

1977



Coachmen
RECREATIONAL VEHICLES

MOTOR HOME

OWNER'S MANUAL

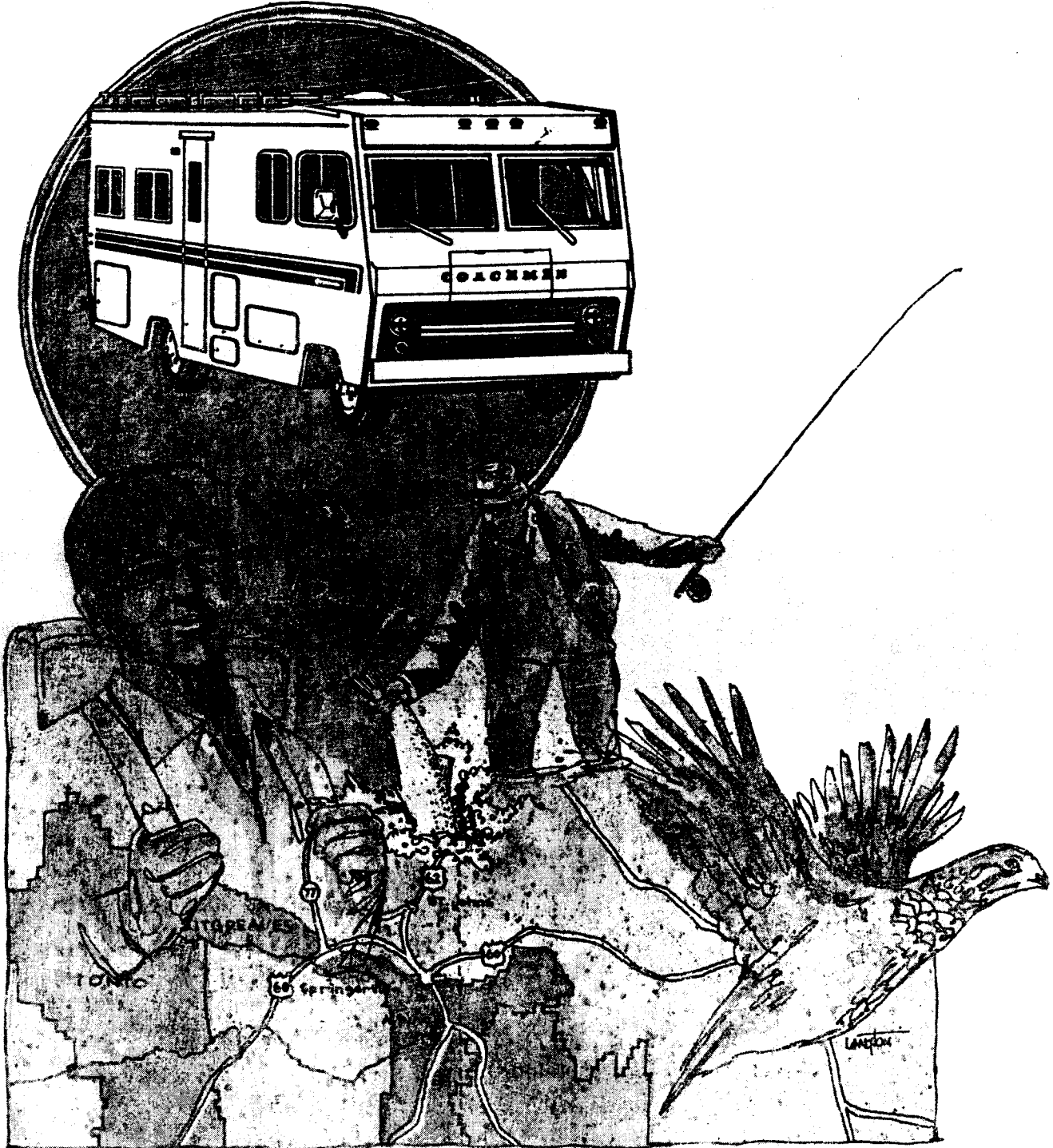


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FOREWORD

Welcome to the Coachmen family. You will experience many hours of fun, adventure, relaxation and enjoyment with your new Coachmen Motor Home.

Many years of experience from owners, dealers and our personal experience have been incorporated into the design and engineering of your unit. Your Motor Home has been built by experienced craftsmen to the rigid specifications of Coachmen Industries. Only the finest components and materials have been used.

The information presented in this manual is intended to provide you with basic instructions which will enable you to operate and maintain appliances, accessories, automotive and RV systems. Read this manual, along with all other manufacturer manuals, thoroughly before your first trip. By so doing, you will enjoy your new Coachmen Motor Home to its fullest extent.

Operating and maintenance instructions pertaining to appliances contained in our manual were obtained from and are being used with 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 and/or obligation.

INSURANCE

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

INTERNATIONAL TRAVEL

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

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

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

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

TRAVEL PREPARATION

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

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

PERSONAL HYGIENE — Toilet paper, soap, wash-clothes, towels, toothpaste, deodorant, and shaving kit.

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

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

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

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

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

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

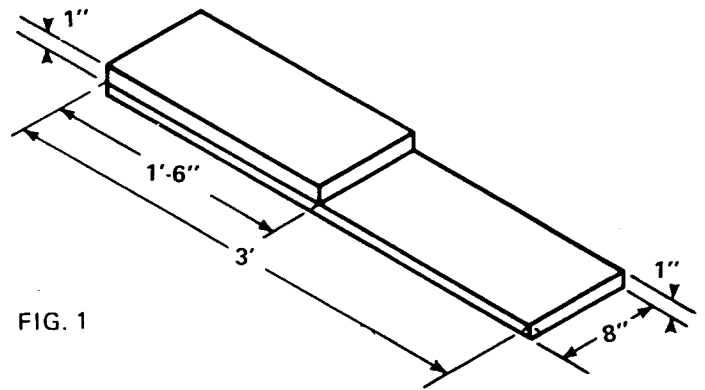


FIG. 1

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

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

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

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

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

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

DRIVING

Remember your new recreational vehicle is longer, wider, taller and heavier than your family car. Your driving habits will have to be somewhat modified in order to compensate for this increase in size. Here are a few basic tips to consider.

SPECIFICATIONS — Know the clearance measurements of your unit as listed in the SPECIFICATIONS section.

TURNING — Because the turning radius of your unit is greater than your passenger car, pull at least 2' further into the intersection before turning. On right turns, this procedure will prevent the rear wheels from bouncing over the curb, parked cars, or pedestrians. On left turns, the unit will swing wide of cars waiting at the cross street of an intersection.

FOLLOWING — Always maintain at least one vehicle length spacing from the vehicle ahead of you. Do not pull up to the slower moving car while you wait for a chance to pass him. He may unexpectedly slow down or stop.

PASSING — When you wish to pass a slower moving car, remember that additional time and distance will be required to safely accomplish this maneuver. Wait until the road is clear of oncoming traffic for at least one-half mile. Always check the rear view mirrors and signal lane change before passing another vehicle. Shift transmission to lower gear range by depressing accelerator pedal briskly. When clear of the other car, signal lane change and return to your original lane.

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

DO NOT rest your foot on the brake pedal while driving. Riding the brakes in this manner may cause abnormally high brake temperatures, excessive lining wear and possible brake failure.

PULLING INTO TRAFFIC — Check for oncoming traffic in all directions. Signal before entering the traffic flow. Accelerate slowly and smoothly. **DO NOT** tromp the accelerator to the floor; jack rabbit starts waste gas.

OVERHEATING — The engine may overheat while climbing and descending steep grades. If your unit's engine should overheat, pull well off the road. Shift to neutral (N) gear and run the engine with your foot resting lightly on the accelerator pedal. If the engine does not cool within 5 minutes, turn it off and find the problem before continuing with trip.

Engine temperature problems may be avoided: climb long grades and descend moderately steep grades in second gear; climb steep grades in first gear; turn off auto air conditioner, if so equipped.

WARNING: *DO NOT exceed 40 mph in 2nd gear or 25 mph in 1st gear — excessive engine speed will overheat the transmission, which in turn may cause the transmission to fail.*

HOLDING ON AN UPGRADE — Use foot brake or parking brake and parking gear to hold the vehicle on an upgrade. Using a driving gear to hold the unit may cause the engine or transmission to overheat. Furthermore, **DO NOT** idle the engine for more than 1 minute with the transmission in gear.

PARKING ON A GRADE — When parking on a grade: apply foot brake; shift the transmission to neutral; apply parking brake; shift to park.

WARNING: *If you do not follow the preceding procedure, you may not be able to move the transmission selector out of parking gear. If this torque lock condition should occur, you may have to have another vehicle nudge yours up the hill while you move the selector out of parking gear to neutral.*

OVERHEAD OBSTRUCTIONS — Tree branches, awnings and other overhead obstructions may damage your unit's roof, equipment and accessories mounted on the roof. Know the height clearance measurement of your unit.

FREEING A STUCK VEHICLE — To pull your unit out of snow, sand or mud, apply slight pressure on

the accelerator pedal and move the gear selector rhythmically between 1st gear and reverse. If possible, keep the front wheels pointed straight ahead. Avoid sharp turns. Once the unit starts to move, do not stop until it is on firm ground.

WARNING: *DO NOT race the engine or spin the wheels, the transmission will overheat and may cause it to fail.*

TOWING — We Do Not recommend towing trailers (boat, camping, travel trailer, etc.) or other vehicles with this unit.

CAMP SITE SELECTION

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

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

FIRE EMERGENCY

DO NOT smoke in bed. **DO NOT** overload the electrical circuits or tamper with fuses, circuit breakers or electrical wiring. **DO NOT** use a match, lighter or candle to look into a dark closet or drawer. **DO NOT** leave meals cooking on the stove unattended. **DO NOT** permit children to play with either LP Gas or electrical appliance controls. **DO NOT** store flammable liquids inside the unit. Plan fire emergency procedures and be sure all members of your group know and understand them. Contact your local fire department for basic fire-fighting instructions.

If a fire erupts, it must be extinguished quickly. A fire extinguisher has been included with your unit as standard equipment and will be found under the kitchen sink, mounted on the cabinet door. If you can not put out the fire with one extinguisher, *get out*. Slide type radius windows may be used as emergency exits. Establish a gathering place outside and at a safe distance from the unit. Telephone the fire department. **DO NOT RE-ENTER THE BURNING UNIT.**

CAUTION: *DO NOT attempt to extinguish an electrical fire with water: a fatal electrical shock may occur. DO NOT attempt to extinguish a grease fire with water: the flames may spread to the counter top and cabinet.*

LOADING

GENERAL — Distribute your cargo load equally from side-to-side. Store heavy items over the rear axle, close to or on the floor. Lighter items may be stored in overhead cabinets. Lash down items which are too bulky to store in cabinets, closets or drawers.

BASIC PROCEDURE — We strongly recommend that you determine whether your unit is loaded prop-

erly. To do this, you should weigh your unit complete with driver, passengers, water, LP Gas and cargo at a local grain elevator, stone and gravel dealer, or other commercial weighing station.

NOTE: Because unit levelness has an effect on actual weights, the scale approach and exit ramps should be level.

DETERMINATION OF ACTUAL WEIGHTS

STEP 1 Front Gross Axle Weight (Front GAW) — Drive your unit's front axle onto the scale platform and take a reading.

STEP 2 Gross Vehicle Weight (GVW) — Position both axles on the platform and take a reading.

