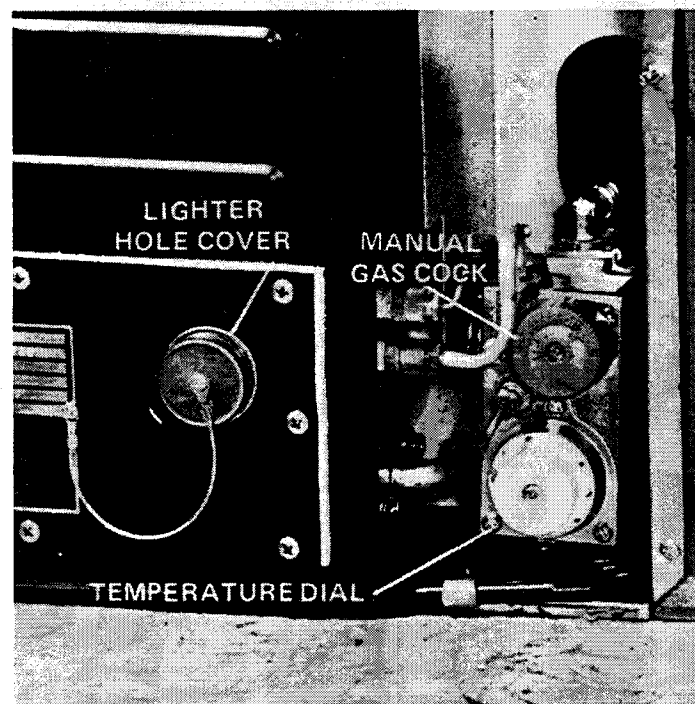


Fig. 14

TOILET (Optional) — PORTA POTTI SAFARI

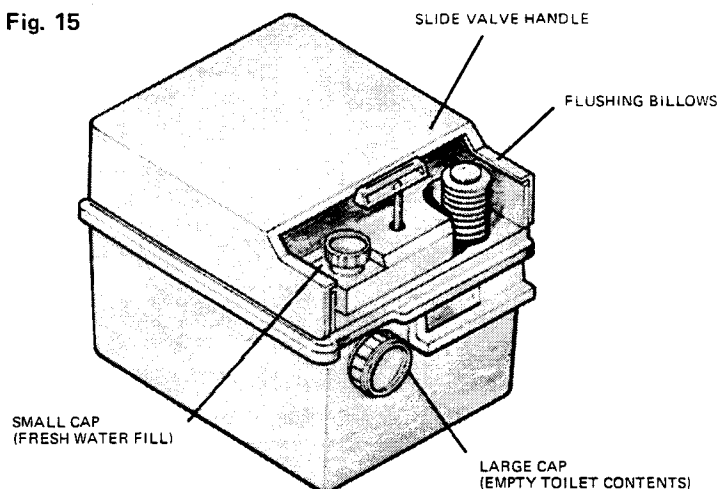
PREPARATION — Lay toilet down with its large cap up (FIG. 15). Remove large cap and pour in ½ bottle (4 oz.) of Aqua Kem Concentrate. Replace and tighten large cap. Set toilet on its base. Remove small cap and pour in 2 gallons of fresh water. Replace and tighten small cap.

FLUSHING — Simultaneously pull out slide valve and pump the flushing billows.

USING — Before using toilet, pump the flushing billows and add water to the bowl.

EMPTYING — When holding tank contents are close to the slide valve seal it is time to empty the toilet. Carry toilet to permanent facility. Remove large cap and dump out contents. Prepare toilet for use.

Fig. 15

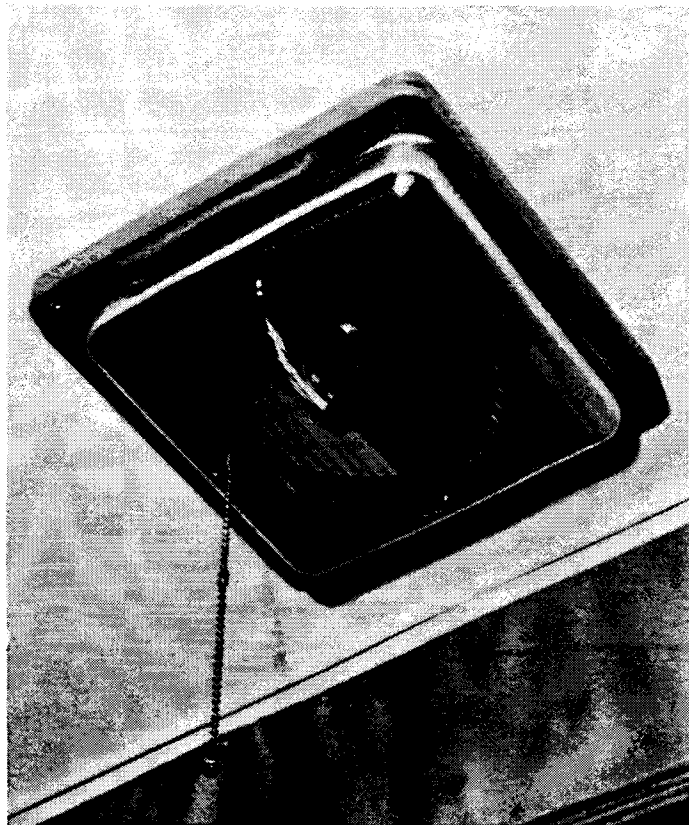


ROOF VENT (Optional) — Depending on your camper model, you may select one of two types of roof vent.

POWERED VENT — Available in all models except F 16 (FIG. 16). **VENT ONLY** — Available in all models.

Release chain and allow lid to spring open. If your unit is equipped with the powered vent, it will be switched on and off as the lid is opened and closed.

Fig. 16



BOAT RACK (Optional) — Weight of boat must not exceed 135 lbs. Bow must face towards the front of the camper. With at least one person at each end, place the boat upside-down on the rack. Lash down securely. **DO NOT** lift the roof with the boat on the rack. Consider the overall weight of boat rack, boat, etc. with all other cargo when loading your camper.

3-WAY REFRIGERATOR (Optional 18 & 20 ft. Models Only)

LPG OPERATION — Turn gas temperature control knob to "Coldest" setting (FIG. 17A). Turn on POL valve (FIG. 7). Open exterior service door which is located directly behind the refrigerator. Turn "Gas On/Off" knob to "Gas On" position (FIG. 17B). Slide the "Electric On/Off" switch to "Elect. Off" position. Depress and hold the ignition button (red). Depress the ignition lever until you hear a click. Repeat procedure until burner is lit, as seen through the mica window. Release ignition button about 30 seconds after burner is lit.

ELECTRIC OPERATION — Turn electric temperature control knob to "Coldest" setting (FIG. 17A). Open exterior service door. Turn "Gas On/Off" knob to "Gas Off" position (FIG. 17B). Slide the "Electric On/Off" switch to "Elect. On" position. Select either Alternating Current (AC) or Direct Current (DC) mode of operation.

