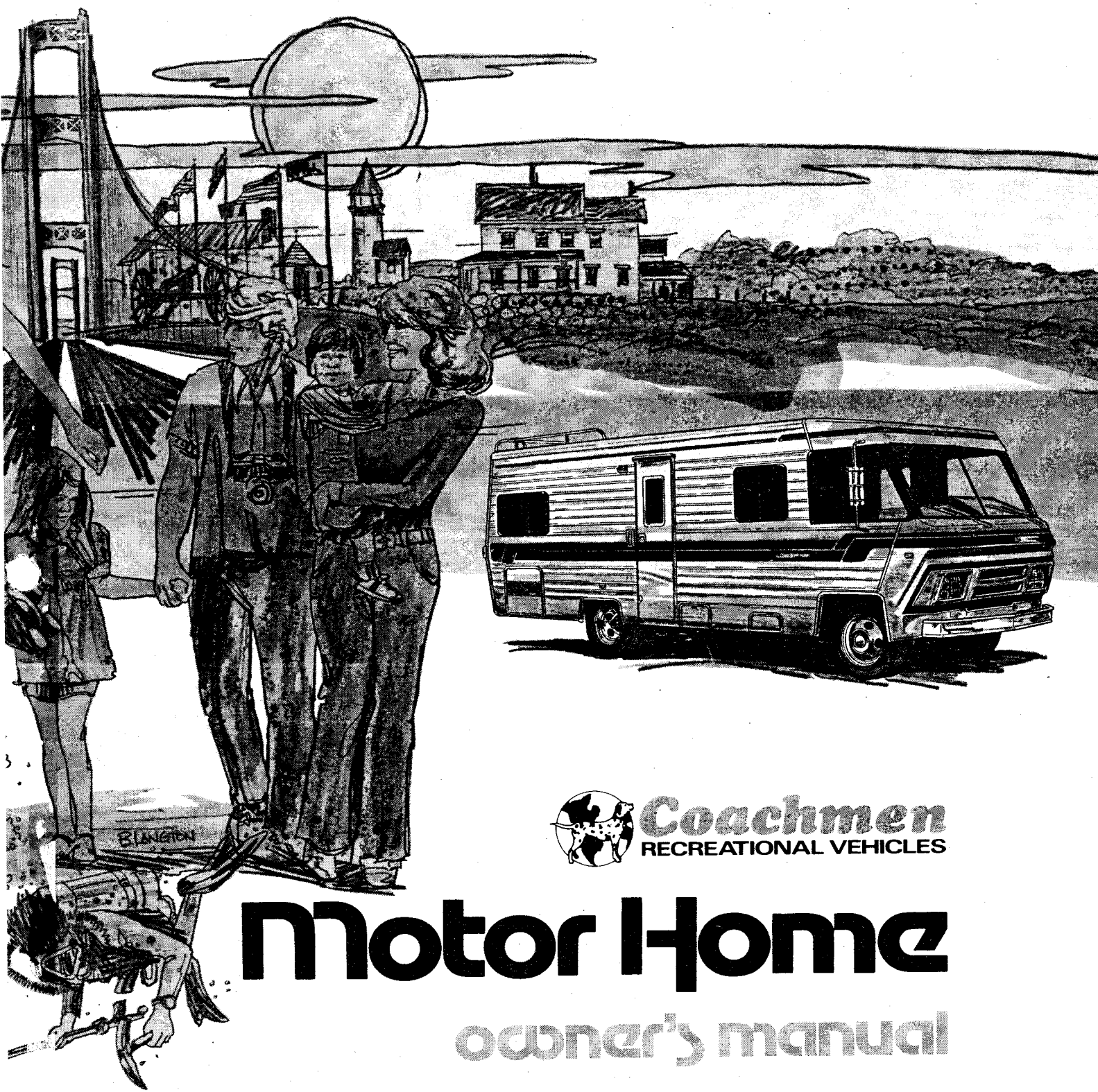


1978



Coachmen
RECREATIONAL VEHICLES

Motor Home

owner's manual

Welcome to Coachmen's ever-growing family of happy RV owners. Hours of relaxation, adventure and enjoyment are possible for you in your new Coachmen unit. Thousands of Coachmen RV owners have been enjoying their units for many years.

This Owner's Manual has been prepared to help you and your family enjoy your new Coachmen RV to its fullest, by providing basic instructions for the operation and maintenance of its appliances, accessories and RV systems. Read it carefully and follow the instructions. Also read and follow the instructions contained in the appliance and accessory instruction booklets provided by various manufacturers which also are a part of the "Coachmen Information Packet".

Operating and maintenance instructions pertaining to appliances in this Owner's Manual were obtained from and are used with the permission of the various manufacturers. We reserve the right to present edited portions of their material.

Coachmen Industries, Inc., works year 'round to improve its products. Accordingly, all specifications, equipment, and prices set forth in Coachmen literature are subject to change without notice or obligation.

Coachmen offers a wide variety of Recreational Vehicle models and choices of standard and optional equipment; therefore, certain descriptions in this manual may not apply to your unit. Ask your Coachmen dealer, or see the current brochure, for information concerning available standard or optional equipment.

JOIN the INTERNATIONAL COACHMEN CARAVAN!

The International Coachmen Caravan is your owner's club. It's designed solely to help you get the most pleasure from owning a Coachmen Recreational Vehicle. For complete information on how to join the Caravan, just write to The International Caravan, P.O. Box 30, Middlebury, IN 46540.

HERE'S WHAT YOUR CARAVAN MEMBERSHIP WILL BRING YOU:

1. CARAVAN IDENTIFICATION PACKAGE

The first benefit a member receives is a complete Caravan Identification Package. The package includes a membership card and Coachmen Caravan decals and unit numbers.

These are all-important items to identify you as a full-fledged Caravanner eligible for all other Caravan benefits.



2. MEMBERSHIP ROSTER

Wherever your RV adventures lead you, you'll find friends with the Coachmen Caravan Roster. The list is organized by Caravan Identification numbers. When you spot another Caravan member — and there are more than 13,000 of them! — refer to your roster. You'll find the members' names, city, state and CB call letters. It's a great way to break the ice and open conversation.



The professional Caravan staff is constantly striving to develop outstanding tours and events. Traveling to special places with a Caravan of friends is always a memorable experience. It's a great way to get the family together.

6. CAPERS — YOUR MAGAZINE

Capers is a bi-monthly magazine written for — and largely by — Caravan members. Capers will bring you news of Caravan chapters across the continent as well as news of upcoming trips and rallies, feature articles on the many aspects of owning an RV, recipes for outdoor cooking, etc.



3. MAP SERVICE

Caravan means travel and lots of it! To smooth the road for you and help you plan your trips, Caravan offers a special discount on the Rand McNally Road Atlas.

4. MAGAZINE DISCOUNTS

To help you enjoy all the aspects of RV'ing, Caravan offers its members special discounts on the best enthusiast magazines:

Trailer Life, Motor Home Life, Van Life and Woodall's.

Subscription cards will be furnished at no charge, to be mailed from the Caravan office.

5. CARAVAN TRIPS AND RALLIES

Nova Scotia! The Indy 500! Florida! Hawaii! Interesting places and events are a big benefit of Caravan membership. Each year, the International Coachmen Caravan has several special trips as well as an International Rally.

7. PETE'S MARKET

Pete's Market is the Caravanner's mail-order store, chock-full of special items to make your RV adventures more fun. Special decals, patches, clothing, accessories and jewelry featuring our symbol, Pete the Dalmation, are available at very reasonable prices exclusive to Caravan members.



8. DISCOUNT FILM PROCESSING PROGRAM

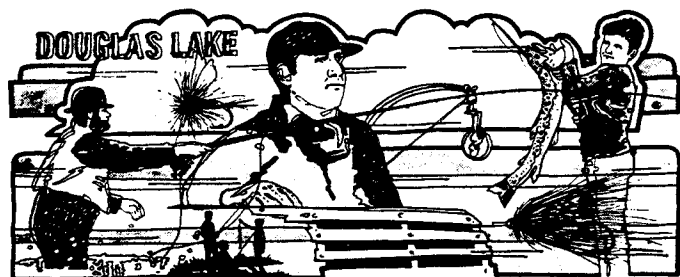
Photographs are the best way to preserve all those memories you'll be making on your Caravan trips and other RV travels. To help you have all the pictures you'll want, Caravan offers members a special discount film processing program. You'll receive an envelope to mail in your film for 24-hour processing at low, low rates.

9. CAR RENTAL PROGRAM

Wherever you travel, you'll benefit from the Caravan-Hertz Car Rental Program. All Caravan members are eligible for a 25% discount on Hertz Car Rentals. As a Caravan member, you'll receive a special card identifying you as eligible for this discount. Your family can travel more — for less!

10. DISCOUNTS ON TRAVEL ACCESSORIES

To help you enjoy your travels even more, Caravan members will receive discounts on travel accessories. You'll be able to purchase helpful items, such as highway emergency kits, at low, low rates exclusive to Caravan members.



11. CAMPGROUND MANUAL DISCOUNTS

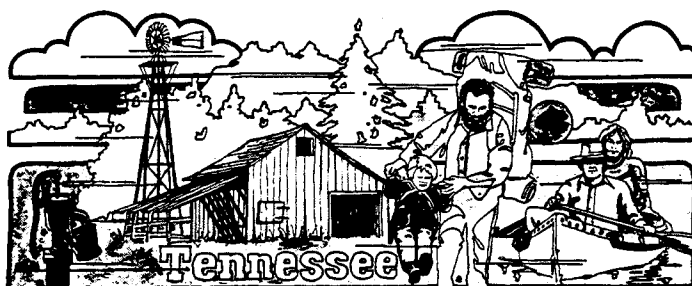
The well-known Wheelers RV Resort Campground Guide can really help you on your RV travels, and you can receive it at discount rates.

12. LOCAL, STATE & DISTRICT ACTIVITIES

In addition to International Caravan trips and rallies, you can enjoy your local, state and district Caravan Chapter activities all through the year. Whenever you feel like getting together with other Caravanners, chances are one of these groups will have an activity planned!

13. PERSONALIZED TRIP ROUTING

Caravan's Personalized Trip Routing Guide will help make your trip planning easier and your travels more enjoyable. Prepared especially for you by the Rand McNally Company, this trouble-free guide provides easy-to-read details on routes you request. Your customized route includes a National Inter-state map, individual state-by-state map routings, as well as maps of major cities on your way.



14. KOA PREFERRED CUSTOMER CARD

This card entitles you to special service at participating KOA campgrounds. Benefits include:

- Faster check-in and preferred treatment; meaning you can get the best sites available at the time of your arrival.
- Guaranteed money-back within one hour if you decide to leave.
- Extra benefits available at certain participating campgrounds.

The cost of a one-year membership is \$8.00; two-year membership, \$15.00, and three-year membership, \$20.00.



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INTRODUCTION

GENERAL

Now that you've purchased your new Coachmen motor home, you're anxious to start on your first trip. Coachmen and your authorized dealer have cooperated in providing the means for a quick getaway: Coachmen by designing and building your unit to rigid standards and thoroughly testing it at the factory, and your dealer by a careful retesting of systems and an inspection prior to delivery to you. Yet, after all that, we're going to ask you not to make a hasty departure. Because we want you to enjoy every trip, whether it's overnight, a weekend or season-long excursion, we first want you to get to know your unit and make careful preparations. That's why you'll find more than operating and maintenance instructions in this manual: You'll also find tips and suggestions to help you get started. There also are dozens of illustrations for easy identification of the various components.

NOTE: Illustrations identified by a figure number will be found in the convenient foldout at the back of the manual.

Our first suggestion is that after you've read this manual and the appliance and accessories instruction booklets, store them in your unit for handy reference.

An overnight or weekend "shakedown" trip can help RV'ing novices become familiar with their unit and its systems and appliances. The experience gained and the hints other RV'ers are usually eager to share will help make future RV'ing more enjoyable. Although you purchased your unit with certain standard and/or optional equipment, you may wish to add other accessories later. Experience is invaluable in determining which additional items, if any, to choose. Remember, your Coachmen dealer will assist you in every way possible.

LICENSES

The vehicle licensing laws vary from state-to-state. Check with your license bureau or nearest branch office for the requirements in your state. Be sure to renew your driver's license if it has or will expire during your trip.

INSURANCE

Personal liability, property damage, collision and theft of contents may be features of your automobile policy which apply to your Coachmen unit. Contact your insurance agent about details of your coverage. Always carry your policy card.

TRAVEL PREPARATION

GENERAL

Determine the various items of equipment, clothing, food and other supplies required for the length and destination of your journey. In a subsequent section, the importance of proper loading is explained, but at this stage you're more concerned

with a quick getaway. One way to reduce loading time is to purchase dinnerware and silverware, pots, pans, towels and bedding, which can remain in your unit at all times. After a trip, clean and launder the articles and replace them in your motor home, ready for your next trip. The following is a guide to help in your travel preparation.

CLOTHING

Compile a clothing list for each person. Consider the season and areas through which you intend to travel. Basic articles: Underwear, socks, footwear, shirts, blouses, trousers, slacks, dresses, shorts, sweaters, jackets or coats, rainwear and swim suits.

CAMP HYGIENE

Dishsoap, dishcloths and dishtowels, garbage and trash bags, mop, broom and dustpan.

PERSONAL HYGIENE

Soap, washcloths, towels, toothpaste, toothbrush, deodorant, shaving kit, toilet paper, laundry soap and laundry bag.

SAFETY

Flares and reflectors; flashlight; first aid kit; tow rope and/or chain.

FOOD AND WATER

Don't try to take a food supply for an extended trip. Take enough for two or three days and replenish supplies along the way. Take a basic supply of seasonings: Sugar, salt, pepper and spices. Plan meals so that the fresh or refrigerated items are used before they spoil. Fill your fresh water tank before leaving (when traveling in winter, it is recommended that the water tank not be filled until the interior of your unit is thoroughly warmed or until you reach your destination).

MEAL PREPARATION

Bottle cap and can opener; matches, lighter or igniter device; pots, pans, plates, glasses, and cups (paper or plastic are lighter and less likely to break while the vehicle is in motion); silverware and carving knife.

TOOL CHEST

Include an assortment of wrenches and screwdrivers, pliers, hammer, shovel, tire pressure gauge, small level, electrical and masking tape.

ADDITIONAL TOOLS

You may also want to take a hatchet, saw, and 12-volt portable tire pump.

EQUIPMENT

Fresh water hose (garden) and bucket; "Y" type water hose fitting; 20-foot 3-prong power cord; 3-prong adapter with grounding wire; fuses; wheel chocks, leveling ramp or blocks.

SLEEPING GEAR

Sleeping bags are ideal for cold climates, but sheets and blankets are better suited for warm weather. Take along an extra blanket or two for sudden drops in temperatures, such as can be expected in mountain areas even during summer. Be sure to take pillows, pajamas and mattress pads, if normally used.

ENTERTAINMENT

Take along games, toys, books, magazines, or other items of entertainment to occupy passengers while traveling or in case you encounter inclement weather.

IMPORTANT DOCUMENTS

Carry your vehicle registration and insurance policy card(s). If you are borrowing a vehicle, you should have a notarized letter of authorization from the owner with you.

TOURIST INFORMATION

Current road maps and tourist information for states through which you intend to travel are available through state tourist agencies. You also may want to purchase a tourist guide book.

If you will be visiting federally-operated national parks, monuments and recreation facilities, you may wish to look into the Golden Age Passport and the Golden Eagle Passport. They can help families cut spending at those areas where fees are involved.

GOLDEN AGE PASSPORT — The Golden Age Passport is a free lifetime pass for persons 62 and over and covers all admission fees and a 50 percent discount on use fees (except fees charged by private concessionaires). It may be obtained only at park service offices and at parks where entrance fees are charged. It cannot be obtained by mail or at post offices. To obtain the Golden Age Passport you will need proof of age, such as a driver's license, or be prepared to sign an affidavit swearing that you are 62 or over.

NOTE: Medicare cards are not accepted since in some cases they are issued to younger persons.

GOLDEN EAGLE PASSPORT — The Golden Eagle Passport costs \$10 and is designed for persons who plan to visit several parks or federally-operated facilities in a single year. It covers all admission charges but does not cover use fees and is good only during the calendar year in which it is issued. It may be purchased in person or by mail at the National Park Service headquarters, Department of the Interior,

Washington, D.C. 20240; at regional offices and at facilities where entrance fees are charged.

Both the Golden Age and Golden Eagle Passports cover admission fees for the permit holder and any persons accompanying him or her in a private vehicle. Where entry is not by vehicle, the passport covers the permit holder and members of his or her immediate family.

HOME SECURITY

Make arrangements for someone to check your house periodically. Stop mail and newspaper delivery. If you intend to be away for more than 2 weeks, request police surveillance. Carry an extra set of vehicle and house keys on a separate key ring.

PRE-TRAVEL CHECK

GENERAL

Whether departing from your home, rest area, or campsite, you should perform these pre-travel checks:

LIGHTS should be tested, including brake lights, warning flashers, clearance lights, taillights, turn signals and headlights. Clean all lens covers.

REARVIEW MIRRORS should be adjusted so the driver can see to the rear of both sides of the unit.

WINDSHIELD should be clean, wiper blades inspected, and windshield washer reservoir filled.

POWER CORD(S) (120-Volt Shoreline) must be unplugged from the external source, pushed into the compartment (and plugged into the Shoreline compartment receptacle, if applicable) and the cord hatch secured.

WATER FILL hoses must be disconnected and the caps and hatches secured.

SEWAGE TERMINATION VALVES must be closed and locked. The sewer hose must be removed from the termination outlet and stored in the side compartment. The termination caps must be securely fastened to the termination outlets.

WINDOWS AND VENTS should be closed and secured (the rear windows should remain closed while driving to avoid drawing exhaust fumes into the vehicle).

TV ANTENNA must be cranked down to its travel position.

LP GAS TANK and gas line connections should be checked.

NOTE: Some states prohibit vehicles equipped with LP gas tanks from using tunnels. A few other states prohibit traveling with the Service valve open and the pilots lit. Check the regulations of the states through which you intend to travel.

STEP must be pushed in to its travel position (Figure 1).

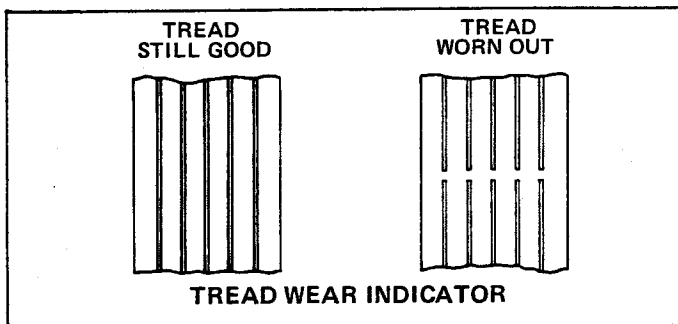
EXTERIOR ACCESS DOORS for storage and equipment should be closed and locked.

INTERIOR DOORS AND DRAWERS should be secured. Loose items should be lashed down or stored away.

REFRIGERATOR DOOR should be secured with the travel latch.

AUTOMOTIVE SYSTEM should have the pre-travel check outlined in the chassis manufacturer's owner's manual.