STEP 3 Rear Gross Axle Weight (Rear GAW) — Drive your unit's front axle off the platform and take a reading.

STEP 4 Compare the Front GAW, Rear GAW and GVW readings with the ratings displayed on the Federal Sticker. The sticker is located on the sidewall next to the driver's seat.

The Front GAW must never exceed the FRONT GROSS AXLE WEIGHT RATING. THE REAR GAW MUST NEVER EXCEED THE REAR GROSS AXLE WEIGHT RATING. The GVW must never exceed the GROSS VEHICLE WEIGHT RATING (GVWR).

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

STEP 1 Divide the Wheelbase, as shown in the SPECIFICATIONS section, by 10. This establishes 10 loading zones forward of the rear axle.

Using the same zone size, establish zones behind the rear axle.

STEP 2 List additional weight items, such as water, LP Gas, optional equipment (FIG. 2A) and Miscellaneous Gear in zone where each item is located (FIG. 2B). Also list 150# for driver where each passenger in the zone they will occupy when traveling.

If an item covers more than one area, enter the amount in FIG. 2B where the most weight is located.

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

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

STEP 5 List your unit's REAR AXLE WT. and FRONT AXLE WT. in boxes A and B respectively. See the SPECIFICATIONS section for DRY WEIGHT — STANDARD, NO OPTIONS.

STEP 6 Total the REAR AXLE and FRONT AXLE columns of Steps 4 and 5. Write each figure in appropriate box. Be sure to deduct the negative percentage (-%) weights from the FRONT AXLE WEIGHT total.

STEP 7 Write in the Rear GAWR in box 7A and the Front GAWR in box 7B. See the Federal Sticker for Front and Rear GAWR's.

The Total Loaded Rear Axle Weight (Step 6A) must be less than the value in Box 7A. The Total Loaded Front Axle Weight (Step 6B) must be less than the value in box 7B.

STEP 8 Add the Rear & Front Axle Weights (Steps 7A & 7B). This value must never exceed the GROSS VEHICLE WEIGHT RATING (GVWR). See the SPECIFICATIONS section for your unit's GVWR.

WEIGHT COMPUTATION FIGURES 2A & 2B
SEE PAGE 8

MISCELLANEOUS GEAR

ITEM	APPROX. WEIGHT			
	LBS.	KG		
Air Mattress	5	2.265	8	3.624
Aluminum Camp Cot	7	3.171	19	8.607
Aluminum Camp Cot w/Mattress	22	9.966	18	8.159
Army Cot	15	6.795	1	.453
Auto Hand Vacuum	5	2.265	8	3.624
Ax	3-6	1.359-2.718	18	8.159
Battery	37-50	16.761-22.650	10	4.530
Battery Box (for boat)	3	1.359	1	.453
Battery Charger	10	4.530	1	.453
Bicycle	45	20.385	1 1/2	.679
Binoculars	1 1/2-5	679-2.265	1/2	.226
Booster Air Shocks	14	6.432	1/4	.113
Broom	2	.906	110	49.830
Bucket/Wastebasket	2	.906	10	4.530
Camera	3	1.359	10	4.530
Camera Outfit, Polaroid	7	3.171	1/4	.113
Camp Folding Stool	1	.453	123	55.719
Camp Folding Table	16	7.248	5-17	2.265-7.701
Camp Stove	18	8.154	1	.453
Camper Fan	4	1.812	3	1.359
Camper Fold-away Steps	18-19	8.159-8.607	7	3.171
Camper Generator, 1100 Watt	70	31.710	1/2	.226
Camper Stabilizer			1	.453
Camper Sundeck & Ladder			11	4.983
Canopy				
Canteen (2-quart)				
Catalytic Heater				
Chain Saw & Case				
Charcoal				
Charcoal Fluid Igniter				
Chess/Checkers/Games				
Clothes Line (50 foot)				
Clothes Pins (package)				
Compass				
Double Bass Drum Set (15 pc.) with cases				
Electric Cable (100 feet)				
Electric Fan 12"				
Envelopes/Stamps				
Extension Rear Bumper				
Extinguisher				
Film, 4 rolls				
First Aid Kit				
Flag/Reflector Kit				
Flare				
Flashlight				
Floor Mats				

CONTINUED NEXT PAGE

Front Tire Carrier	7	3.171
Funnels (water, fuel)	½	.226
Gas Lantern	6	2.718
Gas Stove (2 burner)	11	4.983
Gasoline Emergency Can (5 gal.)	11	4.983
Grease Gun and Grease	14-15	6.432-6.795
Ground Cloth	1	.453
Guide Book	2	.906
Hammer	1-2	.453-.906
Hand Saw	2-3	.906-1.359
Hand Spotlight	2	.906
Hatchet	2-3	.906-1.359
Hiking Pack	3	1.359
Insect Fogger	7	3.171
Inverter, 12-volt	13	5.889
Iron	2½-4	1.132-1.812
Laundry Bag	1	.453
Level	1	.453
Maps (8)	1	.453
Mess Kit (aluminum)	2	.906
Mosquito Repellent (can)	1½	.679
Movie Camera (8 mm)	4-8	1.812-3.624
Oil Paints	5-11	2.265-4.983
Ease	6	2.718
Padlock & Chain	1	.453
Picnic Blanket	3	1.359
Playing Cards (2 decks)	½	.226
Portable Toilet	20-30	9.060-13.590
Power Intercom	4	1.812
Propane (20-gal. bottle)	45	20.385
Propane Cylinders (disposable)	2	.906
Radio, 2-way, 6-watt	7-8	3.171-3.624
Radio, portable	6-16	2.718-7.248
Refrigerator	100	45.300
Rope (100 ft., 5/8")	14	5.342
Roof Top Camper Air Conditioner	150	67.950
Sewer & Water Hook-up Kit	10	4.530
Sewing Machine	20-50	9.060-22.650
Shovel	4-5	1.812-2.265
Shovel (folding)	3	1.359
Spare Oil (10-qt. can)	20	9.060
Stake Pocket Camper Hold-Downs (2)	9	4.077
Stereo Tape Player	10	4.530
Swing-Out Spare Tire Carrier	17	7.701
Tape Recorder	4-20	1.812-9.060
Tarp (10' x 12')	20	9.060
Television, Battery-Powered	10	4.530
Television, Portable B/W	20	9.060
Television, Portable Color	61-76	27.633-34.428
Tent, pup	12	5.436
Tent, large	70-80	31.710-36.240
Tire Chain Kit	3	1.359
Tire Gauge	½	.226
Tire Iron	4	1.812
Tire Repair Kit	¼	.113
Thermos (1 qt. steel)	3½	1.585
Thermos (2 qt. plastic)	5	2.265
Tool Kit (65 piece mechanic)	15-21	6.795-9.513
Trailer, Cycle	225	101.925
Trailer, Tent	425-832	192.525-376.896
Trailer, Utility ¼ ton	195	88.335
Travel Information	¼	.113
Truck Washing Brush	3	1.359
Tune-up Kit	20	9.060
Two-Suiter Case	11	4.983
Typewriter	11-24	4.983-10.872
Umbrella	2	.906
Vacuum	10-36	4.530-16.308
Water Heater	68	30.804
Water Purification Tablets	¼	.113
Water Tire Pump	6	2.718
Week-end Case	7	3.171
Writing Pad	¼	.113

CLOTHING

ITEM	APPROX. WEIGHT	
	LBS.	KG
Blouse, Shirt	1½	.679
Coat, lined	4	1.812
Culotte	¾	.339
Dress, Skirt	¾	.339
Jacket, lined	2½	1.132
Jeans, Slacks	1-2	.453-.906
Pajamas	1	.453
Raincoat	3-4	1.359-1.812
Shoes	1-3	.453-1.359
Shorts	½-¾	.453-1.359
Sunglasses	¼	.113
Sweater	1	.453
Swimsuit & Pullover	1½	.679
Windbreaker	¾	1.359

SPORT ITEMS

ITEM	APPROX. WEIGHT	
	LBS.	KG
Anchor (boats up to 14 ft.)	10	4.530
Semi-V Aluminum Boat	118-257	53.454-116.421
Boat Trailer	135-240	61.155-108.720
Canoe (aluminum)	65-75	29.445-33.975
Fishing Boat (fiberglass)	125	55.625
Fishing Kit with light tackle box	6	2.718
Fishing Motor (electric)	9-23	4.077-10.419
Jon Boats (10-16 ft. aluminum)	62-250	28.086-113.250
Outboard Motors up to 5½ hp	42-54	19.026-24.462
Remote Gas Tank (for boat)	5	2.265
Rubber Boat (8 persons)	85	38.505
Rubber Boat (2 persons)	15	6.795
Safety Vest (adult)	3	1.359
Safety Vest (child)	2	.906
Tackle Box (large)	8	3.624
Oars	10	4.530
Cartridges (20)	2	.906
Duck Decoys	9	4.077
Gun Case	2	.906
Gun Cleaning Kit	3	1.359
Hunting Bow	4	1.812
Arrows (6)	1	.453
Hunting Knife	½-1	.226-.453
Rifle (30.06)	7-12	3.171-5.436
Scope	1	.453
Shotgun	9	4.077
Shotgun Shells (5)	1	.453
Golf Bag	6-13	2.718-5.889
Golf Cart	16	7.248
Golf Irons (8)	11	4.983
Golf Set (child's)	11	4.983
Golf Woods (4)	7	3.171
Bat/Ball/Glove	6	2.718
Boots	3-5	1.359-2.265
Mini-Bike	84-170	38.052-77.010
Scuba Gear (with tank)	71	32.163
Skates	3-4	2.718-1.812
Snow Skis, Bindings, Boots & Poles	23-27	10.419-12.231
Water Skis	15-16	6.795-7.248
Tennis Racket with Cover, Press, Balls	3	1.359
Pool Table (8-ft.)	306	138.618

CONTINUED NEXT PAGE

BASIC KITCHEN ITEMS

ITEM	APPROX. WEIGHT	
	LBS.	KG
Abrasive Pads (package)	¼	.113
Bags, Disposable (package)	1½	.679
Basin/Rack (plastic)	2	.906
Bottle Opener	¼	.113
Can Opener (crank)	1	.453
Coffee Pot	1-3	.453-1.359
Cookbook	3	1.359
Cookware Set (8-piece aluminum)	11	4.983
Cookware Set (8-piece stainless steel)	15	6.795
Cooler (48-quart)	15	6.795
Cups, Disposable (40)	¾	.339
Cutting Board	1½	.679
Dinnerware (45-pc. plastic)	16	7.248
Dish Cloth (12" x 12")	¼	.057
Dish Towel	¼	.113
Dishes (53-piece for 8)	40-60	18.120-27.180
Foil (cooking)	½	.226
Fry Pan (skillet-15")	13	5.889
Glasses (8 plastic)	1¾	.792
Juice Container (plastic)	½	.226
Knives (kitchen)	1¼	.566
Matches (carton)	½	.226
Mixer (portable)	3-5	1.359-2.265
Oven-Broiler	10-18	4.530-8.154
Plate Scraper	¼	.113
Plates (40 disposable)	½	.226
Pots & Pans (10 pieces)	14	6.342
Pot Holders	¼	.057
Soap/Detergent (box)	1	.453
Spatula/Pancake Turner	½	.226
Sponge	¼	.113
Stirring Spoon	¼	.113
Table Covering (plastic)	½	.226
Tableware (50 pc. stainless)	7	3.171
Thermos (1 gallon aluminum)	4	1.812
Toaster	1-9	.453-4.077
Tongs	½	.226
Toweling, Paper (per roll)	¾	.339
Trash Caddy	2	.906