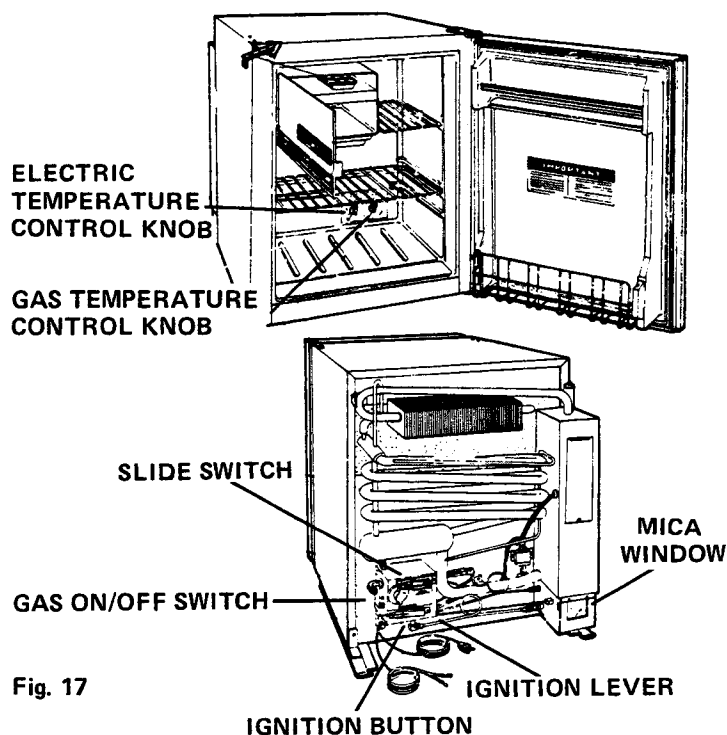


Fig. 17

NOTE: Your camper is wired for 12-volt DC operation supplied by your towing vehicle. See your Coachmen dealer about details concerning preparation of your towing vehicle to take advantage of this feature.

ICEBOX (Optional F 16 & Standard All Other Models) — Place ice in top tray. Make sure the hose is not kinked or clogged. Water will drain through this tube, as the ice melts, and drip onto the ground.

HELPFUL HINTS FOR REFRIGERATOR OR ICEBOX — Always store food in a sealable container or suitable wrapping paper (wax paper, aluminum foil, etc.). Chill food in your home refrigerator before traveling.

STANDARD EQUIPMENT SET UP

CHECK SIDE-TO-SIDE LEVELNESS — Using a carpenters level, check the side-to-side levelness and take appropriate corrective action. That is, place leveling ramp (FIG. 1) under low wheel or dig a shallow hole under high wheel.

UNHITCH CAMPER — Reinstall the dolly wheel (FIG. 3). Crank down the front jack. You may have to place a board under the wheel if the ground is soft. Unfasten and remove the coupler and safety chains from the hitch. Unfasten the pigtail connection.

POSITION JACK STAND UNDER BOTH REAR CORNERS — Raise the rear about 1" to 2" above level by cranking front jack counter-clockwise. Place jack stand at both rear corners, *directly under the frame*. Extend each jack until they touch the frame. Using a carpenters level, crank front jack clockwise until the camper is level from front-to-rear.

AWNING (Optional) STEP 1 — Perform Awning Set Up Procedure as outlined in the OPTIONAL EQUIPMENT SET UP section.

RAISE ROOF

INSIDE CRANKING LIFT SYSTEM — Release all four front and rear roof latches (FIG. 18). Remove latch from striker. Open the winch hatch (FIG. 19). Insert handle shaft into the winch shaft. Crank handle clockwise until the roof height indicator cable (*Located just above the winch and fastened between the roof and body*) is taut. Remove handle and close the winch hatch.

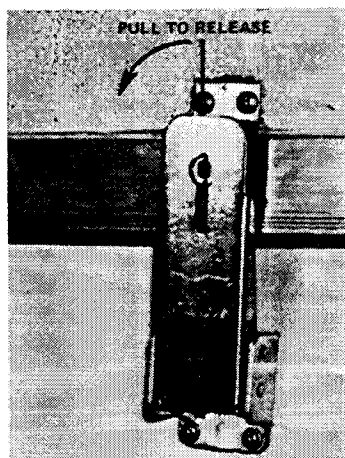


Fig. 18

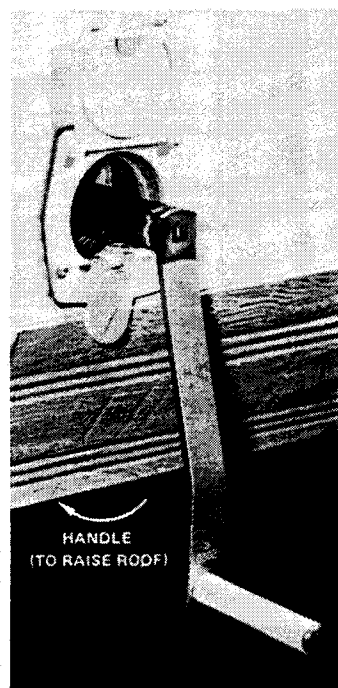


Fig. 19

OUTSIDE SPRING-LOADED LIFT SYSTEM — Release the rear roof latches (FIG. 18). Remove latch from striker. Remove pin from each support arm/traveling support bracket. Using the rear handle, raise roof until both support arms are fully extended. Place a pin in the front hole of both rear support brackets (FIG. 20).

Remove pin from both front pivot brackets (FIG. 21). Raise roof until both support arms are fully extended. Place pin in each front support arm bracket.

Remove pins from both rear support brackets. Reinsert them into the rear hole of each rear roof support arm bracket.

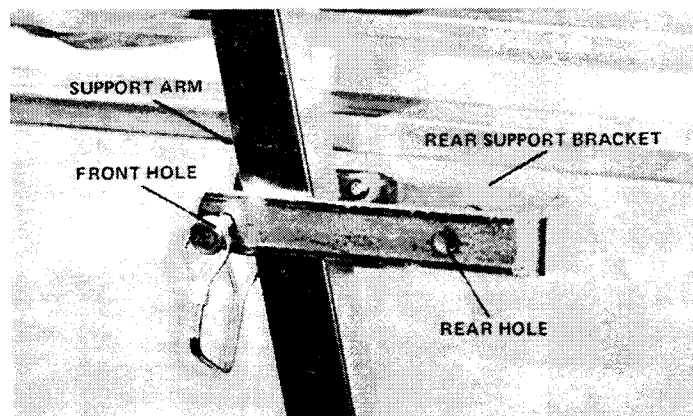


Fig. 20

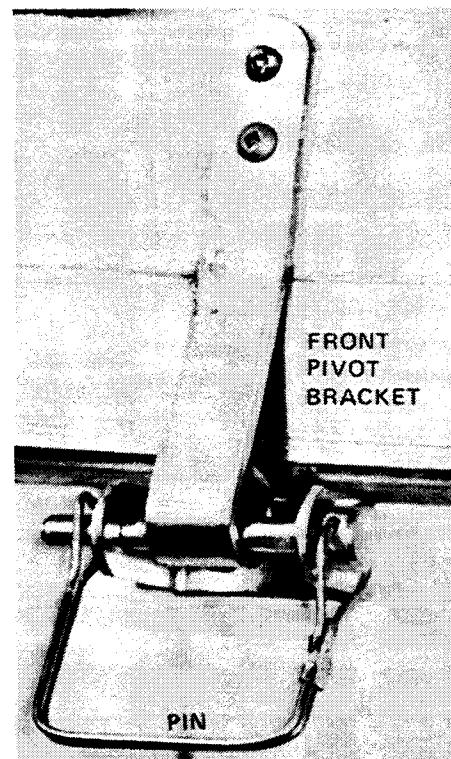


Fig. 21

PULL OUT BOTH END BUNK SUPPORT PLATFORMS — Grasp the two straps which are located under the front edge of the platform. Lift slightly and pull out bunk platform. Install both bunk support rods. Insert rod into frame bracket (FIG. 22). Raise platform and insert other end into bunk bracket. Cross both canvas retention cords directly under the bunk platform and hook them to the eyelets on the other side.

