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IMPORTANT SAFETY REGULATIONS PLEASE READ CAREFULLY

Coachmen RV Company, LLC is required to furnish the following consumer information as provided by the National Fire Prevention Association and the American National Standards Institute. The information and warnings found here may also be found in other sections of this Owner's Manual. Please see sections titled "Liquid Petroleum Gas System" and "Appliances" for other safety and operating information.

LP GAS SYSTEMS AND APPLIANCES

LP gas containers shall not be placed or stored inside the vehicle. LP gas containers are equipped with safety devices which relieve excessive pressure by discharging gas to the atmosphere.

It is not safe to use cooking appliances for comfort heating. Cooking appliances need fresh air for safe operation. Before operation:

- 1. Open an overhead vent or turn on an exhaust fan
- 2. Open a window.

A warning label has been located in the cooking area to remind you to provide an adequate supply of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle, and proper ventilation when using the cooking appliance(s) will avoid dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.

Portable fuel-burning equipment, including wood and charcoal grills and stoves, shall not be used inside this recreational vehicle. The use of this equipment inside the recreational vehicle may cause fires or asphyxiation.

Do not bring or store LP gas containers, gasoline, or other flammable liquids inside the vehicle because a fire or explosion may result.

A warning label has been located near the LP gas container. This label reads: DO NOT FILL CONTAINER(S) TO MORE THAN 80 PERCENT OF CAPACITY. Over filling the LP gas container can result in uncontrolled gas flow which can cause fire or explosion. A properly filled container will contain approximately 80 percent of its volume as liquid LP gas.

A label has been placed in the vehicle near the range area which contains the following information:

IF YOU SMELL GAS:

- 1. Extinguish any open flames, pilot lights and all smoking materials.
- 2. Do not touch electrical switches.
- 3. Shut off the gas supply at the tank valve(s) or gas supply connection.
- 4. Open doors and other ventilating openings.
- 5. Leave the area until odor clears.
- 6. Have the gas system checked and leakage source corrected before relighting.

LEGEND

THE FOLLOWING LEGEND IS INTENDED TO EXPLAIN THE VARIOUS ICONS (PICTURES) USED THROUGHOUT THIS MANUAL. THEY ARE USED PRIMARILY FOR YOUR BENEFIT AND TO BRING ATTENTION TO THE INFORMATION AT HAND.

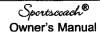
WARNING!!

THE TRIANGLE WITH A LIGHTEN-ING FLASH SYMBOL IS INTEND-ED TO ALERT THE USER TO PRECAUTIONS WHICH COULD IMPACT YOUR PERSONAL SAFE-TY AS WELL AS RESULT IN VEHI-CLE DAMAGE.

A CAUTION!!

THE TRIANGLE WITH AN EXCLAMATION POINT SYMBOL IS INTENDED TO ALERT THE USER THAT A FAILURE TO FOLLOW INSTRUCTIONS COULD RESULT IN DAMAGE TO THE VEHICLE OR OTHER EQUIPMENT.







LP gas regulators must always be installed with the diaphragm vent facing

COMMENTS	downward. Regulators that are not in compartments have been equipped with a protective cover. Be sure regulator vent faces downward and the cover is kept in place to minimize vent blockage which could result in excessive gas pressure causing fire or explosion.
NOTES:	INTRODUCTION
	Congratulations on the purchase of your new Sportscoach® Recreational Vehicle. We sincerely thank you for choosing our product. For your convenience, you'll find many useful tips for planning trips as well as basic operation and maintenance information for your Sportscoach's vehicle's systems and appliances in this Owner's information package as well as component manufacturer's manuals supplied with your unit.
	Note: Because of individual tastes and the different floorplans offered, your vehicle may not have all of the components illustrated or described in this manual. Ask your dealer for details concerning the specifics of your vehicle.
	TAKING DELIVERY OF YOUR RV
	Your Sportscoach® has been inspected by factory personnel throughout the manufacturing process. Our final factory check by quality control inspectors is not the last one. Your dealer performs additional pre-delivery inspections and systems checks, and helps you understand the Warranty and complete any necessary forms.
	Dealer Responsibilities Include: 1. Orienting the customer to the recreational vehicle, its systems and components, and their operation.
	2. Insuring the customer receives a complete Owner's Package with warranty cards and registrations for the recreational vehicle and for separately warranted products, including operating and maintenance instructions.
	3. Reviewing Limited Warranty provisions with the customer, assisting the customer in completing these forms if he wishes, and requesting that the customer read all warranty information as soon as possible explaining any provisions not clearly understood.
	4. Instructing the customer how to receive local service and out-of-town service on the recreational vehicle and its separately warranted components, either in or out of warranty.
	Customer Responsibilities As a new recreational vehicle owner, you have the responsibility for regular and proper maintenance. This will help you avoid conditions arising from neglect that are not covered by your Coachmen Recreational Vehicle Limited Warranty. Maintenance services should be performed in accordance with this Owner's Manual, the chassis Owner's Manual, and any other applicable manuals.
	As the owner, it is your responsibility and obligation to return the recreational vehicle to an authorized dealer for repairs and service (SEE LIMITED WARRANTY). Since the Authorized Dealer from whom you purchased your new recreational vehicle is responsible for its proper servicing before delivery, and has an interest in your continued satisfaction, we recommend that inspection, warranty and maintenance services be performed by your selling dealer.
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COMMENTS



OBTAINING SERVICE

If you're having warranty work done, be sure to have your warranty card with you. All work to be performed may not be covered by the warranty; discuss additional charges with the service manager. Keep a maintenance log of your vehicles' service history. This can often provide a clue to the current problem.

Prepare a List

Prepare a written list of issues or specific work you require to be done. Advise the Service Manager if work has been preformed that is not is not listed on your Maintenance Log. It is important to keep the log accurate and up to date.

Be Reasonable with Your Requests

Prepare for the Appointment

Appointments are made according to the type of repair scheduled, and the amount of time needed to complete the repair. If you add items after the appointment has been set, discuss the situation with the service manager and list your items in order of priority. Expect to make a second appointment for work not completed or for parts that may need to be ordered.

No offense

Insurance requirements forbid the admission of customers to a service repair area.

Inspect the Work Properly

Inspect the completed repairs when you pick up your vehicle and notify the Service Manager of any dissatisfaction.

IMPORTANT DOCUMENTS

Vehicle Registration

Always carry your vehicle registration, insurance policy card(s) and Owner Warranty registration. If you lend your vehicle, it is best to give the borrower a notarized letter authorizing him to be in possession of the vehicle.

Licenses

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

Insurance

Consult your insurance agent about personal liability, property damage, collision and theft of contents insurance for your new recreational vehicle. Always carry your insurance policy and/or card with you when you travel.

LOADING/WEIGHING

A correctly loaded vehicle is necessary for safe operation. Distribute your cargo evenly from side-to-side and from front-to-back. Heavier items should be stored as centrally as possible, on or near the floor. They should be secured so that they cannot slide during a sudden stop and cause damage. (loose cargo can alter the balance you had when you started.). Lighter items can be stored in overhead cabinets or other areas. Remember to leave space and weight allowance for souvenirs and other items you may purchase during your travels. A properly loaded vehicle can help conserve fuel and can prevent excessive wear on your vehicle's automotive system.

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WEIGHT DETERMINATIONS **COMMENTS** It is extremely important that you weigh your vehicle before you leave on a trip. Check the Gross Axle Weight Rating (GAWR) and the Gross Vehicle Weight Rating (GVWR) found on the Federal Sticker and the unit weight information sheet affixed to each vehicle. The Federal Sticker or certificate lists the unit Serial Number and the front and rear GAWR and GVWR. It is located to the left of the driver's seat. We suggest that you record this sticker information in the space provided here to ensure that you always have the information close at hand. NOTES: GVWR _____ GAWR Front ____ GAWR Rear _____ with ____ ____ at ___ PSI cold RIMS Weighing Your Motorhome You can weigh your motorhome at a grain elevator, sand and gravel dealer, or government weighing station. Keep in mind, you need to weigh your motorhome when it is fully loaded. There may be a small fee however, it is an investment in safe traveling and peace of mind. Check your Yellow Pages for the address and telephone number of the weighing facility nearest you. MOTORIZED - UNIT WEIGHT INFORMATION SHEET This motorhome is designed to allow for a wide variety of uses from extended trips with two people to short trips with multiple people. Accordingly, this unit allows ample room for sleeping, seating, fluids and cargo. While the customer is the beneficiary of this design, the customer also bears the responsibility to select the proper combination of passengers, cargo load and towed vehicle without exceeding the chassis weight capabilities. Seat belts are required to be worn in most states, and should always be used for passenger safety. Seat belts have been provided at most seating locations to allow convenience in selection which seat to occupy. However, it is not intended that all seating positions equipped with seat belts may be occupied while vehicle is in motion, without regard to other weight factors. DO NOT EXCEED THE CARGO CARRYING CAPACITY OF THIS VEHICLE SER#: YEAR: 2004 MODEL: PRODUCT: SPORTSCOACH VIN#: TAG GAWR: 6 LRS. REAR GAWR: FRONT GAWR: *ACTUAL WEIGHTS AS MANUFACTUR /* LBS. LEFT REAR: LBS. FFT TAC-LBS. LEFT FRONT: LBS. GHT TAG: RIGHT FRONT: RIGHT REAR: LBS. LBS. GVWR (GROSS VEHICLE WEIGHT RATING) is the in rum permissible weight of this fully loaded motorhome LBS. UVW (UNLOADED VEHICLE WEIGHT) is the weight of the continue as manufactured at the factory with full fuel, engine oil, and coolants. The UVW does not include argo, fresh water, LP gas, occupants, or dealer installed accessories. LBS. NCC (NET CARRYING CAPACITY) is the a vibelongings, food, fresh water, accessories, etc., that can is an weight of all occupants, including the driver, personal carried by this motorhome. LBS. SCWR (SLEEPING CAPACITY WE GHT RATING) is the manufacturer triesignated number of sleeping positions multiplied by 154 pounds 70 kilograms). LBS. SCWR (SLEEPING CAPACITY WE GHT RATING) is the manufacturer triesignated number of sleeping positions multiplied by 154 pounds 70 kilograms). the following: UVW, full fresh LBS. CCC (CARGO CARRYING CAP. The deput to the GVWR (potable) water weight (including water heats) the LP-Gas weight and LBS. GCWR (CROSS COM. LATION WEIGHT RATING) mention thomas and any towed trails of the deput cap. Com. Grant GCWR of the GVWR and the installed little in Lagracity. See hitch ratin tabel for is qual to the GVWR minus ea LP-Gas weight and SCWR. the maximum allowable loaded weight of this yehigh may be limited by the sum of the ATION (KG.) 3 lb/gal (3.8kg/gal)...... ib/gai (2kg/gal). n (70kg/person). nstalled equipment and towed vehicle tongue weight will reduce CCC OPTION WEIGHTS IN LBS. (Net weight added for manufacturer installed options) ALL WEIGHTS ARE APPROXIMATE and provided to assist the operator in the proper loading of this vehicle. WARNING: CONSULT OWNER MANUAL(S) FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES INCLUDING AUXILIARY BRAKE REQUIREMENTS FOR ANY TOWED TRAILER OR TOWED VEHICLE.



WEIGHT DEFINITIONS

GVWR (GROSS VEHICLE WEIGHT RATING) is the maximum permissible weight of this fully loaded motorhome.

GAWR (GROSS AXLE WEIGHT RATING) is the allowable weight, including cargo, which can safely be supported by each axle.

STEP 1—Drive only the front wheels of the unit 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.

FOUR CORNER WEIGHING

It is desirable to obtain the individual weights at each tire, (dual tires on the rear). This requires using scales which are capable of measuring each corner weight individually. The corner weights should not exceed ½ of the respective Gross Axle Weight Rating (GAWR) or the maximum load rating for the tire (or dual tires at the rear), which ever is less. The maximum load rating for the tire can be found embossed on the tire's sidewall.

NOTE: If any of the corner weights exceed ½ of the listed GAWR or tire ratings, relocate the passengers and redistribute or remove a portion of the cargo until the weight is within the proper limits for all four corners of the vehicle.

TOWING

If your motorhome is equipped with an optional hitch towing package, do not exceed the Gross Combined Weight Rating (GCWR) as stated in the chassis manufacturer's owner's manual, or the rated capacity of the installed hitch (whichever is less).

An example of hitches Sportscoach uses are shown below.





HIDDEN HITCH (curved)

SURE PULL HITCH (straight)

DRIVING YOUR MOTORHOME

Get to know how your vehicle handles. Power steering and air brakes help make driving your motorhome as effortless as possible. Keep in mind it is longer, higher, wider and heavier than the family automobile, and the driving compartment is located forward of the front wheels. Before leaving on a trip, practice making right and left turns, braking, backing and accelerating. Your vehicle is designed to travel at maximum legal highway speeds, under ideal conditions. Under less than ideal conditions, your vehicle should be operated at reduced speed and it should never exceed the posted legal speed limits.

SEAT BELTS

Seat belts are an important safety feature of your vehicle. For your protection, fasten all seat belts while your motorhome is in motion. Adjust the belt low on the abdomen and as snugly as comfort will allow, for greatest safety. Never use a belt for more than one person at a time. caumon: All occupants should be furnished with and use seat belts while the vehicle is in motion. Do not occupy the beds while traveling as safety protection is not provided.

COMMENTS

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CAUTION!!

Exceeding the GVWR and GAW Ratings for your motor home could result in serious damage to the suspension, frame, or other components of your vehicle and VOID THE WARRANTY on those parts.

Use of heavier suspension components (springs, shocks, axles) or heavier-ply tires does not increase the weight ratings printed on the vehicles' certification plate. The GAWR of each axle is determined by the axle system components with the lowest weight-carrying capacity. To avoid overloading your vehicle check the GVWR and GAWR.

TIP: A PROPERLY LOADED UNIT CAN HELP CONSERVE FUEL AND PRE-VENT EXCESSIVE WEAR.

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A WARNING!!

ALL OCCUPANTS MUST BE FURNISHED WITH AND USE SEAT BELTS WHILE THE VEHICLE IS IN MOTION. **DO NOT** OCCUPY THE BEDS WHILE TRAVELING AS SAFETY PROTECTION IS NOT PROVIDED.

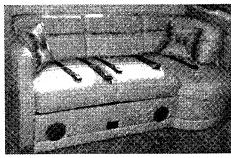
WARNING!!

FOR MAXIMUM PROTECTION, CHILDREN MUST BE TRANS-PORTED RESTRAINED.

INFANTS SHOULD BE PLACED
IN THE APPROPRIATE SIZE CAR
SEAT AND RESTRAINED BY A
SEAT BELT. SMALL CHILDREN
SHOULD BE RESTRAINED IN A
CHILD SAFETY SEAT AND BELTED SECURELY IN PLACE.