BASIC OUTFIT FOOD AND BEVERAGE CHECKLIST

ITEM	APPROX. WEIGHT	
	LBS.	KG
Apple (large)	½	.226
Bacon/Sausage	1	.453
Baking Soda (box)	1	.453
Banana (large)	½	.226
Beverage (can)	1	.453
Bread	1	.453
Breakfast Cereal (box)	½	.226
Butter/Margarine (carton)	1	.453
Catsup (bottle)	1¼	.566
Chili (can)	1¼	.566
Cocoa	1¼	.566
Coffee (1 lb.)	1	.453
Cookies (package)	1	.453
Cooking Oil (quart)	1½	.679
Corned Beef Ham (can)	1¼	.566
Crackers	1	.453
Egg (fresh or hardboiled)	¼	.057
Flour/Pancake Mix (box)	1	.453
Fruit (1 lb. can)	1¼	.566
Fruit Juice (can)	1	.453
Jelly/Jam	1¼	.566
Macaroni/Spaghetti (can)	1¼	.566
Milk (dried)	1¼	.566
Milk (pint, carton)	1	.453
Mustard (bottle)	1¼	.566

Napkins (package)	¼	.113
Olives (jar)	1	.566
Orange (fresh, large)	½	.226
Peanut Butter	1¼	.566
Pickles (jar)	1	.453
Pork & Beans (lb. can)	1¼	.566
Potatoes/Rice	4	1.812
Poultry/Meat/Fish	4	1.812
Salad Dressing	1¼	.566
Salt & Pepper (container)	½	.226
Soup (can, condensed)	¼	.339
Spam (can)	1	.453
Spices (assortment)	1	.453
Stew (can)	1¼	.566
Sugar (box)	1	.453
Syrup	1	.453
Tea (box of bags)	¼	.113
Vegetables (lb. can)	1¼	.566
Vegetables (fresh)	1½	.679
Water (per gallon)	8.0	3.624

BATHROOM SUPPLIES

ITEM	APPROX. WEIGHT	
	LBS.	KG
Bath Cap	¼	.113
Bath Towel (22" x 24")	½	.339
Chemicals (Toilet)	1	.453
Cosmetic Case	5	2.265
Facial Tissue (box)	¾	.339
Hand Mirror	1	.453
Hand Soap (bar)	¼	.113
Hand Towel (16" x 25")	½	.226
Shampoo (tube)	¼	.113
Shaving Cream (can)	1	.453
Shaving Kit	2	.906
Sponge	¼	.113
Suntan Oil	¼	.113
Toilet Paper (roll)	½	.226
Toothbrush Holder	¼	.113
Toothbrush & Toothpaste (tube)	¾	.283
Wash Cloth (12" x 12")	¼	.057

BEDDING

ITEM	APPROX. WEIGHT	
	LBS.	KG
Blanket (twin)	2-5	.906-2.265
Pillow	1-2	.453-.906
Pillowcase	½	.226
Sheet, disposable	¾	.283
Sheet, twin	1-2	.453-.906
Sleeping Bag (cold weather)	13	5.889
Sleeping Bag (double)	16	7.248

DESCRIPTION & OPERATION OF AUTOMOTIVE SYSTEMS (STANDARD & OPTIONAL)

INSTRUMENT PANEL

LEFT GROUP (SEE FIG. 3)

Wiper — Turn knob clockwise to achieve desired wiper speed. Always turn off wiper and allow blades to return to the park position before shutting off engine.

Lights — Pull knob out to its first position to turn on the instrument panel, parking, license plate, clearance and gear shift selector lights. Pull knob out to its second position to turn on the headlights plus all lights controlled in the first position. Instrument panel light intensity may be regulated by turning this knob.

Fan — Turn this knob to achieve desired volume of heating, defrosting, defogging or air conditioning.

Heat — Pull out knob until desired amount of heat is obtained.

Air — Pull out knob to its fullest extent to obtain fresh air.

Air (Optional Automotive Air Conditioner) — Pull out knob to achieve desired air conditioning.

Defrost — Pull out knob to its fullest extent. To defrost window, pull out heat knob. To defog window, turn on fan.

RIGHT GROUP (SEE FIG. 3)

Gear Shift Selector — This device functions like an automatic car transmission.

Map Light and Switch

Generator Remote Start/Stop switch (Optional with Generator) See APPLIANCES & ACCESSORIES section for START UP and SHUT DOWN procedures.

CENTER GROUP (SEE FIG.3)

The instruments, gauges, warning and indicator lights contained in this panel group function like those used in a car. See the chassis manufacturer's manual for further details. See DESCRIPTION & OPERATION OF RV SYSTEMS for information covering the optional remote LPG gauge, generator hour meter, and radio.

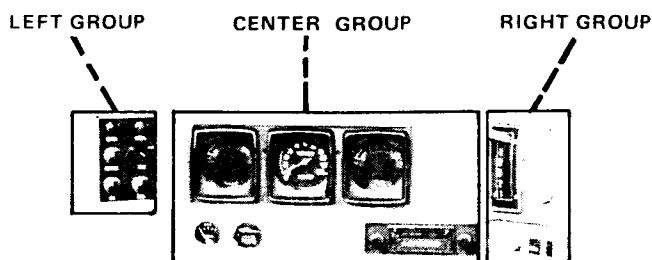


FIG. 3

DRIVER SEAT ADJUSTMENT

Turn knob counter clockwise to unlock seat controls (FIG. 4).

SWIVEL SEAT — Press swivel lever towards rear of seat. Turn seat.

SEAT HEIGHT — Press height lever towards rear of seat. Raise or lower seat.

After making adjustments to seat, turn knob clockwise to lock.

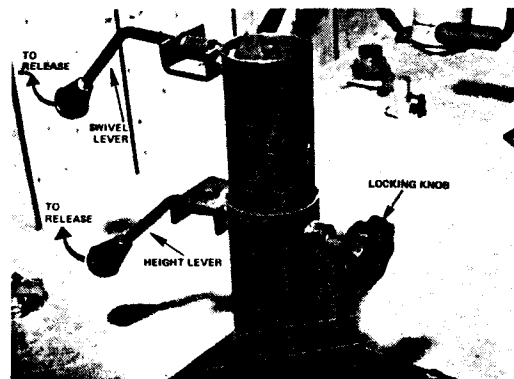


FIG. 4

SEAT POSITION — Press lever, which is located under the left, front corner of the seat, and slide seat to desired position.

OTHER CONTROLS & EQUIPMENT

EMERGENCY BRAKE LEVER — Pull lever up to its fullest extent to engage brake (FIG. 5). Push lever down to disengage.

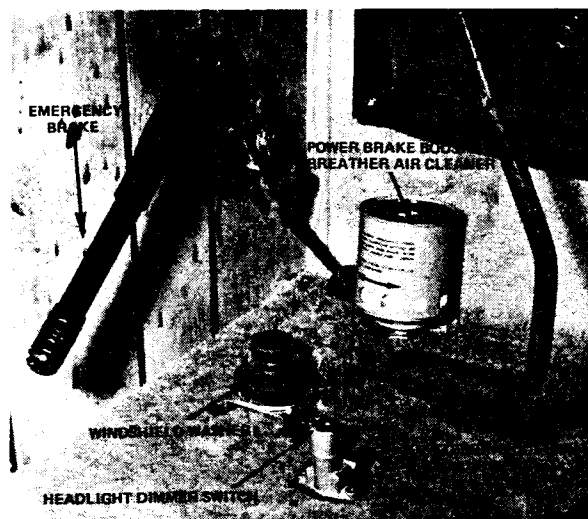


FIG. 5

POWER BRAKE BOOSTER BREATHER AIR CLEANER (FIG. 5) — See the chassis manufacturer's manual for air cleaner replacement schedule.

STEERING COLUMN ADJUSTMENT — Depress adjustment pedal and tilt steering wheel to desired position (FIG. 5). Release pedal to lock wheel in position.

WINDSHIELD WASHER — Depress foot pedal to operate washer system (FIG. 5).

DESCRIPTION & OPERATION OF RV SYSTEMS (STANDARD & OPTIONAL) LP GAS SYSTEM

The Liquefied Petroleum Gas (LPG) System provides fuel for the operation of the furnace, water heater, refrigerator, oven and range. Fuel may be purchased from any LPG dealer. He will provide a mixture of propane and butane fuels, which will be suitable for operation in his location. If you intend to

travel to an area which experiences different weather conditions, or is located at a different elevation, ask your LPG dealer for his recommendations. The appliances will not function if the LPG does not vaporize. Butane will not vaporize below 32°F (0°C) and propane below -44°F (-21°F).

FILLING LPG TANK — Extinguish the furnace, water heater, refrigerator, and oven pilot lights (See APPLIANCES & ACCESSORIES section for further instructions). Turn off range burners. Close POL valve (FIG. 6). Remove the cap from the tank filler valve. Connect the dealer's hose to the tank filler valve. When the tank is full, liquid will appear at the stop filling (10%) valve.

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

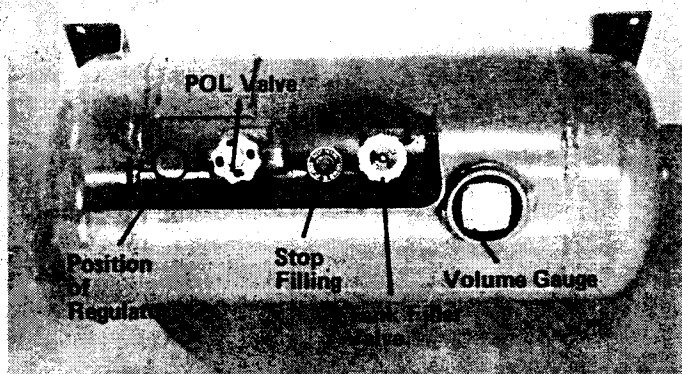


FIG. 6

Because there is always some leakage of LPG when refilling the tank, you should drive at least a mile away from the LPG dealer and/or wait 30 minutes before you relight the pilot lights and stove. LPG is odorless but an additive gives it a distinctive garlic odor. If this scent is present after waiting, do not relight the appliances. Open the windows, air vents and door. If the scent has not dissipated after waiting an additional 30 minutes, follow the instructions contained in the CARE & MAINTENANCE section, GAS LINE CHECK.

USING LPG SYSTEM — Open the POL valve (FIG. 6). Observe the volume gauge daily.

Remote LPG Gauge (Optional) — This gauge will be found in the center group of the instrument panel (FIG. 3). By turning the ignition switch to "On" position, you may check the amount of LPG in your unit's tank.

NOTE: Some states prohibit vehicles that are equipped with LPG tanks from using tunnels. A few other states prohibit traveling with the POL valve open and the pilot lights lit. These regulations are based on the premise that a gas line could be ruptured in a highway accident, which may cause a further hazard through fire and/or explosion. Check the regulations of each state through which you intend to travel.

ELECTRICAL SYSTEM

Electricity for operation of appliances, lights and other

equipment is supplied through the 110-Volt Alternating Current (VAC) shoreline connection or 12-Volt Direct Current (VDC) RV Battery (FIG. 7). If your unit is equipped with the optional generator, it too will provide electrical power.