NOTE: DO NOT unfasten canvas from front edge of bunk platform when setting up or breaking camp.

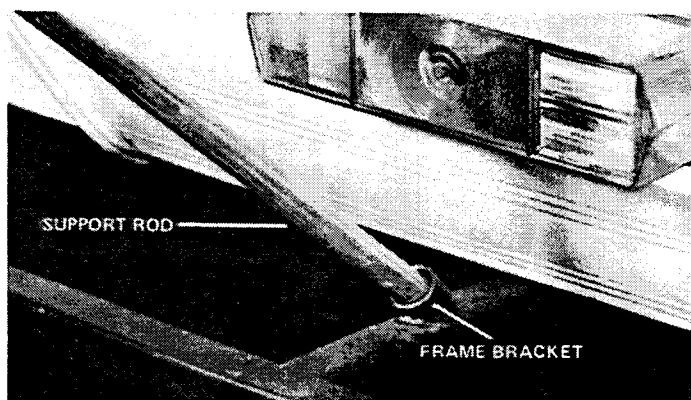


Fig. 22

AWNING STEP 2 & COMBO ROOM (Optional) — Perform Awning Set Up Procedure STEP 2 and Combo Room Set Up Procedure as outlined in the OPTIONAL EQUIPMENT SET UP section.

INSTALL THE DOOR — Close and latch the lower door. Release the upper door from its traveling position (FIG. 23). Swing it down to the camper body. Apply upward pressure to door frame and insert its nylon guide pins into the lower door frame. Secure it in place with two nylon clips (1 mounted on each side of the roof mounted hinge plate). Insert rear vertical canvas seam into the door frame's "J" moulding extrusion (FIG. 24). Release travel latch (nylon clip). The door is now ready for use.



Fig. 23

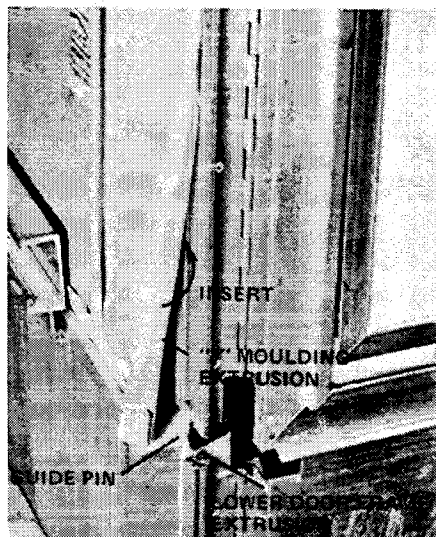
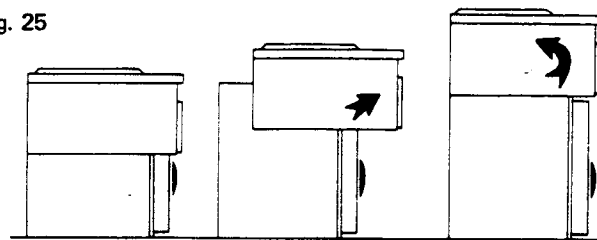


Fig. 24

RAISE WARDROBE CLOSET (If unit is so equipped) — Lift closet to upright position. Carefully swing it towards the camper side wall. Position it on top of the storage cabinet.

RAISE SPRING UP GALLEY — Unfasten barrel bolts, 1 is located on each side of galley. Grasp handles and rotate galley out and up (FIG. 25) Fasten barrel bolts.

Fig. 25



RAISE BOTH BUNK CANVAS SUPPORTS — Raise both canvas supports. Each support has two side braces. Raise and insert brace pin into canvas support (FIG. 26).

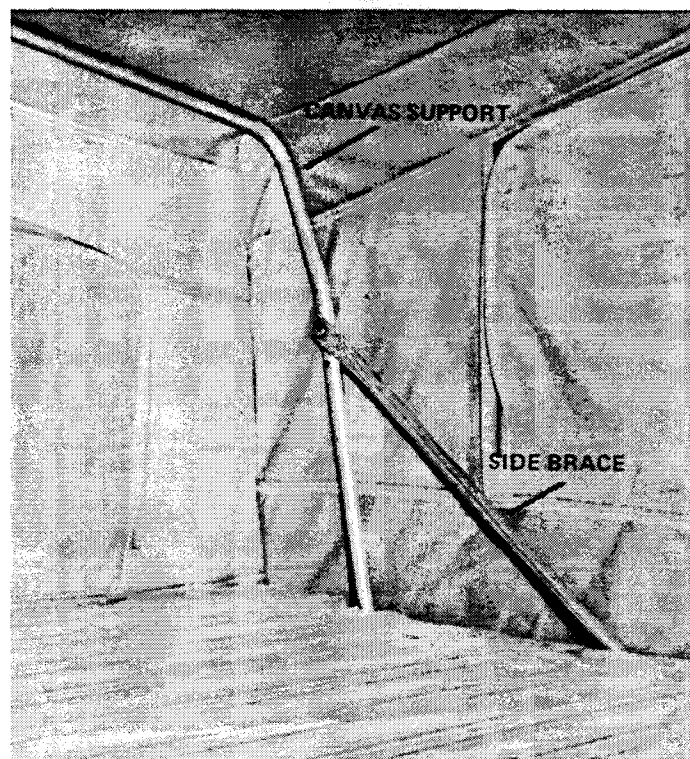


Fig. 26

POSITION INSIDE-OUTSIDE RANGE (All Models Except F 16 & S 16)

REMOVE RANGE FROM CABINET — Unfasten thumb screw (FIG. 27). Release brass line coupler from LPG hose. To release coupler, pull the collar away from hose. Pick up range and pull its hose through cabinet.

SET UP RANGE OUTSIDE CAMPER — An extrusion bar is mounted on the back end of the range cabinet. Hold range so that its front is about 4" higher than the back. Hook range extrusion onto the wall extrusion located just above LPG coupler fixture (FIG. 28). Insert both range cabinet support legs into the wall and cabinet brackets. You may have to adjust the leg tabs slightly before initial installation.

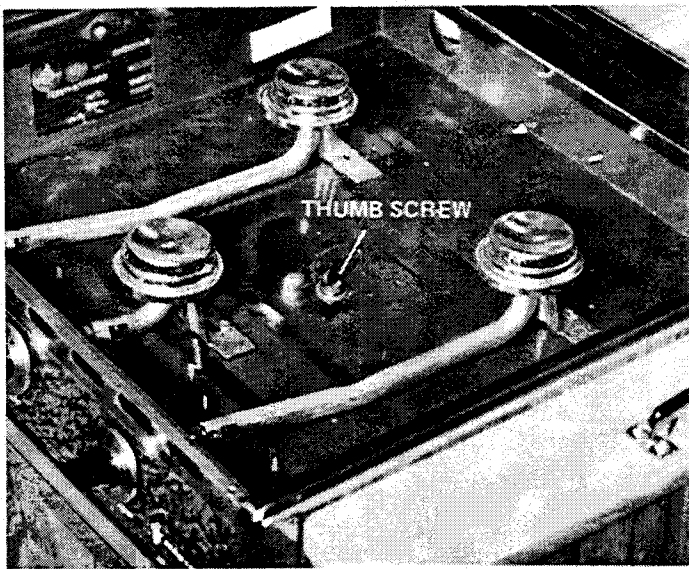


Fig. 27

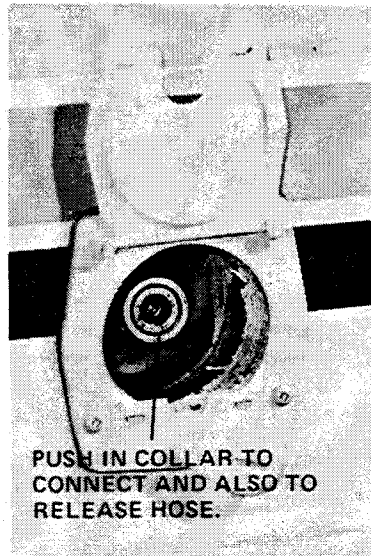


Fig. 28

Reverse procedures to set up range inside your camper.