TIRES should be inspected before each trip. Replace a tire when it is worn to 1/16" depth in two or more adjacent grooves, or to the level of tread indicators molded into the bottom of the tread grooves, when the indicators appear in two or more adjacent grooves at three locations around the tire. Check tire for uneven wear, road damage, foreign objects, or excessive peeling or bulging.



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

Each morning inspect tire condition and pressure on your unit. Heat generated by surface friction will increase the tire's air pressure approximately 6 to 9 psi; therefore, do not bleed air out of a hot tire. Inflate tire to recommended pressure as indicated on tire or in tire manufacturer's instruction booklet.

NOTE: Proper tire inflation is extremely important.

WHEEL LUGS must be tightened to the specifications in the chassis manufacturer's owner's manual.

LOADING

GENERAL

A properly-loaded vehicle will perform better and handle more safely. Distribute your cargo evenly from side-to-side and front-to-back. Store heavier items on or close to the floor and as centrally as possible. Lighter items may be stored in cabinets, closets and drawers. Luggage or similar cargo transported inside your motor home should be secured

to prevent it from causing damage in case of a sudden stop or accident. Remember to leave space and weight allowance for souvenirs or other items you may purchase during your travels.

WEIGHT DETERMINATIONS

It is extremely important that you weigh your vehicle prior to leaving on a trip to determine whether your cargo is within the allowable limits for the various suspension components. Check the Federal Sticker or the Vehicle Identification Number (VIN) plate for the maximum weight ratings of each axle and the proper tire inflation for the intended load.

FEDERAL STICKER

Found on the panel at left of driver area, the Federal Sticker lists the Coachmen Serial Number, the front and rear Gross Axle Weight Rating (GAWR) and the Gross Vehicle Weight Rating (GVWR). The VIN Plate also lists the GAWR, GVWR and the Chassis Serial Number.

MFD. BY Coachmen Industries, Inc.		DATE _____	
INC. VEH. MFD. BY: _____		DATE _____	
GVWR: _____			
GAWR: _____			
FRONT _____	TIRE _____	RIMS @ _____	PSI _____
INTER- _____	WITH _____	RIMS @ _____	PSI _____
MEDIATE _____	WITH _____	RIMS @ _____	PSI Cold Single _____
REAR _____	WITH _____	RIMS @ _____	PSI Cold Dual _____
THIS VEHICLE CONFORMS TO ALL APPLICABLE FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT IN:			
VEHICLE I.D. NO. _____			
VEHICLE TYPE: MULTIPURPOSE PASSENGER VEHICLE MODEL: _____			

FEDERAL STICKER

DEFINITIONS

GAWR — The allowable weight, including cargo and passengers, which can safely be supported by each axle.

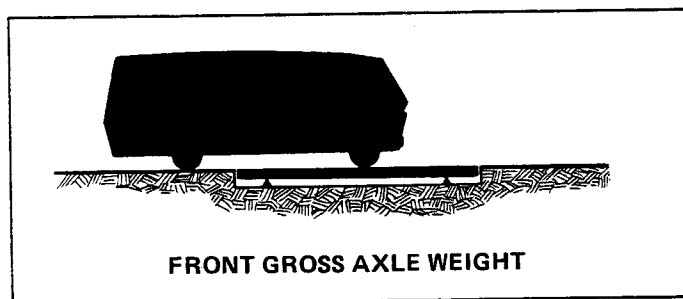
GVWR — The maximum permissible weight of your vehicle, including cargo, all options and passengers.

GVW AND GAW — Are found by weighing the vehicle fully-loaded. GVW is the actual weight of the motor home and all standard and optional equipment, cargo and passengers. GAW is the portion of the fully-loaded vehicle which is transferred to each axle.

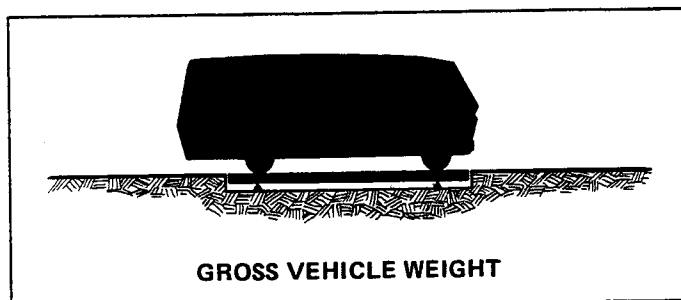
You can weigh your vehicle at a grain elevator, sand and gravel dealer or government weighing station (they are listed in the yellow pages of your telephone directory). The small fee involved may save you considerable trouble and expense later. Be certain to weigh the motor home with all passengers, cargo, LP gas and water aboard.

WEIGHING

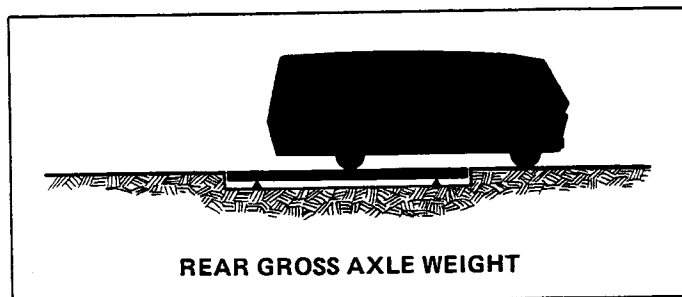
STEP 1 — Drive only the front axle of the motor home onto the scale. Compare the weight to the front GAWR listed on the Federal Sticker.



STEP 2 — Pull forward so that the front and rear axles are on the scale. Compare the weight to the GVWR listed on the Federal Sticker.



STEP 3 — Pull forward so that only the rear axle is on the scale. Compare the weight to the rear GAWR listed on the Federal Sticker.



NOTE: If any of the weights exceed the listed rating, relocate the passengers and redistribute or remove a portion of the cargo, until the weight is within the proper tolerance.

DRIVING

GENERAL

Power steering and power brakes help make driving your Coachmen motor home as effortless as possible. But you must remember that the motor home is longer, higher and wider than a family automobile. Be especially watchful for low bridges, overpasses, awnings or similar obstructions, which might damage your roof or accessories mounted on the roof. Watch for overhanging tree branches which also can do considerable damage to the windshield or roof of your motor home (refer to the brochure for clearance measurements). Before leaving on a trip, you may want to practice turning, braking, backing and accelerating.

PULLING INTO TRAFFIC

Check for oncoming traffic in all directions. Signal before entering the traffic flow. Accelerate slowly and smoothly and remember to compensate for less acceleration than that of a vehicle with a higher power-to-weight ratio.

TURNING

Because of the length of your Coachmen motor home, always pull farther ahead before turning either left or right, to allow sufficient clearance for the rear of your vehicle.

PASSING

Avoid sudden maneuvers when passing another vehicle. Remember that additional time and distance are required to pass safely. Wait until the road is clear of oncoming traffic for at least 1/2 mile. Check the rearview mirrors and signal lane change before passing. When you are safely ahead of the other vehicle, signal lane change and return to your original lane.

DRIVING ON A GRADE

When climbing or descending a steep grade, manually downshift the transmission to a lower gear.

BRAKING

Allow a safe distance in which to stop your motor home. Never follow another vehicle closer than one vehicle length for each 10 mph. Pump the brake pedal lightly to stop on wet or icy roads. If you start to slide, turn the steering wheel in the direction of the slide. **DO NOT** tromp the brake pedal — a panic stop will increase the slide. **DO NOT** rest your foot on the brake pedal when you are not intending to stop. "Riding" the brakes will waste gasoline and can cause excessive brake temperatures, lining wear and possible brake failure.

OVERHEATING

If your motor home's engine overheats, pull well off the road. Shift to Park (P) for Chevrolet and GMC, or Neutral (N) for Dodge, and run the engine with your foot resting lightly on the accelerator pedal. If the engine does not cool within 2 to 3 minutes, turn it off and locate the problem.

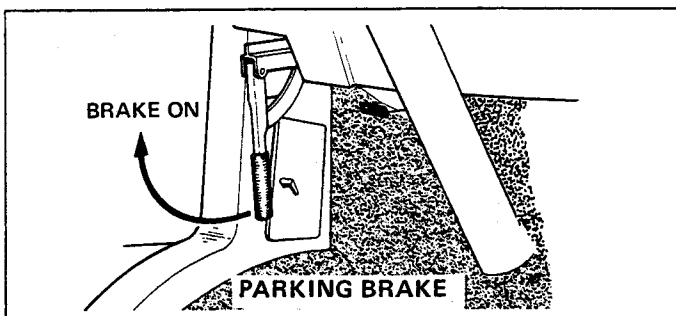
Engine temperature problems may be avoided if you climb long grades and descend moderately-steep grades in second gear; climb steep grades in first gear and if your unit has auto air conditioning, turn it off.

CAUTION: *DO NOT exceed the maximum speed listed in the chassis manufacturer's manual for first and second gear — excessive engine speed will overheat the transmission, which may cause early transmission failure.*

PARKING ON A GRADE

Always apply the foot brake then set the parking brake, when parking on a grade, before moving the

shift lever to Park (P). When preparing to move the vehicle, move shift lever out of Park (P) before releasing parking brake. If this sequence is not followed, you may not be able to move the shift lever out of Park (P). If this torque lock does occur, you may have to have another vehicle push yours a short distance until you can move the shift lever.



HOLDING ON AN UPGRADE

Use foot brake or parking brake and Park (P) position to hold the vehicle on an upgrade. Using a driving gear to hold the unit may cause the engine or transmission to overheat. DO NOT idle the engine for more than one minute with the transmission in gear.

FREING A STUCK VEHICLE

To pull your vehicle out of snow, sand or mud, apply slight pressure to the accelerator pedal and move the gear selector lever rhythmically between first gear and Reverse (R). If possible, keep the front wheels pointed straight ahead. Avoid sharp turns. Once the vehicle starts to move, do not stop until it is on firm ground.

CAUTION: DO NOT race the engine or spin the wheels; prolonged efforts to free a stuck vehicle may result in overheating and transmission and axle failure.

TOWING

We do not recommend towing trailers (boat, camping, travel trailers) or other vehicles with this unit.

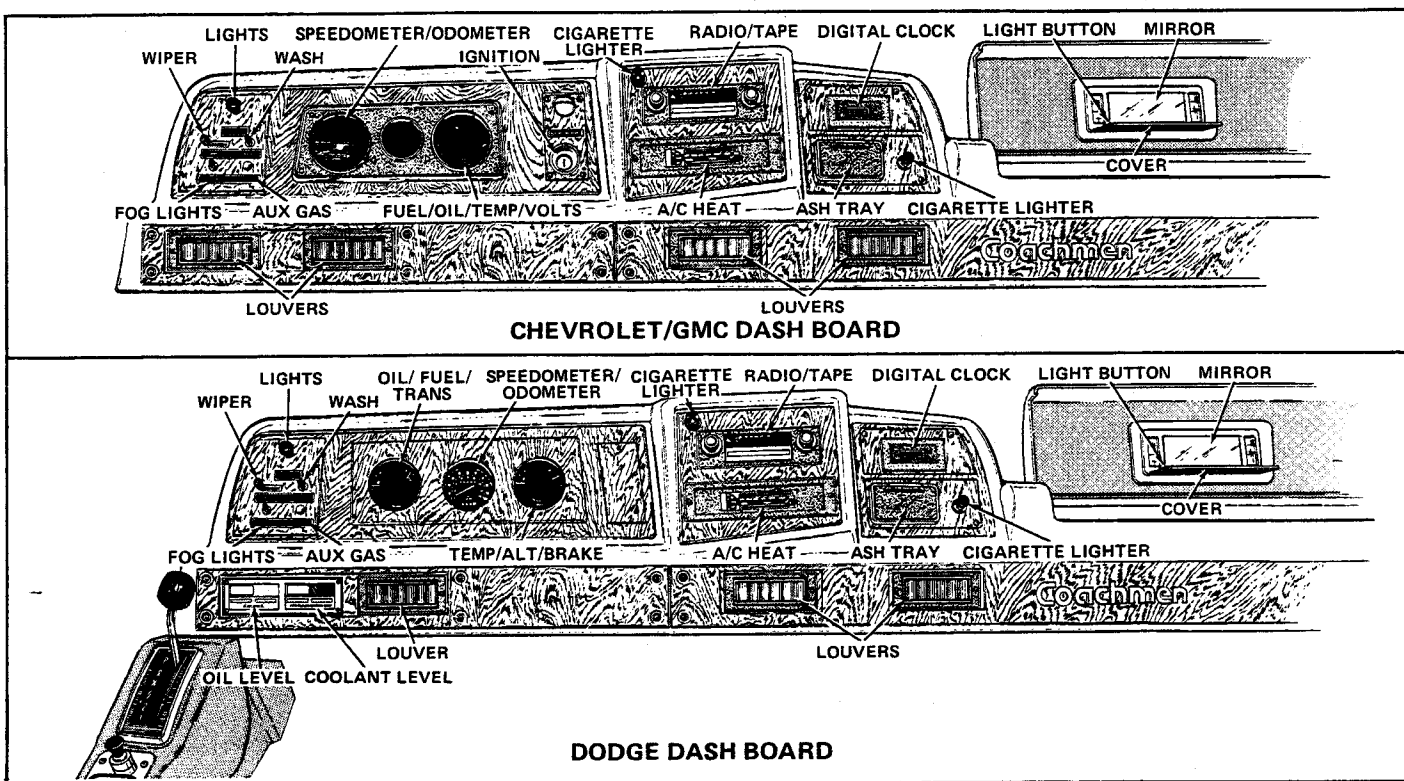
TIRE CHANGE

Change a tire on as level and firm a surface as possible. If you are on the roadside, activate the vehicle's hazard warning flashers. Apply parking brake and move transmission selector to Park (P). Set up flares and/or warning lights. See the chassis manufacturer's owner's manual for specific jacking and tire removal and replacement instructions which pertain to your unit. Stop at the nearest service facility and have the torque checked.

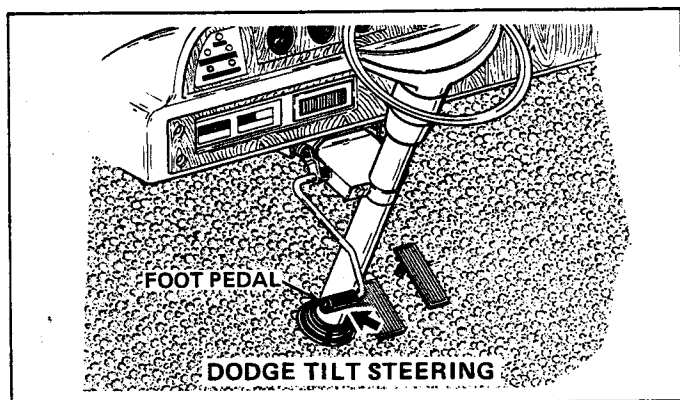
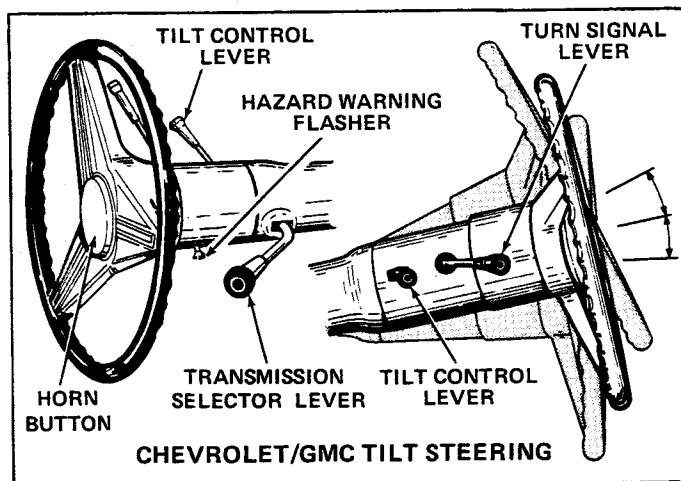
CAUTION: Use the jack only for changing tires. Never get beneath the vehicle when using the jack; never start or run the engine while vehicle is on the jack. Always securely stow the spare tire on the spare tire carrier and return all jacking equipment to its proper storage area.

DASH BOARD/CONTROLS

Your Coachmen motor home automotive instruments and controls are designed for convenience and safety. Read the chassis manufacturer's owner's manual for complete details on operation and maintenance of the systems.



TILT STEERING WHEEL — The tilt steering wheel can be moved to allow additional room for entrance and exit, as well as selected driving positions above and below normal height. Operate the tilt mechanism by lifting the small control lever on the left side of the steering column just below the directional signal lever (on Chevrolet or GMC chassis) or by depressing the foot pedal on the left side of the steering column (on Dodge chassis). Move the steering wheel to the desired position and release the lever or pedal to secure in place.



CAMPING

CAMPSITE SELECTION

Some campgrounds do not accept reservations, but make one whenever you can. If possible, arrive early so you may inspect and choose a site during daylight hours. Try to avoid sites near a swamp, stream or other bodies of water which may harbor mosquitoes or other insects. Avoid parking under dead trees or loose limbs which might fall and cause injury or damage. Stay away from areas which show signs of flash flooding. DO NOT park on private property without first obtaining permission.

In winter, park behind a grove of trees, bushes or similar type of windbreak. Close the gap between the ground and the bottom of your vehicle's outside walls with plastic, canvas or similar material. This will cut down cold drafts which can affect interior temperatures.

COURTESY

Common courtesy will help make your stay more pleasant. Campsites are often close together and RV walls are not as thick as those in your home, so loud noises may disturb your neighbors. Follow the posted rules of the campsite. Open fires may not be permitted. If you can build a campfire, clear the area of flammable materials; never leave a campfire untended and always make certain the embers are completely extinguished.

LIVING AREA

SETUP

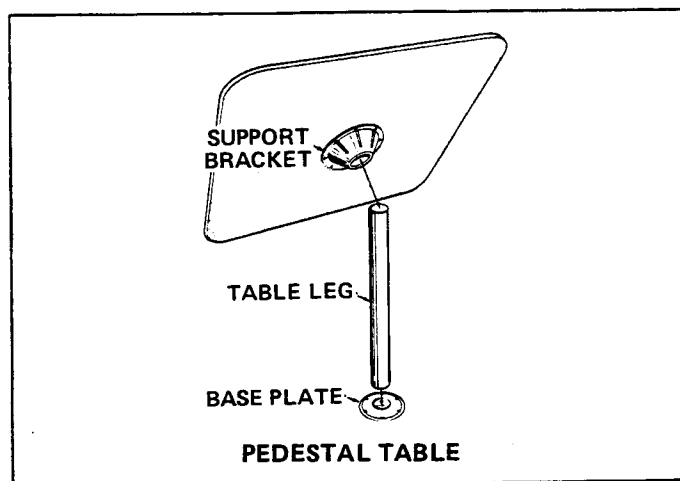
You'll want your motor home to be level for your own comfort (you don't want items sliding off counters and tables or out of cabinets). But more important, the unit must be level in order for your refrigerator and drainage system, both of which function by gravity, to operate properly. Place a level on the bottom of the refrigerator freezer compartment or in a normally level location inside the vehicle to determine proper levelness. Bubble levels are furnished with some refrigerators and are available from your Coachmen dealer.