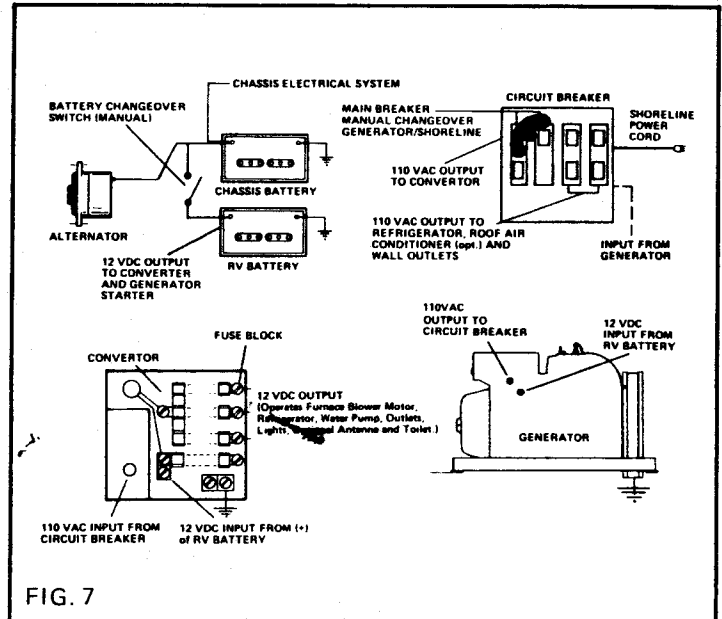


FIG. 7

SHORELINE CONNECTION — Pull the power cord from the protection hatch and plug it into a 110/125 VAC, 60 hz. outlet (FIG. 8).



FIG. 8

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

Circuit Breaker — A conventional resettable circuit breaker protects each 110 VAC circuit (FIG. 9). The breaker box will be found inside your unit in an easily accessible location.

Power flows from the breakers through various circuits to the converter and 110V outlets (FIG. 7). Overloading a circuit will cause its breaker to trip (FIG. 9). To reset: turn off and/or unplug all electrical appliances protected by that breaker; press switch down to "Reset" position; lift to "On" position. If the breaker continues to trip, contact your Coachmen Dealer.

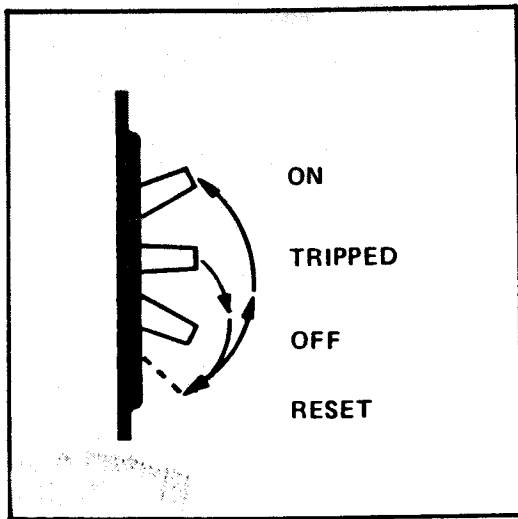


FIG. 9

The battery changeover switch is located on the floor behind and to the left of the driver's seat (FIG. 12). This device will either "Make" or "Break" the electrical connection between the chassis and RV batteries (FIG. 7).

"Off" — Place switch in "Off" position when a 110V shoreline hookup is not available. Both batteries may run down if you do not follow this procedure.

"On" — Place switch in "On" position when: chassis battery requires starting boost; recharging chassis battery while running engine, or hooked up to 110V shoreline source, or operating the optional generator.

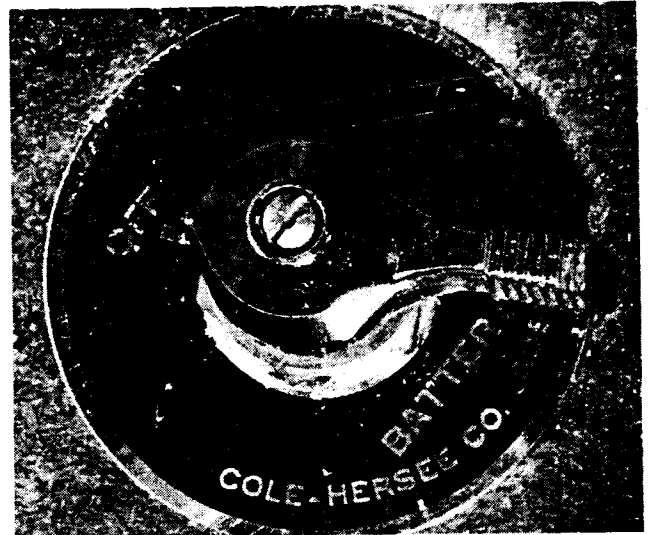


FIG. 12

GENERATOR (Optional) — This device will permit you to operate your unit's 110 VAC electrical system away from a shoreline source. See the APPLIANCES & ACCESSORIES section for generator operating instructions.

WATER SYSTEM — Water may be obtained from either the unit's water tank or city water source.

WATER TANK — Open the water fill spout (FIG. 13). Pour in desired amount of water. Water will flow out of the overflow port of the water fill spout when the tank is full. Close and secure the spout.

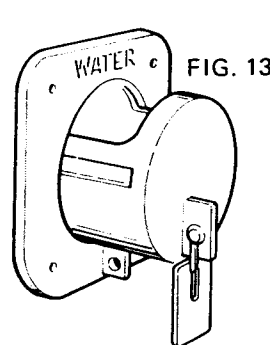


FIG. 13

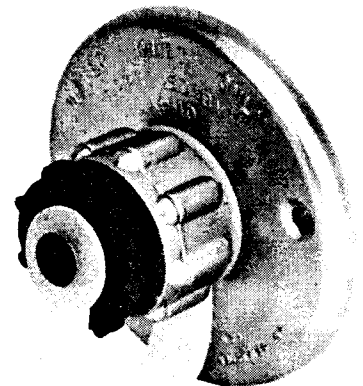


FIG. 14

CITY WATER — Connect water hose to a pressurized water faucet and the water fixture (FIG. 14). When using city water hookup the water tank and water pump are bypassed. You cannot fill the water tank through the city water fixture.

Converter — 110 VAC input is transformed and converted to 12 VDC output. 20 amp. fuses, which protect various appliances and accessories, are located inside the converter (FIG. 10).

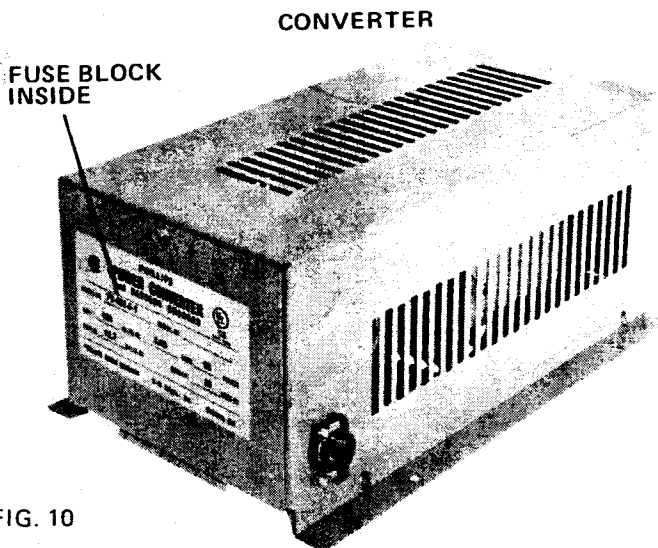


FIG. 10

RV BATTERY (OPTIONAL) — The RV battery, which is located inside a compartment on the curb side of your unit, along with the chassis battery, provides power to operate 12 VDC appliances only (FIG. 11).

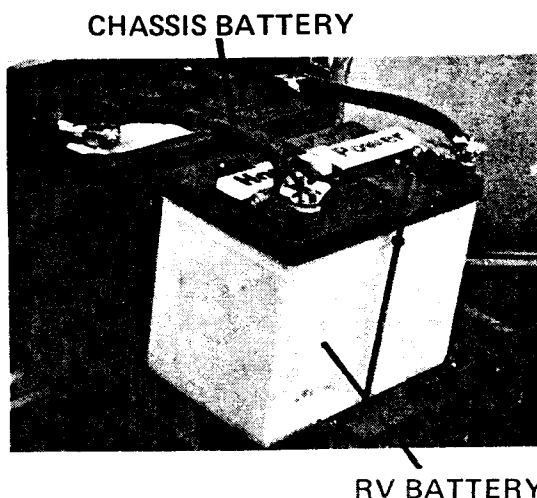


Fig. 11

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

DRAWING WATER FROM TANK — Flip water pump switch to "On" position. You may leave switch on while camping. This arrangement is known as a demand system. When you want water, simply open a faucet.

NOTE: The water pump switch is located on the wall above the kitchen counter.

GRAY WATER & TOILET SEWAGE SYSTEMS

GRAY WATER — Sink and shower/tub waste (Gray) water flows through the drainage system and drains through the termination valve. Remove cap from the drain outlet (FIG. 15A or B). Connect sewer hose to outlet and the campground's septic sewage system. If the park does not have a septic system, place a bucket under the outlet. DO NOT drain gray water onto the ground. Besides spoiling the natural beauty of the countryside, you may be breaking a local or state ordinance.

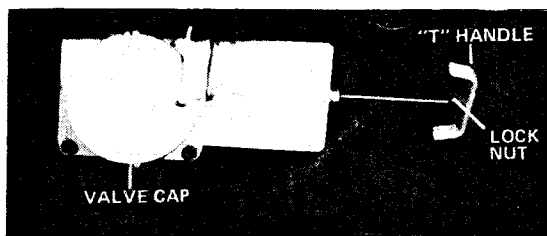


FIG. 15A

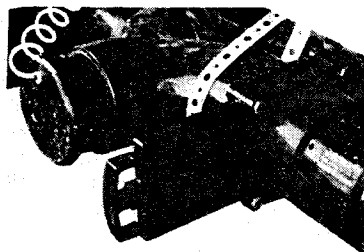


FIG. 15B

GRAY WATER HOLDING TANK (Optional) — If your unit is equipped with this holding tank, you will be able to park in an area which has no septic service for several days. We recommend that its contents be emptied into a septic sewage system as soon as possible after you resume traveling. Follow the toilet HOLDING TANK DRAINAGE instructions.

TOILET SEWAGE — The toilet drains directly into the holding tank. Follow the Toilet Preparation instructions contained in the APPLIANCES & ACCESSORIES section. We recommend that the holding tank contents be emptied at a holding tank dumping station as soon as possible after you resume traveling.

HOLDING TANK DRAINAGE — Place drainage bucket under the dump valve outlet and remove drain cap (FIG. 15 A or B). Connect sewer hose to outlet and insert other end into the station's sewage receptacle.

Depending on the type of dump valve used with your unit — either unfasten the dump valve lock nut and pull out the "T" handle (FIG. 15A), or pull out the dump valve handle (FIG. 15B).

Close the valve after the tank has drained. Flush about 2 gallons of water through the toilet into the holding tank. Drain the tank again.

Close and lock the dump valve handle — either tighten the nut (FIG. 15A), or make sure handle is completely pushed into the valve seats (FIG. 15B).

Remove hose; wash and store it in the rear bumper hose holder (FIG. 16). Prepare the toilet for use as described in the APPLIANCES & ACCESSORIES section.