NOTE: BOTH TYPES OF CHILD SAFETY SEATS MUST BE SECURED IN THE VEHICLE IN ACCORDANCE WITH THE CHILD SEAT MANUFACTURER'S INSTRUCTIONS.

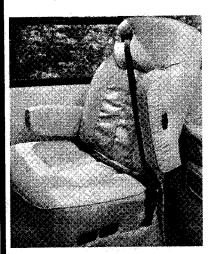




For your safety, our seat belts meet the FMVSS standards as stated by the government.

DRIVER AND PASSENGER SEATS

Some driver and passenger chairs slide, swivel and recline; others may slide and swivel or slide only. Have your dealer demonstrate the operation of the drivers' seat.



The deluxe pilot seats feature 3-point seat belts with a shoulder harness that is integrated into the chair structure, rather than mounting the shoulder harness to the sidewall.



NOTES:

EURO CHAIR

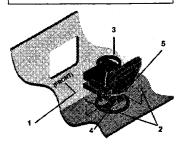
INSTRUCTIONS FOR USE
Before operating the vehicle:

- 1. Position the chair with the seat
- facing the wall.

 2. Insert the stud of the first knob
 through the hole in the hoop-base
 of the chair and thread into the nut
 located in the floor. Repeat with
 second knob. Hand tighten both
- knobs until the chair is secure.Place the ottoman upside down on the seating portion of the chair.
- Loop the strap around the leg of the ottoman, under the chair arms and around the chair back.
- Connect the plastic buckle on the ends of the strap and tighten until snug.

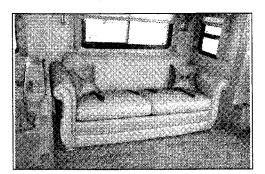
WARNING !!

THIS SEAT IS NOT FOR OCCUPANCY
WHILE VEHICLE IS IN MOTION.
SECURE OTTOMAN AND CHAIR
ACCORDING TO 'IINSTUCTIONS FOR
USE' (TO THE LEFT OF THIS WARNING).
FAILURE TO COMPLY COULD RESULT IN
SERIOUS INJURY OR DEATH.

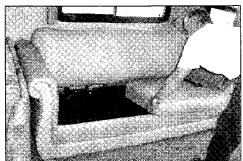




SOFA/SOFA BED



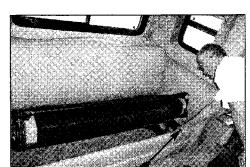
1. SOFA BED



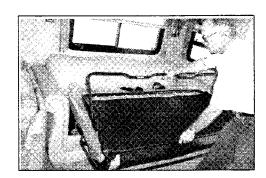
2. REMOVE CUSHIONS



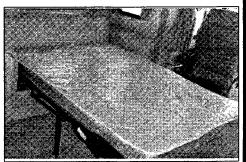
3. PULL UP ON LOCK BAR



4. PULL RELEASE LEVER



5. PULL FRAME UP AND OUT



EXTEND LEGS AND UNFOLD MATTRESS

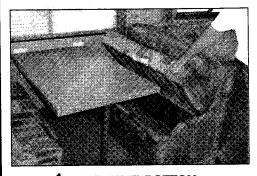
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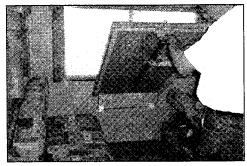


DINETTE/BED

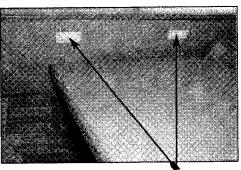




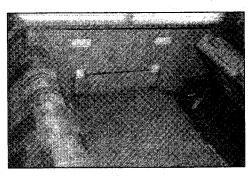
1. LIFT SEAT BOTTOM



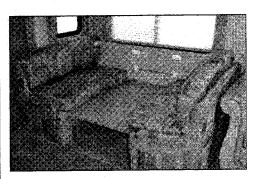
2. LIFT TABLE AND FOLD LEG



3. LIFT TOP OUT OF TABS



4. SWING TOP DOWN AND PLACE ON SEAT FRAME



5. REPLACE SEAT CUSHIONS



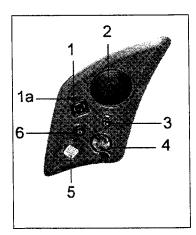
6. PLACE BACK CUSHIONS ON TABLE AND PRESS INTO PLACE



INSTRUMENT PANELS

Your vehicles' automotive instruments and controls are designed for convenience and safety. Since dashboards will vary depending on model and options chosen, read the chassis manufacturer's owner's manual for complete details on operation and maintenance of the systems.

The illustrations shown below are for <u>reference only</u> and may not appear the same in your RV. Your Sportscoach dealer will be happy to acquaint you with the controls in your vehicle.



LEFT DASH PANEL EXAMPLE

LEFT DASH PANEL

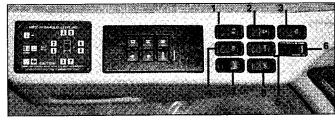
- REMOTE MIRROR HEATER
 SWITCH (OPTION FOR CROSS
 COUNTRY
- 1a.REMOTE MIRROR DIRECTION SWITCH
- 2. AIR VENT
- 3. DIMMER SWITCH, DASH
- 4. IGNITION
- 5. PARKING BREAK SWITCH
- 6. HEADLIGHT SWITCH

1 2 5 3 4 3 4 10 10 albc

RIGHT DASH PANEL EXAMPLE

RIGHT DASH PANEL

- 1. AIR VENT
- 2. DASH RADIO
- 3. EMERGENCY START SWITCH
- 4. RADIO POWER SWITCH
- 5. GENERATOR SWITCH
- 6. DASH A/C AND HEAT
- 7. REAR MONITOR
- 8. 12 VOLT OUTLETS
- 9. DASH SWITCHES
 - a. POWER SUN VISOR-DRIVER
 - b. POWER SUN VISOR-PASSENGER
 - C. FLOOR LIGHTS SWITCH (OPTIONAL)
- 10. INDICATOR LIGHTS
 - a. STEP 'OUT'
 - b. JACKS 'DOWN'
 - C. ANTENNA 'UP' (SPORTSCOACH LEGEND ONLY)
 - d. DAY TIME RUNNING LIGHTS (CSA ONLY)
 - e. GENERATOR



LEFT DRIVER PANEL

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- 1. DOCKING LIGHT
- 2. DEFROST FAN
- 3. WIPER DELAY/WASHER (CROSS COUNTRY)
- 4. DRIVING LIGHT

- 5. AIR HORN/ ELECTRIC HORN
- 6. WIPER/LOW-HIGH
- 7. PSGR. DOME LIGHT (CROSS COUNTRY)
- 8. EXHAUST BRAKE

Note: Unassigned switches will be blank and have no icon.

Sportscoach® Owner's Manual

NOTES

COMMENTS



NOTES:

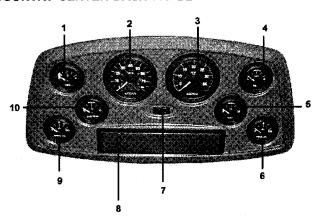
STEERING WHEEL CONTROLS (IF EQUIPPED)

THE STEERING WHEEL SHOWN ON THE LEFT IS USED ON FREIGHTLINER CHASSIS'. CONTROLS FOR THE WIND-SHIELD WIPERS AND LIGHTS ARE ON THE STEERING WHEEL.

ANY PARTS NEEDED FOR THE 'SMART WHEEL' SHOULD BE OBTAINED FROM A FREIGHTLINER DISTRIBUTOR.

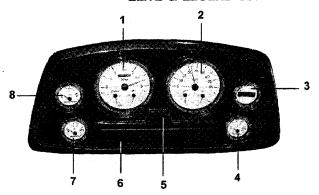
CROSS COUNTRY CENTER DASH PANEL

PICTURED TO THE RIGHT IS THE CENTER DASH PANEL FOR THE CROSS COUNTRY. DETAILS ARE LISTED BELOW.



- 1. FUEL GAUGE
- 2. SPEEDOMETER
- 3. TACHOMETER
- 4. OIL PRESSURE GAUGE
- 5. VOLT METER
- 6. REAR AIR PRESSURE
 - 10. ENGINE TEMPERATURE
- 7. TRIP ODOMETER RESET
- 8. ENGINE WARNING LIGHTS
- 9. FRONT AIR PRESSURE

ELITE & LEGEND CENTER DASH PANEL



PICTURED ON THE LEFT IS THE CEN-TER DASH PANEL FOR THE SPORTS-COACH. DETAILS ARE LISTED BELOW.

- 1. TACHOMETER, OIL PRESSURE, ENGINE TEMPERATURE
- 2. SPEEDOMETER, VOLTMETER, FUEL LEVEL
- 3. FRONT AIR PRESSURE
- 4. ODOMETER, TRIP ODOMETER

- 5. TRIP ODOMETER RESET
- 6. ENGINE WARNING LIGHTS
- 7. TRANSMISSION TEMP
- 8. REAR AIR PRESSURE



OPERATING YOUR VEHICLE

CLEARANCE

Be sure to read "Clearance Height" signs on overpasses, drive-through windows, etc. Be alert for overhanging tree branches, awnings or similar obstructions that can damage your vehicles' roof or roof-mounted equipment. Check with your dealer for clearance measurements of the unit.

MIRRORS

Be sure side view mirrors are positioned properly for best vision. To properly adjust the mirrors, first loosen the locking screw with the allen wrench supplied in the Owners Information Package. Adjust the mirrors so you can see along the side and behind the motor home and retighten the locking screw. The mirrors can then be 'fine tuned' using the electric adjustment switch on the dash. This switch allows you to adjust the mirrors up, down, and side to side. There may also be a rocker switch above the adjustment switch for the heated mirror option. The rocker switch will light up to indicate it has been activated.

PULLING INTO TRAFFIC

Check for oncoming traffic in all directions. Signal before entering the flow of traffic. Always accelerate slowly and smoothly; the weight of your vehicle makes quick acceleration not only difficult but potentially unsafe.

PASSING

Avoid sudden maneuvers when passing a slower moving 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 outside rearview mirrors and signal lane change. Have safe clearance, signal lane change and return to your original lane.

BRAKING

Your Sportscoach rear diesel is equipped with dual air brakes *and exhaust brakes. (*Use exhaust brakes in accordance with chassis manufacturer.) Read thoroughly your Chassis Owners Manual for a complete description of the system and driving and maintenance tips.

- **Normal Stops:** Push the brake pedal down, controlling the pressure so the vehicle comes to a smooth, safe stop.
- Emergency Stops: Brake evenly so you can steer your vehicle in a straight line. Use one of the following braking methods.
 - a. Controlled Braking-This method is also called "squeeze" braking. Put on the brakes as hard as you can without locking the wheels. Do not turn the steering wheel while doing this. If you need to make large steering adjustments or if you feel the wheels sliding, release the brakes. Brake again as soon as the tires get traction.

b. Stab Braking

- a) Press hard on the brake pedal.
- b) Release the brakes when the wheels lock up.
- c) As soon as the wheels start rolling, press hard on the breaks again. It can take up to one second for the wheels to start rolling after you release the brakes. Be sure you release the pressure on the brakes long enough to allow the wheels to begin rolling again, otherwise the vehicle may not stay in a straight line.

AIR BRAKE SYSTEM

Air brakes use compressed air to make the brakes work. Air brakes are a safe way of stopping large vehicles if the brakes are well maintained and used right. Normal system air pressure for your vehicle is 120 psi. Air brake systems are three braking systems

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NEVER PUSH THE BRAKE PEDAL DOWN WHEN THE SPRING BRAKES ARE ON. IF YOU DO. THE BRAKES COULD BE DAMAGED BY THE COMBINED FORCES OF THE SPRINGS AND THE AIR PRESSURE. MANY BRAKE SYSTEMS ARE DESIGNED SO THIS WILL NOT HAPPEN. BUT NOT ALL SYSTEMS ARE SET UP THAT WAY, AND THOSE THAT ARE MAY NOT ALWAYS WORK. IT IS MUCH BETTER TO DEVELOP THE HABIT OF NOT PUSHING THE BRAKE PEDAL DOWN WHEN THE SPRING BRAKES ARE ON.

NOTES:

combined: the service brake system; the parking brake system; and the emergency brake system. The **service brake** system applies and releases the brakes when you use the brake pedal during normal driving. The **parking brake** system applies and releases the parking brakes when you use the parking brake control. The **emergency brake** system uses parts of the service and parking brake systems to stop the vehicle in the event of a brake system failure.

PARKING BRAKE

All large vehicles such as your motorhome must be equipped with parking brakes and emergency brakes. They must be held on by mechanical force (because air pressure can eventually leak away). Spring brakes are used to meet these needs. When driving, powerful springs are held back by air pressure. If the air pressure is removed, the springs put on the brakes. A parking brake control allows the driver to let air out of the spring brakes. This lets the spring put the brakes on. When the parking brake is released, air pressure again forces the springs back.

EMERGENCY BRAKE

A leak in the air brake system which causes all the air to be lost will allow the springs to put on the brakes without any action by the driver. When air pressure drops to 40 to 60 psi, the low air pressure warning buzzer alerts the driver that the emergency brakes are about to be applied. Do not wait for the brakes to come on automatically. When the buzzer sounds bring the vehicle to a safe stop right away while you can still control the brakes.

AIR TANK DRAINS

Compressed air usually has some water and some compressor oil in it which is bad for the air brake system. For example, the water can freeze in cold weather and cause brake failure. The water and oil tend to collect in the bottom of the air tank. Therefore each air tank is equipped with a drain valve in the bottom. You must drain the tanks at the end of each day of driving.

Note: Thoroughly read your Chassis Operator's Manual for information regarding maintaining your coach's air brake system. Your Sportscoach dealer will be happy to assist you in answering your question.

STOPPING DISTANCES

With air brakes there is an added delay after the brake pedal is pushed. Whereas the brakes on your car work instantly, with air brakes it takes a little time (one-half second or more) for the air to flow through the lines to the brakes. At 55 mph on dry pavement the brake lag distance adds about 32 feet to the total stopping distance. So at 55 mph for an average driver under good traction and brake condition, the total stopping distance is over 300 feet. This is longer than a football field.

EMERGENCY STOPPING

Always carry road flares or reflective warning signs to display, if necessary. Pull off the roadway as far as possible for emergency stopping or tire changing. Turn on your vehicle hazard warning flashers when parked alongside traffic lanes.

PARKING ON A GRADE

Parking your vehicle on an upgrade or downgrade is not recommended. If it is necessary in an emergency, always apply the foot brake, then set the parking brake before shifting the transmission to neutral. When preparing to move, shift out of neutral before releasing the parking brake. On severe grades it may be necessary to have a passenger place wheel chocks behind the tires of your vehicle.

Note: Using the transmission to hold the vehicle on an upgrade may cause the engine or transmission to overheat.