WARNING: When relocating range, DO NOT bend the copper tubing. It will weaken and eventually break.

SET UP DINETTE TABLE/BED

TABLE — An extrusion bar is mounted on the back end of the table. Hold the table so that its front is about 4" higher than the back. Hook table extrusion onto the wall extrusion. Grasp leg, pull it toward the wall and swing it down to the locked position. Slide the table to either side to make entry into the dinette seat easier.

BED — Lift table front. Grasp leg, pull it towards the floor and swing it up to the locked position. Raise and remove table from wall extrusion. Reinsert table extrusion into the lower wall extrusion. Place table on the edge of the dinette seats. Arrange cushions on top of the table and dinette seat platform.

INSIDE-OUTSIDE TABLE SET UP (All Models Except F 16 & S 16) — Follow instructions outlined in SET UP DINETTE TABLE/BED procedures.

BUNK SCREENS & CANVAS FLAPS — Unzip flaps to achieve desired ventilation.

VINYL WINDOWS & SCREENS — Unzip vinyl windows to achieve desired ventilation. Roll up material and secure it with Velcro straps.

DRAPES (Standard With All 20 Ft. Models, Optional With All 16 & 18 Ft. Models) — Arrange drapes to achieve desired privacy and ventilation.

PRIVACY FLAPS — (Standard With All 16 & 18 Ft. Models) — Roll up flap and secure with straps.

OPTIONAL EQUIPMENT SET UP

AWNING

STEP 1 — Insert awning welt into extrusion slot. Check each end of the roof extrusion slot for sharp corners and rough spots. Remove them with a rat tail file. Insert awning's vinyl welt into the extrusion slot (FIG. 29). Pull the entire welt into the extrusion.

NOTE: The awning manufacturer recommends that another person assist you while installing the awning the first few times. The other person should hold the awning so it will slide easily into the extrusion. This procedure should help prevent the vinyl from being marred by the extrusion during installation.

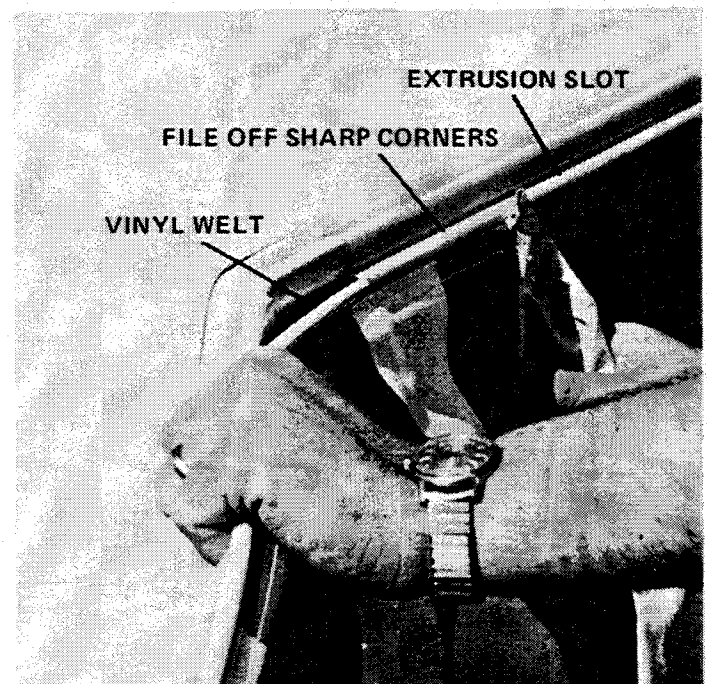


Fig. 29

Continue with the roof set up procedure as described in the STANDARD EQUIPMENT SET UP section.

STEP 2 — Install the front supports; set up the rafters and upright poles. The following descriptions will help you identify the various parts used in the awning set up.

Front Supports — Two end tubes, small diameter with plastic cap. One center tube, medium diameter, short tube which is shaped for the awning crown or high point.

Rafters — Three tubes, large diameter, rubber tip on one end and a pin on the other. Each tube contains an adjustable tension spring.

Upright Poles — Three tubes, large diameter, rubber tip on one end and a flat tip with hole on the other. Each pole has height adjustment rings.

Insert center tube into both center openings of the awning pockets (FIG. 30). Install both end tubes as follows: insert tube into end opening of awning pocket; carefully slide it towards the center tube; insert end tube into the center tube.

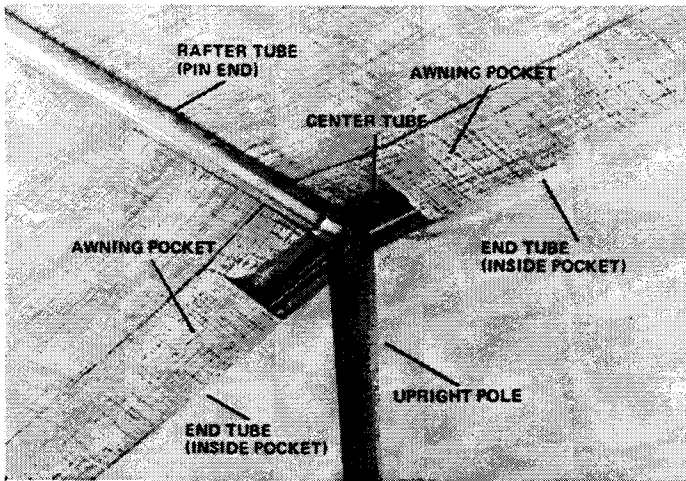
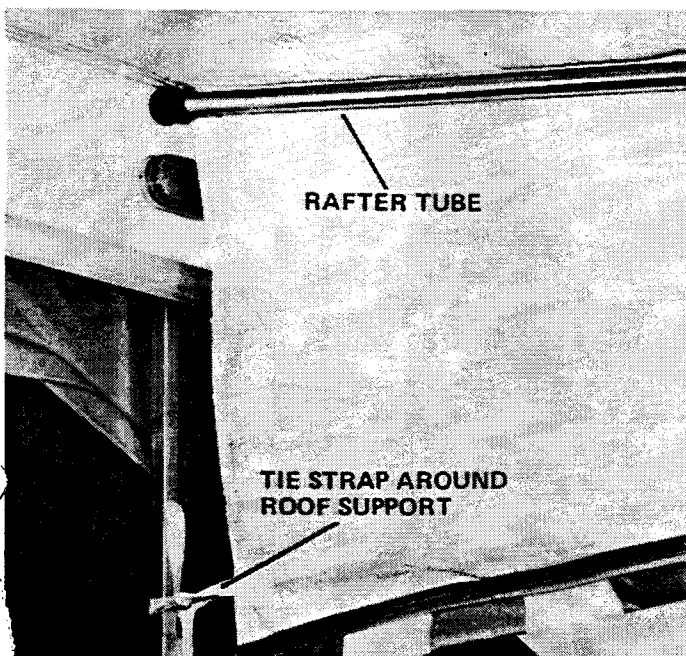


Fig. 30

Install three rafter tubes and upright poles as follows: insert rafter tube pin into the hole of the upright pole (*If you intend to set up the Combo Room, be sure the adjustment rings face away from your camper. This procedure should help prevent the vinyl and screen material from being damaged.*); Insert pin into front support tube (FIG. 30); compress rafter tube and position its rubber tip just under the extrusion slot (FIG. 31). To adjust rafter: unfasten and remove nut and pull out the screw; pull out the pin end of the tube; slide the spring towards the open end of the rubber tipped tube; insert screw into hole which will provide the necessary tension; fasten nut to screw.