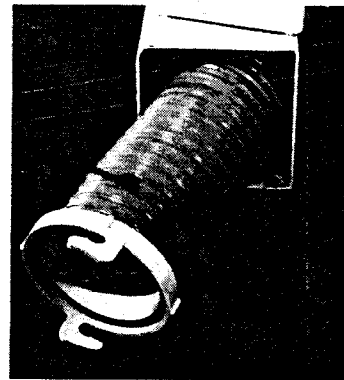


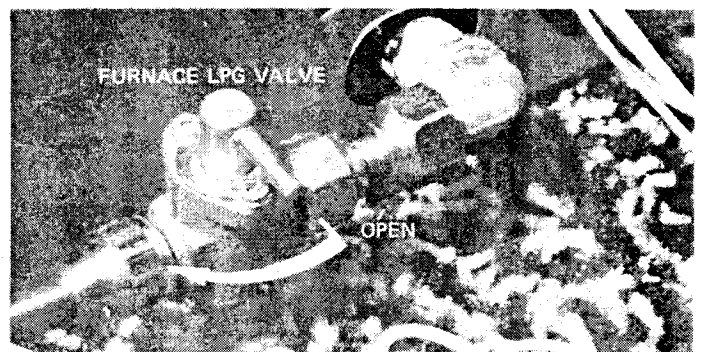
FIG. 16

APPLIANCES & ACCESSORIES (STANDARD & OPTIONAL)

FURNACE — Depending on the furnace model, it may be lit by one of two methods: LPG pilot light or electrical ignitor.

LPG PILOT — Open the POL valve (FIG. 6). Open the furnace LPG valve (FIG. 17). Set the thermostat's temperature control lever at its lowest temperature. Wait 5 minutes to allow any LPG, which may have accumulated inside the furnace, to dissipate. Open the furnace cabinet door (either unfasten both side latches or release the single thumb latch). Depress the reset button. Depress the ignition button until a spark occurs (FIG. 18). You may have to pump the button several times until the pilot lights. Due to air in the LPG lines, it may be necessary to hold the reset button in for several minutes before the pilot ignites. Hold the reset button in for at least 2 minutes after lighting pilot, then release. Repeat procedure if pilot goes out.

FIG. 17



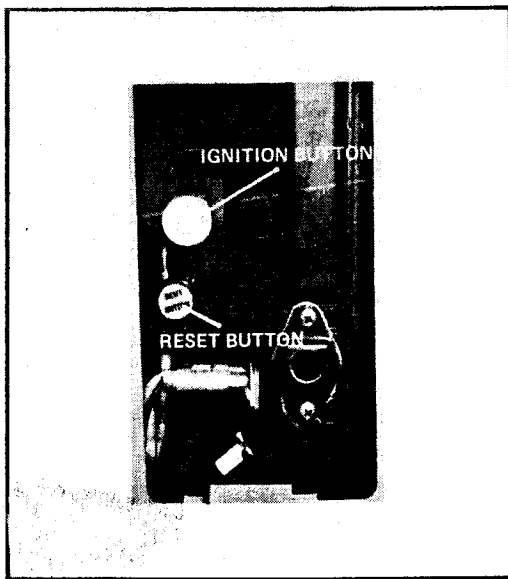


FIG. 18

ELECTRICAL IGNITOR — Open the POL valve (FIG. 6). OPEN THE FURNACE LPG valve (FIG. 17). Set the thermostat's temperature control lever at desired temperature. If the main burner does not ignite within 15 seconds, reset lever to "Off" position. Wait several minutes, until all air escapes from the LPG lines, then reset thermostat.

EXTINGUISHING FURNACE BURNER — Set thermostat lever to lowest (OFF) temperature. Close the furnace LPG valve.

RANGE & OVEN

LIGHTING OVEN PILOT — Open the POL valve (FIG. 6). Turn the oven temperature control knob from "Pilot Off" to "Off". Strike a match and light the pilot. You will find the pilot to the rear of the oven compartment, just below the main burner (FIG. 19). Relight the pilot if air in the LPG lines blows it out. To use oven, turn the knob to desired temperature.

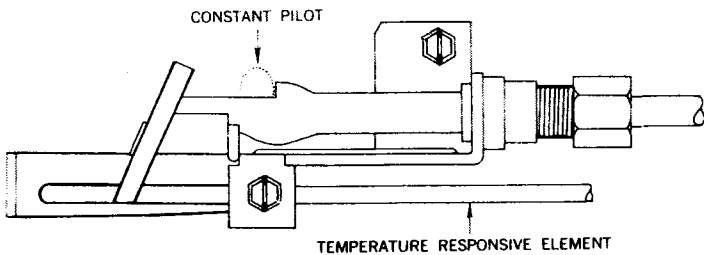
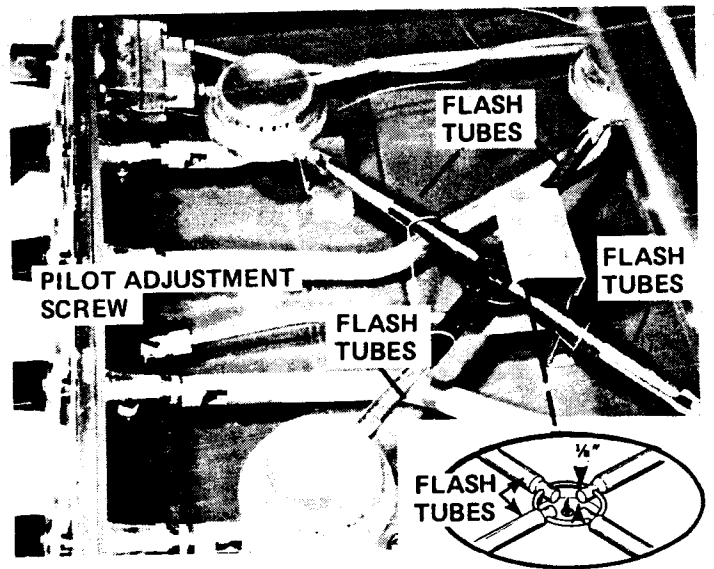


FIG. 19

LIGHTING RANGE BURNER — Open the POL valve (FIG. 6). Strike match, turn on burner and light. A blowing noise, which will occur when burner is first lit, will subside once air has escaped from the LPG line.

LIGHTING RANGE BURNER PILOT (Optional Eye Level Range) — The eye level range is equipped with a range burner pilot. Unfasten and remove range top panel (*Pull up front edge*). With the POL valve on, light the burner pilot (FIG. 20). Adjust gas flow so the top of the pilot flame is about $\frac{1}{8}$ " from the burner flash tubes.

CAUTION: A window or roof vent must be open when using range burners or oven. DO NOT use range and/or oven to heat the interior of your unit. Failure to heed these cautions may result in asphyxiation.

WATER HEATER

LIGHTING PILOT — Turn on POL valve (FIG. 6). Turn the gas control dial to "Off" position (FIG. 21 A or B). Wait at least 5 minutes to allow LPG, which may have collected in the burner compartment, to dissipate. Turn gas control dial to "Pilot" position. Perform procedure which applies to the type of thermostat used in your unit's water heater (*UNITROL or ITT*).

Unitrol Thermostat — Press and hold the reset button (FIG. 21 A). Light pilot burner (FIG. 22). Release button after 1 minute. Repeat procedure if pilot goes out. Turn gas control dial to "On" position. Adjust temperature dial to achieve desired water temperature.

ITT Thermostat — Turn gas control dial past the "Pilot" position and hold it against its internal stop (FIG. 21 B). Light the pilot burner (FIG. 22). Release control dial after 1 minute. Repeat procedure if pilot goes out. Turn gas control dial to "On" position. Adjust temperature dial to achieve desired water temperature.

PILOT ADJUSTMENT — Remove the pilot adjustment screw protective cap (FIG. 21 A or B). Turn set screw to adjust flame so it is $\frac{1}{2}$ " high or has a yellow tip.

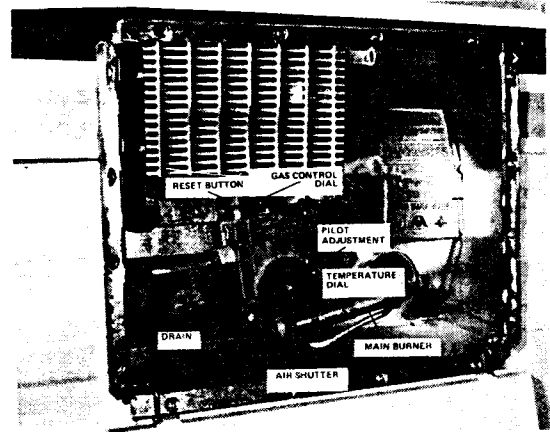


FIG. 21A

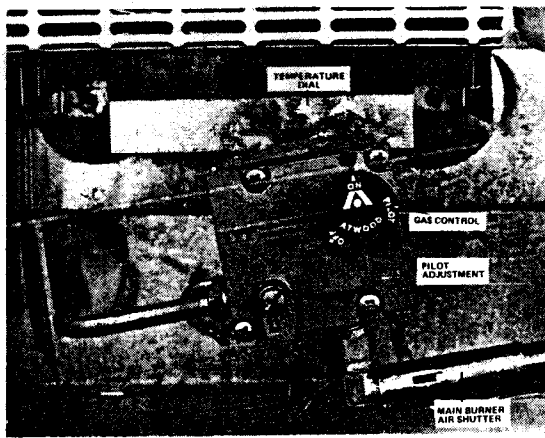


FIG. 21B

BURNER ADJUSTMENT — Loosen the set screw which holds the air shutter in place (FIG. 22). 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 the set screw.

EXTINGUISHING BURNER — Turn the gas control dial to "Off" position.

DRAINING — Open drain cock.

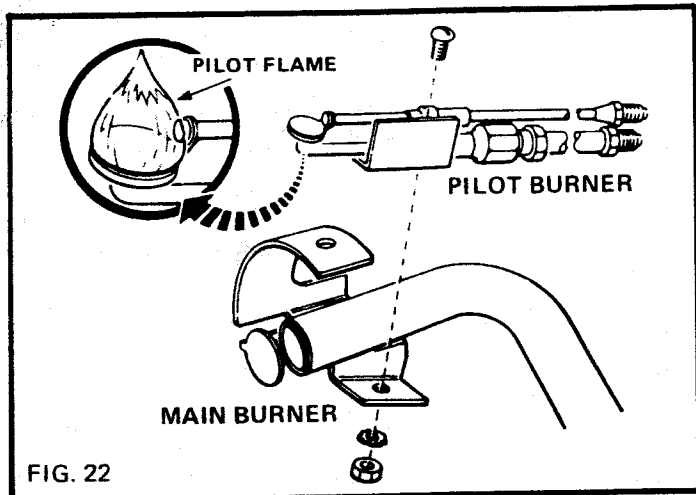


FIG. 22

ROOF AIR CONDITIONER (OPTIONAL)

NOTE: Your unit is wired for subsequent installation of roof air conditioner. If you did not originally order this optional item, you may do so from your Coachmen Dealer.

COOLING — Turn the selector control to desired fan speed within the "Cooling" function. Turn the temperature control to achieve desired coolness.

AIR RECIRCULATION — Turn the selector control to desired fan speed within the "Fan Only" function. Turn the temperature control fully counter clockwise.

DE-HUMIDIFIER — Turn the selector control to the minimum setting within the "Cooling" function. Turn the temperature control fully counter clockwise. When operating in this mode you may see water running off your unit's roof. Do not be alarmed for this is normal.