DOWNGRADES

When going down long grades, use low gear and go slow enough that a fairly light, steady use of the brakes will keep you from speeding up. If you go slow enough, the



brakes will be able to get rid of the heat so they will work as they should. Tests show that using the brakes hard and then letting up on them from time to time does not allow them time to cool as some people mistakenly believe.

UPGRADES

To avoid engine overheating when climbing a steep grade, reduce speed and shift the transmission to a lower gear.

OVERHEATING

If your vehicles' engine overheats, pull well off the road. Shift to neutral, engage parking brake 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 by following the instructions for Downgrades and Upgrades and turning off the dash air conditioner during those times.

SWAYING OR FISHTAILING

If this happens while you are towing a vehicle, accelerate slightly and then gradually slow down. If your vehicle still sways, pull off the road and check the following:

- 1. Towing Equipment
- 2. Distribution of cargo
- 3. Tire pressure
- 4. Vehicle front-end alignment and suspension

TURNING CORNERS

The distance from the rear axle to the back of the rear bumper is called rear overhang or angle of departure. It is greater on a recreational vehicle than it is on an automobile. On the highway this overhang poses no serious problem, but on narrow streets or in any situation requiring a tight turn, the arc of the swing of the rear end is dangerous to itself and to anything close by. The longer the overhang, the greater the swing of the arc. The swing of the arc is always opposite to that of the turn; so, for example, when you turn to the left, your right rear swings out. When making a right turn, pull into the intersection past the curb a little further than you would with an automobile to avoid hitting or driving over the curb with your tires. The sideview mirrors will aid you in this maneuver.

BACKING

Remember that your motorhome is higher, wider and longer than other vehicles you may own, so it is extremely important that you back the RV slowly. If your unit does not have the optional Rear Back-up Camera, visibility will be somewhat restricted and may require stationing someone beside the unit to guide the driver.

FREEING AN IMMOBILE MOTORHOME

To pull your vehicle out of the snow, sand or mud, apply slight pressure to the accelerator pedal and shift the transmission rhythmically between forward and reverse gears. CAUTION: PROLONGED ROCKING, EVEN AT LOW SPEEDS, MAY CAUSE ENGINE OVERHEATING, TRANSMISSION AND AXLE DAMAGE OR FAILURE, OR TIRE DAMAGE.

TIRE CHANGE

Your rear diesel vehicle is equipped with heavy-duty truck tires weighing upwards of 150 lbs. Due to this fact, both Sportscoach and the chassis manufacturer recommend that tire changes be done <u>only by a professional tire service.</u>

RECOVERY TOWING ON THE ROAD

If your vehicle needs to be towed the following guidelines should be used:

- 1. The vehicle **MUST** be towed only from the front. See **Chassis Operators Manual**.
- 2. Be prepared to give the tow truck operator at least the following information when you call:

COMMENTS

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CAUTION!!

Prolonged rocking, even at low speeds, may cause engine overheating, transmission and axle damage or failure, or tire damage.

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A CAUTION!!

Do not allow your vehicle to be towed without first having read related sections of the Chassis Operators Manual.

NOTE:

COACHMEN DOES NOT ASSUME RESPONSIBILITY FOR DAMAGE INCURRED WHILE TOWING THIS VEHICLE.

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- Length and height of vehicle.
- Chassis Manufacturer gross vehicle weight
- · Axle weight ratings. (This information is found on the vehicle certification label located to the left of the drivers seat.)
- 3. It is recommended that you ask for an UNDERLIFT (wheel lift or frame lift) type towing assembly for safe towing.

TO PREPARE YOUR VEHICLE FOR TOWING:

- Secure any loose protruding body parts of the disabled vehicle.
- Secure any heavy loose items in the interior.
- Turn off all LP gas appliances and shut off the LP gas tank valve.
- Do not allow anyone to ride in the towed vehicle.

EMERGENCY TOWING

Do not allow your vehicle to be towed without first having read related sections of the Chassis Operators manual. Coachmen Industries does not assume responsibility for damage incurred while towing this vehicle.

AIR CYLINDER SUSPENSION

Your rear diesel vehicle may be equipped with front and rear air cylinder suspension. Air pressure in these cylinders is set at the factory for optimum ride and coach height. If necessary, the cylinder pressure can be adjusted by means of one valve on the rear suspension and two valves on the front. If you suspect a problem with your coach suspension consult with your chassis manufacturer/dealer.

CAMPSITE SELECTION

There are many campground guides that will assist you in making your selection. Many campgrounds accept reservations, and during peak seasons, it is wise to make a reservation. If possible, arrive early so you can inspect and choose your campsite during the daylight hours. During the winter months it is desirable to take advantage of natural windbreaks like trees, bushes or any similar type of windbreak. This will cut down the possibility of cold drafts that can affect the comfort level of your vehicle. Common courtesy will help make your stay more pleasant. Campsites often are close together and loud noises may disturb neighboring campers. Follow the posted rules of the campsite. Open fires might not be permitted. If you are permitted to build a campfire, clear the area of all flammable materials; never leave a campfire unattended, and always make certain the embers are completely extinguished before leaving the campfire or before going to sleep. Good RV'ers are proud of the fact that they always leave a campsite cleaner than they found it.

It is very important that your vehicle is level. This allows your refrigerator and drainage systems to operate properly (both function by gravity). To determine levelness, place a level on the bottom of the refrigerator's freezer compartment or on a normally level location inside the vehicle. You may wish to permanently attach levels (available at your dealer) on the front and/or back and sides of the vehicle. This will allow you to tell at a glance if you've stopped on a level site and will help speed the leveling process.

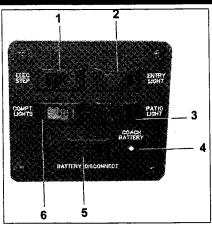
MONITOR PANELS/POWER CENTER

ENTRY DOOR SWITCH PANEL

The switch panel just inside the entrance door is conveniently located to allow you to activate several features as you enter the vehicle.







IMPORTANT

YOU MUST DISCONNECT THE CHASSIS ELECTRICAL SYSTEM IF THE ENGINE WILL NOT BE START-ED FOR MORE THAN 48 HOURS. ON A FREIGHTLINER CHASSIS THE CHASSIS BATTERY DISCONNECT SWITCH IS MOUNTED ON A PLATE ABOVE THE RADIATOR, ACCESSED THROUGH THE REAR COMPART-MENT DOOR. ON A SPARTAN CHASSIS IT IS LOCATED INSIDE THE REAR DOOR SIDEPASSENGER STORAGE COMPARTMENT.

IMPORTANT

IN ORDER FOR THE COACH BATTERIES TO BE CHARGED, THE COACH BATTERY LIGHT MUST BE ON PRIOR TO PLUGGING IN THE SHORELINE CORD, RUNNING THE ENGINE, OR RUNNING THE GENERATOR.

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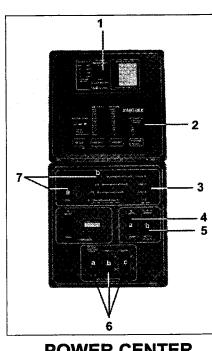
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ENTRY DOOR SWITCH PANEL (FREIGHTLINER)

These features include the following:

- 1. ELECTRIC STEP SWITCH: Allows the entrance door step to stay out when using the vehicle. If you forget to turn the switch on, the step will retract when the ignition key is turned on.
- 2. ENTRY LIGHT: Turns on a ceiling light (as long as the switch on the light is in the **ON** POSITION)
- 3. PATIO LIGHT: Turns the patio light on and off
- 4. COACH BATTERY: The green light indicates the coach battery is connected.
- 5. BATTERY DISCONNECT: Allows you to disconnect the coach batteries when the motor home is not being used. This will reduce battery drain. To connect the batteries, simply push the switch. A light will come on to indicate the batteries are connected. To disconnect the batteries, push the switch again and the light will go out, indicating the batteries are disconnected.
- 6. COMPARTMENT LIGHTS: Controls the compartment lights If you leave any compartment lights on, they can be shut off from this panel.

- 1. ENERGY MANAGEMENT SYSTEM (IF EQUIPPED)
- 2. INVERTER PANEL (IF EQUIPPED)
- 3. BATTERY CONDITION
- 4. WATER PUMP
- 5. WATER HEATER
- 6. SLIDE OUT CONTROLS
 - a. MANUAL OVERRIDE SWITCH
 - b. FRONT SLIDEOUT CONTROL
 - C. REAR SLIDEOUT CONTROL
- 7. HOLDING TANK CONTROLS
 - a. TEST SWITCH
 - b. TANK FLUID LEVELS



POWER CENTER



WARNING!!

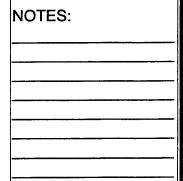
OPERATING THE ROOM WHILE THE ROOM-LOCKING DEVICES ARE INSTALLED CAN CAUSE PERSONAL INJURY AND VEHICLE DAMAGE. IT IS THE OPERATOR'S RESPONSIBILITY TO ENSURE THAT ALL ROOM-LOCKING DEVICES ARE DISENGAGED BEFORE OPERATING THE ROOM.

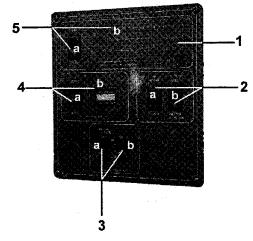


THE PARKING BRAKE MUST BE SET AND THE JACKS MUST BE EXTENDED BEFORE A ROOM CAN BE EXTENDED OR RETRACTED.

A WARNING!!

- Always be sure the vehicle is level before operating the slide-out room.
- Always be sure there are no obstructions blocking the path of the room when it is moving.
- Always make sure that the room path is clear of people and objects before operating.
- 4. Always keep away from the slide rails when the room is in motion. (The gear assembly may pinch or catch on loose clothing causing personal injury). Install travel locks for storage and transportation.





CROSS COUNTRY MONITOR PANEL

- 1. BATTERY CONDITION
- 2. WATER
- a. PUMP
 - a. PUMP
 - b. HEATER
- 3. SLIDEOUT CONTROLS
 - a. MANUAL OVERRIDE SWITCH
 - b. IN/OUT SWITCH
- 4. GENERATOR
 - a. START/STOP SWITCH
 - b. GENERATOR CHARGE LEVEL
- 5. HOLDING TANK CONDITION
 - a. TEST SWITCH
 - b. TANK LEVELS

SLIDE OUT SYSTEM

TRAVELLOCK

WARNING!!

OPERATING THE ROOM WHILE THE ROOM-LOCKING DEVICES ARE INSTALLED CAN CAUSE PERSONAL INJURY AND VEHICLE DAMAGE. IT IS THE OPERATOR'S RESPONSIBILITY TO ENSURE THAT ALL ROOM-LOCKING DEVICES ARE DISEN-GAGED BEFORE OPERATING THE ROOM.

SLIDE ROOM MANUAL RETRACTION (Sportscoach) Main and Kitchen Slideout Rooms



Locate the slide out mechanism drive gear cross shaft. The off-door side main slide mechanism can be found inside the storage compartment door <u>under the slide room</u> (looking up inside the compartment). The kitchen slideroom mechanism can be found behind the front wheel well.

- A manual override hex head is located on the end of the drive gear cross shaft.
- Using a ¾" socket and ratchet, connect to the override hex head.
- Have someone press down and hold the override switch located next to the slide out operation s witch inside the coach.
- With the switch depressed, begin cranking the roon 'IN' with the ratchet.
- When the room is fully retracted, return the override switch to the normal operating position.

Bedroom Slideout Room (Electric)

WHEEL WELL

CROSS SHAFT

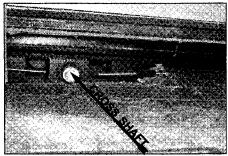
TIRE

HEX HEAD

- Remove the panel located in the bed base exterior facing the front of the coach. A
 cross shaft will be exposed which has a manual override collar with a hex head.
 Press down and hold the manual override switsch located next to the slide out
 operation switch inside the coach.
- Using the appropriate size socket and a ratchet, crank the room in.
- When the room is fully retracted, return the override switch to the normal operation position.





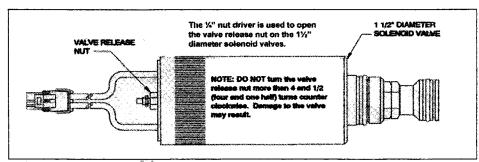


SLIDEOUT ROOM MANUAL RETRACTION (Cross Country) Main Slideout Room

- Locate the override switch at the main control panel and have someone depress and hold the switch.
- Locate override shaft with hex head in driver's side front wheel well behind the tire.
- Using a 11/6" socket and ratchet, crank room in.
- · When retracted, release switch.

Bedroom Slide Out Room (Hydraulic)

- Locate slide out hydraulic pump located in compartment directly below driver's cockpit and open valve.
- · Push room by hand until closed.
- Return valve on pump to 'CLOSED' position.



HWH HYDRAULIC PUMP

Bedroom Slide Out Room (Electric)

*See Bedroom Slide Out Room (Electric) for Sportscoach on previous page.

PREVENTATIVE MAINTENANCE

Your slide out system has been designed to require very little maintenance. To ensure the long life of your slide out system follow these simple steps:

- 1. When the room is out, visually inspect the inner slide rail assemblies. Check for excess build-up of dirt or other foreign material; remove any debris that may be present.
- If the system squeaks or makes any noises it is permissible to apply a coat of light weight oil to the drive shaft and roller areas. Remove any excess oil so dirt and debris do not build-up. DO NOT use grease.

SHOULD YOU REQUIRE ADDITIONAL ASSISTANCE,
PLEASE DO NOT HESITATE TO CALL
COACHMEN CUSTOMER SERVICE @ 1-800-453-6064.

COMMENTS

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COMMENTS NOTES:

AIR QUALITY

CONDENSATION

Condensation is "the process by which a gas or vapor is changed to liquid". This process occurs when there is too much moisture in the air and not enough air movement. It can be a problem in modern, tightly-constructed, well insulated RV's. Certain amounts of condensation should be expected, especially on cool surfaces such as windows, roof vents, and metal door frames. However, excessive condensation can cause water damage and infiltrate the RV's' insulation causing it to become damp, thus reducing its' insulation properties.

Condensation can appear as fog, frost or ice on the inside of windows indicating moisture is trying to escape to mix with drier air. It may also occur inside the walls and ceilings where it is hidden from view. Evidence of trapped water vapor or hidden condensation could be water stains on the ceiling, warped moldings or trims, water running down the walls, dripping from fixtures or softened wall or ceiling materials. Other indicators of excessive moisture could be damp carpet, paint failure, mold or mildew and damage to furniture. If any of these situations listed above should occur, be sure to check all the normal functions of your RV, such as plumbing, seals, windows and roof, before assuming it is condensation. Just like your home, inspections and maintenance should be performed on a regular basis.