Fig. 31



Adjust height of each pole (FIG. 32). Your awning should be arranged as that shown in figure 33. This procedure is necessary for proper water runoff.

Fig. 32

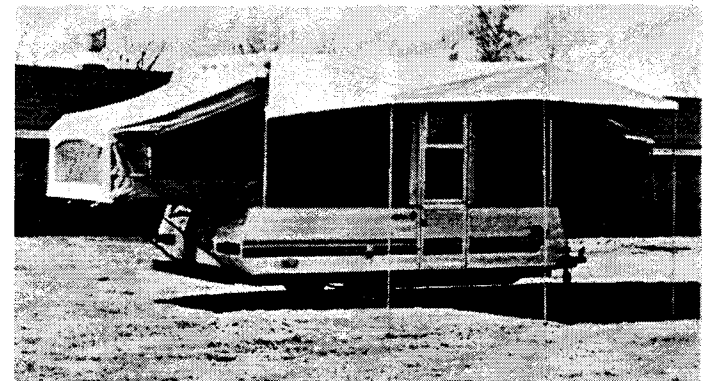
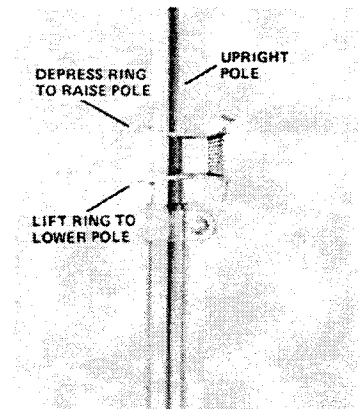


Fig. 33

Tie awning straps around the roof supports (FIG. 31). Secure upright poles to ground using metal pins — drive pin into ground and insert hook into wire loop of pole.

If you intend to install the Combo Room, continue with the following COMBO ROOM ENCLOSURE & GROUND PAD procedure; otherwise, continue with the door installation procedure as described in the STANDARD EQUIPMENT SET UP section.

COMBO ROOM ENCLOSURE & GROUND PAD

STEP 1 — The awning must be set up first.

STEP 2 — Spread the ground pad directly under the awning. Spread the enclosure around the outside of the upright poles.

STEP 3 — Zip the enclosure to the awning starting at point "A" (FIG. 34). Arrange each bug flap as follows: loop flap around the outside of roof support (*support must be inside the enclosure when completed*); press long velcro strips, which are mounted on the flap and camper screen, together; press the short velcro strips, which are mounted on the flap and awning, together.

Fasten enclosure and back skirting to the camper by pressing snaps together. The back skirting closes off the space under the camper. Press the enclosure and back skirting velcro strips together. Secure enclosure and ground pad to ground using metal pins — drive pin into ground and insert hook into eyelets.

Your Combo Room and Awning should be arranged as that shown in figure 34.

Continue with the door installation procedure as described in the STANDARD EQUIPMENT SET UP section.

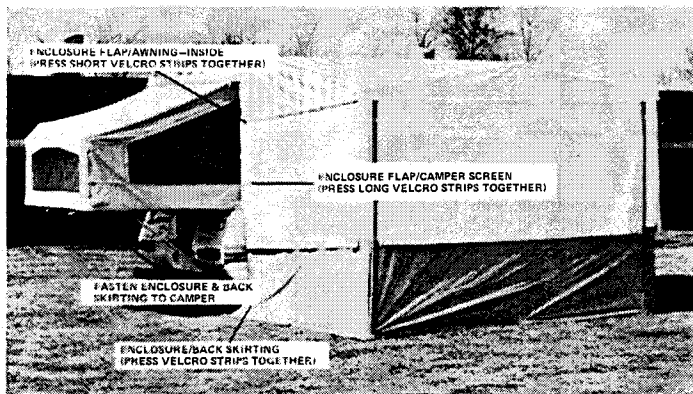


Fig. 34

QUICK STEP — Hold step with front edge higher than the back. Hook step lip to the chassis frame directly under the door (FIG. 35).

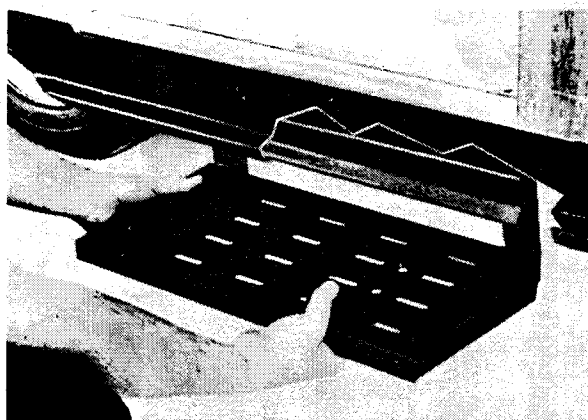


Fig. 35

PATIO GROUP (All Models Except F 16) — This package includes Quick Step (FIG. 35), Outside Bunk Rod Storage Compartment (FIG. 36), Patio Light and Outside 110v Outlet Receptacle.

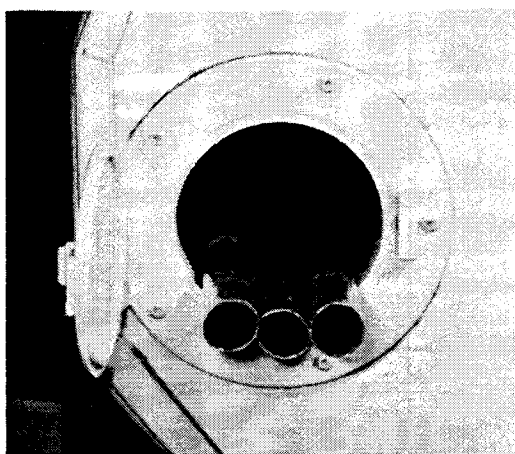


Fig. 36

TAKE DOWN

GENERAL — Reverse the procedures outlined in the STANDARD EQUIPMENT SET UP and OPTIONAL EQUIPMENT SET UP sections.

The faucet must be secured in the down position. The converter switch must be in the "Off" position. Reload your unit as described in the LOADING section. You must consider the weight of all souvenirs (*gifts, driftwood, rocks, etc.*) that you intend to carry in your camper.

BUNK PLATFORMS — Slide in bunk platforms very carefully. You may snag the canvas or screen material. If your unit is not equipped with the optional Patio Group, store the bunk support rods under the mattress at the front of the platform.