NOTE: When the unit has been leveled side-to-side and front-to-back, you may wish to permanently attach levels on the front and/or back and sides of the unit or inside near the driver, on the sidewall and dash panel. This will allow you to tell at a glance if you've stopped on a level site, and will help speed up the leveling process.

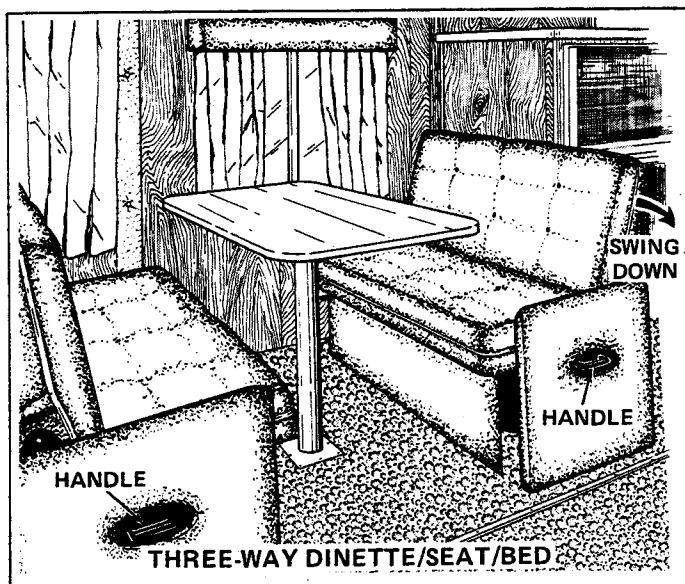
If your unit needs side-to-side leveling, make a step leveling ramp (Figure 2) using 1" x 6" or 2" x 6" boards of varying lengths. Pull forward or back onto the leveling ramp until the tire(s) on the low side are level. There also are numerous commercial levelers available; ask your Coachmen dealer about them.

TABLES

PEDESTAL TYPE — Insert table leg into recessed floor base. Lower table support bracket onto the leg. Some pedestal tables also have foldout leaves and come in various sizes.



THREE-WAY DINETTE SEAT — To change seat direction, pull out the handle; lift and rotate backrest to face in other direction. Press down on seat and push in on the handle. Test the seat to make sure it is locked in place. The front dinette seat must face forward if it is to be occupied while traveling.

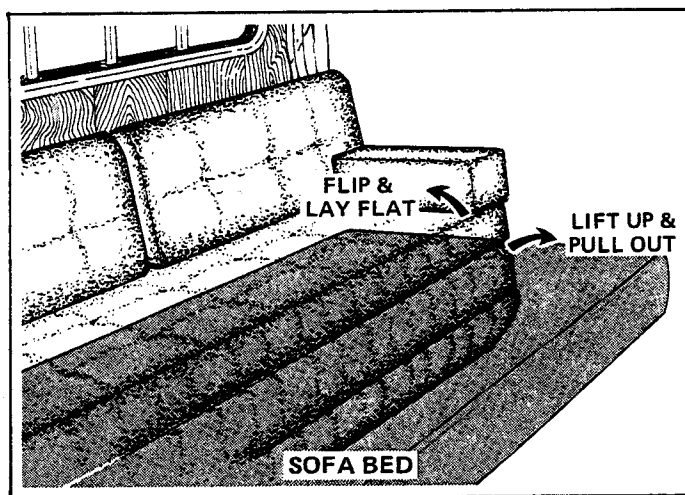


BEDS

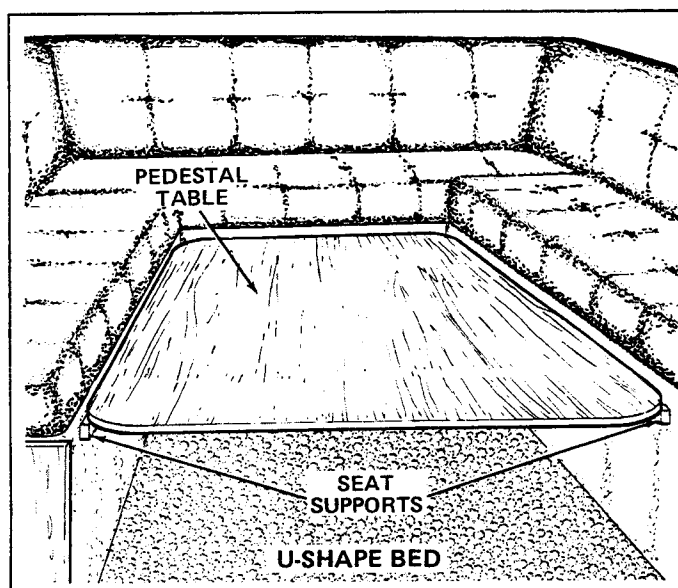
THREE-WAY DINETTE SEAT/BED — To make the three-way dinette seat into a bed, remove the dinette table. Be certain the seats are in the table setup position. Pull out the handle and push down on the backrest. Push the handle back into the locked position. Repeat this procedure on the opposite seat to assemble the other half of the bed.

SINGLE GAUCHO — Remove table. Lift front edge of gauchio platform and slide it out. Arrange cushions on platform.

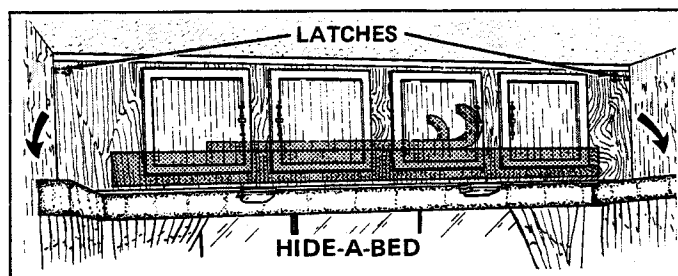
SOFA — To make the sofa into a bed, remove the back cushions and the armrests. Lift and pull outward on the bottom of the sofa. Fold the upper seat cushion back to form a level mattress. The armrests may be used as pillows if desired.



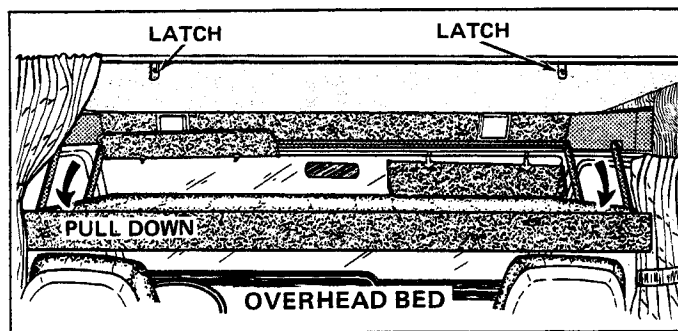
U-SHAPE BED — The U-shape dinette converts into a large bed. Remove the pedestal table, place it on the seat supports and arrange cushions on top.



CABINET HIDE-A-BED — Open both end cabinet doors. Release latches (one is located inside at each end of the cabinet). Close the cabinet doors securely. Swing cabinet face down so that it rests on its supports. Position reinforcing boards on top of the cabinet face. Arrange mattress pads on top.



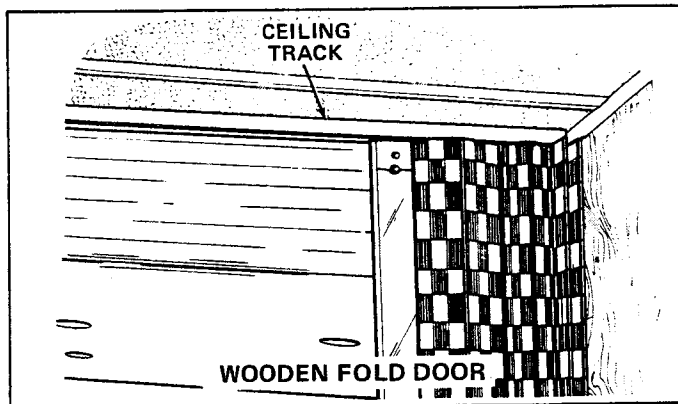
FRONT OVERHEAD BED — To use the bed, release the latches on either side of the platform's front edge and pull the platform down. The bed is ready for use.



DIVIDER DRAPES — A divider drape to separate the living area from the driving area is standard on all models. The drape slides along a ceiling track. When open, it can be attached to the unit's side, behind the driver, with a tieback.

The optional windshield drapes slide along a track over the sun visors. The drapes meet in the center of the windshield when closed. Secure with tiebacks on either side of the unit when open.

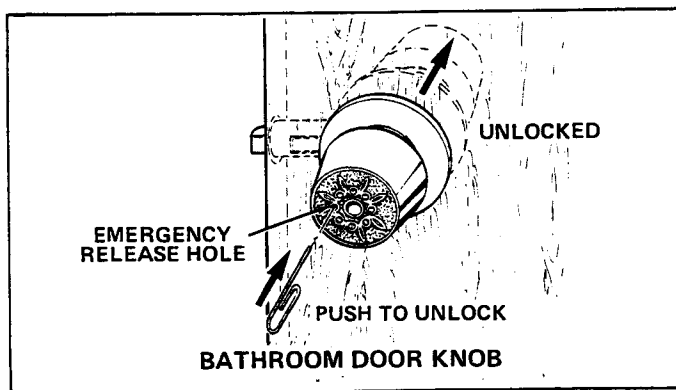
A wooden fold divider door, standard in some models, slides along a ceiling track. Secure on the unit's side with the tieback when not being used.



BARREL CHAIRS — To swivel seat, push down on lever located on the right side of seat and turn seat to desired position. Swing arm rests up or down as desired.

6-WAY DRIVER'S SEAT — The optional seat is controlled by three buttons on the left side of the seat. The button at the rear will angle the seat forward when pushed downward, or backward when pulled upward. The center switch will slide the seat forward or backward. The button at the front acts to tilt the seat further forward or backward than the button at the rear. To pivot the seat, press down on the lever located on the right side of the seat and move seat to the desired position.

BATHROOM DOOR LOCK — Flush-mounted bathroom doors can be locked or unlocked from the inside by pushing in or pulling out on the inside knob. It can be unlocked from the outside by pushing a small metal object, such as a paper clip, into the emergency release hole. On doors with exposed hinges, the hinges may be removed if you are unable to unlock the door.



CARE OF SHADES — Use a mild soap and water solution to clean the shades. The woven wood shades, in some models, should be vacuumed only.

CARE OF CUSHION COVERS — Vacuum covers regularly. To remove grease spots, use a commercial degreaser. For other stains, use a soapy, damp cloth. Covers should be dry cleaned only.

CARE OF DRAPES, CURTAINS AND VALANCES — Drapes may be machine washed and dried or dry cleaned. Valances may be wiped off with a damp cloth or vacuumed.

CARE OF WOODWORK — Clean the woodwork with regular household furniture polish. DO NOT use water to clean wooden surfaces. Scuffs may be covered with furniture wax and stain mixture. Scratches may be covered with Putty Stic.

CARE OF WARDROBE AND DRAWERS — Clean wood surfaces with household furniture polish. Wash plastic surfaces with warm water and liquid soap.

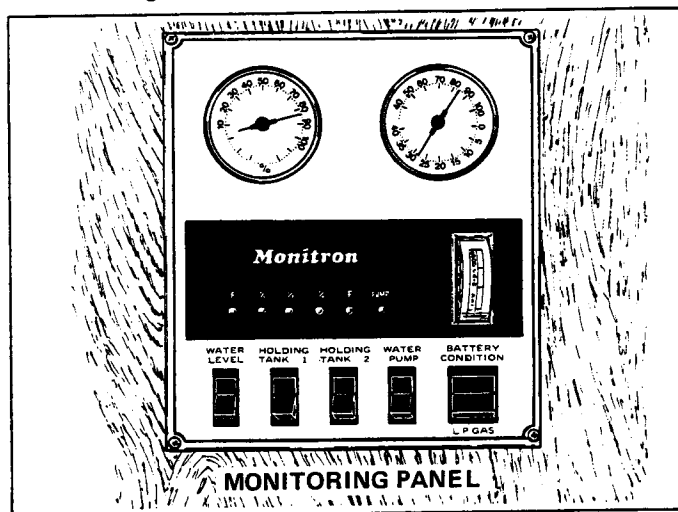
CARE OF FLOORING — Sweep and damp mop vinyl floors occasionally. Vacuum and shampoo carpet as required.

BASIC SYSTEMS

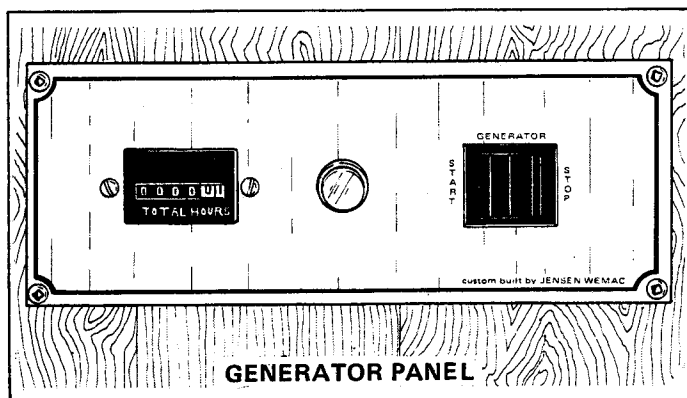
GENERAL

The basic utility systems in your Coachmen motor home can be classified under four titles — Electrical, LP Gas, Fresh Water and Drainage/Sewer. This section outlines these systems, describing their operation, function, and simple maintenance. It is not intended as a service guide. Your motor home has been engineered and built to provide trouble-free operation, but should a problem arise, we recommend that you contact your authorized Coachmen dealer.

An optional monitoring panel allows you to check the condition of most systems conveniently from the interior of your motor home. It has indicators to show the volume of fresh water, LP gas, waste and gray water in your holding tanks, the condition of your RV battery, a switch for the water pump, a thermometer used to measure the interior temperature and a hygrometer measuring the relative humidity. Holding tank #1 is for waste and holding tank #2 is for gray water.



A separate panel contains the generator remote START/STOP switch, the generator hours-of-operation meter and a generator running light.



GENERATOR PANEL

ELECTRICAL

GENERAL

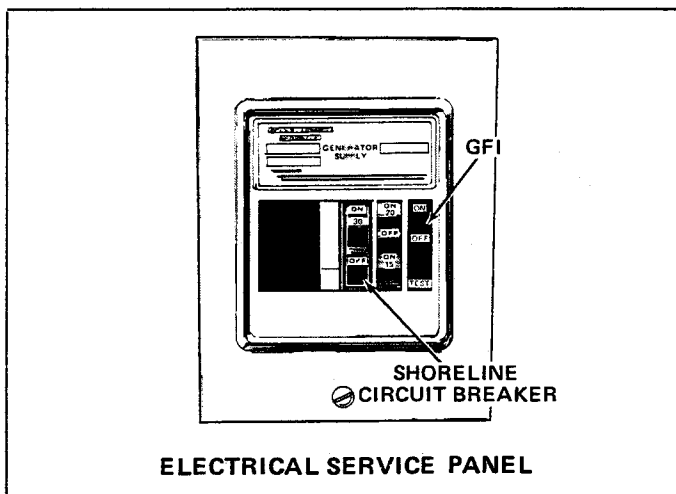
Your motor home has two separate electrical systems, which provide power while you are camped or traveling. There is a 12-volt direct current system, such as those in automobiles, and a 120-volt alternating current system, which requires an external source of 120-volt electricity, provided by a connection to a campsite or household receptacle or by an optional generator. The 12-volt system is supplied by batteries and is used when you are on the road or in campsites which do not provide 120-volt hookups. Because most components in your motor home, such as the water pump, range hood light and fan, interior lights and interior 12-volt receptacles, operate only on a 12-volt source, your vehicle is equipped with a power converter which changes 120-volt AC to 12-volt DC power.

NOTE: Whenever possible, use the Shoreline or auxiliary generator in order to conserve your RV battery.

120-VOLT SYSTEM

The 120-volt system supplies electricity for optional roof air conditioners, the refrigerator, power converter for the 12-volt system, the exterior 120-volt receptacles (Figure 3), and the 120-volt receptacles inside your motor home which are used to operate regular household appliances. When you use the external 120-volt Shoreline connection or an auxiliary generator, the power source is directly connected into a main electrical Service panel or secondary service panel and is distributed through circuit breakers.

GROUND FAULT INTERRUPTER — The bath and exterior receptacles are connected to a Ground Fault Interrupter (GFI). This highly-sensitive circuit breaker will help protect against severe electrical shock if a ground fault develops. If this occurs, the GFI will break the circuit by turning the power off to those receptacles. Should this happen, unplug all appliances on that circuit and reset the breaker.

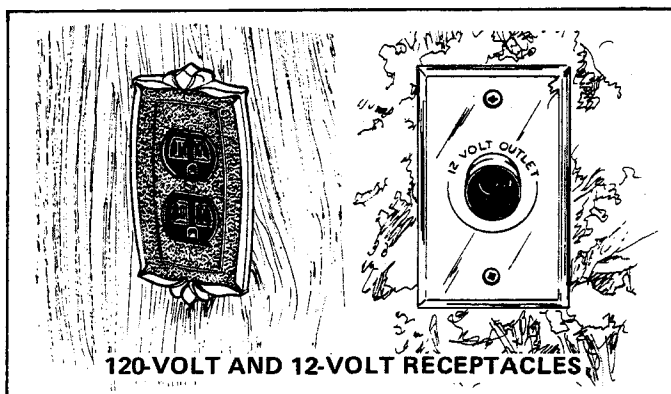


ELECTRICAL SERVICE PANEL

CAUTION: The GFI does not completely eliminate electrical shock. Small children and persons with heart conditions or other disabilities that make them especially sensitive to electrical shock may still be injured by a ground fault on the bath or exterior receptacles.

Test the GFI system at least once a month, preferably before each trip. Depress the PUSH TO TEST button. The button will pop out if the circuit breaker is operating properly. Power will be off at bath and exterior receptacles. Plug a test light into these outlets to verify power is off. To restore power, push in the button.

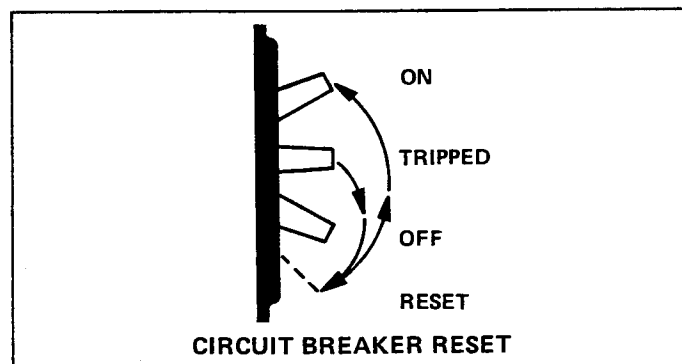
NOTE: If the button does not pop out or the test light indicates a live circuit, DO NOT use the outlets. Call your Coachmen dealer.



120-VOLT AND 12-VOLT RECEPTACLES

SHORELINE CONNECTION — The Shoreline (Figure 4) is a 25', 30-amp power cord with a 3-prong grounding plug on one end, permanently attached at the other end to the Service Panel. It can be pulled from its storage compartment through a hatch in the sidewall of your vehicle and connected to an external 120-volt receptacle. Some campsites and trailer parks still have two-slot receptacles. If it is necessary to use a three-to-two adapter, be certain its grounding wire is fastened securely to the outlet grounding screw. If in doubt, you may attach a No. 6-AWG copper wire to the frame of the vehicle and fasten it to an 8-inch copper or brass stake

driven into the ground. When the power cord is not connected to an external receptacle, plug it into the Shoreline compartment receptacle (Figure 5). 120-volt power will be provided to the unit through this connection when the generator is running.