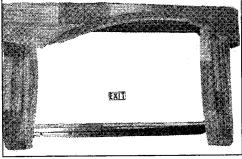
Keep in mind that your RV is a confined space and unlike a permanent dwelling, has limited venting capacity. Activities such as cooking, dish washing, cleaning, laundry and bathing add moisture to the air, so when performing these functions remember to keep your RV well ventilated to allow moisture to escape. By being aware of the causes, you may also be able to decrease the risks.

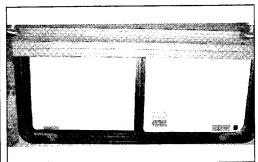
Your recreational vehicle was designed for recreational use and short term occupancy, **not** as a permanent dwelling. If you use your RV as a permanent dwelling or for prolonged periods of time, it is more susceptible to this condition. The number of inhabitants and pets residing in your RV are also a factor, as breathing and perspiration are impossible to avoid but do add to the moisture content in your unit.

If you intend to use your RV for an extended period, be prepared to take steps to prevent condensation, which can cause mold or mildew. Prevention can be a scheduled event, on **your** time frame; an unexpected repair is not only inconvenient, but can be more costly. REMEMBER: AN OUNCE OF PREVENTION IS WORTH A POUND OF CURE.

SAFETY FEATURES

EMERGENCY EXIT WINDOWS





BEDROOM EXIT WINDOW

LIVING AREA EXIT WINDOW

GENERALOPERATION PROCEDURE FOR EMERGENCY WINDOWS-PULL THE RED HANDLE(S) AT THE BOTTOM OF THE WINDOW AND PUSH THE WINDOW OUT.



Note: Emergency exit windows are located in the bedroom and in the living area and are marked by red and white labels. There are different types of emergency exit windows. Check with your dealer for the proper operation of the emergency exit windows installed in your motorhome.

Important: Before traveling, ensure that all occupants of the vehicle are familiar with the operation of the Emergency Exit. Check the window to be sure it is properly latched.

SAFETY EQUIPMENT



SMOKE DETECTOR

The smoke detector in your vehicle is powered by one 9 volt battery. The battery should last at least one year under normal operating conditions. When the battery reaches the end of its normal life, a low battery warning (intermittent beeping) will indicate the need for replacement. Important: Test smoke detector operation after the vehicle has been in storage, before each trip and at least once per week during use.

FIRE EXTINGUISHER

The fire extinguisher is located just inside the main entrance door. Please read the operating instructions that are printed on the fire extinguisher. If there is any doubt

regarding the operation of this fire extinguisher, you and your family should practice, then replace or recharge the extinguisher.

CARBON MONOXIDE DETECTOR (COACH BATTERY DISCONNECT MUST BE 'ON') Your vehicle is equipped with a carbon monoxide detector designed for years of trouble free service. It is powered by the vehicles' battery/converter. If the carbon monoxide level rises above a preset level for a specified number of minutes, the alarm will sound until the reset button is pushed. The detector is located on the wall near the entrance to the bedroom. *Important:* Refer to the component Owners' Manual for complete operation, maintenance and testing procedures.

LP DETECTOR

Your LP Gas Leak Detector, located in the front living area of your unit, will always be in the 'ON' position when the unit is plugged in, the battery disconnect is 'ON' and the vehicle is being used. The system should be turned 'OFF' when the vehicle is in storage or will be unused for several days or more.



CAUTION!!

The leak detector <u>must</u> be on any time the coach is in use.

ELECTRICAL SYSTEM

Your vehicle contains two separate electrical systems: 12-volt direct current (DC) and 120-volt alternating current (AC), similar to the one in homes. These systems provide you with power while you are camped or are traveling. The 120-volt system requires an external source of 120-volt AC electricity, usually a campsite receptacle, auxiliary generator, or the coach inverter which uses the coach batteries to supply 120-volt AC power. The 12-volt electrical system is supplied by batteries, the power converter or the 12-volt source from the automotive chassis. To reduce the 12-volt load on your vehicle batteries, the 120-volt system should be used whenever a 120-volt hook-up is available. Although most components in your vehicle, (water pump, range hood light and fan, interior lights) operate only from a 12-volt source, the power converter changes 120-volt AC to 12-volt DC power.

COMMENTS

A WARNING

THE SAFE-T-ALERT™ DETECTOR(S) ARE CONNECTED TO THE 12 VOLT DC STORAGE SWITCH. THE DETECTOR(S) WILL NOT OPERATE WITH THE BATTERY DISCONNECT SWITCH IN THE 'OFF' POSITION.

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WARNING!!

THE SAFE-T-ALERT M DETECTOR(S) ARE CONNECTED TO THE 12 VOLT DC STORAGE SWITCH. THE DETECTOR(S) WILL NOT OPERATE WITH THE BATTERY DISCONNECT SWITCH IN THE 'OFF' POSITION.



CAUTION!!

The leak detector <u>must</u> be on anytime the coach is in use.

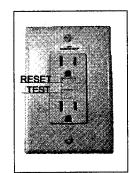
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120-VOLT SYSTEM

The 120-volt system supplies power for the following through the power center: refrigerator, exterior receptacles, interior receptacles (used to operate regular household appliances), and optional roof air conditioner. The converter provides 12-volt power for all of the unit's 12-volt components. When the external 120-volt power cord is used, the power is connected directly into the main electrical service panel of the power center and is distributed through circuit breakers.

GROUND FAULT INTERRUPTER

The bath, kitchen and exterior receptacles are protected by a ground fault interrupter (GFI). The GFI is a highly sensitive circuit breaker, built into the bath and kitchen receptacles, and connected to the outside receptacle. It protects against severe electrical shock, if a ground fault occurs in that circuit. The GFI senses the fault and breaks the bath, kitchen and exterior receptacle circuits. If this should happen, unplug all appliances on that circuit and reset the breaker in the bath or kitchen receptacle. The GFI system should be tested at least once a month. To test the GFI system, plug a test light into the outlet and push the "Test" button on the receptacle. The test light



should go out. To restore power, push the "Reset" button. If the button does NOT pop out or if the test light indicates a live circuit, DO NOT use the outlets and contact your Sportscoach dealer.

SHORELINE CONNECTION

The Shoreline is a heavy-duty, 50 amp cable with a 4-prong plug which supplies 120-volt AC to the power center. It can be pulled from its storage compartment through its access port and connected to a matching receptacle. For some models, the 50 amp service is optional. If this option was not ordered on your vehicle, it will be equipped with a 30 amp service and a 3-prong plug

Note: If there is no 50 amp receptacle available, and you must use an adapter, the usable amperage will equal the rating of the adapter and the receptacle being used.

The 120-volt system is protected by the circuit breakers. If a circuit breaker opens, unplug the appliance(s) on that circuit, allow a short period for the breaker to cool, and reset the breaker. If the breaker continues to open, it may be caused by an appliance you have added, or a fault in the electrical system. If you determine it may be a fault in the electrical system contact your Sportscoach dealer.

12 VOLT SYSTEM

The 12 volt system includes the chassis and coach batteries. The 12 volt converter supplies power to the exterior lights, range hood fan and light, the furnace blower, water pump, interior 12 volt receptacles, porch light and monitoring panel. The 12 volt receptacles can only be used for appliances specifically designed for that type of energy. The 12 volt energy is supplied by the automotive battery, the coach batteries or the power converter. The automotive alternator supplies 12 volt power to the vehicles' lights and components and the vehicles' 12 volt system, including running lights, brakes and appliances, when the engine is running. The automotive alternator also will charge the coach batteries. The coachs' batteries are charged by the power converter when you are using a Shoreline connection, generator, or external 120 volt power source. To check the battery using the monitor panel, disconnect the shoreline and turn on at least three interior lights. (A discharged battery will show full charge unless some electricity is being drawn.) With extremely heavy usage, battery water level should be checked daily.

AUXILIARY GENERATOR

The auxiliary generator is a diesel or LP gas-operated unit that provides 120-volt electricity. Its' fuel supply is from the vehicle fuel tank or LP gas supply tank. A remote start switch is located on the dash and at the monitor panel location. An automatic transfer switch incorporated in the power center prevents the simultaneous use of the generator and the shoreline connection. When the generator is started, the transfer



automatically switches from shoreline to generator power. When the generator is shut down, the transfer automatically switches to shoreline power. Every time you start the engine there is a 30 to 45 second delay before the vehicle electrical load is connected. This allows the generator to reach normal operating speed with no load. Refer to the operators manual supplied with the generator for specific operating instructions.

WARNING!!

Exhaust gas presents the hazard of severe personal injury or death. Do not open roof vents, windows or doors when generator is running as these could draw fumes into your vehicle. Do not operate the generator where an object such as a tree, bush or building can deflect exhaust to the inside of your unit.

POWER DISTRIBUTION CHART

CHASSIS BATTERY 12 VOLT BATTERY 110 VOLT ELECTRICAL **Battery Disconnect AND/OR POWER CENTER Power Center** Starter (engine) All Receptacles **Battery Disconnect Head Lights** Refrigerator Cooling System Generator Starter Motor Tail Lights Air Conditioner(s) All Interior Lighting Stop Lights Microwave Porch Light Turn Signals Washer/Dryer Trunk Lights Parking Lights **VCR Power Step Back-Up Lights** Television(s) Leveling System Clearance Lights Water Pump License Plate Light Monitor Panel Dash Lights Range Vent Map Lights Power Roof Vent Hom **Television Antenna** Windshield Wipers Water Heater (Elec. Ignition) **Back-Up Monitor** Furnace (Elec. Ignition) Heater Fans Grab Handle (Lighted) **Defrost Fans** Refrigerator Controls **Heated Mirrors** Inverter **Power Seats** Radio

CONVERTER

The power converter, located in an exterior compartment, transforms 120-volt AC into 12volt DC to supply power to all of the 12-volt systems. Each 12-volt circuit is protected by a fuse. 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 is blown, 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, notify your dealer. See the power converter manufacturer's manual for specifications, operation and testing procedures.

INVERTER

Your vehicle may be equipped with the optional inverter. This allows you to operate certain 120 volt appliances and outlets without using the generator or shoreline cord. Because the inverter uses the coach batteries to convert 12 volt DC power to 120 volt AC power, the coach batteries must be fully charged. The control panel is located in the coach command center. Specific operating instructions will be in the operators manual which is supplied with the motorhome.

COMMENTS

🕰 WARNING!!

Exhaust gas presents the hazard of severe personal injury or death. Do not open roof or sidewall vents, or windows or doors when generator is running as these could draw fumes into your coach. Do not operate the generator where an object such as a tree, bush or building can deflect exhaust to the inside of your unit.

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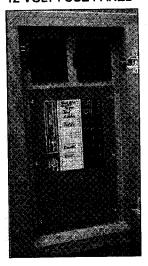
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CAUTION!!

Do not ignite the water heater until water heater tank is full. If it is not full, it will cause permanent damage to the water heater tank.

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12 VOLT FUSE PANEL



The 12 volt fuse panel contains blade type fuses. When a fuse is 'blown' the wire, visible through the top clearview window in the middle of the plastic casing, will be broken. You must replace a bad fuse with one of the same type and equal amperage rating. Using a fuse of a different type or ampere rating will defeat the circuit protection provided by the fuse and could result in damage to the motorhome's electrical system. If a fuse blows repeatedly, that may be an indication that there is a problem within the electrical system and should be diagnosed by a qualified repair center.

WATER SYSTEM

Fresh water is supplied either by the vehicles' fresh water tank, using the 12-volt demand pump, or by an exterior pressurized source (city water). The water heater is an LP gas and/or appliance that heats water to a preset temperature. To fill the water heater, simply turn on a hot water faucet. When water flows steadily, turn the faucet off.

CAUTION!! Do not ignite the water heater until water heater tank is full. If it is not full, it will cause permanent damage to the water heater tank.

Although a common garden hose can be used to fill the water tank and connect to city water, longtime RV'ers recommend a hose specifically manufactured for this, available at your RV dealer. Keep close watch while filling to avoid overfill and damage to the tank and surrounding structure.

To fill the fresh water tank, connect a hose to the city water fill. Place the operation valves in the tank fill position, then turn water on. When the tank shows full on the monitor panel, turn water off. Place operation valves in normal position and remove hose. Turn water pump on, open hot water faucet until water flows. Turn hot water faucet off and repeat with cold water faucet. The water pump should shut off and not come on until

WATER PANEL



a faucet is opened. To use city water, connect a hose to the city water fill. Place the operation valves in the normal position. Turn water on, then open a hot water faucet until water flows. Turn faucet off and repeat with cold water. Water pump should be shut off for city water use.

Note: In areas where city water pressure exceeds 60 psi, you should use a pressure regulator. Excessive water pressure may damage lines, connections, or other system components.

SANITIZING THE WATER TANK

The water tank on your vehicle is located beneath the floor of the unit just forward of the rear axle. The water tank should be sanitized before you use it for the first time; after a period of nonuse; and whenever you suspect the tank is contaminated. To sanitize your water tank, first empty the tank and then use the following procedures:

 Mix 2-1/2 cups of liquid household bleach with 10 gallons of water into a potable water container. (Follow procedure for adding water to water tank where no city water hook up is available.)



- Turn the vehicle's water pump "ON," open the hot water faucet, wait until the water begins to flow, and then turn the faucet "OFF." Do the same with the cold water faucet. Wait three hours.
- 3. Open faucets and line drains. Drain the entire system. Some solution will remain in the water heater.
- 4. Connect a hose to the city water fill. Begin filling the tank, Open the hot water faucet. Be sure the water pump is on. Let the water run until the system is completely flushed. Do the same with the cold water faucet. The hot water faucet will need to run longer to completely drain the water heater.
- 5. If a chlorine taste lingers, flush the system with a vinegar and water solution (one quart of vinegar to five gallons of water). Wait two to three hours and then flush with fresh water.

WATER PUMP

The water pump is a 12-volt DC appliance that is activated by a switch on the monitor panel. A second switch may be located at the exterior water compartment. The switch can be left on while camping. When you want water, simply open a faucet. The pump which supplies water from the fresh water tank will run only as long as is 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 might be empty, or there might be a leak in the system. If the city water hose is connected, the pump is not required. Refer to the water pump manufacturer's material for additional troubleshooting and winterizing information.

LEAKS

Traveling over bumpy or rough roads can cause pipe fittings to loosen. Check the pipe fittings in your unit regularly for signs of leakage.

DRAINAGE/SEWER

Your motorhome is equipped with a drainage sewer system that functions much the same as the one in your home. This system includes drain lines from the kitchen sinks, lavatory, tub/shower and marine type toilet to a gray-water holding tank and/or a sewage holding tank. The drainage system also includes vents that carry odors (caused by drain water and waste) out through the roof. The drainage system vents also equalize the air pressure, which 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

Flush the toilet before initial use and after emptying the holding tank, this will help to prevent collection of solids. To help control odors, there are a number of toilet and holding tank treatment concentrates on the market. These chemical concentrates are available at your Sportscoach dealer. To operate the toilet, step on the small pedal to add water to the bowl. When you have the desired amount of water in the bowl, slowly release the pedal. To flush this type of toilet, step on the large pedal until the water swirls and then slowly release the pedal. When you clean your toilet, do not use highly concentrated or highly acidic household cleaners (no scouring powder). If the pedal does not move freely, apply silicone spray. To ensure proper operation and maintenance, refer to your toilet manufacturer's operating manual.