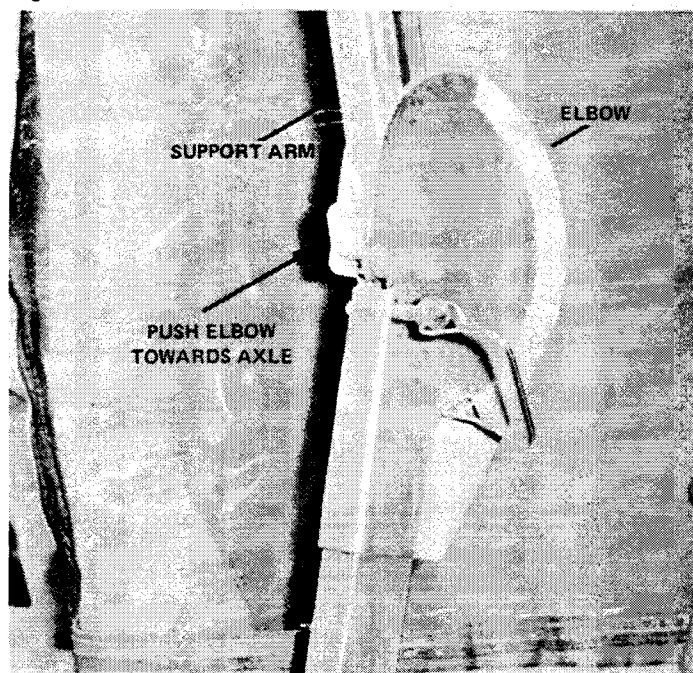
LOWER ROOF

INSIDE CRANKING SYSTEM — Crank winch counterclockwise to lower roof. When the roof is about 1 ft. from the camper body, stop cranking. Tuck all canvas inside the camper. Resume cranking. Stop cranking again when the roof is within 6" of the camper body. Tuck all the canvas inside the camper. Lower the roof to the body and secure all four roof latches (FIG. 18).

OUTSIDE SPRING-LOADED LIFT SYSTEM — Remove pins from rear holes of both rear support brackets. Reinsert them into the front holes (FIG. 20). Remove pins from front support brackets. As you push front support arms toward the center of the camper, insert a pin into each elbow hole (FIG. 37). Tuck canvas into the camper. Lower front end of roof to camper body. Insert pins into the front pivot brackets (FIG. 21).

Remove pins from the rear brackets. As you push both rear support arms toward the center of the camper, insert pin into each elbow hole (FIG. 37). Tuck canvas into the camper. Lower roof to the camper. Secure both roof latches (FIG. 18). Insert pins into the four support arm/traveling support brackets.

Fig. 37



PRE-TRAVELING CHECK

Whether you intend to pull away from your home, rest area, or camp site, we suggest that you perform the following pre-traveling checks.

TIRES — Check each tire for uneven or excessive tread wear, cuts, peeling or bulging. Change damaged tire as directed in the CARE & MAINTENANCE section.

Check tire pressure at least once each trip. This must be done before driving; air pressure will be 6 to 9 lbs. greater due to heat generated by road friction.

WHEELS — During your initial trip and after changing each tire, tighten the wheel lugs every 50 miles for the first 200.

LIGHTS — Test all running lights (*Tail, stop, backup and clearance*). Clean lens covers.

MIRRORS — Adjust outside rearview mirrors. We suggest that they be adjusted so that you may see both right and left sides of the unit.

HITCH — Coupler must be securely fastened to the hitch ball. Safety chains must be crossed under the coupler and hooked to the hitch platform. The pigtail must be connected to the towing vehicle electrical system. Hydraulic brake actuator (*Optional*) chain must be hooked to the towing vehicle's bumper. Chains and wire harness must be arranged so they do not drag on the ground while both units may turn freely.

CARE & MAINTENANCE

LPG SYSTEM

GAS LINE CHECK — Check the LPG line and connections on a regular basis. We recommend the following procedure after every 3rd refill.

Extinguish the furnace and refrigerator pilot lights and turn off the range burners. Zip open the sidewall windows, open the door window, and open the roof vent (optional) to allow the gas to dissipate. Turn on the POL valve (FIG. 7). Apply soapy water solution to all line connections (FIG. 38). Bubbles indicate position of leak. Tighten connection with two open end wrenches until bubbles stop. If garlic odor persists after all joints have been checked and tightened, contact your Coachmen Dealer.

NOTE: Coachmen technicians checked your unit's LPG system prior to shipment to your dealer. We recommend that you recheck it before your first trip. Leaks may develop while unit is in transit from our factory.

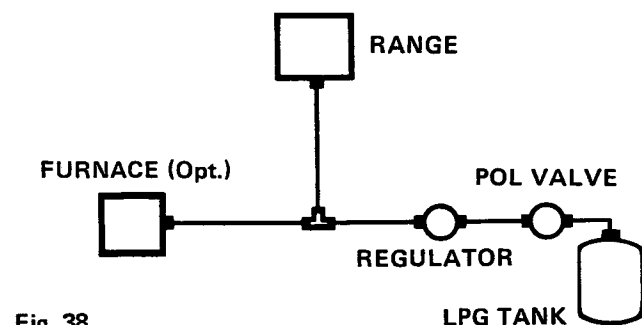


Fig. 38

REGULATOR PRESSURE — Check the LPG line pressure at the beginning of each camping season and at least every 3rd refill. Correct line pressure for LPG appliances is 11" water column. Your Coachmen Dealer is equipped to make the necessary appliance and regulator pressure checks.

LPG TANK UPKEEP — After each trip, inspect the LPG tank. Sand off all traces of rust. Apply rust preventative paint.

LPG APPLIANCES

FURNACE — Your unit's furnace does not require routine maintenance or cleaning.

RANGE — Allow the range top to cool off, then clean it with dish-soap and hot water. Use a damp cloth to clean the chrome top. Grease spatters, which may bake into the surfaces, will be very difficult to remove. Chrome polish will remove stubborn stains. Use a toothpick to clean clogged burner orifices. Metal tools may distort the burner openings, which in turn will affect the range operation.

WATER & DRAIN SYSTEMS

SANITIZING WATER TANK — Sanitize your unit's water tank: before initial use; after a period of non use; when the tank is suspected of being contaminated.

Open the water tank drain cock (FIG. 39). Close cock after the tank is empty. Mix 1 gallon of water with $\frac{1}{4}$ cup of Clorox or Purex household bleach. Pour solution into tank through the water fill spout (FIG. 11). Wait about 3 hours. Drain and flush tank with fresh potable water. If chlorine taste lingers, pour 1 quart of vinegar into the tank. Fill tank with potable water. Wait several days before draining tank. Flush tank with fresh potable water.

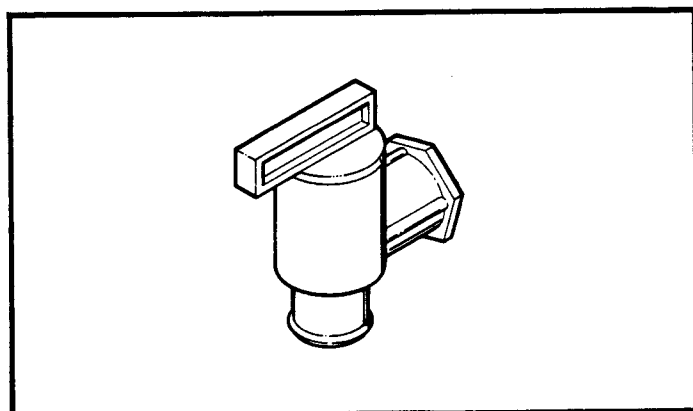


Fig. 39

WATER PUMP — The water pump does not require routine maintenance or cleaning. If it fails to start, read the pump manufacturer's instruction book for further details.