The 120-volt system is protected by the circuit breakers. If a circuit breaker opens, unplug the appliances on that circuit, allow a short period for the breaker to cool, then reset the breaker. If the breaker continues to open, contact your Coachmen dealer.

12-VOLT SYSTEM

The 12-volt system, which includes the automotive battery and RV battery (Figure 6) plus the 12-volt converter, supplies power to the exterior and interior lights, the range hood fan and light, the furnace blower, the refrigerator, water pump, porch light, 12-volt receptacles and monitoring panel.

The automotive battery supplies 12-volt power to the engine ignition system, the dashboard lights and accessories, headlights, taillights, backup lights, clearance lights, turn signals and warning flasher lights. The automotive alternator will charge both the automotive and the RV batteries, although an isolator prevents the RV system from drawing power directly from the automotive battery.

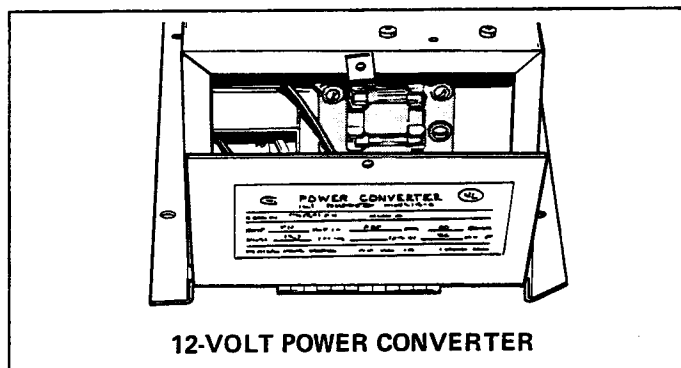
The RV battery supplies power to the furnace blower, water pump, power vent, range hood fan and light, interior lights, refrigerator and monitoring panel. The 12-volt receptacles can be used only for appliances specifically designed for that type of energy. The RV battery also is charged by the power converter whenever you are using a Shoreline connection or generator.

BATTERY — Check the liquid level at least once a month. It must be above the plates. The battery manufacturer approves using a good grade of drinking water, excluding mineral water. Keep terminals free of dirt and corrosion. Use a hydrometer to check battery charge. When specific gravity is below 1.225, recharge the battery until 1.265 is indicated.

CAUTION: If the battery must be "Quick Charged", turn off the refrigerator.

CONVERTER — The power converter transforms 120-volt AC into 12-volt DC. The converter supplies

power to all of the 12-volt systems (except the refrigerator) when it is supplied by a 120-volt source. Each 12-volt circuit is protected by a fuse in the converter. Remove the screw and open the converter door to expose the fuses. A listing of the circuits is on the inside of the door. Some fuses protect circuits with more than one function, others may be for specific appliances. If a fuse blows, turn off or unplug all appliances on that circuit. Replace the blown fuse with one of the same ampere rating. If the fuse continues to blow, contact your Coachmen dealer.



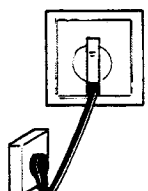

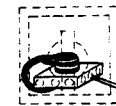

AUXILIARY GENERATOR

The auxiliary generator (Figure 7) is a gasoline powered appliance which will supply 120-volt electricity. It draws gasoline from the main gasoline tank and can be operated when your motor home is stopped or while you are traveling. A remote generator starter switch is mounted in your unit and there is a starter switch on the generator. For maintenance or service, the generator can be pulled out of its compartment on slider tracks. Remove the bolt at each side to pull generator out of the compartment. Be certain to push the generator into its compartment and replace the bolts securely before using the generator or moving your motor home.

Before starting the generator, turn off all electrical appliances in the unit, make certain the air intake and exhaust outlets are free of obstructions and check the oil level. Depress the START/STOP switch to START and hold until the generator is running (when released, the switch will return to a neutral position). You may have a 4.5 KW generator or a 7 KW generator.

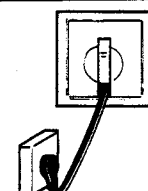
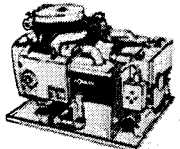

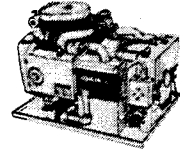
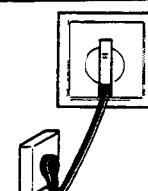

The 4.5 KW generator is available on all motor home models and the 7 KW is available on all models except the 23' VIP. The distribution of power, however, varies with the generator and the model of motor home.

When installed in 23', 25', 26' and 28' models, the 4.5 KW generator provides 120-volt power to the unit when the power cord is connected to the Shoreline compartment receptacle and the generator is running. The rear roof air conditioner is the only appliance directly connected to the generator and it can ONLY be operated when the generator is running.

 <p>Shoreline connected to External Power Source.</p>	 <p>Auxiliary Generator OFF</p> <p>All 120-volt system operable (except rear roof air conditioner).</p>
 <p>Shoreline connected to Shoreline Compartment Receptacle.</p>	 <p>Auxiliary Generator Running</p> <p>All 120-volt system operable (including rear roof air conditioner).</p>

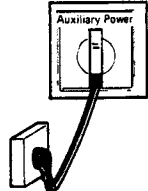
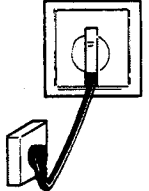
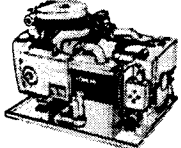

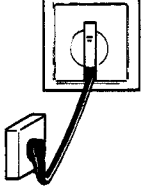
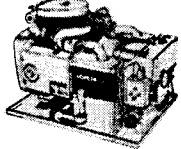
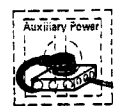

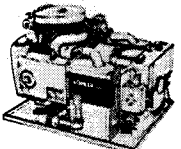
4.5KW CONNECTIONS (TYPICAL)

When installed in 25', 26' and 28' models, the 7 KW generator provides power to the motor home, directly to the rear roof air conditioner and to a kitchen receptacle labeled "Generator Power Only". The rear roof air conditioner and the special kitchen receptacle receive power ONLY when the generator is running; they cannot be operated from a Shoreline connection. With this arrangement, it is possible to use more power than that available through the 30-amp power cord. The generator may be started and permitted to run only as long as the additional power is needed. The remainder of the unit receives 120-volt electricity from the power cord when it is connected to an external source or the Shoreline compartment receptacle.

 <p>Shoreline connected to External Power Source.</p>	 <p>Auxiliary Generator OFF</p> <p>All 120-volt systems operable (except rear roof air conditioner and extra kitchen receptacle).</p>
 <p>Shoreline connected to Shoreline Compartment Receptacle.</p>	 <p>Auxiliary Generator RUNNING</p> <p>All 120-volt systems operable (including rear roof air conditioner and extra kitchen receptacle).</p>
 <p>Shoreline connected to External Power Source.</p>	 <p>Auxiliary Generator RUNNING</p> <p>All 120-volt systems operable (including rear roof air conditioner and extra kitchen receptacle).</p>

7KW CONNECTIONS (TYPICAL)

The 31' Regency has 2 power cords when equipped with a generator or is factory-wired for a generator. Each power cord has a Shoreline compartment receptacle. One power cord, labeled "Auxiliary Power", supplies 120-volt electricity to the rear roof air conditioner and an extra kitchen receptacle, which is labeled "Auxiliary Power Only". The other power cord supplies power to the remainder of the 120-volt system. By connecting both power cords to an external power source, all of the 120-volt system is powered without use of the generator. When the generator is running, the entire system is powered when both power cords are connected to their respective Shoreline compartment receptacles.

 <p>Auxiliary Shoreline connected to External Power Source. (Supplies power to rear roof air conditioner and extra kitchen receptacle.)</p>	 <p>Shoreline connected to External Power Source. (Supplies power to remainder of 120-volt system.)</p>	 <p>Auxiliary Generator OFF</p> <p>All 120-volt systems operable.</p>
 <p>Auxiliary Shoreline connected to Auxiliary Shoreline Compartment Receptacle. (Supplies generator power to rear roof air conditioner and extra kitchen receptacle.)</p>	 <p>Shoreline connected to External Power Source. (Supplies power to remainder of 120-volt system.)</p>	 <p>Auxiliary Generator RUNNING</p> <p>All 120-volt systems operable.</p>
 <p>Auxiliary Shoreline connected to Shoreline Compartment Receptacle. (Supplies generator power to rear roof air conditioner and extra kitchen receptacle.)</p>	 <p>Shoreline connected to Shoreline Compartment Receptacle. (Supplies generator power to remainder of 120-volt system.)</p>	 <p>Auxiliary Generator RUNNING</p> <p>All 120-volt systems operable.</p>

31' REGENCY CONNECTIONS

To turn the generator off, press the START/STOP switch to OFF and hold until the generator stops running.

Check the oil level daily or before each startup; clean the cooling air inlets and outlets and remove loose dirt from the generator compartment. Change oil every 50 hours or six months, whichever comes first. If operating in dirty or dusty conditions, change oil more frequently. Drain oil from crankcase. Use oil specified in the manufacturer's manual. Remove

the air-cleaning element and clean it by tapping it against a flat surface. Every 100 to 200 hours, depending on operating conditions, have an authorized service center perform maintenance recommended by the manufacturer.

WARNING: When running, the engine powering a generator can discharge carbon monoxide gas, which can cause death if inhaled even for a short period. Although exhaust fumes are usually readily evident, carbon monoxide is particularly dangerous because it is colorless and odorless. When operating a generator, **DO NOT** open roof vents, windows or doors which could draw fumes into your unit. **DO NOT** operate the generator where an object, such as a tree, bush or building, may deflect exhaust fumes inside your unit. **DO NOT** operate the generator inside a building unless the exhaust is vented safely outside. **DO NOT** operate the generator where exhaust gas could accumulate and seep back inside an occupied vehicle, tent or building.

FRESH WATER SYSTEM

GENERAL

Fresh water for your unit is supplied either by the vehicle's fresh water tank or an external pressurized source. Both supply water to the kitchen sink, tub/shower, lavatory, toilet and water heater.

CITY WATER

Connect a hose to a "city" pressurized water faucet and to the vehicle's water inlet (Figure 8). When using the city water hookup, the water tank and pump are bypassed. You cannot fill the water tank through the city water inlet.

Although a common garden hose can be used to fill water tanks and to connect to city water, longtime RV'ers recommend a hose specifically manufactured for this purpose.

CAUTION: In areas where city water pressure exceeds 60 psi, you should use a pressure regulator. Excessive water pressure may damage lines and connections. See your Coachmen dealer for further details.

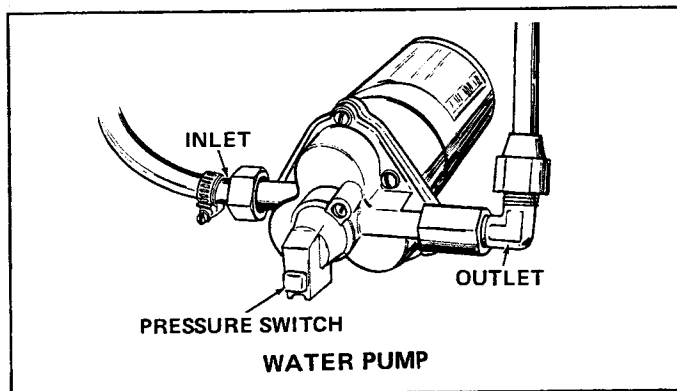
WATER TANK

Open the door to expose the gravity water fill (Figure 9). Use a hose or vessel to fill the water tank. Water will flow out the fill opening when the tank is full.

WATER PUMP

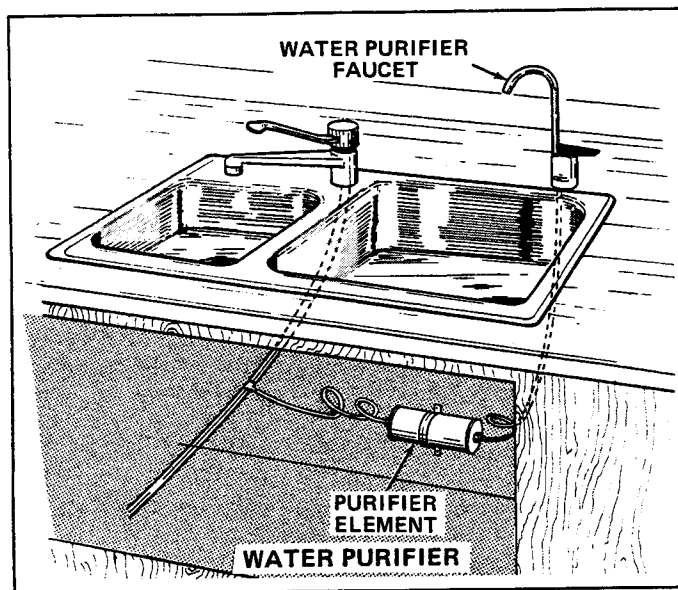
Your water pump is a 12-volt DC appliance, activated by a switch on the Monitoring Panel or behind the kitchen counter. You may leave the switch ON while camping. This arrangement is known as a demand system. When you want water, simply open a faucet; the pump will run only as long as

needed. If the pump fails to start when the switch is ON, check the fuse located in the converter. If the pump continues to operate, whether the faucets are opened or closed, check the water tank, it may be empty, or there may be a leak in the system.



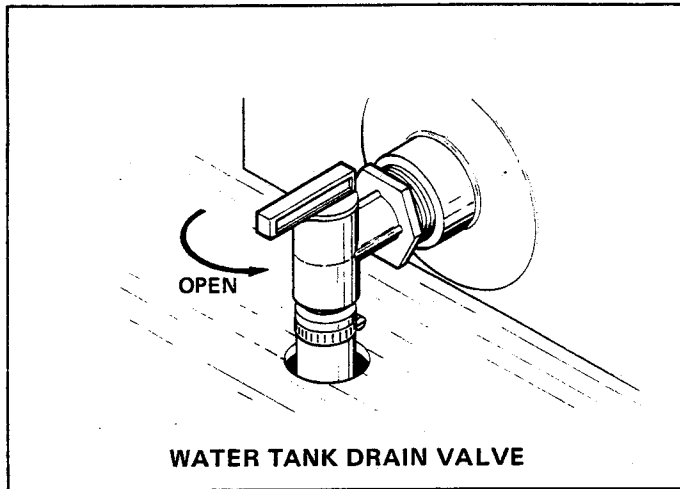
WATER PURIFIER

The optional water purifier is designed to provide clear, good-tasting, bacteria-free drinking water. It is connected to the cold water line below the sink and attached to a special faucet on the sink ledge. Push down on the lever for a restricted flow of water or lift the lever for an unrestricted, continuous flow. See the manufacturer's instruction booklet for backflushing the purifier element and maintenance.



SANITIZING WATER TANK

Sanitize your unit's water tank before initial use, after a period of nonuse, and whenever the tank is suspected of being contaminated. Open the water tank drain valve. When the water tank is empty, close the valve. Mix 3 gallons of water with 3/4 cup liquid household bleach. Pour the solution into the tank through the gravity fill. Wait 3 hours, drain and flush with fresh, potable water. If chlorine taste lingers, pour 1 quart of vinegar and 5 gallons of water into the tank. Wait several days before draining water. Flush tank with fresh, potable water.



CARE OF SINKS, LAVATORY & TUB/SHOWER

Clean the kitchen sink, lavatory, tub and showerpan with non-abrasive cleaner. Stainless steel cleaner may be purchased at most grocery stores. ABS cleaner, such as Aqua K-7, may be purchased from your Coachmen dealer.

LEAKS

Traveling over bumpy or rough roads can cause pipe fittings to loosen; check pipe fittings regularly for signs of leakage.

DRAINAGE/SEWER SYSTEM

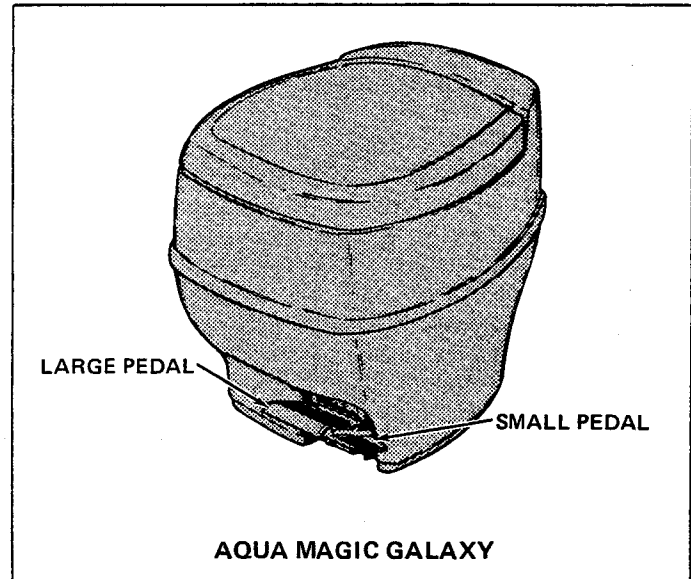
GENERAL

Your motor home will have a Drainage/Sewer system which functions much the same as the one in your home. It includes drain lines from the kitchen sinks, lavatory and tub/shower to the gray water holding tank, and a marine-type toilet which empties directly into a separate waste holding tank. The drainage system also includes vents which carry odors (caused by drain water and waste) out through the roof, while equalizing air pressure. The latter is necessary to maintain a water barrier against odors in the "P" traps and to ensure smooth flow and escape for your drainage system.

TOILET

Coachmen installs an Aqua Magic Galaxy toilet. The Aqua Magic Galaxy has two pedals near the front base. Before initial use and after emptying the holding tank, flush the toilet. When the bowl is filled, pour in an 8-ounce bottle of Aqua Kem concentrate then flush the toilet again.

To operate the Aqua Magic Galaxy, step on the small pedal to add water to the bowl. When the desired amount has entered, release the pedal slowly. To flush, step on the large pedal until the water swirls, then release the pedal slowly.



CARE OF TOILET — Use Aqua Bowl Cleaner as directed. DO NOT use highly-concentrated or high-acid household cleaners (NO SCOURING POWDER) to clean the bowl. If the slide valve does not move freely, apply silicone spray.

HOLDING TANKS

A gray water holding tank is for kitchen sink, tub/shower and lavatory water; a waste holding tank is for the marine toilet. Each should be emptied frequently, always in a specified dumping station. Most campgrounds are equipped with dumping stations, often at each campsite; many service stations also have waste dumping stations.

EMPTYING HOLDING TANKS — Be certain your vehicle is level or sloped toward the termination outlet, since emptying of holding tanks depends upon gravity. Remove the sewage drain hose (Figure 10) from its storage area in the unit's side. Remove the cap from the termination outlet and connect the sewage drain hose. If you leave the hose connected to the termination outlet when you are camped, DO NOT open the termination valve until you want to empty the holding tank. The system is not like your plumbing at home, where waste is flushed directly into the sewer system. Instead, if the valve is left open, only liquid waste may drain out, causing solids to collect and harden in the bottom of the holding tank.