HOLDING TANKS

Your drainage/sewer system has two holding tanks: gray water and waste (black) water. The gray water holding tank collects water from the kitchen sink, lavatory and tub/shower. The waste (black) water holding tank is used to collect waste from the toilet. To prevent unnecessary accumulation of solids in the waste holding tank, do not put facial tissues or similar products into the toilet. It is highly recommended that you use only bio-degradable toilet tissue available from your Sportscoach

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Sportscoach®





WARNING!!

LP gas is usually propane or a blend of propane and butane. When you fill your tanks. be sure to use propane ONLY. Do not use butane or butane mixtures.

WARNING!!

LP gas containers should not be placed or stored inside the living area of a vehicle. LP gas containers are equipped with safety devices that relieve excess pressure by discharging gas to the atmosphere.

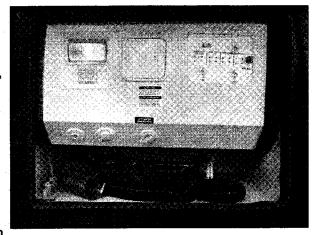
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dealer. Holding tanks should be emptied frequently into a specified dumping station. Most campgrounds have dumping stations, often at each campsite, and many service stations and highway rest areas have waste dumping stations also. Before emptying the holding tanks, make sure your vehicle is level; emptying the holding tanks depends on gravity.

NOTE: It is highly recommended that you use chemicals designed to break down the solids and use only bio-degradable toilet tissue; both of which are available from your Coachmen dealer.

EMPTYING THE HOLDING TANKS

To empty the holding tanks. remove the cap on the sewage drain hose holder. Swivel the holder and pull out the hose. With the hose in the drain facility. simply open the gate valves until the tanks are empty. It is recommended that you drain the black tank (larger PCV pipe) first and then the gray tank. This will help flush the gate valve and sewer hose. If your unit is equipped with electric gate valves, there are switches in the water control compartment which



control the black and gray gate valves. Your motorhome may also have a black tank flush system installed. If so, simply hook a garden hose to the inlet provided. Be sure the black gate valve is open and then turn the water on.

While you are camped and are connected to a campsite sewage hook-up, you may leave the gray valve open. Do not leave the black tank valve open as this allows the liquid to drain off and solids will be left to collect and harden in the bottom of the tank. There will also be an outside shower in the water control compartment which you can use to help rinse out and clean the hose, if required.

IMPORTANT: Do not use harsh drain cleaner chemicals or solvents in any part of the drainage system or tanks. This could cause damage to the pipes and tanks.

LP GAS SYSTEM

The liquefied petroleum (LP) gas system in your vehicle furnishes fuel for hot water, heat, cooking and refrigeration (see illustration). LP gas provides a portable, efficient and inexpensive source of energy. It is stored in an LP gas tank which is mounted to the chassis of your motorhome and is serviced through an access door. Under pressure in the tank, the LP gas turns to vapor; it is the latter that burns. Each tank has an automatic 80 percent stop-fill valve that 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 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).



WARNING!!

LP gas is usually propane or a blend of propane and butane. When you fill your tanks, be sure to use propane ONLY. Do not use butane or butane mixtures.



WARNING!!

LP gas containers should not be placed or stored inside the living area of a vehicle. LP gas containers are equipped with safety devices that relieve excess pressure by discharging gas to the atmosphere.



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The LP gas system is designed and built to meet rigid standards, and it is tested before it leaves the factory. Your dealer also tests the system before it is delivered to you. Except for simple maintenance and occasional tightening of a connection, always take your vehicle to an authorized dealer for LP gas problems. Always have an authorized LP gas supplier fill your LP gas tanks.

WARNING!!

LP gas burns readily and with intense heat. With proper care and maintenance, it is safe and efficient. There are, however, certain characteristics about LP gas you should know. LP gas settles into any closed area, it displaces air and could cause suffocation if not detected. It also could create a fire or explosion hazard. In its natural state, LP gas is odorless. An additive gives it a distinctive mustard odor so that leaks can be readily detected. Under certain circumstances you may not be able to detect LP gas by smell. For that reason, your vehicle is equipped with an LF leak detector which will provide an audible warning if a propane leak is detected. Never disable or bypass this critical safety device.

A WARNING!!

If you smell or think you smell gas:

- 1. Extinguish any open flames, pilot lights, and all smoking materials.
- 2. Do not touch electrical switches.
- 3. Shut off the gas supply at the tank. CLOSE valve(s) or gas supply connection.
- 4. Open doors and other non-electrical ventilating openings.
- 5. Leave the area until the odor clears, and
- 6. Immediately call your gas supplier, and have the gas system checked and leakage source corrected before using again.

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

CLIMATE DIFFERENCES

An appliance will not function if the LP gas does not vaporize. Propane continues to vaporize down to -44 degrees Fahrenheit. Liquid gas does not vaporize as rapidly in cold weather, so you may place too great a demand on your tanks' capacities in certain conditions. This can cause a refrigeration effect resulting in frosting of the tank and regulator. Check with your dealer or LP gas supplier about the appliance demands that can be met by your tank at various temperatures.

Propane has become the main type of LP gas used in recreational vehicles. It is recommended that you use only propane gas. The names of LP suppliers can be found in the Yellow Pages of your telephone directory under "Gas-Liquefied Petroleum-Bottled and Bulk." Many campgrounds now have LP fill facilities, as do some service stations.

To operate any LP gas appliance, the LP gas service valve must be open. When first used, or after a refill, there may be some air in the gas lines that will escape when you first 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.

REGULATOR PRESSURE

Check the LP gas regulator at the beginning of each season or whenever a

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** WARNING!!

DO NOT FILL CONTAIN-ER(S) TO MORE THAN 80% OF CAPACITY. Overfilling the LP gas container can result in an uncontrolled gas flow which can cause fire or explosion. A properly filled container will contain approximately 80% of its volume as liquid LP gas. If the tank is overfilled, have the LP gas dealer bleed out the excess. DO NOT smoke, strike a match, or ignite a lighter when the LP gas container is being filled. A spark or flame could ignite fumes. Be certain all burner and pilot flames are out and Service Valve is closed when filling your vehicle's LP gas or fuel tanks.

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problem is indicated. Correct line pressure is 11 inches of water column. Your dealer or LP gas supplier can perform this check. LP gas regulators must always be installed with the diaphragm vent facing down. Regulators that are not in compartments have been equipped with a protective cover. Make sure that the regulator vent faces down and that the cover is kept in place. This will minimize vent blockage that could result in excessive gas pressure and could cause a fire or explosion.

LP LEAK DETECTOR

Your LP Gas Leak Detector is located at the base of the kitchen cabinets just inside the entrance door. It is designed to provide years of trouble free service. It is recommended that your LP Leak Detector be in the ON position whenever you are using your RV. The system should be turned off when the vehicle is in storage or will not be used for several days. One of



the most important features of this leak detector is an early warning gas alarm ability and a malfunction indicator. See your manufacturer's instructions for further information.

LP GAS REGULATOR FREEZE-UPS

LP gas regulator freeze-up is a problem RV owners can prevent if they are aware of its causes. Although every precaution is taken by fuel producers, tank manufacturers, and LP gas dealers to keep moisture out of the fuel, this problem at times does exist and causes regular freeze-ups. Suggestions that you may want to follow to help prevent this moisture are:

- 1. Always keep the main tank valve closed during periods that gas is not in use, especially if the tank is empty.
- 2. Contact your LP gas dealer about the addition of anhydrous methanol to your tank. Your dealer may do this for a minimal charge, and it will help to prevent freeze-up.

FILLING LP GAS TANKS

Before having a LP gas tank filled, be certain all burners and pilot lights are off. Drive your vehicle 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 liquid 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.

▲ WARNING!!

DO NOT FILL CONTAINER(S) TO MORE THAN 80% OF CAPACITY. Over-filling the LP gas container can result in an uncontrolled gas flow which can cause fire or explosion. A properly filled container will contain approximately 80% of its volume as liquid LP gas. If the tank is over-filled, have the LP gas dealer bleed out the excess. DO NOT smoke, strike a match, or ignite a lighter when the LP gas container is being filled. A spark or flame could ignite fumes. Be certain all burner and pilot flames are out and Service Valve is closed when filling your vehicle's LP gas or fuel tanks.

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 before you light any 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 in the following section.



LP GAS LINE CHECK

Regular maintenance of the LP gas system is extremely important to insure the system's safety. All checks and/or repairs should be performed by an authorized service agency who is trained in dealing with recreational vehicle LP gas systems. DO NOT ATTEMPT repairs yourself. The system should be checked at least once every 30 days of use or 5,000 miles of travel. If you are using your vehicle in rough terrain situations or traveling over rough roads these inspections should be done more frequently. If you check connections for leaks yourself DO NOT USE open flame or matches to check LP gas line connections. Use only an approved leak detector solution. DO NOT USE products that contain ammonia or chlorine (most common household soaps). If you detect a leak, shut off the gas and contact either your dealer or the nearest authorized LP gas dealer to have repairs made.

WARNING!!

<u>DO NOT</u> modify your LP gas system. <u>DO NOT</u> remove components or replace with components that are not of equal value. Failure to follow this warning will void any vehicle warranty. Failure to follow this warning can result in explosion or fire which may cause injury or death.

APPLIANCES AND ACCESSORIES

REAR VISION CAMERA

The rear vision camera is mounted on the upper rear of the vehicle and connected to a monitor on the right side of the drivers instrument panel. Normal operation of the monitor is in the standby position which automatically turns the camera on when the transmission is shifted into reverse. The camera position should be selected to camera #1 and the day/night button selected as appropriate.

Important: Read thoroughly your Rear Vision Camera Owner's Manual for complete instructions regarding proper operation.

ELECTRIC STEP

The electric step system includes a power switch located to the left just inside the entrance door. With the power switch on, opening and closing the entrance door will extend and retract the electric step respectively. In the extend position the under-step light will be on. With the steps extended and the power switch in the "OFF" position, one can open and close the door to the coach repeatedly without the steps cycling up and down each time.

If you forget to turn the power switch back on before moving the vehicle with steps extended, the ignition safety system will automatically retract the steps when the vehicle ignition is turned on. A last out feature will extend the steps the first time the entrance door is opened after the vehicle ignition is turned off. (The battery disconnect switch must be on.)

MAINTENANCE AND LUBRICATION

Clean all mud, salt, and road grime from the step before lubricating. Lubricate all moving parts (bearings, pivot points, slides, clevis pin, and drive linkage ball) every 30 days with a good quality moisture and heat resistant penetrating grease.

Important: Read thoroughly your electric step Owners' Manual for complete operation, maintenance and lubrication instructions.

ENERGY MANAGEMENT SYSTEM (EMS)

If your unit is equipped with the EMS, it is used to automatically manage the amount of 120 volt amperage coming off of the shore power. For further information, please consult the component manufacturer's Owner's Manual.

COMMENTS

WARNING!!

DO NOT modify your LP gas system. <u>DO NOT</u> remove components or replace with components that are not of equal value. Failure to follow this warning will void any vehicle warranty. Failure to follow this warning can result in explosion or fire which may cause injury or death.

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COMMENTS SATELLITE DISH SYSTEM



Your unit can be equipped with a manual crank-up or automatic system. The receiver is not included with either of these systems. If you have a satellite dish in your home, you may use it in your motor home. For additional information, please consult the component manufacturer's Owner's Manual.

TV ANTENNA CONTROL

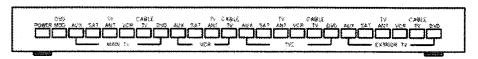
Turn the antenna control handle in the "UP" direction until some resistance is felt. Pull down the rotating plate to disengage it from the ceiling plate and turn it until you find the best sound and signal. Always turn on amplifier power switch. Be sure to lower the antenna before moving your vehicle. Turn the rotating portion so that its pointer lines up with the ceiling plate pointer. Turn control handle in "DOWN" direction until some resistance if felt. Turn off the amplifier power switch.



Note: Even though your 12-volt radio and/or TV antenna will operate on the 12-volt current that is supplied through the power converter, spikes and surges in the current are possible and will result in poor reception. It is recommended, therefore, that these items be used only in conjunction with a properly installed RV battery.

SURROUND SOUND SYSTEM

This procedure describes the functions of the interior entertainment center, the video switch box (6-function with DVD), the DVD, the DSS, the LCD TV, and the wireless headphones.



VIDEO SWITCH CONTROL

(6-INPUT 4-OUTPUT WINEGARD)

SET UP: Applies to Sportscoach Legend and Cross Country. Set up for Sportscoach Elite, see Section 2, page 28.

SECTION 1

- 1. Turn "ON" the video switch box. Select "Ant" for all functions. Raise TV antenna.
- 2. Turn "ON" the front TV, set clock, and auto-program stations.
- 3. Turn "ON" the VCR, set clock, and auto-program stations.
- 4. Turn "ON" the rear TV, and auto-program stations.

Front TV "Main TV" Operation:

- Select "TV Ant" for the "Main TV". The TV must be set for "antenna" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the roof antenna.
- Select "VCR" for the "Main TV". The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the VCR remote to change channels, or run the VCR tape.
- Select "SAT" for the "Main TV". The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the Satellite dish remote to change the channels. Coachmen does not install the satellite receiver.



4.	Select "Cable TV" for the "Main TV". The TV must be set for "cable" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the park cable input.	COMMENTS
5.	Select "DVD" for the "Main TV". Change the TV/VIDEO function to AV1 (Audio/Video 1). Use the DVD remote to change channels, run the DVD disk, or control the surround sound features. OR:	
	Select "DVD" for the "Main TV". The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the DVD remote to change channels, run the DVD disk, or control the surround sound features.	NOTES:
В	edroom TV "TV2" Operation:	
1.	Select "TV Ant" for the bedroom TV "TV2". The TV must be set for "antenna" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the roof antenna.	
2.	Select "VCR" for the bedroom TV "TV2". The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the VCR remote to change channels, or run the VCR tape.	
3.	Select "SAT" for the bedroom TV "TV2". The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the Satellite dish remote to change the channels. Coachmen does not install the satellite receiver.	
4.	Select "Cable TV" for the bedroom TV "TV2". The TV must be set for "cable" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the park cable input.	
5.	Select "DVD" for the bedroom TV "TV2". The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the DVD remote to change channels, or run the DVD disk.	
E	kterior TV "Exterior TV" operation:	
1.	Select "TV Ant" for the "Exterior TV". The TV must be set for "antenna" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the roof antenna.	
2.	Select "VCR" for the "Exterior TV". The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the VCR remote to change channels, or run the VCR tape.	
3.	Select "SAT" for the "Exterior TV". The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the Satellite dish remote to change the channels. Coachmen does not install the satellite receiver.	
4.	Select "Cable TV" for the "Exterior TV". The TV must be set for "cable" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the park cable input.	
5.	Select "DVD" for the "Exterior TV". The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the DVD remote to change channels, or run the DVD disk.	