DRAIN PIPING — Use clear water to clean exterior pipe surfaces. DO NOT use harsh detergents or lacquer thinner. DO NOT pour harsh drain cleaner chemicals or solvents into the drain.

TOILET — PORTA POTTI SAFARI — Empty the toilet. Use Aqua Bowl Cleaner as directed. If the slide valve blade does not move freely, apply silicone spray.

INTERIOR

SINK — Clean the sink with non abrasive material. Stainless steel cleaner may be purchased at any grocery or hardware store.

TABLE & COUNTER TOPS — Clean table and counter tops with warm water and liquid dishsoap.

WOODWORK — Clean woodwork with commercial household furniture polish. DO NOT use water to clean wooden surfaces. Scuffs may be covered with commercial furniture wax and stain mixture. Scratches may be covered with PUTTY STIC.

CUSHION COVERS — The zipper on each cushion cover allowed rapid assembly in our factory. DO NOT pull covers off of the cushions. Use a mild, pure, waterfree solvent when cleaning becomes necessary. DO NOT use a water base cleaning solution. DO NOT machine or hand wash.

CURTAINS, END SEPARATOR CURTAINS & TOILET PRIVACY CURTAINS — Hand wash in lukewarm water with a mild detergent. Stretch dry. DO NOT dry-clean.

VINYL FLOOR COVERING — Sweep and damp mop the vinyl floor covering regularly. Use a mild detergent and wax occasionally.

WARDROBE CLOSET, DRAWERS & DINETTE SEAT STORAGE COMPARTMENT — Remove clothes, linen, can goods and other food items. Clean wooden surfaces with commercial household furniture polish. Wash plastic drawers in warm water and liquid dishsoap.

REFRIGERATOR — Remove food, water and ice after each trip. Clean interior with warm water and liquid dishsoap. Wipe dry with soft, dry cloth. DO NOT use abrasive cleaning material, because it will scratch the refrigerator surfaces. If you do not intend to use your camper for an extended period, prop open the door. Musty odors may be further controlled by placing a small jar of coffee, without a lid, on the refrigerator's bottom cabinet shelf.

To defrost the freezer food storage & ice making compartment, remove frozen food and ice from both compartments. Turn appropriate Temperature Control Knob to "Defrost" position. Place a pan of hot water inside the compartments to speed up the defrosting process. Empty the defrost tray (FIG. 17A).

ICE BOX — A plastic hose is connected to the ice storage tray. As the ice melts, the water will drain from the tray through the hose and drip onto the ground. A clogged or kinked hose will cause the water to back up into the tray. To clear, carefully run a soft wire up through the hose.

EXTERIOR

CANVAS — Prior to your first trip, set up your camper and spray it with water. Allow canvas to dry and spray again. This preconditioning will cause the thread to expand inside the stitch holes. While camping, a leaky seam may be sealed by rubbing it with either a wax candle or beeswax.

After every trip, wash the dust and dirt, bird and tree droppings, insects and other foreign material from the exterior canvas surfaces. These substances may destroy the canvas water repellency. We recommend warm water and a very soft bristle scrub brush to re-

move stubborn stains. Rinse with cool water. Allow canvas to dry completely before closing the camper.

If canvas loses its repellency, apply water repellent solution. You may purchase this solution from your Coachmen Dealer. When applying follow the manufacturer's instructions.

Prolonged use of range and heater may cause moisture to form on the inside of the canvas and vinyl walls. Condensation may also form inside the camper during heavy rain storms or when the ambient temperature drops. This condition may be controlled by opening a window on the downwind side of the camper or opening the optional roof vent.

The canvas sidewalls are held to the camper by special extrusions. The top seam is held to the roof side panels by a vinyl extrusion. When it becomes necessary to remove the canvas, unscrew the fasteners.

The bottom welt seam slides into the aluminum extrusion's "J" moulding. Use a rubber mallet or wooden block to tighten the moulding.

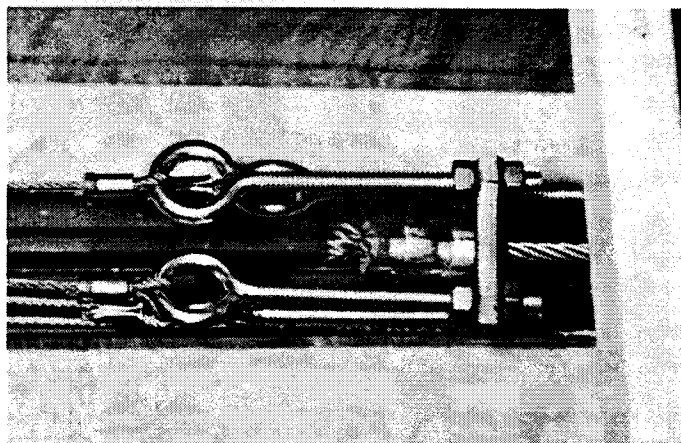
VINYL — Both vinyl bunk end roofs and optional sidewalls may be preconditioned and cleaned in the same manner as canvas. Auto convertible top cleaner may be used to remove stubborn stains. Various types of vinyl sealer are available, see your Coachmen Dealer for further details.

AWNING & COMBO ROOM — Precondition awning and combo room material in the same manner as the canvas. Wash off dust, dirt, bird and tree droppings with warm water and mild soap. Allow material to dry before storing away. DO NOT use cleaning fluids or solvents. Mend tears and holes with patching material and cement. See your Coachmen Dealer for canvas repair kits.

INSIDE CRANKING LIFT SYSTEM — The cables will stretch after repeated use. The roof will bind while you try to lower it. This problem may be avoided by occasionally adjusting the lifter cables.

Adjustments to the lifter system are to be made at the harness square. You will find it inside and at the front of your camper. Unfasten and remove the cover. Roof height may be varied by turning the eye bolt nuts. Ten turns will vary the height about $\frac{1}{2}$ " (FIG. 40). Observe the roof height indicator cable which is located at the right front corner of the camper. This cable must be taut.

Fig. 40



EXTERIOR BODY — Wash the dust, dirt, road tar, bird and tree droppings, insects and other foreign material from the aluminum siding and hard top roof. Use a mild soap in lukewarm water. Apply auto wax at least once a year.

WARNING: To avoid marring the exterior surfaces: DO NOT use abrasive cleaning compound or cloth; DO NOT wipe the surfaces with a dry cloth; DO NOT wash or wax your unit in the hot sun. Wait until the body surfaces have cooled before washing or waxing.

FRAME — Inspect the frame for damage and rust. Sand off all traces of rust. Remove dust and dirt and apply rust preventative paint.

SAFETY CHAINS & HOOKS — Inspect safety chains and hooks before each season. Inspect them again before each trip. Replace damaged chains. Federal and SAE regulations prohibit a chain from being repaired by welding damaged links together, or cutting off damaged links and splicing in new ones.

TIRE INSPECTION — Inspect tires before each trip. Replace tire when its tread is worn to $\frac{1}{16}$ " depth in 2 or more adjacent grooves, or to the level of tread indicators which are molded into the bottom of tread grooves. Each morning, check tire pressure and condition. Note that heat, which is generated by surface friction, will increase a tire's air pressure by approximately 6 to 9 lbs. psi; therefore, do not bleed air out of a hot tire. See the SPECIFICATIONS section for correct tire pressure.

When purchasing a new tire, be certain it is the same size and has the same ply rating or load range as the old tire. DO NOT mix radial ply with bias or biasbeltd tires.