GENERATOR (OPTIONAL)

PRE-OPERATION — Before each start up, open the generator compartment and check the oil level (FIG. 23). If required, add oil as directed by the generator manufacturer. Flip the circuit breaker switch, which is

located in the generator compartment, to the "On" position.

CAUTION: When in operation, the engine powering your generator discharges deadly carbon monoxide as part of the exhaust gas. Carbon monoxide is particularly dangerous in that it is odorless, tasteless and colorless. Keep in mind that it can cause death if inhaled for even a short time.

When operating the generator, DO NOT open roof vents, windows, or doors which could draw fumes into the unit. DO NOT operate the generator where any object, such as a tree, bushes or building, may deflect exhaust fumes inside the unit. DO NOT operate the generator inside a building unless the exhaust gas is vented safely outside. DO NOT operate the generator where exhaust gas could accumulate and seep back inside an occupied building, tent or vehicle.

START UP — There are two start/stop switches which control the generator. One is located on the generator set and the other on the instrument panel's right group (FIG. 3). Depress and hold down the button until the generator starts.

ELECTRICITY — Flip the circuit breaker switch to the "On" position (FIG. 10). This will automatically turn off the shoreline breaker.

REMOTE GENERATOR HOUR METER (OPTIONAL) — This meter indicates the total running time of the generator. It will be found in the instrument panel's center group (FIG. 3).

SHUT DOWN — Whenever possible, before shutting off generator, allow it to run a few minutes with no electrical load. This will allow the generator set to cool off. Depress the start/stop switch until the engine stops.

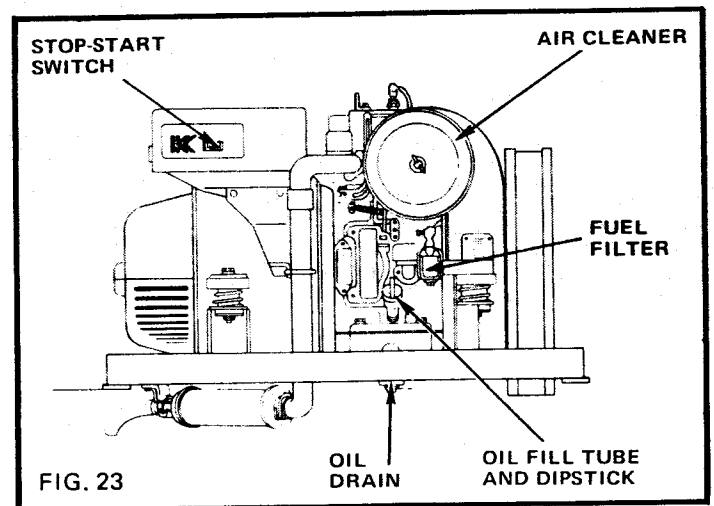


FIG. 23

RADIO/RADIO-TAPE (OPTIONAL) Other than provided by the chassis manufacturer.

The On/Off & Volume, Tone, Tuning, Stereo Balance, and Push Button Station Selector are controls which are located in the same position and function in the same manner as those used in most car radios and tape decks.

TAPE PLAYER — Insert an 8-track tape cartridge into the dial face slot. Select desired track by pressing the select button. Never turn the tuning knob when the tape player is in use.

TV ANTENNA (OPTIONAL)

SET UP — Turn the crank handle in "Up" direction until some resistance is felt (FIG. 24). Plug TV set's power cord into either 110 VAC or 12 VDC outlet. Attach connector cable to the TV and the wall outlet. Turn on the power supply. (The power supply switch and the "On" light is built into the antenna wall outlet.)

TUNING — Pull rotating knob down to disengage it from the ceiling plate. Turn the knob to achieve the best picture and sound.

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

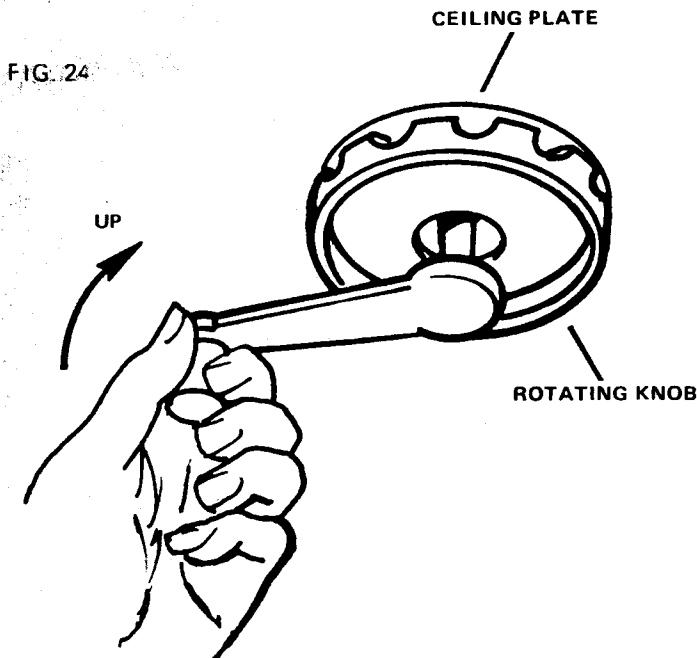


FIG. 24

TOILET

AQUA MAGIC III

Preparation — Before initial use and after emptying the holding tank, flush the toilet. After bowl has filled with water, pour in an 8 oz. bottle of AQUA KEM concentrate. Flush toilet again.

FLUSH — Turn the flush knob, located on top of the toilet, fully clockwise and hold until all contents have been swept into the holding tank. Release knob. Bowl will automatically refill with water for next use.

AQUA MAGIC

Preparation — Before initial use and after emptying the holding tank, step on small pedal until there is about 8" of water in the bowl. Add one 8 oz. bottle of AQUA KEM concentrate and flush.

Flush — Step on large pedal until all contents have been swept into the holding tank. Step on the small pedal and add about an inch of water into bowl.

ELECTRA MAGIC (Optional)

Preparation — Pour water into the toilet bowl until level "C" is reached on the "Prismagic Level Indicator" (FIG. 25). Add one 8 oz. bottle of AQUA KEM concentrate.

Flush — Depress flush button.

Empty — Empty toilet tank when contents reaches

level "F". Pull out dump valve handle. Push it back in after all the contents have drained into the holding tank. Prepare the toilet as previously described.

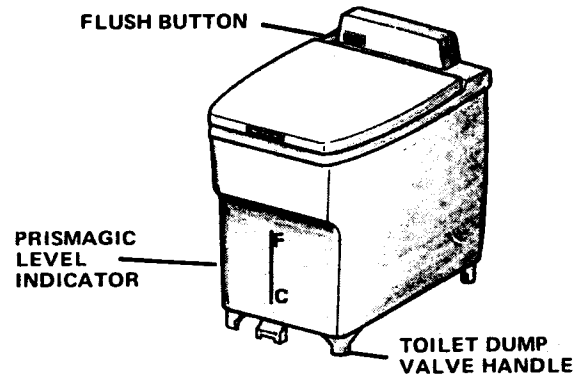


FIG. 25

REFRIGERATOR

Your refrigerator may be operated in one of three modes: LPG, 110 VAC or 12 VDC.

LPG OPERATION — Turn the On/Gas Electric Selector Dial to the "Off" position (FIG. 26). Pull out the dial and turn it to the "Gas" position. You may have to wiggle the dial in the "Off" position in order to pull it out. Turn the gas thermostat to setting #4. Pull out the valve and push in the lighter until a spark occurs. Repeat procedure until burner is lit. Hold out the valve for at least 30 seconds, then release. Watch the reflector and if the burner should extinguish repeat this procedure.

NOTE: Your unit must be level in order for the refrigerator to operate properly in the LPG mode.

ELECTRIC OPERATION — Turn the Off/Gas/Electric Selector Dial to the "Off" position. Push in the dial and turn it to either "Electric" (110 VAC) or "12V" (VDC). Turn the electric thermostat to setting #4.

HELPFUL HINTS — Always store food in sealable containers or suitable wrapping paper. Chill food in your home refrigerator before traveling.

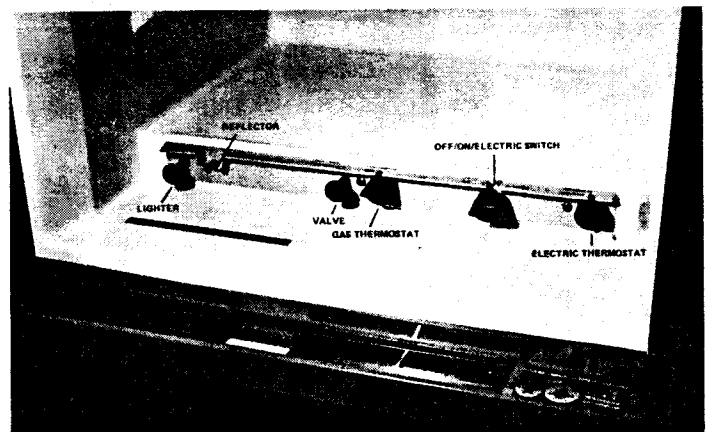


FIG. 26

SET UP

LEVELING — Using a carpenter's level, check levelness of your unit and take appropriate corrective action. Place leveling ramp (FIG. 1) under low tire or dig a shallow hole under high tire. The refrigerator will not operate properly if your unit is not level.

STEP — Lift front edge of step and pull it out to its fullest extent. Before moving your unit, remember to push step back to its traveling position.

GAUCHO — Lift the front of the gauchio platform and slide it out. Reposition cushions on top of platform.

Rear gauchio — unfasten both side latches.

FRONT BUNK (Optional) — Swing sun visors down. Unfasten retaining lock and pull bunk down to sleeping position. Clip the ladder hooks to the bunk cushion retaining board.

CABINET HIDE-A-BED — Release the cabinet latches — one is located on each inside end of the cabinet. Close and latch cabinet doors. Swing cabinet face down so it rests on supports. Position reinforcing boards on top of the cabinet face. Arrange cushions on top of platform.

DINETTE TABLE

PEDESTAL TYPE — Insert top of support leg into the bracket located under the bottom surface of the table. Insert leg into the floor base. You must remove table and leg before setting up dinette bed.

EXTENSION TYPE — Unfasten travel latch and swing up table. Depress the support leg so that it latches in the upright position. To extend table: pull release lever located under the table, and pull out table top; insert table top leaves; push table top together. Reverse procedure when storing table.

DINETTE BED

"U" TYPE — Remove table and support leg. Place table on seat supports. Arrange cushions on top of platform.

REVERSIBLE DINETTE SEAT/BED — Remove table and support leg. Set up bed as described.

REVERSIBLE DINETTE SEAT/BED

CHANGING SEAT DIRECTIONS — Pull seat release handle (FIG. 27A). When the latch releases, pivot the seat over so that it faces in the other direction. Push seat cushion back onto the seat platform and lock it into position.

RAISING & LOWERING BACK RESTS — Release both back rest latches, one is located on each side of the seat, and move rest in desired direction (FIG. 27B).

Traveling Position — The front dinette seat must face forward if it is to be occupied while traveling.

Dinette Position — Change direction of seats as required.

Bed Position — Remove table and leg. Change direction of seats so they face away from each other. Lower both back rests to form a bed.