Input for the VCR:

1. Select "TV Ant" for the "VCR". The VCR must be set for "antenna" and use the



COMMENTS	"auto-program" feature to add channels, using the VCR set-up procedure. Use the VCR remote to check TV stations, from the roof antenna.
	 Select "SAT" for the "VCR". Use the VCR remote to change to channel 3. Use the Satellite dish remote to change the channels. Coachmen does not install the satellite receiver.
NOTES:	 Select "Cable TV" for the "VCR". The VCR must be set for "cable" and use the "auto-program" feature to add channels, using the VCR set-up procedure. Use the VCR remote to check TV stations, from the park cable input.
	LCD TV: 1. Connect LCD TV to the front interior LCD TV jack. Set the video switch control the same as above "Main TV".
	Connect LCD TV to the rear LCD TV jack. Set the video switch control the same as above "TV2".
	 Connect LCD TV to the exterior LCD TV jack. Set the video switch control the same as above "Exterior TV".
	4. Turn the wireless headphone control box "ON". Turn the headphones "ON".
	5. Adjust the headphones until the TV station is heard.
	Wireless Headphones: 1. Turn on Front entertainment center TV or LCD TV.
	2. Turn the wireless headphone control box "ON". Turn the headphones "ON".
	3. Adjust the headphones until the TV station is heard.
	SECTION 2
	VIDEO SWITCH CONTROL (AVS200 Smart Source) For Sportscoach Elite
	Set Up: 5. Turn "ON" the Smart Source box.
	 Turn the antenna booster switch to "Antenna Booster". Raise TV antenna. Turn "ON" the front TV, set clock, and auto-program stations. Turn "ON" the VCR, set clock, and auto-program stations. Turn "ON" the rear TV, and auto-program stations. Turn "ON" the exterior TV, and auto-program stations.
	Front TV "Main TV" operation: 1. Turn the "TV Booster/Park Cable" switch to "TV Booster". The TV must be set for "antenna" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the roof antenna.
	 Turn the "TV Booster/Park Cable" switch to "Park Cable". The TV must be set for "cable" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the park cable input.
	 Select "VCR" for the "TV1" (front TV), on the Smart Source switch box. The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the VCR remote to change channels, or run the VCR tape.
	4. Select "SAT" for the "TV1" (front TV), on the Smart Source switch box. The TV must be set for "antenna", using the TV set-up procedure. Change the TV



station to channel 3. Use the Satellite dish remote to change the channels. Coachmen does not install the satellite receiver.

5. Select "DVD" for the "TV1" (front TV), on the Smart Source switch box. The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the DVD remote to change channels, run the DVD disk, or control the surround sound features.

Bedroom TV "TV2" Operation:

- Turn the "TV Booster/Park Cable" switch to "TV Booster". The TV must be set for "antenna" and use the "auto-program" feature to add channels, using the TV setup procedure. Use the TV remote to check TV stations, from the roof antenna.
- Turn the "TV Booster/Park Cable" switch to "Park Cable". The TV must be set for "cable" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the park cable input.
- 3. Select "VCR" for the "TV2" (rear TV), on the Smart Source switch box. The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the VCR remote to change channels, or run the VCR tape.
- 4. Select "SAT" for the "TV2" (rear TV), on the Smart Source switch box. The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the Satellite dish remote to change the channels. Coachmen does not install the satellite receiver.
- 5. Select "DVD" for the "TV2" (rear TV), on the Smart Source switch box. The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the DVD remote to change channels, run the DVD disk, or control the surround sound features.

Exterior TV "Exterior TV" Operation:

- Turn the "TV Booster/Park Cable" switch to "TV Booster". The TV must be set for "antenna" and use the "auto-program" feature to add channels, using the TV setup procedure. Use the TV remote to check TV stations, from the roof antenna.
- 2. Turn the "TV Booster/Park Cable" switch to "Park Cable". The TV must be set for "cable" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the park cable input.
- Select "VCR" for the "TV3" (exterior TV), on the Smart Source switch box. The TV
 must be set for "antenna", using the TV set-up procedure. Change the TV station
 to channel 3. Use the VCR remote to change channels, or run the VCR tape.
- 4. Select "SAT" for the "TV3 (exterior TV), on the Smart Source switch box. The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the Satellite dish remote to change the channels. Coachmen does not install the satellite receiver.
- 5. Select "DVD" for the "TV3" (exterior TV), on the Smart Source switch box. The TV must be set for "antenna", using the TV set-up procedure. Change the TV station to channel 3. Use the DVD remote to change channels, run the DVD disk, or control the surround sound features.

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NOTEO:	
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(Please Select)

TV

N/A

N/A

TV

N/A

OFF

AV 1

SAT

N/A

AV1

VCR

N/A

AV1

DVD

DVD

AV1

AUX

N/A

Cable

Booster

HOME THEATRE SYSTEM (HT) COMMENTS Power up the appropriate components then use the guide below to view the desired source. Note: The dash radio utilizes the Home Theatre speakers. Turning on the dash radio will automatically override the Home Theatre system. NOTES: QUICK OPERATING INSTRUCTIONS TV with HT Bedroom/Aux TV To View: TV Only (Please Select) (Please Select) TV Antenna Television TV/Video Selector TV N/A (Antenna/Cable) AVS200 Smart Source N/A Off Audio 1 DAVC450HT Receiver/Function Booster Booster Cable/Booster Switch TV Park Cable Television TV N/A N/A AVS200 Audio 1 OFF Cable Cable/Booster Switch Cable AV1 AV1 Satellite Television TV/Video Selector SAT AVS200 Smart Source SAT (Optional) Audio 1 DAVC450 HT Reciever/Function Off VCR AV1 AV1 Television TV/Video Selector VCR **VCR** AVS200 Smart Source Audio 1 DAVC450 HT /receuver/Function Off AV1 DVD AV1 Television TV/Video Selector DVD AVS200 Smart Source DVD DAVC450 HT Receiver/Function DVD AV1 AV1 Auxiliary Television TV/Video Selector AUX (NOT USED) **AVS200 Smart Source** AUX Audio 1 DAVC450 HT Receiver/Function To hear outside TV through the stereo, select 'CD' as the source then select 'Mode' until 'AUX PLAY' is displayed. Adjust the stereo volume to approximately half way, then control the overall volume with the TV.



FURNACE

The furnace is an automatic ignition type, controlled by a wall thermostat. Heat is delivered through a ducted system.

OPERATION

Turn the switch on the thermostat to heat. Set the thermostat to the desired temperature. An automatic relay in your furnace provides a time delay; therefore, when you turn up the thermostat, there will be a pause prior to startup of the blower. At blower startup, your furnace air will enter your living quarters at room temperature. Your furnace will start warming quickly and continue getting warmer for the next several minutes. If your vehicle is cold throughout, it may take from one to several hours to heat all interior walls, ceilings, floors and fixtures to a comfortable temperature. Once reached, your furnace will automatically maintain steady warmth. On initial lighting, the burner may not ignite due to air in the gas lines. If this occurs, set the thermostat back to the lowest setting, wait 30 seconds, then reset the thermostat to the desired temperature.

Note: Although the furnace's fuel source is LP gas, the power operates on 12-volt electricity. The furnace requires a minimum of 11 volts to operate.



AL CAUTION!!

DO NOT use portable fuel-burning heating appliances, including kerosene heaters, wood and charcoal grills or stoves, in your vehicle. Such appliances produce excessive moisture, consume oxygen and may emit dangerous products of combustion. Before lighting furnace, be sure the LP gas tank service valve is open. Turn switch on thermostat to heat and adjust thermostat to the desired temperature.



4 CAUTION!!

If the furnace does not light after several attempts, while allowing each time for any delay pause, turn the thermostat to the OFF position and contact your authorized Coachmen dealer or service center. DO NOT attempt to repair or adjust the furnace yourself. When changing your unit's electrical source, as from 12 volt to shoreline or generator, turn the thermostat OFF. This will preserve the life of your furnace's electrical system. Carefully read the furnace manufacturers' operating manual for other important Do's and Don'ts of service and operation.

PREVENTIVE MAINTENANCE

Preventative maintenance should be performed annually by an authorized dealer and should include cleaning of heat exchanger, furnace ducts and blower wheels to remove dust, lint and other foreign materials. the furnace's LP gas system should also be checked. Check manufacturer's manual for further information.



WARNING!!

Most LP gas appliances used in recreational vehicles are vented to the outside of the vehicle. When parked close to a gasoline pump, it is possible that the gasoline fumes could enter this type of appliance and ignite from the burner flame, CAUSING A FIRE OR AN EXPLOSION.

FOR YOUR SAFETY, it is recommended that all LP gas appliances which are vented to the outside should be shut off when refueling.

REFRIGERATOR

Importance of Leveling a Refrigerator

In an absortion refrigerator system, ammonia is liquefied in the finned condenser coil at the top rear of the refrigerator. The liquid ammonia then flows into the

COMMENTS



CAUTION!!

DO NOT USE PORTABLE FUEL-BURN-ING HEATING APPLIANCES, INCLUDING KEROSENE HEATERS, WOOD AND CHARCOAL GRILLS OR STOVES, IN YOUR VEHICLE, SUCH APPLIANCES PRODUCE EXCESSIVE MOISTURE, CON-SUME OXYGEN AND MAY EMIT DAN-GEROUS PRODUCTS OF COMBUSTION. BEFORE LIGHTING FURNACE, BE SURE THE LP GAS TANK SERVICE VALVE IS OPEN. TURN SWITCH ON THERMO-STAT TO HEAT AND ADJUST THERMO-STAT TO THE DESIRED TEMPERATURE.



L CAUTION!!

IF THE FURNACE DOES NOT LIGHT AFTER SEVERAL ATTEMPTS, WHILE ALLOWING EACH TIME FOR ANY DELAY PAUSE, TURN THE THERMOSTAT TO THE OFF POSITION AND CONTACT YOUR AUTHORIZED COACHMEN DEAL-ER OR SERVICE CENTER. DO NOT ATTEMPT TO REPAIR OR ADJUST THE FURNACE YOURSELF. WHEN CHANG-ING YOUR UNIT'S ELECTRICAL SOURCE, AS FROM 12 VOLT TO SHORELINE OR GENERATOR, TURN THE THERMOSTAT OFF. THIS WILL PRESERVE THE LIFE OF YOUR FUR-NACE'S ELECTRICAL SYSTEM. CAREFULLY READ THE FURNACE MAN-UFACTURERS' OPERATING MANUAL FOR OTHER IMPORTANT SERVICE AND OPERATION INFORMATION.

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WARNING!!

MOST LP GAS APPLIANCES USED IN RECREATIONAL VEHICLES ARE VENTED TO THE OUTSIDE OF THE VEHICLE. WHEN PARKED CLOSE TO A GASOLINE PUMP, IT IS POSSIBLE THAT THE GASO-LINE FUMES COULD ENTER THIS TYPE OF APPLIANCE AND IGNITE FROM THE BURN-ER FLAME, CAUSING A FIRE OR AN EXPLOSION.

FOR YOUR SAFETY, IT IS RECOM-MENDED THAT ALL LP GAS APPLIANCES WHICH ARE VENTED TO THE OUTSIDE SHOULD BE SHUT OFF WHEN REFUELING.

NOTES:		





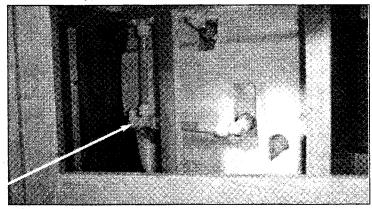
COMMENTS NOTES:	evaporator, (inside the freezer section) and is exposed to a circulating flow of hydrogen gas, which causes the ammonia to evaporate, creating a cold condition in the freezer. The tubing in the evaporator section is specifically sloped to provide a continuous movement of liquid ammonia, flowing downward by gravity through this section. If the refrigerator is operated when it is not level and the vehicle is not moving, liquid ammonia will accumulate in sections of the evaporator tubing. This will slow the circulation of hydrogen and ammonia gas, or in severe cases, completely block it, resulting in a loss of cooling. Any time the vehicle is parked for several hours with the refrigerator operating, the vehicle should be leveled to prevent this loss of cooling. The vehicle needs to be leveled only so it is comfortable to live in, no noticeable sloping of floor or walls.
	When the vehicle is moving, the leveling is not critical, as the rolling and pitching movement of the vehicle will keep the liquid ammonia from accumulating in the evaporator tubing.
	OPERATION Your RV may be equipped with either a Dometic or a Norcold refrigerator. For specific operation instructions consult the refrigerator manufacturer's Owner's manual provided with your unit or your Sportscoach dealer will be happy to demonstrate the operating procedures for you.
	CARE OF REFRIGERATOR Remove food and ice after each trip. Clean the interior of the refrigerator with a lukewarm, mild baking soda solution. The evaporator, ice trays and shelves must, however, be cleaned with warm water only. Wipe dry with a soft, dry cloth. Never use strong chemicals or abrasives to clean the refrigerator; they can do harm to the plastic and aluminum surfaces. If the refrigerator is not in use for a period of time, turn all power "OFF", empty and clean the interior and leave the door slightly ajar. To defrost refrigerator freezer, remove food and ice. Turn refrigerator "OFF". To speed the defrosting process, fill the ice trays with hot water. When all frost is melted, empty the drip tray and dry the interior of the refrigerator with a clean cloth. Replace the drip tray and ice trays, replace all food stuffs and set the thermostat at "COLDEST" for a few hours. Later, reset the thermostat to its' normal position.
	ROOF AIR CONDITIONERS Before starting the roof air conditioner, close all the doors and windows. The ducted roof air conditioning system in your vehicle utilizes ducts in the ceiling to distribute the air flow throughout your motor home. The air flow can be regulated by opening and or closing the outlets of your choice. To operate the roof air conditioner, turn the switch on the wall thermostat to 'cool'
	and set the thermostat to the desired temperature. If your motor home has the optional second roof air conditioner, usually located in the bedroom, the thermostat controls are the same except that it will not control the furnace.
	You should periodically clean the filter in the air intake panel on the ceiling to maintain efficient operation of the air conditioner.
	To maintain the warranty coverage from the manufacturer of the roof air conditioner, you must have the periodic maintenance performed as outlined in the roof air conditioner operating manual. If you have any questions, please consult your Sportscoach dealer.
	WATER HEATER Your water heater is an LP gas and/or electric appliance capable of heating gallons of water to a preset temperature. 1. If using the city water hook-up to fill the water heater, open a hot water faucet to allow the water pressure to force air out of the tank. A full tank is indicated by cold water beginning to flow out of the hot water faucet.