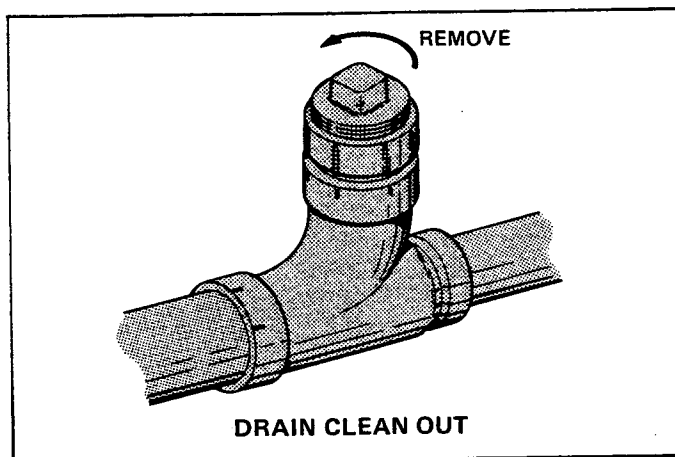
To drain either holding tank, pull out the dump valve slide handle (Figures 11 and 12). Flush or pour about 2 gallons of water through the toilet when emptying the waste holding tank and drain again. This flushes the tank and helps clean the drain hose. Repeat as necessary. Follow the same procedure for a gray water holding tank, although a repeat flushing may not be necessary. When the tank is empty, push the dump valve handle in until it seats. Remove the hose, wash it and replace it in its rear bumper holder. Replace termination outlet cap.

DRAIN PIPING

If your unit does not have a gray water holding tank, it will have a drain pipe which terminates on the road side of the vehicle. To drain, remove the termination outlet cap and attach the drain hose. Some campsites will have septic service for the disposal of gray water at each site. If the site is not so equipped, collect the gray water in a bucket or container and dispose of as required by park rules. To avoid contaminating your water system, paint or mark buckets or other vessels used for fresh water and drainage.

DRAIN CARE

Use clear water to clean exterior pipe surfaces. DO NOT use harsh drain cleaner chemicals or solvents in drains. Drain cleanouts are installed at intervals to facilitate drain cleaning or unclogging.



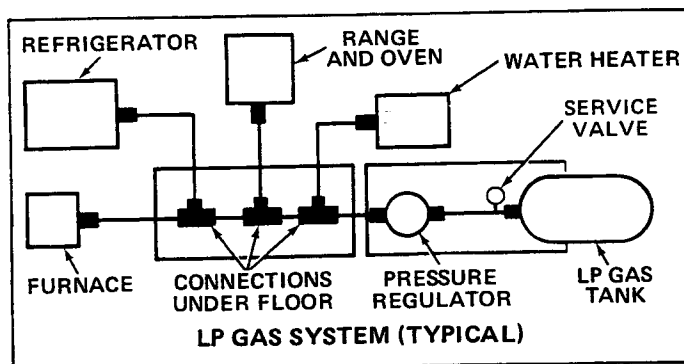
LP GAS SYSTEM

GENERAL

The Liquefied Petroleum (LP) Gas System in your unit furnishes fuel for hot water, heat, cooking, and refrigeration. LP gas, a by-product of the petroleum refining process, provides a portable, efficient and inexpensive source of energy. It is stored in a tank (Figure 13) which is mounted to the chassis of your unit and is reached through an access door. Under pressure in the tank, the LP gas turns to vapor; it is the vapor which burns. Each tank has an automatic 80% stop fill valve, which allows space in the tank for vapor expansion. The high pressure of the vapor in the tank is reduced in two stages through a regulator. The tank pressure will vary with temperature and altitude, but may be 100 to 250 pounds per square inch or more. It is reduced to about 12 psi in the first stage, then to about 6-1/4 ounces in the second stage (the 6-1/4 ounces per square inch also is expressed as 11 inches of water column). The LP gas is propane or a blend of propane and butane, depending upon your locale.

The LP gas system is designed and built to rigid standards and tested before leaving the factory. Your Coachmen dealer also tests the system prior

to delivery to you. Except for simple maintenance and occasionally tightening a connection, you should take your unit to an authorized Coachmen dealer for LP gas problems. The LP tank should always be filled by an authorized LP supplier.



NOTE: Coachmen Industries is not responsible for personal injury or property damage resulting from improperly maintained LP gas appliances and systems.

LP gas burns readily and with intense heat. With proper care and maintenance it is safe and efficient. However, there are certain characteristics of LP gas of which you should be aware. In its natural state, LP gas is odorless, but an additive gives it a distinctive odor so that leaks may be readily detected.

WARNING: For your safety, if you smell gas:

1. Open all windows
2. DO NOT touch electrical switches
3. Extinguish any open flame
4. Close Service valve
5. Immediately call your gas supplier

LP gas is heavier than air and tends to collect in low pockets. As LP gas settles into any closed area, it displaces air and thus could cause suffocation if not detected. It could also create a fire or explosion hazard.

Before using any LP gas appliance, read the respective manufacturer's instruction manual.

CLIMATE DIFFERENCES

The appliances will not function if the LP gas does not vaporize. Butane will not vaporize below 32 degrees F. (the freezing point of water), but propane will continue to vaporize down to 44 degrees below zero. Propane has become the main type of LP gas used in RV's in recent years. Your LP supplier will have the correct type or blend for your locale. If your travels will take you into an area where climate differs, ask your LP dealer for his recommendations. The names of LP suppliers can be found in the yellow pages of your telephone directory under "Gas-Liquefied Petroleum - Bottled & Bulk". Many campgrounds now have LP gas fill facilities, as do some service stations.

To operate any LP gas appliance, the LP gas

tank's Service valve (Figure 13) must be OPEN. When first used, or after a refill, there may be some air in the gas lines which will escape when you open a range burner or similar LP gas valve. The air may extinguish your match or igniter the first time or two, before you get ignition. Remember, too, that when you close the tank's Service valve some of the gas will remain in the lines. To completely bleed the lines of gas, CLOSE the tank's Service valve and light a range burner to use up the excess. When the flame burns out, turn the range burner OFF.

FILLING THE LP GAS TANK

Before having an LP gas tank filled, be certain all burners and pilot lights are off.

Drive your Motor Home to an authorized LP supplier for filling (never remove the tank). He will connect the fill nozzle to the LP gas tank fill valve. When the tank is being filled, the Service valve must be CLOSED and the 20% liquid level gauge must be OPEN. The 80% stop fill valve may close the valve before liquid appears at the 20% liquid level gauge, but if liquid does appear, stop filling immediately; the tank is filled to its LP capacity. When liquid LP gas is no longer visible, close the liquid level gauge. Do not use a wrench to tighten the Service valve or the 20% gauge; they are designed to be closed leak-tight by hand. If you cannot hand-tighten properly, the valve probably needs repair or replacement.

Because there may be some leakage of LP gas when the tank is being filled, we recommend that you drive at least a mile away from the LP gas dealer's before you relight any pilot lights or appliances. DO NOT relight pilots or appliances if the scent of LP gas is present. Open the windows and doors and wait 30 minutes. If the odor is still present, follow the instructions in the LP GAS LINE CHECK section.

CAUTION: Avoid overfilling by insisting that the LP gas tank never be filled beyond the 80% liquid level. If the tank is overfilled, have the LP gas dealer bleed out the excess. Overfilling does not allow sufficient space for the liquid to expand. This can produce excessive pressure which can cause LP gas leaks, creating a potential fire or explosion hazard. DO NOT smoke, strike a match or ignite a lighter when the LP gas tank is being filled. A spark or flame could ignite fumes. Be certain all burner and pilot flames are out and the Service valve is closed when filling your vehicle's gasoline tank(s).

LP GAS LINE CHECK

Check the gas line connection at least after each third refill and inspect other connections regularly, at least every 30 days or 5,000 miles of travel. To check, turn off all burners and pilot lights. Open all doors and windows. Open the LP gas tank Service valve and use soapy water, a bubble solution or

approved leak detector to test all line connections. Do not use products that contain ammonia or chlorine. Bubbles indicate a leak. Tighten the connections with two open end wrenches until bubbles stop. If leak persists, contact your Coachmen dealer.

REGULATOR PRESSURE

Check the LP gas regulator at the beginning of each season, or whenever a problem is indicated. Correct line pressure is 11 inches of water column. Your Coachmen dealer or LP gas supplier can perform this check.

LP GAS TANK CARE

After each trip, inspect the LP gas tank. Sand off traces of rust and apply a rust preventive paint. Always use a light color paint, which reflects heat. When the LP gas system is not in use, the Service valve should be closed.

LP GAS REGULATOR FREEZE-UPS

LP gas regulator freeze-up is a problem RV owners can prevent if they are aware of its causes. Freeze-up is usually caused by one of three things: moisture in the tank, an overfilled tank, or a greater vapor withdrawal demand than the tank can deliver at a particular temperature. Freeze-ups occur more frequently in cold weather when equipment can freeze and there is a lower rate of vaporization and a higher rate of demand.

Moisture can enter the tank in the LP gas or through condensation if air is allowed into the tank through an open valve. Avoid these conditions by using moisture-free LP gas and keeping all tank valves closed during storage. If moisture is present, have the tank purged by an authorized dealer and have him add anhydrous methanol; he will know the correct amount for the size of your tank.

An overfilled tank can allow liquid gas, instead of vapor, to flow through the regulator. This can result in erratic regulator delivery pressure, improper appliance operation or burner outage, and possibly frosting of the regulator and LP gas line. This can be avoided by following the previously cited precaution about overfilling.

Liquid gas does not vaporize as rapidly in cold weather, so you may place too great a demand on your tank's capabilities in certain conditions. This can cause a refrigeration effect resulting in frosting of the tank and regulator. Check with your Coachmen dealer or LP supplier about the appliance demands which can be met by your tank at various temperatures. Always have your LP supplier add anhydrous methanol before filling the tank in cold weather.

APPLIANCES AND ACCESSORIES

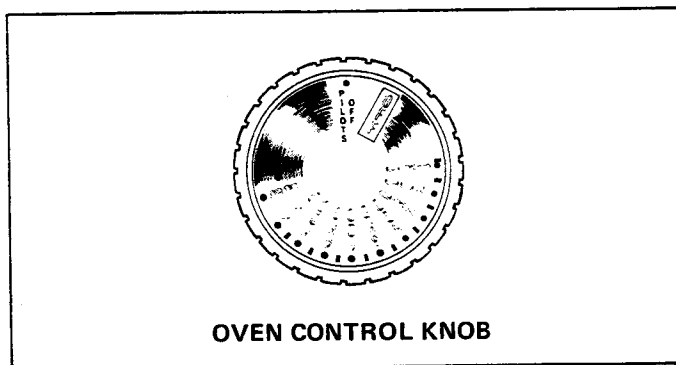
RANGE, RANGE HOOD, OVEN

GENERAL — Your Coachmen motor home

has a four-burner range and an oven. Both are LP gas appliances. The oven will be beneath the range or at eye-level (the optional microwave oven, a 120-volt appliance, is described later in this section). There also is a range hood which has a fan and may also have a light. The light in the microwave and eye-level ovens is in the oven. The latter is operated by a red button on the range control panel. Read the manufacturer's manual for complete details on the operation and care of the range, range hood and oven.

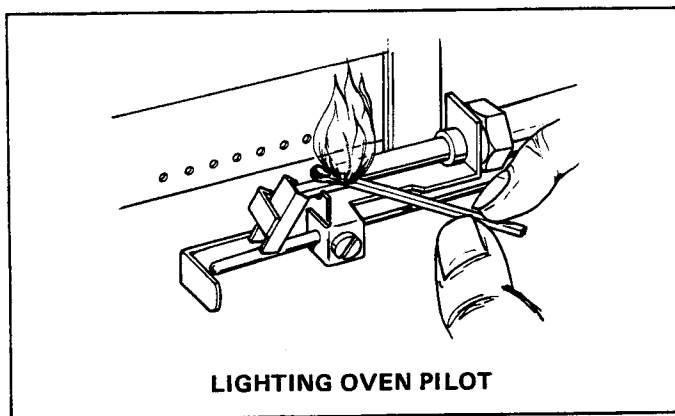
LIGHTING THE PILOTS — There are pilot burners on all LP gas ovens and the eye-level range/oven also has a pilot for the range burners. All pilot lights, including the range burner pilot, are turned on and off by the oven control knob. If you have the eye-level range/oven, you must light both the oven pilot and the range top pilot.

CAUTION: *The oven control knob must be in PILOTS OFF position unless the pilot or pilots are lit. Once lighted, the pilots will continue to burn when the oven control knob is in the OFF position.*



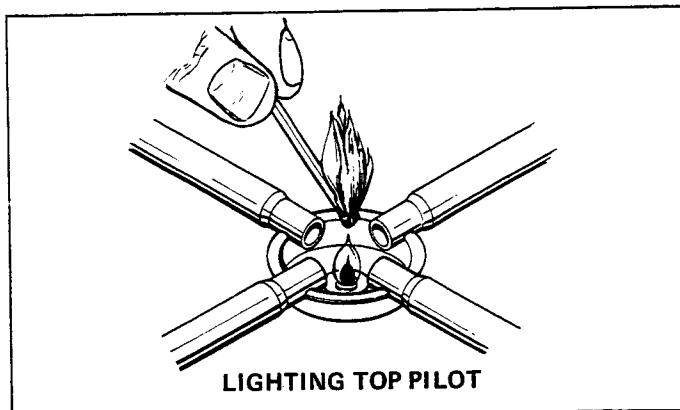
OVEN CONTROL KNOB

To light the oven pilot, be certain the LP gas tank Service valve is OPEN, then depress and turn the oven control knob from PILOTS OFF to OFF. Open the oven door and hold a lighted match next to the constant pilot area (it is near the rear of the oven compartment, just below the main oven burner). Relight the pilot if air in the line extinguishes the flame. When the pilot remains lit, adjust the oven control knob to the desired temperature. If the oven is part of the eye-level model, light the range burner pilot before lighting the oven pilot.

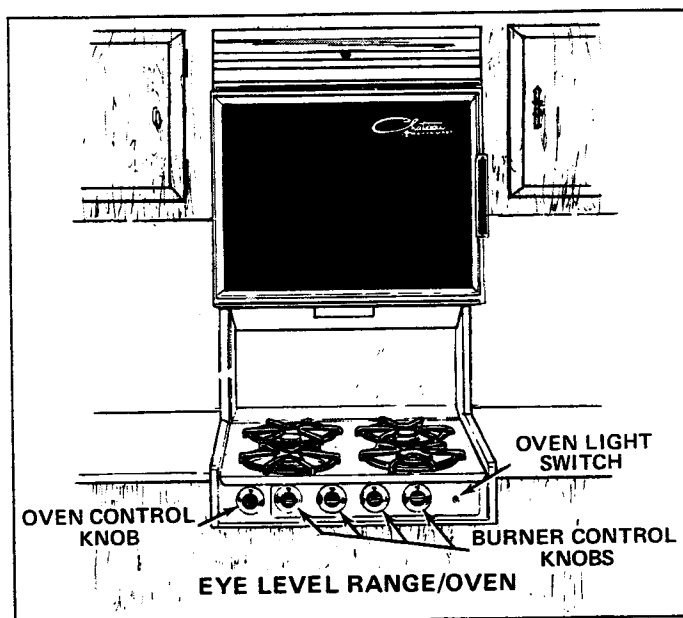


LIGHTING OVEN PILOT

To light the range burner pilot (eye-level range/oven models only), lift the main top panel and touch a lighted match to the pilot. Turn a range control knob full ON; if the burner lights, the pilot is operating properly.

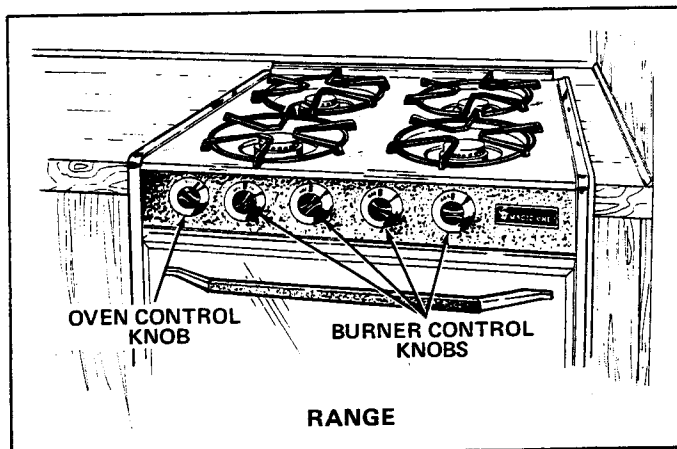


LIGHTING TOP PILOT



EYE LEVEL RANGE/OVEN

LIGHTING THE RANGE — Be certain the LP gas tank Service valve is OPEN. Light a match and hold it to burner then turn burner's control knob ON. Adjust the burner flame with the control knob.

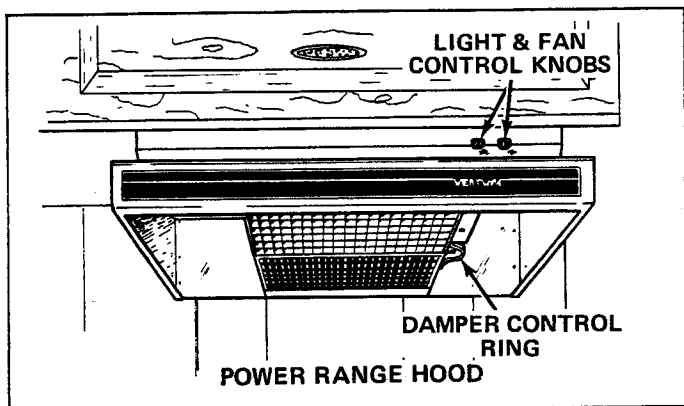


RANGE

CAUTION: When using the range burners or oven, open a window or vent. DO NOT use range and/or oven to heat the interior of your unit. Failure to heed these cautions could result in asphyxiation.

BROILER — Your oven is equipped with a broiler. To use it, light the oven and set the control knob to "B". Place the broiler pan in the area below the oven burner. Do not place meat too close to the flame, the fat may ignite. Use foil only as recommended; never cover the holes in the broiler pan or the air openings in the oven bottom with foil. Always remove the broiler pan as soon as you have finished broiling. If the pan is not removed and the oven is used, the grease may bake onto the surfaces or it may ignite.

RANGE HOOD — Your unit will have a 12-volt power range hood with a fan and light or fan alone, each controlled by a knob on top of the hood. The eye-level range will have the fan alone. To operate, pull the ring on the right side of the filter to release the damper; the damper will open when the fan is on. Turn fan ON to draw smoke and cooking fumes out of the unit. To secure the damper for travel, push the ring in.



CARE OF RANGE AND OVEN — Allow the range top to cool, then clean it with hot, soapy water. Use a damp cloth to clean chrome surfaces. Grease splatters, which may bake onto the surfaces, should be wiped off before they have time to harden. Use chrome polish to remove stubborn stains. Use a toothpick to clean clogged burner orifices. DO NOT use metal objects, such as an ice pick or wire to unclog burners. They may distort the opening and adversely affect burner operation.