FIG. 27A—

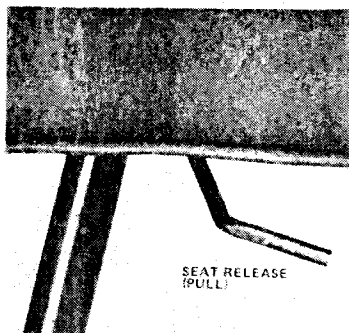
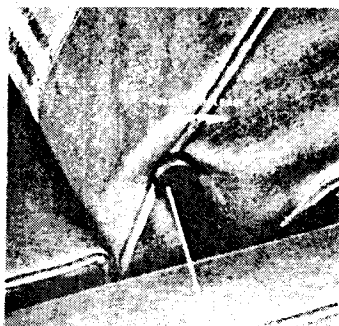


FIG. 27B



PRE-TRAVELING CHECK

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

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

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

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

EXTERIOR LIGHTS — Test all running lights (Head, tail, stop, backup and clearance). Clean the head and tail light lenses.

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

WINDSHIELD & WIPERS — Wash off the windshield and check the wiper blades. Refill the windshield washer reservoir.

TV ANTENNA — (Optional) The antenna must be cranked down to its traveling position.

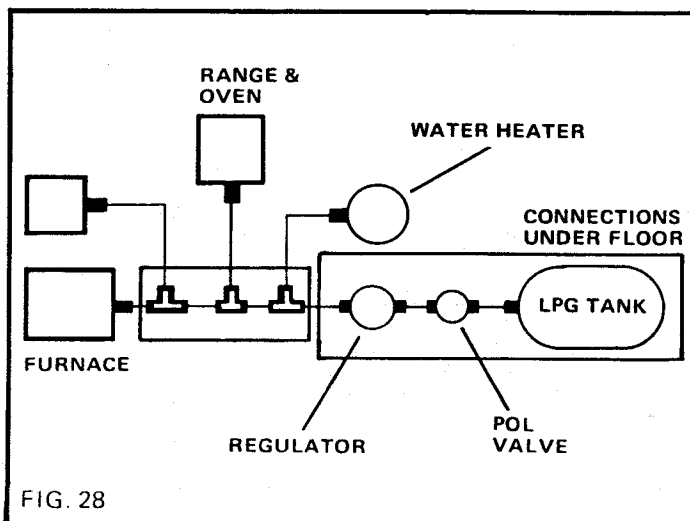
CARE & MAINTENANCE

LPG SYSTEM

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

Extinguish the hot water heater, refrigerator, furnace, and oven pilot lights and turn off the range burners. Open all the windows and doors to allow the gas to dissipate. Turn on the POL valve (FIG. 6). Apply soapy water solution to all the line connections (FIG. 28). Bubbles indicate position of leak. Tighten connection with two open end wrenches until bubbles stop. If garlic odor persists after all joints have been checked and tightened, contact your Coachmen Dealer.

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



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

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

LPG APPLIANCES

FURNACE — Your unit's furnace does not require routine maintenance or cleaning. Soot, which may form on the inside of the combustion chamber, may be removed with a vacuum sweeper. Unfasten and remove the lighter hole cover.

RANGE & OVEN — Allow the range top to cool off, then clean it with dish soap and hot water. The porcelain surfaces may craze with hairline cracks if you attempt to clean them with water while they are hot. Use a damp cloth to clean chrome surfaces. Grease spatters, which may bake into the surfaces, will be very difficult to remove. Use non-abrasive cleanser to remove stains from porcelain surfaces. Use chrome polish to remove stubborn stains. Use a toothpick, not wire, metal pick, or other metal tools, to clean clogged burner orifices. Metal tools may distort the openings, which in turn will effect burner operation.

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

ELECTRICAL SYSTEM

CHASSIS & RV BATTERIES — Both batteries are mounted on a slide out tray and are located in the automotive battery compartment (FIG. 11). Unlock and open compartment door. Remove cotter pin and pull out tray.

Check the liquid level at least once a month. It must be above the plate surfaces. Add either distilled or potable 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 1.260 is indicated.

WARNING: *If either the optional coach or automotive batteries must be "Quick Charged," turn off the electrical portion of the refrigerator.*

AM/FM/MPX STEREO RADIO & — 8 TRACK CARTRIDGE STEREO TAPE PLAYER — The tape player is equipped with an automatic head cleaner. Occasionally you will have to clean oxide off the tape playback head, capstan shaft, and the automatic track selector. To activate the capstan, depress the switch located in and on the left side of the tape compartment.

WARNING: *Use isopropyl alcohol to clean the tape playback head, capstan shaft and the automatic track selector. DO NOT use Carbon Tetrachloride.*

ROOF AIR CONDITIONER — Remove and clean the filter at least once every two weeks if it is used extensively. Wash it with soap and water. Do not operate the air conditioner for extended periods of time without a filter.

GENERATOR — The following procedures, along with those procedures specified in the manufacturer's manual, should be completed in order to maintain your generator in top operating condition.

Daily or before each start up — Check oil level. Clean cooling air inlets and outlets. Remove loose dirt from generator compartment.

Every 50 hours or 6 months (whichever occurs first) — Change oil more frequently if operating under dirty, dusty conditions. Drain oil from crankcase. Use oil specified in the manufacturer's manual. Remove the air cleaning element and clean by tapping it against a flat surface.

After each 100 hours or 200 (if good clean operating conditions are encountered), drive your unit to an authorized service center for the manufacturer's recommended maintenance.

WATER & DRAIN SYSTEMS

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

Open the water tank drain cock (FIG. 29). Close cock after the tank is empty. Mix 3 gallons of water with $\frac{3}{4}$ cup of Clorox or Purex household bleach. Pour solution into tank through the water fill spout (FIG. 13). Wait 3 hours. Drain and flush tank with fresh potable water. If chlorine taste lingers, pour 1 quart of vinegar and five gallons of water into the tank. Wait several days before draining tank. Flush tank with fresh potable water.

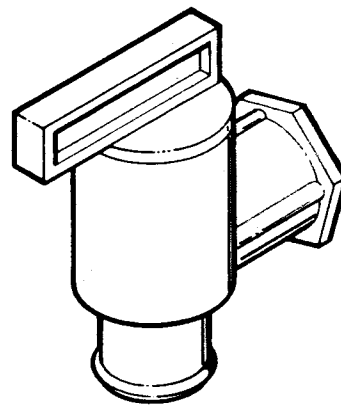


FIG. 29

WATER PUMP — The water pump does not require routine maintenance or cleaning. If it fails to start, check the fuse. It is located in an in-line fuse holder adjacent to the pump. If it continues to operate whether the faucet is opened or closed, the water tank is probably empty.

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

TOILET

AQUA MAGIC — Use Aqua Bowl Cleaner as directed. If the slide valve does not move freely, apply silicone spray.

ELECTRA MAGIC — Empty the toilet. Use Aqua Bowl Cleaner as directed. If the toilet does not flush when the button is depressed, check its 12 amp. fuse. The fuse is located inside the motor cover, directly behind the flush button (FIG. 25).

INTERIOR

SINKS — Clean the kitchen and bathroom sinks with non-abrasive material. Stainless steel cleaner may be purchased at any grocery or hardware store. ABS cleanser, such as Aqua K-7, may be purchased from your Coachmen Dealer.

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

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

CUSHION COVERS — Use a foam type upholstery cleaning agent. This may be purchased at any grocery or hardware store. DO NOT pull the covers off the cushions. The zipper allowed rapid assembly in our factory.

CURTAINS — Hand wash curtains in lukewarm water with mild detergent. Be sure to get the entire curtain wet while washing it. Stretch dry. DO NOT dry clean.

CARPETING — Vacuum the carpeting (if so equipped) as required. Use commercial carpeting shampoo as required.

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

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

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

To defrost the frozen food compartment — Remove frozen food and ice from the compartment. 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.

EXTERIOR

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

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

At least once a year, coat all roof seams, including roof edges and around vents, with top quality aluminum roofing cement. Periodically inspect seams for damage and/or cracking and repair with roofing cement. If a leak develops, apply roofing cement to suspected area.

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

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

CHANGING A TIRE & WHEEL

GENERAL — Turn off the engine, activate hazard warning flasher, and set the parking brake. Chock both front and back of the opposite the one you intend to change. Set the jack of a firm base so that it will not shift.

CAUTION: Never get under your unit when using the jack. Never start or run the engine when the vehicle is on the jack.

FRONT TIRE — Position jack under the front spring. Arrange jack so its "U" shaped saddle cradles the spring. Raise jack to take some, *but not all*, weight off the tire. Loosen wheel nuts with stud wrench. Resume jacking until wheel is free of ground. Remove wheel nuts and tire; put spare tire in place. Install wheel nuts and tighten them as much as possible with tire off ground. Lower jack until tire just touches ground. Tighten nuts with stud wrench in the sequence specified in the chassis manufacturer's manual. Lower and remove jack. Stop at the nearest service facility and request they tighten wheel nuts to the torque specified in the chassis manufacturer's manual.

REAR TIRE — Position jack under the rear axle housing. Raise jack to take some, *but not all*, weight off the dual tires. Loosen wheel nuts with a stud wrench. Resume jacking until dual tires are off the ground. Remove wheel nuts and tires. Replace dual tires as follows:

RM 400 Chassis — The outer wheel must be installed so the coined stud holes match the coined stud holes of the inner wheel. Orienting the two wheels is facilitated by a locating pin which is part of the hub.

RM 500 — Place inner wheel on hub. Tighten small inner nuts 450 to 500 ft. lbs. torque. Place outer wheel on hub and tighten 450 to 500 ft. lbs. torque.

Lower and remove jack. Stop at the nearest service facility and request they tighten wheel nuts to the specified torque.

FRONT & REAR TIRES — Before your initial trip and after each time you change a tire, tighten wheel nuts to the specified torque. Follow this procedure every 50 miles for the first 200.

CAUTION: Try to obtain professional road service. If you can not find a reputable tire store, etc., follow the above instructions as well as those provided by and contained in the chassis manufacturer's manual.

EXTERIOR ENGINE ACCESS — Swing door up and out of your way (FIG. 30).

WINDSHIELD WASHER RESERVOIR — Check fluid level in reservoir at regular intervals. When freezing weather is anticipated, fill reservoir with windshield washer antifreeze.

AUTOMOTIVE MAINTENANCE — See the chassis manufacturer's manual for maintenance schedules and specifications concerning engine coolant, antifreeze and oil.

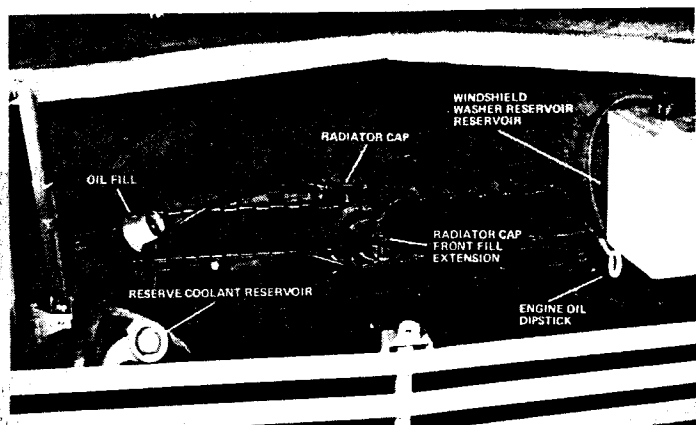


FIG. 30

INTERIOR ENGINE ACCESS — Pull cotter pins out of and remove both retention pins; swing seat out of the way (*Reversible Dinette Seat/Bed only*).