2. When filling the hot water heater from the fresh water tank, turn the water pump ON and open a hot water faucet. When water begins to flow from the hot water faucet, the tank is full. In either case, when water flows steadily, turn the faucet OFF.

WATER HEATER BY-PASS

There is a water heater by-pass system installed in the water line. This by-pass system allows you to use the water system without the water heater, as well as winterize the water system without having to fill the water heater with anti-freeze. To access the by-pass valve, remove the access panels. (For normal operation, turn the valve to the left. To bypass the water heater, turn the valve vertical).



WATER HEATER BY-PASS (TYPICAL)

ELECTRONIC IGNITION

Place the remote water heater switch in the ON position. This switch is located in the Power Center. The switch light will be red, then turn to green. If the light returns to red, the water heater has failed to light. Turn switch to OFF and wait 15-30 seconds. After the required delay, again place switch in ON position. It may take more than one start attempt when unit is being used for the first time or after the LP gas bottle has been refilled. For complete shutdown, place switch in OFF position.

DRAINING

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

WARNING!!

Hydrogen gas can be produced in a hot water system served by a heater that has not been used for a long period of time (generally two weeks or more). HYDROGEN GAS IS EXTREMELY FLAMMABLE. To reduce the risk of injury under these conditions, it is recommended that the hot water faucet be opened for several minutes at the kitchen sink before using any electrical appliance. If hydrogen is present, there should be an unusual sound such as air escaping through the pipe as the water begins to flow. There should be no smoking or open flame near the faucet at the time it is open. If you are not certain of what action you should take, contact your Sportscoach dealer or Coachmen Service Department.

CARE OF WATER HEATER

Be certain the exterior compartment is clean and does not contain combustible materials. Never obstruct the relief valve or exhaust vent. Periodically drain and flush the water heater tank. To flush the tank, connect a hose to the city water fill. Remove the drain plug from the water heater tank. Run water for several minutes to flush tank. Turn water off and reinstall drain plug.

COMMENTS



▲ WARNING!!

Hydrogen gas can be produced in a hot water system served by a heater that has not been used for a long period of time (generally two weeks or more). HYDROGEN GAS IS EXTREMELY FLAM-MABLE. To reduce the risk of injury under these conditions, it is recommended that the hot water faucet be opened for several minutes at the kitchen sink before using any electrical appliance. If hydrogen is present, there should be an unusual sound such as air escaping through the pipe as the water begins to flow. There should be no smoking or open flame near the faucet at the time it is open. Contact your dealer or the Coachmen Service Dept. at the address on the manufacturer's warranty if you are not certain of what action you should take.

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WARNING!!

IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEAT-ING. COOKING APPLIANCES NEED FRESH AIR FOR SAFE OPERATION.



WARNING!!

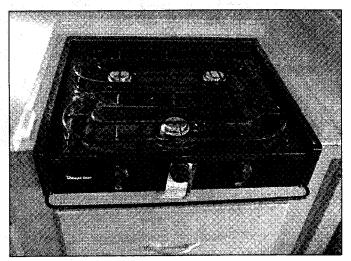
TO AVOID THE RISK OF UNBURNED LP GAS ACCUMULATING IN THE VEHICLE, BE SURE ALL APPROPRIATE KNOBS ARE TURNED TO THE "OFF" POSITION WHEN NOT IN USE.

NOTES:

RANGES

Your vehicle is equipped with a three burner range which includes one high output burner. Be certain that the LP gas service valve is open prior to attempting to use the range. Light a match (or lighting device) and hold it close to the range burner. making sure you are lighting the burner you turned on. Turn the burner control knob to full on. Air in the line may cause a blowing noise and may extinguish the match. When the line is free of air, the burner will light readily. Adjust the burner flame with the control knob.

To clean the range top, allow the range top to cool and wipe it with a clean cloth and hot soapy waater. Grease splatters, which may bake onto surfaces, should be wiped off before they have time to harden.



THREE BURNER COOK TOP

WARNING!!

It is not safe to use cooking appliances for comfort heating. Cooking appliances need fresh air for safe operation. Before operation:

- 1. Open overhead vent or turn on exhaust fan.
- 2. Open window.

This warning is to remind you to provide an adequate supply of fresh air for combustion. Unlike homes, the amount of oxygen supply is limited due to the size of the recreational vehicle. Proper ventilation when using the cooking appliance(s) will avoid dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating as the danger of asphyxiation is greater when the appliance is used for long periods of time.



₩ARNING!!

To avoid the risk of unburned LP gas accumulating in the vehicle, **BE SURE** all appropriate knobs are turned to the "OFF" position when not in use

CONVECTION OVEN

The convection oven is a 120-volt appliance used to cook, defrost or reheat foods in less time than other cooking methods. Read carefully the oven manufacturer's owner's manual for specific instructions for the model which is installed in your vehicle.

The microwave also includes a range fan and light. There is a charcoal filter in the range hood which must be replaced after six months of use. Refer to the operating guide for replacement instructions.



FIRE PLACE (IF EQUIPPED)

QUICK REFERENCE GUIDE

Plug your fireplace unit into a convenient outlet, (it may already be plugged in from the factory), to verify the following:

A.

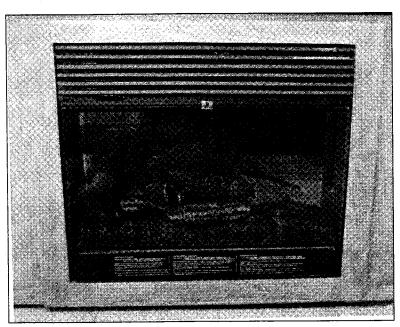
- 1. ARE THE CIRCUIT BREAKERS FOR THE OUTLET ON?
- 2. IS THE FLAME BRIGHTNESS CONTROL TURNED FULL TO THE RIGHT?
- 3. ARE THE LIGHTBULBS IN YOUR FIREBOX LOOSE? (TO CHECK, FOLLOW THE INSTRUCTIONS FOR REPLACING THE FLGHTBULBS ON THE FRONT OF THE FIREPLACE. ALSO CHECK THE TWO LIGHT BULBS AT THE TOP OF YOUR FIREBOX.)

B.

The heater on your fireplace may emit a slight, harmless order when first used. This odor is a normal condition caused by the initial heating of internal heater parts and will not occur again.

C.

If your heater does not emit heat, ensure the switch is on and the thermostat is turned fully to the right. If this does not work, switch the unit off for five minutes and try again.



FIREPLACE

MONITOR PANEL

Your vehicle is equipped with a monitor panel that allows you to check the condition of your RV battery and the volume of fresh, waste and gray water in your unit's holding tanks. It also will monitor LP Gas in tank and includes switches for the water pump and water heater. In some floor plans, the monitor panel is located in the Power Center. Your dealer will be happy to explain its' operation. (See pages 16-18 for more detailed information.)

BATTERY CONDITION LEVELS

The battery condition will fall into one of the following levels:

- C Convertor, more than 14.5 volts (unfiltered circuit or dead cells in battery).
- G Good, 12.6-14.49 volts
- F Fair, 12.0-12.5 volts
- L Low, 5-11.9 volts

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COMMENTS	MOTORHOME STORAGE
	Follow these procedures if you will not be using your motorhome for an extended period of time.
NOTES:	LP Gas Close the LP gas container's Service valve. Extinguish all pilots and close all appliance LP gas valves (oven/range, water heater, refrigerator, furnace). 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 water heater.
	Water Tank Drain water tank(s).
	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 cloth to catch this water. Reattach the outlet hose.
	Electrical System Turn off all circuit breakers at the Power Center.
	General Close and secure all doors and windows. Open a roof vent or window slightly to allow circulation, but not so far that rain or snow can enter.
	Fuel System During extended periods of vehicle storage (60 days or more), moisture can build up in the fuel tank and fuel system. It is recommended that a Diesel Fuel Supplement, (Sta-bil or equivalent), be added to the fuel tank. This will help prevent moisture build up. The additive should be put in the tank before filling. The tank should be filled prior to storage as a full tank reduces the amount of moisture that can accumulate. The engine should then be run to circulate the additive throughout the system.
	WINTERIZATION
	Make special preparations for storing your unit in cold winter climates. All systems and components should be inspected and, if necessary, repaired prior to storage. Winterize the motorhome before removing the RV battery. Note: If you will be using your motorhome during cold weather, be certain to keep the fresh water system drained or use an approved, non-toxic RV antifreeze to prevent freeze-ups.
	Refrigerator Remove all food from the refrigerator, defrost and wash and dry the inside. Prop the door open so air can circulate.
	Cabinets Check the staple foods in your cupboards and remove any that could freeze and be damaged. Leave cabinet and closet doors open a little to prevent a musty odor or mildew.



Water System

- 1. To winterize the fresh water system, first place the operation valves on the water control panel in the drain position. (See diagram on page 23).
- 2. Open all water line low point drains and remove drain plug from the water heater.
- 3. Bypass water filter (if so equipped)by positioning valves. RV anti-freeze will contaminate the filter, requiring replacement.
- 4. Place valves at water heater in the bypass position (See water heater, page 31)
- 5. Place the operation valves on the water control panel, in the winterize position.
- 6. At the control panel, place the short section of hose in a container or RV anti-freeze. On some units, a plug will have to be removed and the hose installed in the fitting.
- 7. Turn the pump on. (The switch will be located either on the control panel or the monitor panel). The water pump will pull the anti-freeze from the container into the water system. Turn on all faucets until anti-freeze appears, then turn faucets and pump off. This will not put any anti-freeze into the fresh water tank.

Drain System

- 1. Drain both the black and gray tanks and flush, if necessary.
- 2. Lubricate dump valve shafts and close both valves.
- 3. Pour RV anti-freeze into each drain until the p-traps are filled. During the process, enough of the anti-freeze will get to the tank to protect the valve.
- 4. Pour ½ gallon of RV anti-freeze into the toilet and drain into the tank.



WARNING!!

Do not use automotive antifreeze in the water or sewage system. It is poisonous and also corrosive to sewage system components.

RV Battery

Recharge and add water, if necessary. Disconnect the battery by turning the Battery Disconnect switch to the 'OFF' position. Check regularly and recharge as needed.

Chassis Battery

The Chassis Battery Disconnect switch should be turned 'OFF' when unit is not being used. The ignition switch should be 'OFF' at least one (1) minute before disconnecting.

Windows

Cover with newspaper or cardboard to protect fabrics from fading.

Exterior Vents

Cover refrigerator and furnace vents with plastic. Inspect all roof vents and replace, if necessary.



A CAUTION!!

Never use appliances with vent covers in place.

INTERIOR/EXTERIOR CARE

Pride of Ownership

RV owners are noted for the pride they take in the appearance of their units. Proper maintenance will do more than keep your motorhome looking nice. It can help ensure trouble-free operation and maximum efficiency of the appliances and accessories. Failure to maintain the vehicle or its components may also constitute a breach of your warranty obligations.

COMMENTS



WARNING!!

Do not use automotive antifreeze in the water or sewage system. It is poisonous as well as corrosive to sewage system components.



CAUTION!!

Never use appliances with vent covers in place.

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	COMMENTS	Just as an open window or an unrepaired leak in your home may lead to costly damage, the failure to repair leaks in your vehicle or to reseal your seams may result in serious damage to your vehicle.
NOTES:		Read the various appliance and component manufacturer's manuals for specific maintenance information. Unless otherwise noted, maintenance functions should be performed at least annually. All maintenance schedules listed are the minimum requirement; heavy use, unusual temperatures or humidity, or other environmental conditions may require more frequent maintenance. At the start of each season, or after a period of storage, thoroughly inspect and test all systems and components to be certain they are functioning properly before you use your vehicle.
		Airing Your Motorhome This is an essential task you need to perform before you occupy your motorhome each time it has been closed for more than a few days. See details under the AIR QUALITY and CONDENSATION sections, page 18 of this manual.
		Automotive and Chassis System These systems should be serviced and maintained as outlined in the Chassis Owner's Manual.
		Awning Awning supports and bright metal parts should be cleaned and coated with silicone annually.
		Axle and Suspension The axle and suspension should be inspected frequently by a qualified party.
		Batteries Inspect frequently and recharge as necessary. Battery cables, water level, and terminals should be checked and/or cleaned every 90 days.
		Body Wash frequently, or as necessary to remove dirt, dust, road tar, bird and tree droppings, insects, and other foreign material from exterior surfaces. Use a mild soap in lukewarm water. Apply an automotive-type wax at least once a year.
		Body and Underbelly Inspect for damage, rust or corrosion every 90 days and repair as necessary. You may wish to apply undercoating.
		Bumper and Frames Painted bumpers and frames, or any exposed painted surface, should be inspected for damage and rust every year. Rust should be removed and the area painted with rust preventive paint annually.
		Electrical System Inspect and test prior to each trip. Check the shoreline cord for damage. Test the 120-volt system for proper polarity and voltage. You may want to purchase a ground monitor and a line voltage tester to perform these checks.
		Exterior Clean and wax, lubricate locks and hinges. Check under the motorhome for any openings which would allow varmints to enter; seal if necessary. Lock all doors securely. Inspect throughout the winter months and remove any snow accumulation from the roof with a long-handled broom or similar tool.
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Fabrics

Fabrics need regular and continuing care. To keep them at their best, vacuum and brush away loose dirt before it becomes embedded and more difficult to remove. Clean spills and stains while fresh. VELVET fabrics should be cleaned with extreme care. Spills on velvet generally will bead-up. Blot them up quickly and gently so as not to force the stain deep into the fabric. If a stain remains, spot-clean using one of the methods described below. Wipe the stain in the direction of the pile to prevent distortion. When the fabric is dry, gently brush with a soft brush. Many velvet fabrics cannot be cleaned with water-based cleaned agents.

Draperies, Curtains, Bedspreads

Dry-clean only.

Cushions, Chairs, Sofas

These items may be labeled with the voluntary industry cleanability code. Because dyes or backings on some upholstery fabrics will be affected by water or solvents, the cleanability code will indicate the cleaning method that is safe for your fabric. If the furniture is not coded, test the fabric for discoloration on an inconspicuous part of the furniture before spot-cleaning.

The code is symbolized by the following letters:

W

Use only water-based cleaning agents or foam. Mix two tablespoons ammonia or detergent, such as Ajax liquid, with a quart of water. Wipe the stain gently with a clean cloth dampened with the solution. Continue wiping, turning the cloth so that you are always using a clean portion, until the stain is removed. Be careful not to wet the fabric too much. Always wipe from the outer edge of the stain toward the center.

S

Use only mild, pure, water-free dry-cleaning solvents, such as Energine™ or Carbona™. Dampen a clean cloth with the solvent and follow the same procedure described under W.