Clean the oven with commercial cleaner after each trip, or as necessary. DO NOT apply cleaner to aluminum gas tubing, thermostat sensing bulb or electrical components.

CARE OF RANGE HOOD — For metal surfaces, use the same procedure as for the range top. Clean the plastic light cover by removing and washing it. To clean the filter, push slot located in center front of screen and pull down. If not greasy, simply tap the filter to shake out the dirt. If the filter is greasy, run hot, soapy water over it until grease

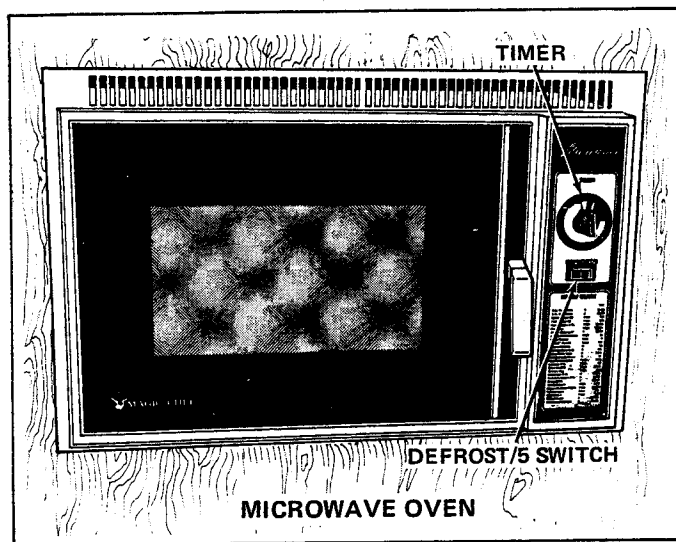
dissolves. Allow the filter to drain and dry then replace by positioning the flanges and push into place. Clean fan and motor surfaces frequently to remove grease.

MICROWAVE OVEN — The optional microwave oven is a 120-volt appliance used to cook, defrost or simmer foods in less time than other cooking methods. The control panel has a timing device, a defrost switch and a menu guide. When the door is opened, the interior light will automatically switch on. You can operate the microwave oven by connecting it to a regular 120-volt receptacle or to the extra kitchen receptacle in units so equipped. The extra kitchen receptacle is powered by either the auxiliary generator or auxiliary Shoreline.

To cook, the defrost/5 switch must be OFF unless otherwise recommended. Turn the timer to the recommended time (if you are cooking for less than one minute, turn the timer past one and then back down). Close the door to begin cooking. The blower will start and warm air will be exhausted through the top of the oven. If you open the door while cooking, the blower and timer will shut off. When you close the door, both will resume. When the cooking time is reached, the oven blower and light will turn off.

To defrost, push the defrost/5 switch ON. Set the timer according to recommendations. Put the frozen food inside and close the door.

To simmer, the defrost/5 switch must be ON. Follow the instructions listed in your cookbook.



CAUTION: Popping corn is not recommended as a use of the oven. Any excessive overcooking of food may cause the food to ignite. Be sure the timer is set at zero when the oven is not in use.

CARE OF MICROWAVE OVEN — Clean the outside and inside with a soft cloth, mild detergent and warm water. Thoroughly wipe the top, sides, shelf and back walls of the inside. Rinse well. Wipe spills off the inside every time you use the oven.

To replace oven bulb, unplug the oven, loosen the screw on the rear access panel and open. Use a 25-watt "bayonet base" bulb. Fasten the rear panel and plug the oven in.

WATER HEATER

The water heater is an LP gas appliance capable of heating 6 gallons of water to a preset temperature. It will fill automatically either from the fresh water tank or when the system is connected to a "city" water faucet. When filling the fresh water tank, open a hot water faucet briefly with the pump switch ON to allow the water heater to fill.

LIGHTING PILOT — Open the LP gas tank Service valve. Turn the gas cock knob to OFF. Always wait 5 minutes to allow LP gas which may have collected in the burner compartment, to dissipate. Your water heater will be equipped with a Robertshaw "UNITROL" thermostat (Figure 14), or the ITT General Control thermostat (Figure 15).

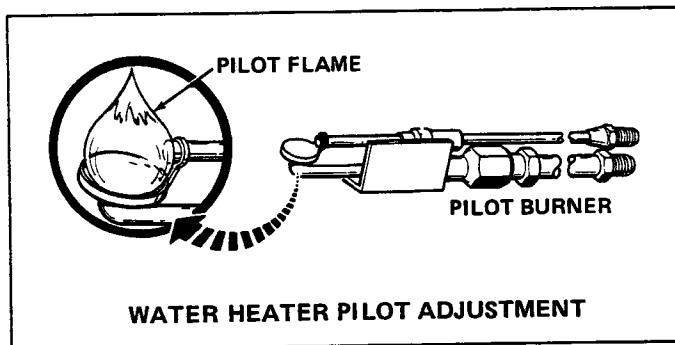
ROBERTSHAW "UNITROL" THERMOSTAT — Turn the gas cock knob counterclockwise to PILOT. Press and hold the reset button while you apply a lighted match to the pilot burner. Release the reset button after pilot has burned for 1 minute (repeat procedure if pilot goes out). Turn the gas cock knob to ON.

ITT GENERAL CONTROL THERMOSTAT — Turn and hold gas cock knob to PILOT position as you hold a lighted match to the pilot burner. Release the gas cock knob after 1 minute (repeat procedure if pilot goes out). Turn the gas cock knob to ON.

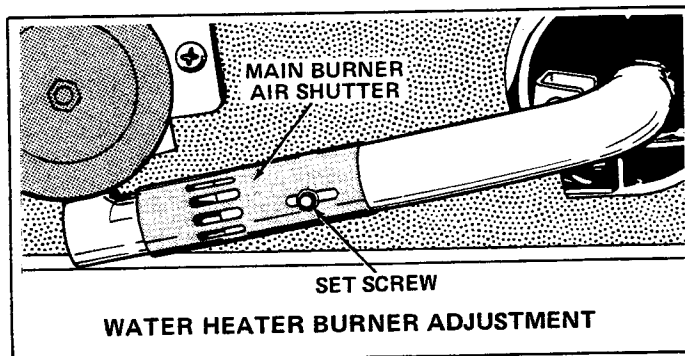
TEMPERATURE CONTROL — Adjust the Temperature Control Dial (UNITROL) or the Temperature Selector Lever (ITT) to the desired temperature as marked on the control.

NOTE: The main burner will light automatically and burn as needed to maintain the temperature you have selected. It is a good idea to light the water heater the night before you leave and turn it off in the morning. The water will remain hot for sometime while you are traveling.

PILOT ADJUSTMENT — Remove the pilot adjustment screw protective cap and turn set screw to adjust the flame so it is 1/2 inch high or has a yellow tip. The procedure is the same for the ITT, but the adjustment screw does not have a cap over it.



BURNER ADJUSTMENT — Loosen the set screw which holds the air shutter in place. Slide the main burner air shutter to the right until the flame has a yellow tip. Slowly slide the shutter to the left until the yellow tip disappears. Tighten set screw.



EXTINGUISHING BURNER — Turn the gas cock knob to OFF.

DRAINING — The water heater will have a drain cock or drain plug, which must be opened or removed in order to drain the water heater tank. Also open all hot water faucets to facilitate drainage. When water ceases to drain close the drain outlet. Because of the location of the drain outlet, about two quarts of water will remain in the bottom of the tank. This can be flushed as described in CARE OF WATER HEATER.

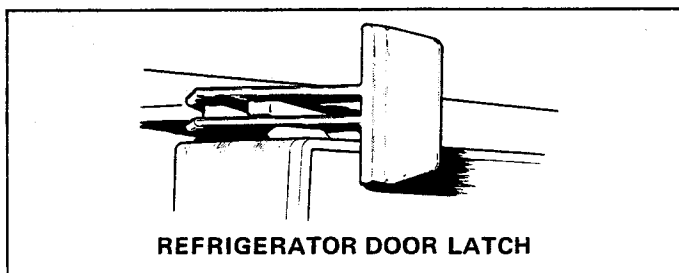
CARE OF WATER HEATER — Be certain the exterior compartment is clean and does not contain combustible materials. Never obstruct the relief valve or vent. If the water heater has a drain cock, use a metal object to scrape away sediment. Periodically drain and flush the water heater tank. After draining, the remaining water can be removed by flushing the tank with water or blowing dry with air. In either case, close all hot water faucets and open the drain cock or plug. The water hose or air hose can be connected to the water inlet or outlet (inside the unit) or to the relief valve port (in the exterior compartment). To use the relief valve port, the relief valve must be removed. Use a pipe or crescent wrench to turn the valve counterclockwise. Attach water or air hose and flush until water ceases to drain. Replace the water inlet or outlet hose or the relief valve and close the drain cock or replace the plug. The water heater is now ready for refilling or storage.

NOTE: The relief valve must be replaced securely. Use pipe compound to assure a water tight seal.

REFRIGERATOR

GENERAL — When you park your vehicle, even for a relatively short period, the refrigerator must be level since it functions on the gravity flow of chemicals. (If you must stop on an uneven site, turn the selector to OFF.) Use a level on the freezer compartment floor to check levelness. Whenever possible, park the vehicle so the refrigerator side

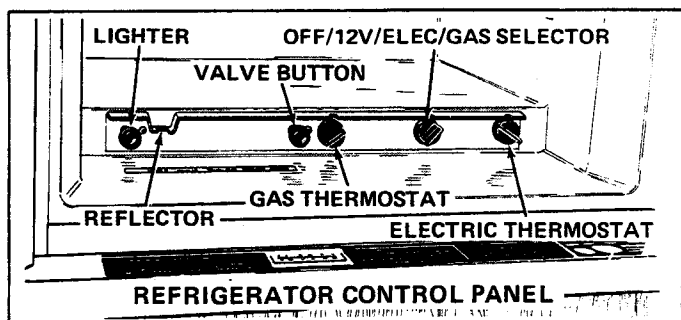
will be opposite the sun. Your refrigerator is powered by LP gas, 120-volt or 12-volt electricity. The control panel is located inside the refrigerator door. Before starting on a trip, use the Shoreline connection to cool the refrigerator the night before. Keep items to be stored in your RV refrigerator in your home refrigerator or freezer until you are ready to leave. This will reduce the cooling load on your RV refrigerator and help keep perishable foods fresh longer. Always store food in sealable containers or suitable wrapping. When traveling, switch to 12-volt electrical operation. Use door latch during travel.



REFRIGERATOR DOOR LATCH

LP GAS OPERATION — Turn the OFF/12V/ELEC/GAS selector counterclockwise to GAS. Pull the valve button out while pushing lighter button in. Repeat this until ignition is observed through the reflector. Turn the gas thermostat to the highest number on the dial. Later adjust temperature to meet your cooling requirements.

ELECTRIC OPERATION — The refrigerator operates on 12-volt or 120-volt electricity. The refrigerator is the only 12-volt appliance which does not draw power from the converter. Even with the Shoreline connected the refrigerator's only source of 12-volt power is the auxiliary battery. When parked at a campsite, switch to LP gas or to 120-volt electricity to conserve your battery. Make certain the refrigerator power cord, reached through the exterior access door, is plugged into the 120-volt receptacle, located in the outside compartment. Be sure the breaker is ON.



— Push, then turn the OFF/12V/ELEC/GAS selector to the source of power desired, either 12V or ELEC (120-volt). Turn the electric thermostat to the highest number on the dial. Later adjust temperature to meet your cooling requirements.

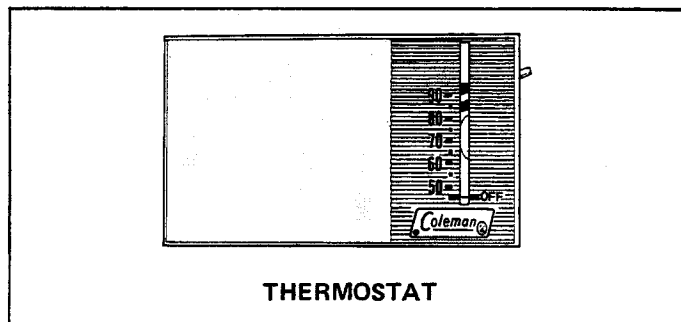
CARE OF REFRIGERATOR — Remove food and ice after each trip. Clean interior with warm

water and liquid dishsoap. Wipe dry with soft, dry cloth. DO NOT use abrasive cleaning material; it will scratch interior surfaces. Prop the door open during periods of nonuse.

To defrost refrigerator freezer, remove frozen food and ice. Turn off the thermostat. Place a pan of hot water inside the compartment to speed up the defrosting process. Dry the interior with a clean cloth.

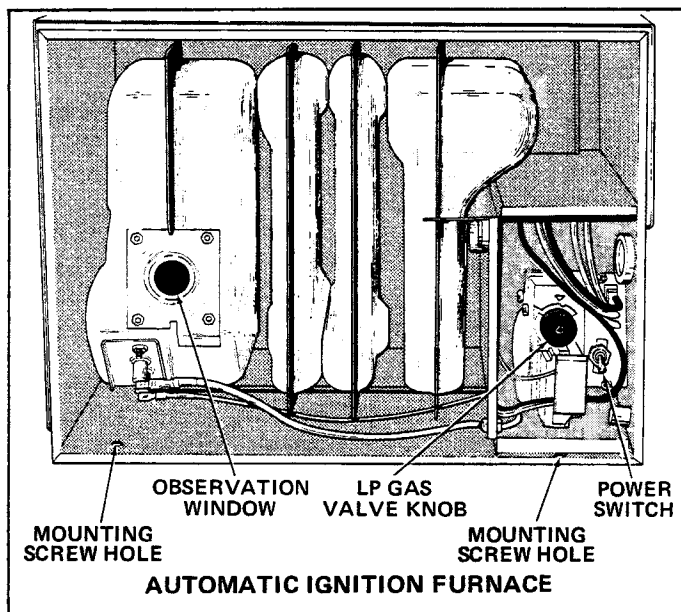
FURNACE

GENERAL — The RV furnace is an LP gas appliance. It is an automatic ignition model controlled by a wall thermostat. Heat is circulated through a duct system.



THERMOSTAT

NOTE: It is important to remember that although the furnace's heat source is LP gas, the blower operates on 12-volt electricity. DO NOT operate the furnace for prolonged periods unless the converter or automotive alternator is supplying 12-volt power. You could run down your RV battery.



AUTOMATIC IGNITION FURNACE

FURNACE IGNITION — When igniting the furnace, be certain the LP gas tank's Service valve is OPEN. To remove front panel of furnace, press down on silver tab and pull panel outward. Set wall thermostat, power switch and gas control knob ON.

Move thermostat up until the blower begins to operate. Allow 20 seconds for the furnace to light. In cold weather, it may take up to 2 minutes or more for ignition. When lit, replace front panel and set thermostat to desired temperature.

If the furnace doesn't light, set thermostat to OFF; wait 30 seconds and repeat lighting procedure.

NOTE: If the furnace doesn't light after 3 attempts, turn OFF gas control knob, power switch and wall thermostat, then contact your Coachmen dealer. DO NOT attempt to repair or adjust the furnace yourself.

CARE OF FURNACE — Routine maintenance is suggested before lighting the furnace prior to each heating season. Clean the circulating air blower, the inside of the furnace casing and remove any contamination. Check all piping joints with a soap solution to detect leaks. The control compartment must be kept clean at all times. Check furnace Inlet/Exhaust Cover (Figure 16) on the outside of your unit periodically to be certain it is free of objects which might block the openings.

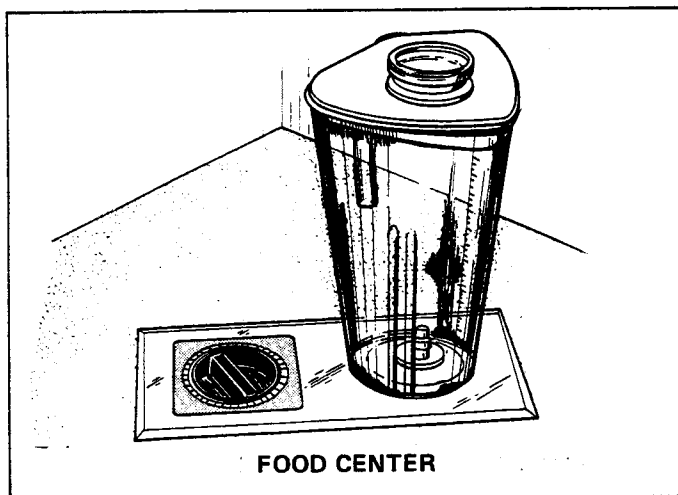
NOTE: Portable fuel burning heating appliances should not be used for comfort heating in the living area of your Coachmen unit.

FOOD CENTER BLENDER

The optional food center blender operates on 120-volt electricity. It consists of a power unit, six-speed control and blender.

Place the blender into the blender receptacle. Turn clockwise to lock into place. Place food into the blender. NEVER operate the blender unless the lid is firmly in place. Turn the control dial to the desired speed.

Your food center can also mix, shred, grind or slice food with additional attachments which are available from a Nutone food center dealer.

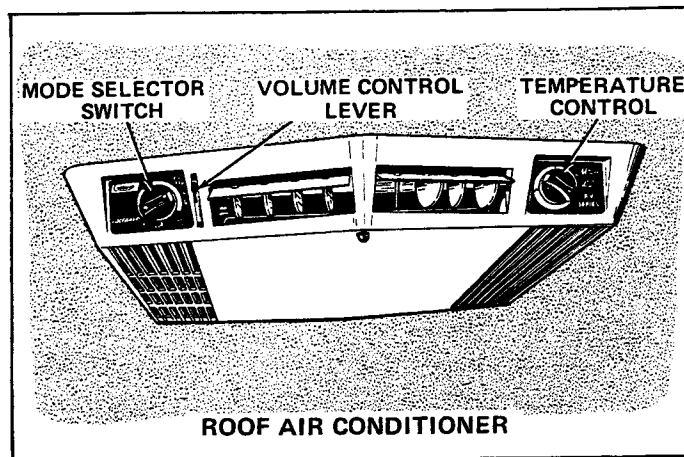


ROOF AIR CONDITIONER

GENERAL — If you did not order the optional roof air conditioner at the time of purchase, your

unit is wired so that one can be added. Just order it from your Coachmen dealer. The roof air conditioner will operate ONLY on 120-volt electricity.

CONTROLS — The roof air conditioner is controlled by a panel on the portion of the appliance which is attached to the ceiling inside your unit. Turn the control knob clockwise for colder air and counterclockwise for warmer air. You can adjust the air volume by sliding the volume control lever up or down.



MODE SELECTOR SWITCH — You can select FAN ONLY or COOLING with the Mode Selector Switch. FAN ONLY is used to recirculate and filter the air inside your unit. The fan and filters operate during each mode as well, but on FAN ONLY there is no cooling function. To cool the air, turn the selector switch to the desired fan speed within COOLING function and turn the temperature control to the desired coolness. For fastest cooldown, turn the air volume control lever to maximum output.

CAUTION: After turning the air conditioner off, allow 3 to 5 minutes before returning the selector switch to COOLING.

CARE OF AIR CONDITIONER — Remove and clean the filter at least once every two weeks if it is used extensively. Wash filter with soap and water. DO NOT operate the air conditioner for extended periods without a filter.