Unfasten retaining brackets (FIG. 31) and remove cover. See the chassis manufacturer's manual for maintenance schedules and specifications concerning engine.

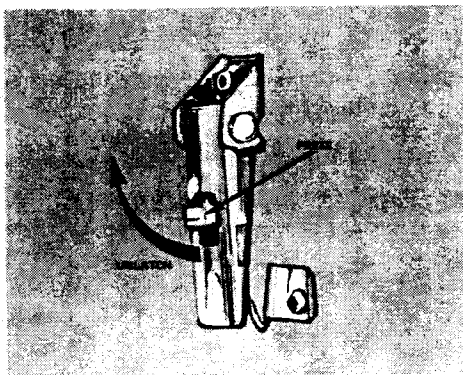


FIG. 31

STORAGE

GENERAL — Perform the following procedure and those contained in the CARE & MAINTENANCE section before storing your unit.

WATER TANK — Turn on water pump. Open all water faucets. Open the tank drain cock (FIG. 29). Open the two water line drain valves (*located under the unit*). When the tank is empty, close all faucets and drain valves. See WINTERIZING section for potable water anti-freeze instructions.

WATER PUMP — After the water tank is empty, operate the electric water pump for about 2 minutes with the intake and discharge hoses disconnected from it. Operate the pump until all water is expelled. Reconnect the hoses.

TOILET

AQUA MAGIC III — Drain the toilet water supply line. Leave the water supply valve open. Turn the flush knob and insert a wad of rolled up newspaper into the bowl outlet. Release the knob slowly until the blade holds the wad in place. This will prevent any water residue from being trapped inside the bowl where it could freeze.

AQUA MAGIC — Drain the toilet water supply line. Leave the water supply valve open. Depress the large foot pedal and insert a coke bottle into the bowl outlet. Release the pedal slowly until the blade holds the bottle. This will prevent any water residue from being trapped inside the bowl where it could freeze.

ELECTRA MAGIC — Empty the toilet as described in the APPLIANCES & ACCESSORIES section. Refill it with fresh water and Aqua Bowl Cleaner. Flush 3 times and empty the toilet.

GENERATOR — While the engine is hot, drain oil from the crankcase (FIG. 21). Flush crankcase with clean light weight oil. Refill crankcase with regular weight oil as specified in the generator manufacturer's manual.

Drain fuel from the filter sediment bowl and carburetor bowl (FIG. 21).

Remove the spark plug and pour about a tablespoon of oil into the hole. Crank the engine over several times and reinstall the spark plug.

Clean the exterior surfaces of the generator set. Spread a light film of oil over the unpainted metallic surfaces which could corrode.

Place a dust cover over the generator set.

ELECTRICAL — Unplug all electrical appliances and turn off all electrical circuit breakers.

We recommend that you check your unit periodically. We also recommend that you drive your unit occasionally during periods of storage.

WINTERIZING

Winterizing your unit will protect the fresh water and sewage lines from freeze damage.

WATER TANK ANTI/FREEZE — Open the water tank fill spout (FIG. 13). Pour in a combination of potable water and potable water anti-freeze. Turn on the water pump and briefly open the kitchen and lavatory faucets. This will circulate the anti-freeze and water solution throughout the water lines. You may purchase potable water anti-freeze from your Coachmen Dealer.

CAUTION: DO NOT use automotive anti-freeze in the water tank, it is poisonous.

DRAINS — Pour in about ½ cup of approved anti-freeze solution into all sink, tub or shower drains.

TOILET

AQUA MAGIC & AQUA MAGIC III — Follow the WATER TANK ANTI-FREEZE instructions outlined above.

ELECTRA MAGIC — Empty the toilet's holding tank. Pour 1½ gallons of non-toxic plastic pipe anti-freeze and 1½ gallons of water into the bowl.

APPLIANCE AND COMPONENT IDENTIFICATION SHEET

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

EQUIPMENT	MANUFACTURER	MODEL DESIGNATOR	SERIAL NUMBER
Recreational Vehicle	COACHMEN		
Chassis			
Furnace			
Range & Oven			
Converter			
Refrigerator			
Water Pump			
Toilet			
* Roof Air Conditioner			
* Auto Air Conditioner			
Ignition Key		NOT APPLICABLE	
Door Key		NOT APPLICABLE	
Other Keys		NOT APPLICABLE	
* Generator			
* Radio			

NOTE: (*) indicates optional equipment.

EMERGENCY CONTACTS

DOCTOR

NAME _____

NAME _____

ADDRESS _____

ADDRESS _____

PHONE (AC) _____

PHONE (AC) _____

RELATIVE

NAME _____

NAME _____

ADDRESS _____

ADDRESS _____

PHONE (AC) _____

PHONE (AC) _____

NEIGHBOR

NAME _____

NAME _____

ADDRESS _____

ADDRESS _____

PHONE (AC) _____

PHONE (AC) _____

FRIEND

NAME _____

NAME _____

ADDRESS _____

ADDRESS _____

PHONE (AC) _____

PHONE (AC) _____

POLICE

PHONE (AC) _____

PHONE (AC) _____

FIRE

PHONE (AC) _____

INSURANCE AGENT

NAME _____

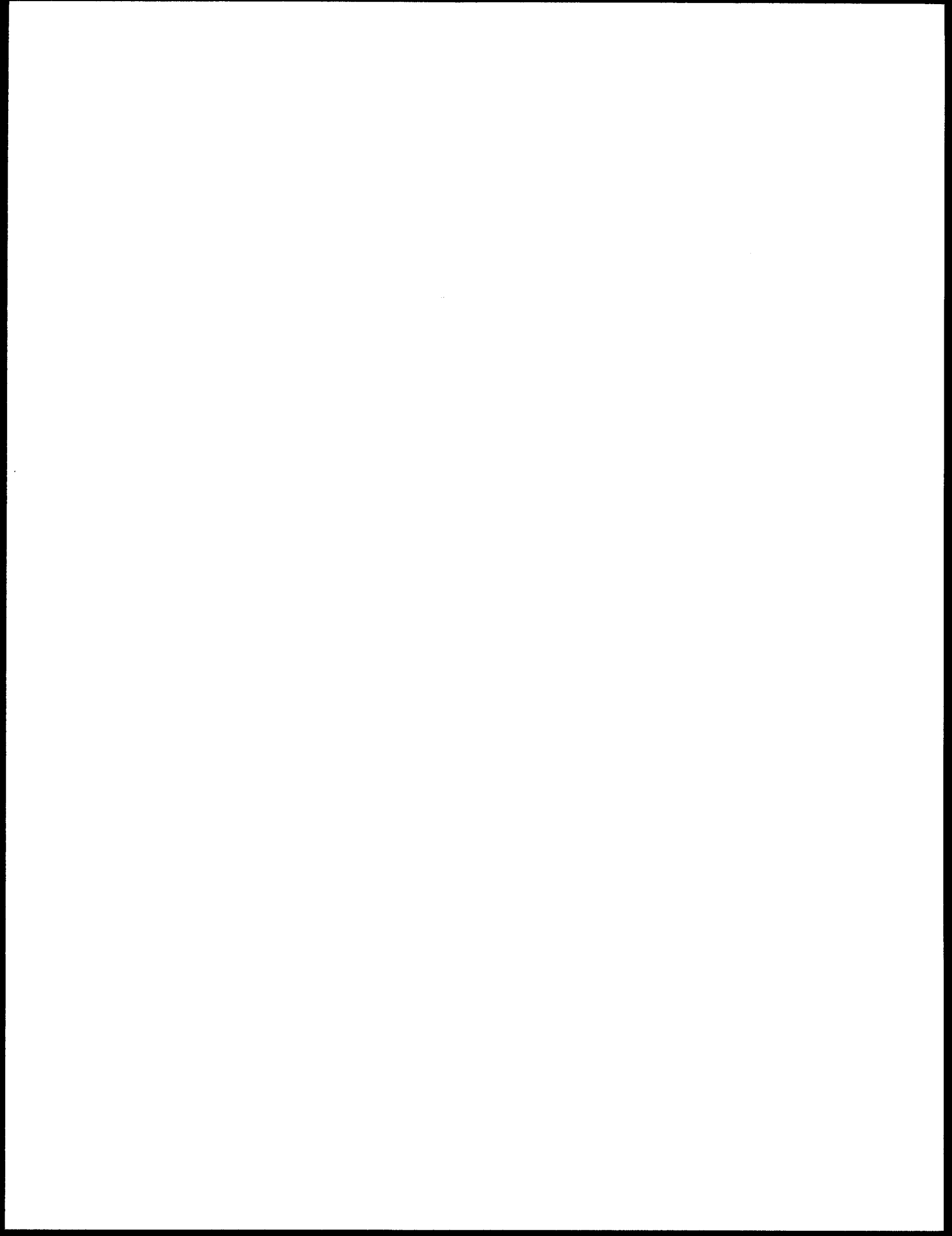
NAME _____

ADDRESS _____

ADDRESS _____

PHONE (AC) _____

PHONE (AC) _____



SPECIFICATIONS

	22' VIP	24' PRESIDENT	25' STATESMAN
CHASSIS	M 400	M 500	M 500
ENGINE SIZE CU. IN./LITRE	440/7.2	440/7.2	440/7.2
WHEEL BASE IN./CM.	137/348	159/382	159/382
*APPROXIMATE CAPACITY	2,840/1,286	4,060/1,839	4,130/1,871
DRY WEIGHT STANDARD, NO OPTIONS			
REAR AXLE LBS./KG.	5,620/2,546	6,000/2,719	6,180/2,799
FRONT AXLE LBS./KG.	3,540/1,604	3,940/1,794	3,690/1,672
GROSS VEHICLE WEIGHT RATING GVWR LBS./KG.	12,000/5,436	14,000/6,342	14,000/6,342
EXTERIOR LENGTH IN./CM.	22' - 2"/683	24' - 8"/752	25' - 3"/770
EXTERIOR HEIGHT IN./CM.	ALL MODELS: 9' - 7"/292; WITH ROOF AIR CONDITIONER 10' - 2"/309		
TIRE SIZE IN.	ALL MODELS: 8.00 x 19.5; SEE CHASSIS MANUFACTURER'S MANUAL FOR TIRE AIR PRESSURE		
FUEL TANK GAL./L.	ALL MODELS: 50/190		
LP GAS TANK LBS./KG.	ALL MODELS: 63/29		
HOLDING TANK (MAIN) GAL./L. LOCATION OF DUMP VALVE	32/120 LOCATED ON LEFT SIDE BETWEEN FRONT & REAR WHEELS		32/120 LOCATED AT REAR OF UNIT BETWEEN REAR WHEELS
HOLDING TANK (OPTIONAL) GAL./L. LOCATION OF DUMP VALVE	32/12 LOCATED ON LEFT SIDE BETWEEN FRONT & REAR WHEELS		32/120 LOCATED ON LEFT SIDE BETWEEN FRONT & REAR WHEELS
WATER TANK SIZE GAL./L.	45/170		

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

WEATER PUMP FUSE 6¼ Amp. Slo Blo

INTERIOR 12V LIGHT BULB #1141

CLEARANCE LIGHT BULB #1895

STEP LIGHT BULB #1895

PORCH LIGHT BULB #93

MOTORHOME OWNERS MANUAL

Serial No. _____



COACHMEN DRIVE
MIDDLEBURY, INDIANA 46540