STORAGE

In addition to performing procedures outlined in the CARE & MAINTENANCE section, we suggest you either cover your unit or store it inside a garage or other shelter.

Block up the camper to take all weight off the tires. This will prevent flat spots from developing on the tires or wheel bearings. The camper should be slanted from front-to-rear so water may drain off the roof.

BLOCKING WHEELS — Lower front of camper as far as it will go by cranking front jack counter-clockwise. Place jack stand at both rear corners, *directly under the frame*. Extend each jack until they touch the frame. Crank front jack clockwise until both tires are slightly off the ground.

DO NOT allow snow to accumulate on the roof, sweep it off as soon as possible.

If you intend to use your unit during the winter months, perform procedures outlined in the WINTERIZING section.

WINTERIZING

WATER TANK — Open the water faucet and tank drain cock. When tank is empty, close the faucet and drain cock (FIG. 40). Open the water fill spout (FIG. 11). Pour in water and potable water system anti-freeze (*Obtainable from your Coachmen Dealer*).

CAUTION: DO NOT use automotive anti-freeze, it is poisonous.

SINK DRAIN — Pour about $\frac{1}{2}$ cup of approved RV anti-freeze solution into the sink drain to prevent trap from freezing.

PORTA-POTTI SAFARI TOILET — Pour 1 gallon of non-toxic plastic pipe anti-freeze and 1 gallon of fresh water through the toilet's large cap (FIG. 15).

WATER PUMP — After the water tank is empty, operate the electric water pump for about two minutes. Disconnect the intake and discharge hoses from the pump. Operate the pump until all water is expelled. Reconnect the hoses.

APPLIANCE & COMPONENT IDENTIFICATION FORM

Should your unit or one of the appliances require warranty service, you will have to identify the manufacturer along with the model designator and serial number. Fill in this form as soon as possible, it will help you meet our identification requirement.

EQUIPMENT	MANUFACTURER	MODEL DESIGNATOR	SERIAL NUMBER
Recreational Vehicle	COACHMEN		
Door Key			
Range (Not Available With Model F 16.)			
Furnace (Available With All Models.)			
Toilet (Available With All Models.)			
Converter (Standard L16 and All 18' & 20' Models; Available Model S 16; Unavailable F 16.)			
3-Way Refrigerator (Standard All 18' & 20' Models; Unavailable All 16' Models.)			
Electric Water Pump (Available S & L 16; 18' & 20' Models.)			

EMERGENCY CONTACTS

DOCTOR	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC) _____	PHONE	(AC) _____
RELATIVE	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC) _____	PHONE	(AC) _____
NEIGHBOR	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC) _____	PHONE	(AC) _____
FRIEND	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC) _____	PHONE	(AC) _____
POLICE	PHONE	(AC) _____	PHONE	(AC) _____
	FIRE	PHONE	(AC) _____	
INSURANCE AGENT	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC) _____	PHONE	(AC) _____

[illegible]

SPECIFICATIONS

MODEL CASUALINE	OVERALL CLOSED LENGTH	WIDTH	ROAD HEIGHT	DRY WEIGHT STANDARD, NO OPTIONS		GROSS AXLE WEIGHT RATING (GAWR)	APPROX. CAPACITY*	TIRE SIZE & AIR PRESSURE
				PIN WT.	AXLE WT.			
F 16	12' - 6" 381 CM.	6' - 10" 208.28 CM.	3' - 11" 119.38 CM.	90 LBS. 33.57 Kg.	950 LBS. 354.35 Kg.	1500 LBS. 559.50 Kg.	640 LBS. 238.72 Kg.	5.70 x 8/75 PSI 14.47 CM. x 20.32 CM.
S 16	12' - 6" 381 CM.	6' - 10" 208.28 CM.	3' - 11" 119.38 CM.	105 LBS. 39.16 Kg.	990 LBS. 369.27 Kg.	1500 LBS. 559.50 Kg.	615 LBS. 229.39 Kg.	5.70 x 8/75 PSI 14.47 CM. x 20.32 CM.
L 16	12' - 6" 381 CM.	6' - 10" 208.28 CM.	3' - 11" 119.38 CM.	130 LBS. 48.49 Kg.	1170 LBS. 436.41 Kg.	1700 LBS. 634.10 Kg.	660 LBS. 246.18 Kg.	5.70 x 8/75 PSI 14.47 CM. x 20.32 CM.
L 18 D	13' - 6" 411.48 CM.	6' - 10" 208.28 CM.	3' - 11" 119.38 CM.	160 LBS. 59.68 Kg.	1450 LBS. 540.85 Kg.	1980 LBS. 738.54 Kg.	690 LBS. 257.37 Kg.	5.30 x 12/80 PSI 13.46 CM. x 30.48 CM.
L 18 FG	13' - 6" 411.48 CM.	6' - 10" 208.28 CM.	3' - 11" 119.38 CM.	170 LBS. 63.41 Kg.	1450 LBS. 540.85 Kg.	1980 LBS. 738.54 Kg.	690 LBS. 257.37 Kg.	5.30 x 12/80 PSI 13.46 CM. x 30.48 CM.
L 20 D	15' - 4" 467.36 CM.	6' - 10" 208.28 CM.	3' - 11" 119.38 CM.	170 LBS. 63.41 Kg.	1560 LBS. 581.88 Kg.	2090 LBS. 779.57 Kg.	700 LBS. 257.37 Kg.	5.30 x 12/80 PSI 13.46 CM. x 30.48 CM.
L 20 DD	15' - 4" 467.36 CM.	6' - 10" 208.28 CM.	3' - 11" 119.38 CM.	170 LBS. 63.41 Kg.	1560 LBS. 581.88 Kg.	2090 LBS. 779.57 Kg.	700 LBS. 257.37 Kg.	5.30 x 12/80 PSI 13.46 CM. x 30.48 CM.
L 20 RG	15' - 4" 467.36 CM.	6' - 10" 208.28 CM.	3' - 11" 119.38 CM.	170 LBS. 63.41 Kg.	1560 LBS. 581.88 Kg.	2090 LBS. 779.57 Kg.	700 LBS. 257.37 Kg.	5.30 x 12/80 PSI 13.46 CM. x 30.48 CM.
L 20 SG	15' - 4" 467.36 CM.	6' - 10" 208.28 CM.	3' - 11" 119.38 CM.	170 LBS. 63.41 Kg.	1560 LBS. 581.88 Kg.	2090 LBS. 779.57 Kg.	700 LBS. 257.37 Kg.	5.30 x 12/80 PSI 13.46 CM. x 30.48 CM.
								OPTIONAL 20.5 x 8/50 PSI 52.07 CM. x 20.32 CM.

***NOTE:** Approximate Capacity depends on many variables, such as added option weight, added weight of water and LPG and cargo, along with the distribution of these variables.

LIGHT BULBS

Interior #1141 Clearance #1895 Brake & Tail #1157 Side Mounted Backup (Optional) #93

COLOR CODE FOR PIGTAIL CONNECTORS

7 CIRCUIT

White — Common to Ground
 Red — Stop & Left Turn
 Brown — Stop & Right Turn
 Green — Tail, Running & License
 Blue — Electric Brake
 Yellow — Converter
 Black — Backup

8 CIRCUIT

White — Common to Ground
 Red — Stop & Left Turn
 Brown — Stop & Right Turn
 Green — Tail, Running & License
 Blue — Electric Brake
 Yellow — Converter

CASUALINE OWNER'S MANUAL

Serial No. _____



COACHMEN DRIVE
MIDDLEBURY, INDIANA 46540