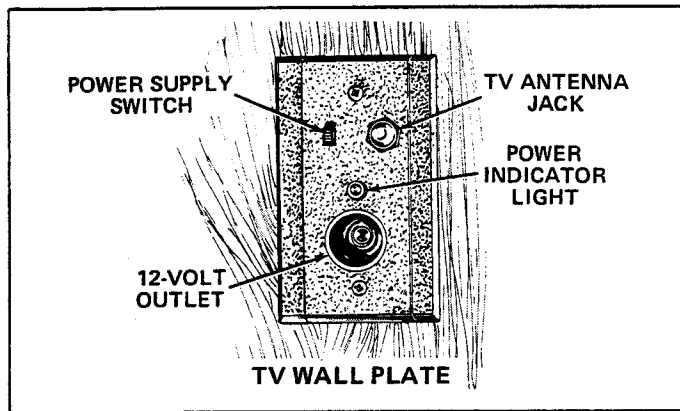
AM/FM/MPX STEREO RADIO AND 8-TRACK TAPE PLAYER

The tape player is equipped with an automatic head cleaner. Occasionally you will have to clean oxide off the tape playback gear, capstan shaft and the automatic track selector. To activate the capstan, depress the switch (located next to the capstan) with the eraser end of a pencil. Use a cotton swab, moistened with isopropyl alcohol, to clean the playback head, capstan shaft and the automatic track selector.

CAUTION: DO NOT use carbon tetrachloride to clean components of the tape player.

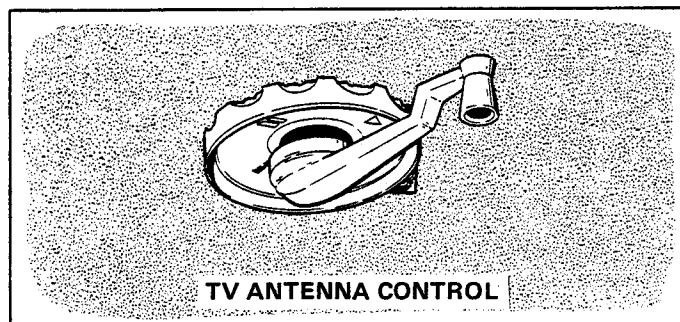
TV ANTENNA

If you plan to use a television set in your Coachmen unit, an optional antenna will improve your reception. A coaxial connection for the antenna cable from your TV set, and a switch which turns on the amplifying system, are mounted on a wall plate. A light indicates when the power outlet switch is on. The plate also may include a 12-volt receptacle for TV sets especially designed for that type of energy.



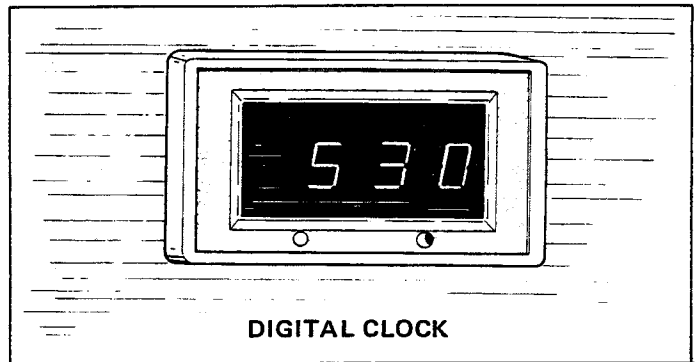
Simply turn the antenna crank handle in the UP direction until some resistance is felt. Pull down the rotating knob to disengage it from the ceiling plate and turn it until you find the best sound and signal.

Always lower the antenna before moving your unit. Turn the rotating knob so that its pointer lines up with the ceiling plate pointer. Turn crank handle in DOWN direction until some resistance is felt. Turn off the power switch.



DIGITAL CLOCK

A dashboard-mounted digital clock is optional. To set the clock, obtain the correct time from an accurate source, such as a telephone time service, and use a watch with a sweep second hand to record the exact time of the tone. Insert a wooden toothpick or similar object (DO NOT use a metallic object) into the left hole on the front of the clock to adjust the hour indicator. Remove the toothpick when the correct hour appears. Insert the toothpick into the right hole to adjust the minute indicator, removing the toothpick when the preceding minute appears. Set the correct time by reinserting the toothpick into the right hole as the second hand of the watch reaches the exact time of the tone.



MAINTENANCE

GENERAL

Recreational vehicle owners are noted for the pride they take in the appearance of their units. Proper maintenance will do more than keep your Coachmen motor home looking nice, however. It can ensure trouble-free operation and maximum efficiency of the various components and appliances. Failure to properly maintain the vehicle or its components may constitute a breach in your warranty obligation. This section is to assist you in performing preventive maintenance. Negligence, misuse or installation of unauthorized equipment could affect the operation of your unit and may void your warranty. See the various manufacturers' manuals for specific maintenance instructions.

ROOF

Your unit is equipped with a one-piece roof which does not require maintenance, other than washing and waxing. Coat awning rails with silicone. Coat window seams with rubber composition sealant.

BODY

Wash dust and dirt, road tar, bird and tree droppings, insects and other foreign material from exterior surfaces. Use a mild soap and cold or lukewarm water. Apply automotive type wax at least once a year.

CAUTION: To avoid marring body surfaces, DO NOT use abrasive cleaning compound or cloth; DO NOT wipe the surface with a dry cloth; DO NOT wash or wax your unit in the hot sun, wait until the surfaces have cooled.

FRAME

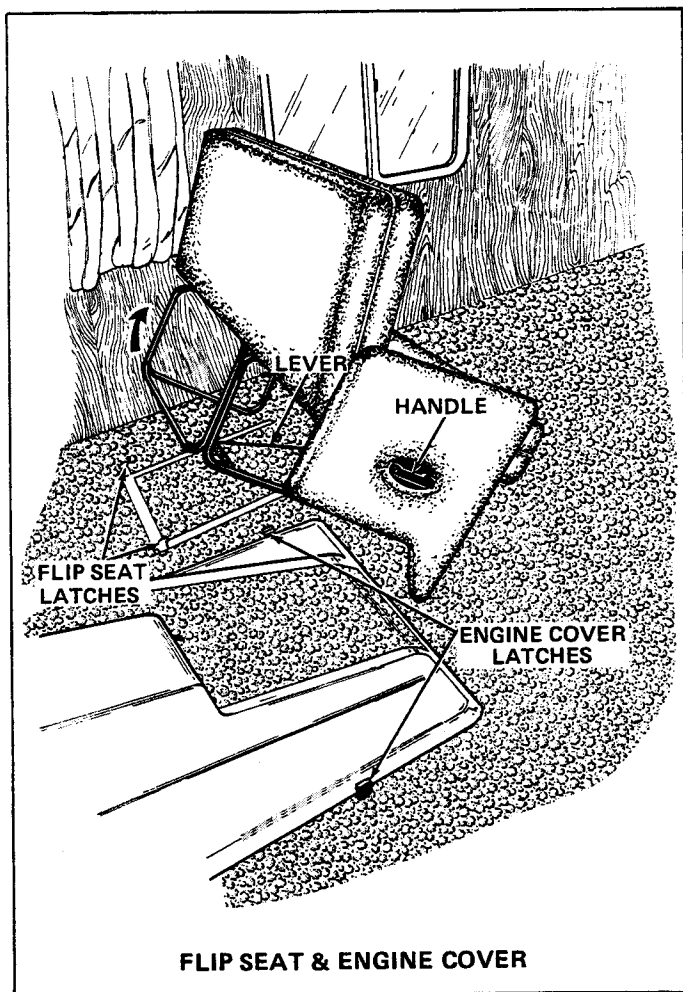
Inspect the frame periodically. Remove dirt and dust and apply rust preventive paint.

AUTOMOTIVE SYSTEM

See your chassis owner's manual for recommended maintenance of the automotive system and components.

The front seat (on front dinette models) flips over to permit easy access to the engine. Remove the table. With the front seat in table setup position,

push down on the lever, which is located beneath the seat. Grasp the seat back and pull toward the rear of motor home. Release lever and pull seat as far as possible.



To remove the engine cover, release the two latches; one is beside the driver's seat and the other under the flip seat.

Pull the engine cover toward the rear of the unit. To replace the cover, push toward the unit's front and fasten latches.

Return seat to upright position by pushing toward the front of the unit and lowering; pull up on lever beneath the seat to lock seat bracket into place.

CAUTION: The interior engine access cover must be properly sealed to prevent engine exhaust from entering the vehicle. Make certain that carpeting or other materials do not interfere with the installation of the access cover.

STORAGE

GENERAL

You should perform the following procedures if you will not be using your unit for an extended period.

LP GAS SYSTEM

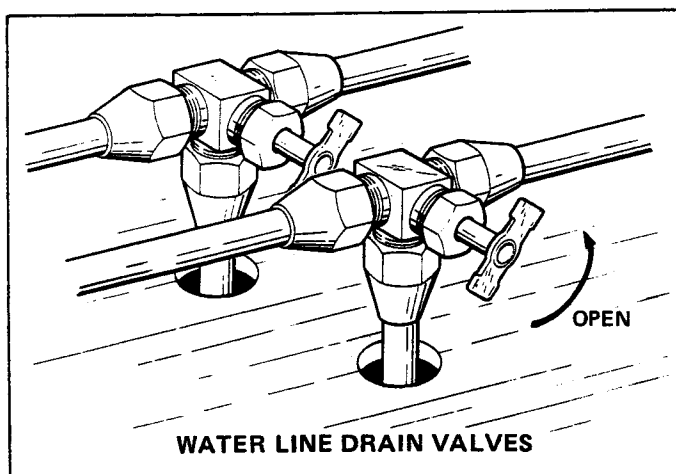
Close the LP gas Service valve. Extinguish all pilots and close all LP gas valves. Light a range burner to consume any gas remaining in the lines. When the flame burns out, turn the range burner OFF.

WATER HEATER

Drain the water heater by opening the drain cock or removing the drain plug and opening all hot water faucets and relief valve. Close all valves and faucets when the water ceases to drain. To flush or blow dry, see CARE OF WATER HEATER in the APPLIANCE section.

WATER TANK

Turn ON water pump. Open all water faucets. Open the water tank drain valve and the hot and cold water line drain valves. Water line drain valves are inside, near the water tank. When the tank is empty, close all faucets and drain valves.



WATER PUMP

When the water tank and water lines have been drained, remove the outlet hose from the pump. Turn the pump ON, allowing it to pump out any remaining water, usually about a cupful. Use a towel or rag to absorb this water. If you wish to blow the lines out with air, apply the air nozzle to the system where the outlet hose has been removed. Be sure all valves are open. You can reattach the outlet hose now or later. The pump is now ready for summer or winter storage.

FURNACE

To shutdown the furnace for storage, turn OFF the gas control knob, the power switch and the thermostat.

ELECTRICAL SYSTEM

Turn OFF all circuit breakers at the electrical Service panel.

EXTERIOR

Store your unit in a garage or other shelter, if possible, or cover with a tarpaulin or plastic.

INTERIOR

Close and secure all doors and windows. Open a roof vent or window slightly to allow circulation, but be certain interior damage does not occur during inclement weather.

WINTERIZATION

GENERAL

You should make special preparations for storing your unit in winter. All systems, components and appliances should be inspected and repaired prior to storage. Winterize the unit before removing the batteries.

Drain the fresh water system and water heater as described in STORAGE section, then pour 6 gallons of approved, non-toxic RV antifreeze into the gravity water fill. This will allow you to winterize the fresh water, drainage and sewer systems, and the water heater. Follow the checklist below.

CAUTION: *DO NOT use automotive anti-freeze in the fresh water system; it is poisonous.*

FRESH WATER SYSTEM can be winterized by briefly opening all faucets and turning the pump ON, with all of the sink and tub/shower drains closed. Turn the faucets off when antifreeze flows out. Turn water pump OFF. Water pump should be prepared as described in STORAGE section.

WATER HEATER can be drained by opening the drain cock or removing the drain plug and opening all hot water faucets and the relief valve. Although about two quarts of water will remain, there is ample room for expansion if it freezes. However, this water can be flushed as described in the CARE OF WATER HEATER in the APPLIANCE section, and antifreeze may be added if desired. The antifreeze can be added directly to the water heater tank or after the water system has been winterized, by opening a hot water faucet and the drain cock or plug. Close the drain cock or plug and the faucet when antifreeze appears at the drain outlet.

AQUA MAGIC TOILET should be flushed until antifreeze is present in the bowl. Turn the flush knob and insert a round object such as a soft drink bottle, into the bowl outlet. Slowly release the knob until the blade holds the object in place. This will prevent water residue from being trapped inside the bowl where it could freeze. Leave the object in place all winter.

DRAINAGE SYSTEM should be winterized by removing the sink and tub plugs to allow antifreeze to circulate through the lines. Pour an additional 2 cups of RV antifreeze into each drain.

HOLDING TANKS should be drained and rinsed before the antifreeze is allowed to run into them. The dump valve shafts should be inspected and lubricated if needed. Be certain the dump valves are closed.

SHOWER HEAD should be drained and filled with winterizing solution.

LP GAS REGULATOR should be covered to keep moisture out of the vent. LP gas system should be prepared as described in the STORAGE section. Containers should have anhydrous methanol added by an LP supplier.

BATTERIES should be recharged and water added, if needed. Disconnect cables and store in a cool, dry place. Check regularly and recharge as needed.

NOTE: *DO NOT store batteries where they might be exposed to extreme heat or sparks. Be sure area is properly ventilated since batteries give off hydrogen fumes.*

DRAPES should be removed and washed or dry cleaned.

WINDOWS should be masked with newspaper or similar material.

COUNTERTOPS AND CABINETS should be cleaned.

REFRIGERATOR should be cleaned and the doors propped open. Cover exterior panels and roof vents.

FURNACE should be cleaned and exterior vents covered.

RANGE/OVEN should be cleaned and range hood vent should be covered.

ROOF AIR CONDITIONER filters should be cleaned and then replaced and the shroud should be covered.

CHASSIS should be prepared for storage by an auto dealer or service station.

EXTERIOR of the motor home should be cleaned and waxed; locks and hinges should be oiled, and snow accumulation should be removed regularly with a long-handled broom. For prolonged storage periods, the unit can be placed on wooden blocks or heavy duty jacks on a firm, level surface.

TIRES should be removed, partly deflated, hung on a wall and covered to protect them from sunlight, if the unit is placed on blocks or jacks.

NOTE: *Before using your unit after a period of storage, drain the antifreeze from the fresh water system. Prepare for use as described in the Sanitizing Water Tank section, BASIC SYSTEMS section, and Water Tank, STORAGE section.*

FIRE SAFETY

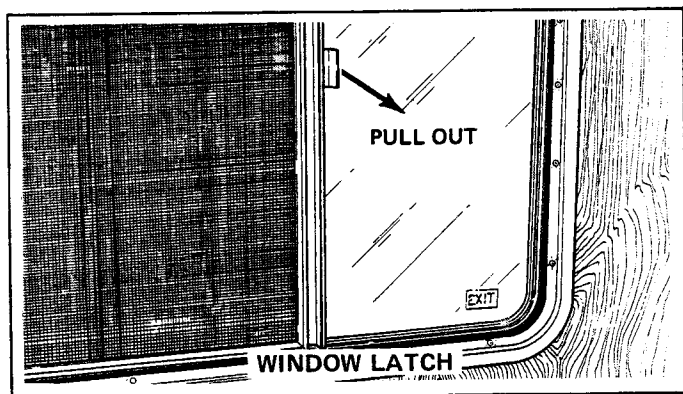
Prevention is the best form of fire safety. Follow the instructions previously listed for the care, maintenance and operation of the various appliances in your vehicle. Make certain everyone in your party is familiar with emergency features of the unit, the locations of exits and the location and operation of fire extinguishers. A chemical fire extinguisher has been furnished with your unit.

Follow the same rules of prevention that you would at home. DO NOT smoke in bed. DO NOT overload the electrical wiring. DO NOT use matches, candles or lighters to look into dark closets or drawers. DO NOT leave food cooking unattended. DO NOT permit children to play with the controls of LP gas or electrical appliances. DO NOT store flammable liquids inside your unit.

If a fire does start, get all members of your party outside. If it is a small fire, use the fire extinguisher. If the fire cannot be extinguished quickly, GET OUT. Close the LP gas Service valve and move a safe distance from the vehicle. Call the fire department. DO NOT use water on the fire and DO NOT re-enter the vehicle until officials declare it safe to do so.

EMERGENCY EXITS

Sliding windows, which can be easily opened, may be used as an emergency exit. Pull the window latch toward you, then slide the window and the screen open. Emergency exit windows are identified by an "EXIT" label on the glass.



VISITING CANADA OR MEXICO

GENERAL

Passports or visas are not required for entry into CANADA or MEXICO. However, tourist cards are necessary for MEXICO if you will be staying more than 72 hours or travel farther than 40 miles from the border. Cards can be obtained at the port of entry or from a Mexican consulate. You should carry your birth certificate, voter's registration card, baptismal certificate or similar proof of identity when entering either country. Naturalized U.S. citizens should carry their naturalization papers or other proof of citizenship. Persons under 18 years of age should carry a notarized letter from their parents or guardians giving them permission to travel in CANADA or MEXICO.

The information in this section is general in nature and subject to change by the Canadian or Mexican government. For specific information, including rules for re-entering the U.S., as well as points of interest and campsites, contact the consulate nearest the point at which you plan to enter the country.

VEHICLES

No special driver's license or permit is necessary in either country, but renew your license if it has or will expire during the trip. Proof of vehicle ownership is required at the border. If you are using someone else's unit, you should have a notarized letter authorizing its use. MEXICO requires a vehicle permit for every self-propelled vehicle. The permit can only be obtained from Mexican customs (Auduana) offices upon presentation of tourist card, vehicle registration, and title or notarized statement from owner.

CANADA requires a Canadian Non-Residential Interprovincial Motor Vehicle Liability Insurance card, which is only available from U.S. agents. All provinces in CANADA require evidence of financial responsibility if visitors are involved in an accident. Limits vary from province to province. Contact your insurance agent for details. Your insurance policy is NOT valid in MEXICO. Temporary insurance must be purchased from Mexican companies whose offices are located near the border.

CB RADIO

CB radio operation in CANADA requires a temporary license which can be obtained by writing Regional Director, Telecommunications Regulation Branch, Department of Communications, 20th Floor, 2085 Union Ave., Montreal, Quebec H3A 2C3, Canada. MEXICO currently prohibits the use of CB radios.

HUNTING AND FISHING

Each province has its own laws and license requirements. You must provide a written description and the serial number of each gun at the border. Revolvers, pistols and fully-automatic firearms are prohibited in CANADA. A license must be obtained from the province in which you intend to hunt or fish. Further information can be obtained by writing the Department of Lands and Forests, Wildlife Branch, in the province you intend to visit. Hunting and fishing laws in MEXICO are extremely complicated. Request further information from Secretaria de Comunicaciones, Estados Unidos Mexicanos, Mexico DF.

DOGS AND CATS

CANADA requires a certificate, signed by a licensed veterinarian in the U.S. or CANADA, attesting that a dog has been vaccinated for rabies in the past 12 months. The certificate must contain a description of the dog and date of vaccination. Puppies under 3 months old need no certificate. There is no restriction on the entry of healthy cats.

A certificate, signed by a licensed veterinarian, describing the pet and attesting that it has had a rabies shot in the past 6 months, is required in MEXICO. A fee is charged for the required verification of the certificate by a Mexican consulate.

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) _____
POLICE	PHONE	(AC) _____	PHONE	(AC) _____
FIRE	PHONE	(AC) _____	PHONE	(AC) _____
INSURANCE AGENT	NAME	_____	NAME	_____
	ADDRESS	_____	ADDRESS	_____
	PHONE	(AC) _____	PHONE	(AC) _____

TRAVEL RECORD

DATE	MILEAGE	SERVICE SHOP NAME & ADDRESS	DESCRIPTION OF SERVICE

TRAVEL RECORD

[illegible]

MAINTENANCE RECORD

[illegible]

APPLIANCE IDENTIFICATION FORM

Should your unit or one of the appliances require warranty service, you will have to identify the manufacturer, model designator and serial number. Fill in this form as soon as possible. It will help you meet our identification requirements. Depending on your unit, certain items listed below may not be offered as either optional and/or standard. Most of this information can be found on the Recreational Vehicle Data Card attached to the inside of one of the kitchen cabinets.

EQUIPMENT	MANUFACTURER	MODEL DESIGNATOR	SERIAL NUMBER
Motor Home Body	COACHMEN		
Motor Home Chassis			
Keys — Door			
Exterior Storage			
Other			
Range/Oven			
Furnace			
Toilet			
Converter			
Refrigerator			
Electric Water Pump			
Water Heater			
Roof Air Conditioner(s)			
Automotive Air Conditioner			
Radio			
TV Antenna			
Generator			
Microwave Oven			

SPECIFICATIONS

FUSES

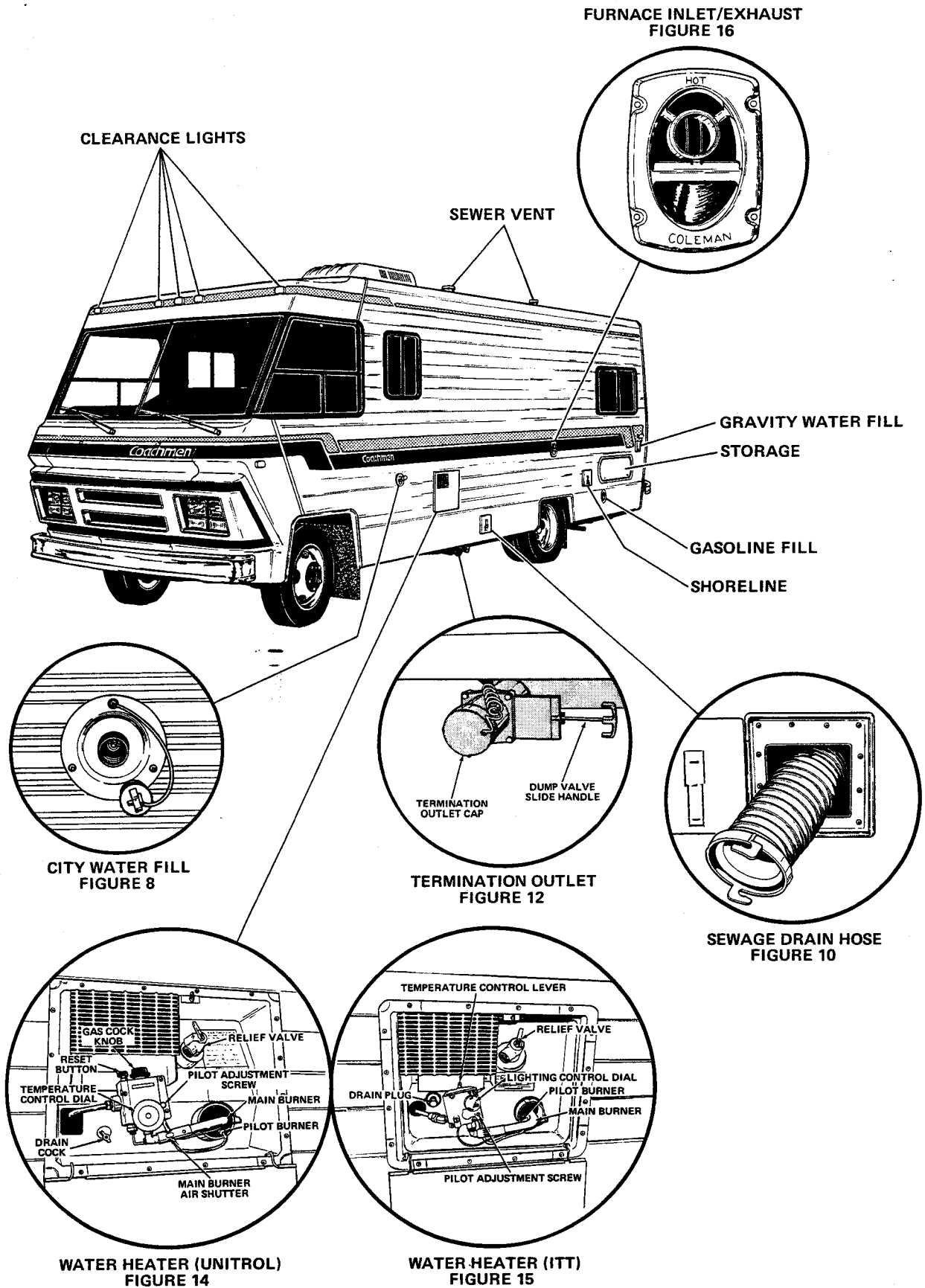
Interior — 15-amp., 12VDC

LIGHT BULBS

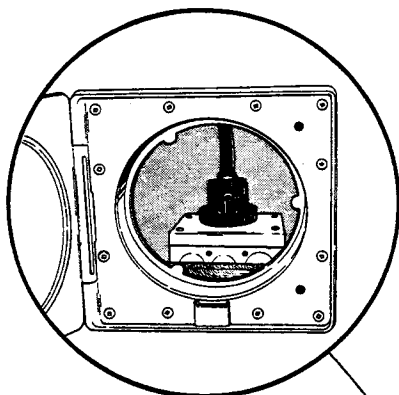
Interior 12VDC (Except dome light
inside driver compartment)

- | | |
|---------------------|--------------------|
| — | 1141 |
| Range Hood | — 25 Watts (12VDC) |
| Turn, Tail and Stop | — 1157 |
| Backup | — 1156 |
| License Plate | — 67 |
| Clearance | — 57 |
| Patio | — 1003 |

MISCELLANEOUS — See the brochure for the exterior dimensions, weight ratings and wheel/tire ratings which pertain to your unit.



**GENERATOR COMPARTMENT RECEPTACLE
FIGURE 5**



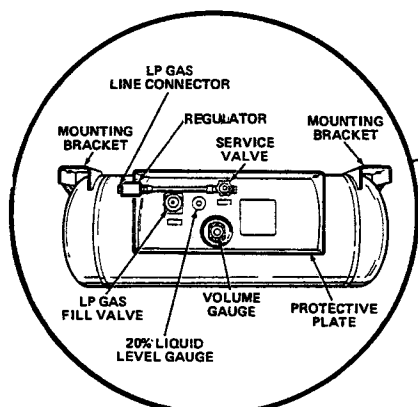
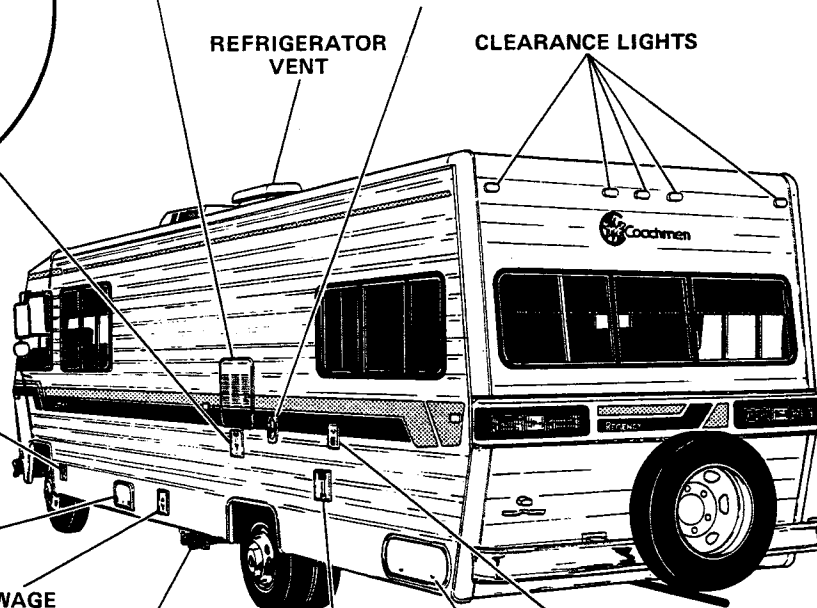
**REFRIGERATOR
ACCESS PANEL**

**FURNACE
INLET/EXHAUST**

**REFRIGERATOR
VENT**

CLEARANCE LIGHTS

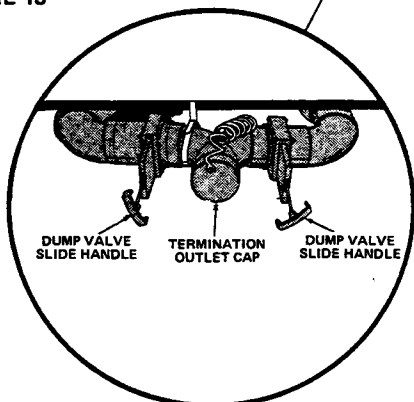
GASOLINE FILL



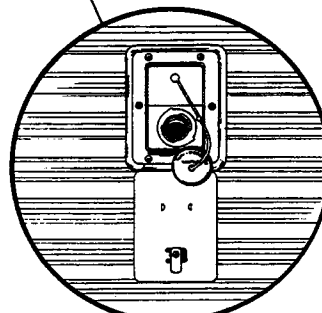
**LP GAS TANK
FIGURE 13**

**SEWAGE
DRAIN HOSE**

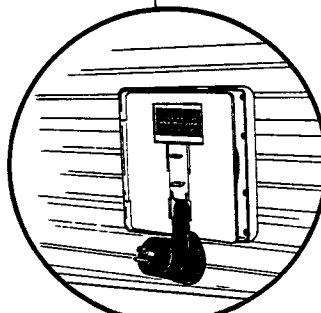
STORAGE



**TERMINATION OUTLET
FIGURE 11**

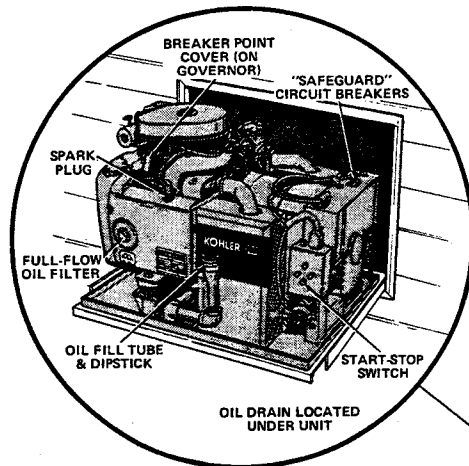


**GRAVITY WATER FILL
FIGURE 9**



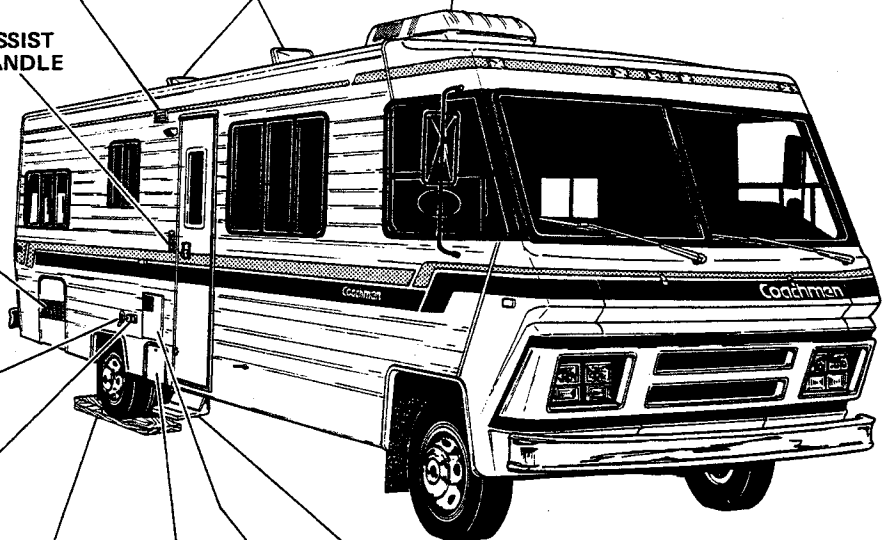
**SHORELINE
FIGURE 4**

COACHMEN MOTOR HOME

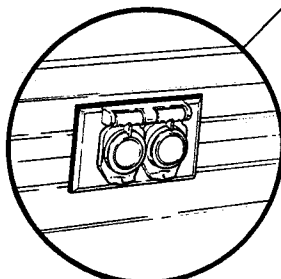


**GENERATOR
FIGURE 7**

RANGE HOOD VENT
ASSIST HANDLE
ROOF VENT
AIR CONDITIONER



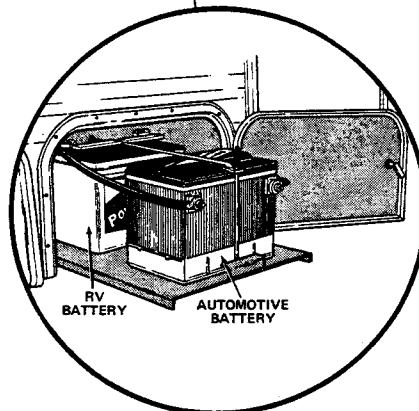
CITY WATER FILL



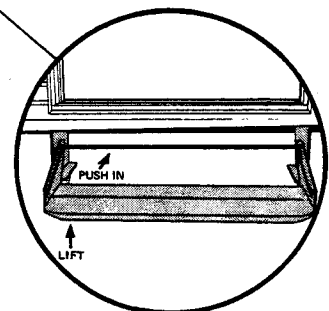
**EXTERIOR RECEPTACLES
FIGURE 3**

STEP LEVELING RAMP
FIGURE 2

WATER HEATER



**RV & AUTOMOTIVE BATTERIES
FIGURE 6**



**TRAVEL STEP
FIGURE 1**

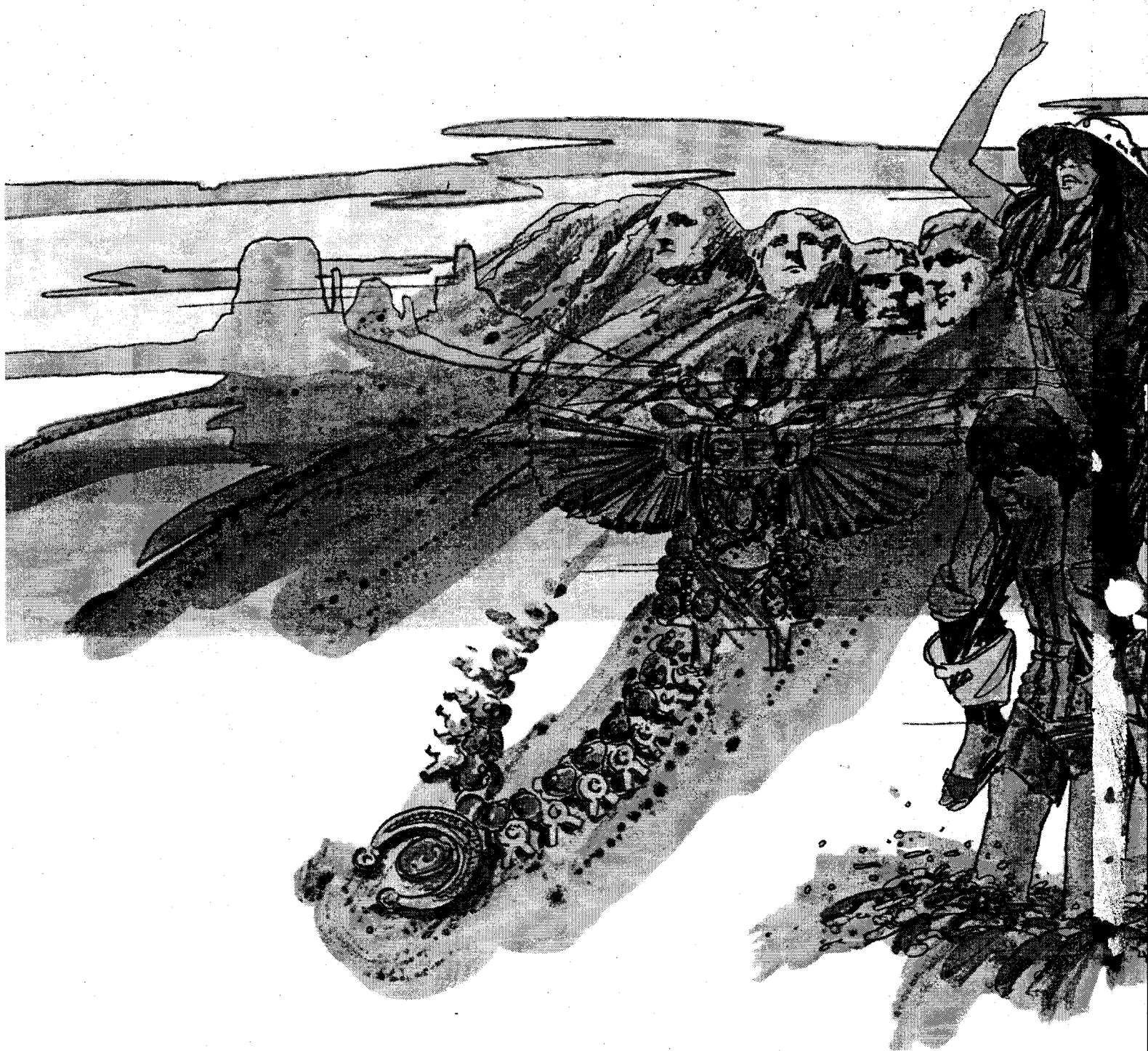
VEHICLES SHOWN ARE FOR ILLUSTRATION PURPOSES ONLY; SOME ITEMS SHOWN ARE OPTIONAL OR MAY NOT BE AVAILABLE ON CERTAIN MODELS

YOU'VE CHOSEN COACHMEN ALL-AROUND VALUE!

As a new Coachmen owner, you've made a sensible choice among recreational vehicles. Your Coachmen is built with care and craftsmanship, and your choice of Coachmen is backed by . . .

- Coachmen Industries, Inc., the world's largest full-line manufacturer of recreational vehicles.
- A coast-to-coast network of happy-to-serve-you dealers.
- Coachmen's famous "Buck-Stopper" customer service. Your Owner Registration Card is your ticket to fast, dependable, one-stop service nationwide and in Canada.
- The International Coachmen Caravan Owner's Club, to bring you the most pleasure in owning an RV.
- Traditional high trade-in value for any recreational vehicle built by Coachmen!

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