WS

Either of the above methods may be used.

X

Clean fabric only by vacuuming or light brushing to remove soil. Do not use liquid cleaning agents of any kind.

Water-Based Stains

Ketchup, soft drinks, milk, etc. Remove using method W.

Oil-Based Stains

Salad dressing, butter, greasy food, etc. Use method S or, for flat-woven fabrics, not velvet, apply Texize™ K2R Spot Remover according to directions.

Combination Stains

Ice cream, gravy, etc. are both watery and oily. Remove these types of stains using the S method and follow with the W method.

Mud Stains

Lift away what you can easily remove without forcing the mud into the fabric. Allow the remaining mud to dry completely, then vacuum. If the stain remains, clean with method W.

When overall cleaning is necessary, professional cleaners are recommended. However, if you wish to do it yourself, follow these suggestions:

Vacuum thoroughly.

NOTES:

COMMENTS



Test fabric for discoloration on an inconspicuous place using a foam cleaner COMMENTS such as Fibre Fresh Concentrate™ or Glamorene™. 3. If no discoloration appears, use cleaner on entire item. Note: Many velvet fabrics cannot be cleaned with water-based cleaning agents. 4. After cleaning, you may wish to apply Scotchguard™ fabric protector to such areas as furniture arms, backs and cushions. NOTES: Note: The above information is provided only as a service and should not be interpreted as a warranty. The list of cleaning agents does not constitute an endorsement of products; other similar products may be equally effective. Floor Coverings Clean as necessary. Vacuum carpeting. Avoid using heavy moisture; it could enter and damage your floor. Hinges Inspect and lubricate with light household oil periodically. Locks and Latches Inspect and lightly lubricate with graphite periodically. LP Gas System Inspect and adjust as outlined in LP Gas section of this manual, (pages 24-27). Be certain mounting supports for tanks are secure. Before using, be sure all LP gas orifices and vents are clean. **LP Gas Line** A check should be performed frequently. Always check the gas line connection after each refill and inspect the connections regularly, at least every 30 days or 5000 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 an approved LP leak detector solution to test all line connections. Bubbles indicate a leak. Do not use products that contain ammonia or chlorine. Tighten the connection with two open end wrenches until bubbles stop. If leak persists, contact your Sportscoach dealer. Lug Nuts Check every 50 miles for the first 200 miles or whenever a wheel has been reinstalled. If lug nuts continue to loosen, they should be replaced. Be certain to use the proper torque (450 to 500 ft./lbs.). For more information carefully read and follow the instructions in the Chassis Owner's Manual. Roof, Rubber 1. For normal cleaning, standard household products may be used such as Fantastic™ , 409™ or a good detergent soap. Be sure to use lots of water and keep sidewalls wet to eliminate possible streaking. 2. For stubborn stains, the use of an abrasive cleaner or scouring powder with a 3M™ pad (medium) should do the job. Again, be sure to use an ample supply of 3. For stubborn stains that resist normal cleaning, on a small area use a cloth dampened with mineral spirits followed by washing with soap and water. Do not use in a large area or allow it to soak. 4. To prevent dirt build up in rubber roof material, you can use a 303 Protectant® available at most RV parts stores.

in large areas.

Sportscoach®
Owner's Manual

Note: Do not put petroleum based products directly on rubber roof material, or use



If an accident happens and you damage the roof, here is a temporary fix: clean the area with unleaded gasoline (Caution: flammable) and let dry. Cover the area by overlapping layers of duct tape over the troubled area until a permanent repair can be made by your Sportscoach dealer.

Roof, Fiberglass

- 1. Wash monthly or more frequently, if needed. Wash with mild soap such as dish detergent soad. Avoid using alkaline or abrasive cleaners.
- 2. Wax once or twice a year with a high quality paste wax formulated for gelcoat surfaces.
- 3. If chalking occurs, wash and try wax in a small area to see if the luster returns. If not, use a fine rubbing component followed by wax.
- 4. If your gelcoat surfaces become scratched, nicked or cracked, have your local Sportscoach dealer or automotive body shop inspect and repair.

Seams or Joints

Seams or joints should be sealed around the roof, entrance doors, windows, roof and wall vents, access doors, storage compartments, roof edges, luggage racks, ladders, air conditioners, TV antenna, radio antenna, satellite dish rails and moldings at least once each year with a similar high quality sealant. Inspect all seams and joints at least twice a year and reseal as necessary. Some sealants cannot be applied over other types; when preparing areas to be resealed, scrape off old sealant. Clean metal areas with a vinegar and warm water solution. Clean fiberglass areas with mineral spirits before applying new sealant.

Shades, Blinds and Valances

Vacuum or wipe with a damp cloth frequently to prevent discoloration or staining.

Sinks

Kitchen and bathroom sinks should be cleaned with a cleaner that is non-abrasive. Stainless steel and porcelain cleaner may be purchased at most grocery stores. ABS cleaner may be purchased from your Sportscoach dealer.

Solid Surface Countertops

Hot objects placed directly on the countertop will mar the surface. Always use a heat pad or trivet to protect the surface. Wipe the surface with a damp cloth to remove water spots. For stains wipe with soapy water or ammonia based cleaners. On stubborn stains use an abrasive cleaner with a green Scotch-Brite™ pad. For a like-new appearance rub occasionally with pad alone. The solid surface countertop is resistant to permanent damage but you should avoid exposing it to strong chemicals. If strong cleaners such as paint removers, paint brush cleaners,metal cleaners, oven cleaners, cleaners containing methyene chloride, acetone (nail polish remover) or acid drain cleaners come in contact with the countertop, quickly rinse the surface with plenty of soapy water. The solid surface countertop is also resitant to impact but heavy or pointed objects can damage the surface. Scratches and cuts can be sanded away with 120 grit medium sandpaper followed by 180 or 220 grit fine sandpaper. To restore the finish use an abrasive cleanser and a green Scotch-Brite™ pad.

Steps

Inspect annually. Remove rust; paint steps and lubricate all moving parts.

Tires

Check for damage and proper inflation prior to each trip.

TV Antenna

Exterior moving parts should be lubricated periodically.

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COMMENTS



COMMENTS	Vents Inspect and clean annually. Lightly oil all moving parts. Inspect vents periodically for bird nests.
	Vinyl Coated Ceiling and Walls Clean with a mild soap and damp sponge as needed.
NOTES:	Water Heater The control compartment should be kept clean and free of combustible material and flammable liquids. The vent and combustible air grille should be clear of any obstructions. Manually operate the pressure relief valve at least once a year. Operate only when storage water in tank is cool. Periodically compare main and pilot burner flame with illustrations in manufacturer's operation instruction manual. Do not tamper with the pilot orifice to increase the pilot flame size; this can cause high water temperature and failure of gas control.
	Windows, Doors and Compartment Doors Inspect for damage or leaks prior to each trip. Replace any damaged or worn parts. Fix or replace any leaking parts. Lubricate moving parts and rubber seals with silicone lubricant. Clean dirt and debris from window tracks.
	Wood Cabinetry Clean several times a year to protect the wood, using any good non-silicone wood polish. Careful control of temperature and humidity will help reduce expansion and shrinkage of doors and door panels. If shrinkage occurs and unfinished parts of the door panels are exposed, cover the exposed areas with matching touch-up stain available from your Sportscoach dealer.
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APPLIANCE IDENTIFICATION FORM

Should 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 identification requirement. Depending on your unit, certain items listed below may 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
Automotive Air Conditioner			
CD Player			
Converter			
Electric Water Pump			
Furnace			
Generator			
VCR			
Keys—Door			
Exterior Storage			
Home Theatre System			
Inverter			
Microwave Oven			
Motorhome Body			
Motorhome Chassis			
Radio			
Range/Oven			
Refrigerator			
Roof Air Conditioner(s)			
ss.			
Satellite Dish			
Satellite Radio			
Toilet			
TV(s)			
a			
TV Antenna			
Washer/Dryer Combo			
Water Heater			



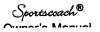
	MAINTENANCE REGORD				
DATE	MILEAGE	SERVICE SHOP NAME & ADDRESS	DESCRIPTION OF SERVICE		
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MAINTENANCE SCHEDULE* EVERY 30 DAYS OR 1,000 MILES EVERY 6 MONTHS OR 5,000 MILES EVERY 90 DAYS OR 2,500 MILES EVERY 60 DAYS ANNUALLY OR 10,000 MILES Air Quality, Condensation, Maintenance, this manual Airing Appliances, this manual; Appliance Manufacturer's instructions **Appliances** Maintenance, this manual **Awning Supports** Chassis Manufacturer's manual Automotive System Maintenance, this manual Auxiliary Heater (Rear) Maintenance, this manual; **Batteries** Maintenance, this manual; Brake & Suspension Manufacturer's manual **Brakes & Suspension** Maintenance, this manual Body Maintenance, this manual **Bumpers** Maintenance, this manual Counter, Table Tops Maintenance, this manual **Doors** Maintenance, this manual **Electrical System** Care of Fabrics, this manual **Fabrics** Maintenance, this manual Floor Coverings Frame Maintenance, this manual . Maintenance, this manual Hinges Maintenance, this manual; Lock/Latch Manufacturer's manual **Locks & Latches** LP Gas: this manual; Appliance Manufacturer's instructions LP Gas Maintenance, Chassis manual Lug Nuts Maintenance, this manual Roof, Body, Underbelly Maintenance, this manual Seams (Seal) Maintenance, this manual Shades, Valances Maintenance, this manual; Step Manufacturer's instructions Steps Pre-Travel Check, Maintenance, this manual; Tire Manufacturer's manual **Tires** TV Antenna TV Antenna Manufacturer's instructions Maintenance, this manual; Vent Manufacturer's instructions Vents Maintenance, this manual Vinyl Ceiling & Wall Panels Maintenance, this manual; Water Heater Manufacturer's manual Water Heater Maintenance, this manual; Window Manufacturer's instructions Windows • Maintenance, this manual Wood Cabinetry

Maintenance schedules listed are minimum requirements; heavy use, unusual temperatures or humidity, or other environmental conditions may require more frequent maintenance.





LIGHT BULBS

SPORTSCOACH AND CROSS COUNTRY

INTERIOR

CEILING LIGHT (TYPICAL)

WALL/OVERHEAD LAMP 1076 OR 921

FLUORESCENT LIGHT F15T8ww OR F8T5ww

AIRCRAFT STYLE LIGHT 903

REFRIGERATOR, DOMETIC GE1576

RANGE HOOD 30 WATT APPLIANCE BULB

MICROWAVE OVEN (COOKTOP LIGHT, 30 WATT, INTERIOR LIGHT MUST BE CHANGED BY TECH)

1141 or 921

CONVECTION OVEN (COOKTOP LIGHT GE36X10176, INTERIOR LIGHT MUST BE CHANGED BY TECH)

BULLET READING LIGHT 93

WARDROBE LIGHT 2112

EXTERIOR

CLEARANCE LIGHT CE194

COMPARTMENT LIGHT GE168 OR 93

MIRROR SIGNAL LIGHT CE194

DRIVING LIGHT, SPORTSCOACH LEGEND H3

DRIVING LIGHT, SPORTSCOACH ELITE & CROSS COUNTRY 894

DOCKING LIGHT, SPORTSCOACH LEGEND GEH7614 FLOOD

DOCKING LIGHT, SPORTSCOACH ELITE & CROSS COUNTRY H7614

PORCH LIGHT 93

FLOOD LIGHT 1156 IR 1295

TAIL LIGHTS, SPORTS COACH LEGEND T3156

STOP/TURN LIGHTS 3157

BACK-UP LIGHTS, SPORTSCOACH LEGEND 3158

BACK-UP LIGHTS, SPORTSCOACH ELITE & CROSS COUNTRY 2156

STOP/TURN LIGHTS, SPORTSCOACH ELITE & CROSS COUNTRY 2157

RUNNING LIGHTS, SPORTSCOACH ELITE & CROSS COUNTRY 3157

LICENSE PLATE LIGHT (ALL) 53

HEAD LIGHTS, (LOW/HIGH), SPORTSCOACH 9007/9007

HEAD LIGHTS, (LOW/HIGH), SPORTSCOACH ELITE & CROSS COUNTRY H7/H7

FRONT TURN & PARKING LIGHT, SPORTSCOACH LEGEND 3157A

FRONT TURN & PARKING LIGHT, SPORTSCOACH ELITE & CROSS COUNTRY 1156



PRE-TRAVEL CHECK

General Driving Checks

For your safety, make certain that the following items have been checked and rechecked before you take your vehicle on the road. Make certain that all items inside are secured (e.g., lawn chairs, pots and pans, TV, etc.). As you travel, these items, if not secured, may become damaged or may damage the interior of your vehicle.

Lights

The following lights should be tested: brake lights, warning lights, flashers, clearance lights, taillights and headlights.

Rearview Mirrors

Adjust the rearview mirrors so that the driver can see the right and left sides of the unit.

Additional Driving Checks

Whether you are departing from your home, rest area or campsite, you should check the following parts of your vehicle before you leave.

Tires

Before each trip, check your tires for uneven wear, road damage, foreign objects or excessive peeling or bulging. Each morning, inspect the condition and pressure. Heat generated by surface friction will increase the tire's air pressure approximately six to nine psi; therefore, do not bleed air out of a hot tire. Inflate the tire to the recommended pressure (indicated either on the tire or in the manufacturer's instruction booklet).

Note: Proper tire inflation is extremely important.

A tire should be replaced when:

- 1. It is worn to 1/16-inch depth in two or more adjacent grooves.
- 2. It is worn to the level of the tread indicators that are molded into the bottom of the tread grooves, or
- 3. The indicators appear in two or more adjacent grooves at three locations around the tire.

On new tire purchases, be certain that the new tire is the same size as the old tire and that the new tire has the same ply rating and load range as the old one. DO NOT mix radial-ply tires with bias or bias-belted tires.

Tire Change

We <u>do not</u> recommend you change a tire. Your motorhome is equipped with heavy-duty truck tires, weighing upwards of 150 pounds each. (See page 15.) However, if you do, change the tire, change it on as level and firm a surface as possible. If you are on the roadside, activate the vehicles' warning flashers. Apply parking brake and move transmission selector to Park (P). Set up flares and/or warning lights. See the chassis manufacturer's owners' 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.

WARNING!!

Never place the jack under a bumper or edge of the sidewall. **Never** place the jack under the tag axle, if so equipped. Use the jack only for changing tires. **Never** get underneath the vehicle when using the jack.

Wheel Lugs

Wheel lugs must be tightened every 50 miles for the first 200 miles whenever a wheel has been reinstalled. Thereafter, check lugs after storage. Failure to maintain proper torque on the lug nuts could result in the wheel(s) becoming loose during travel.

COMMENTS

WARNING!!

Never place the jack under a bumper or edge of the sidewall.

Never place the jack under the tag axle, if so equipped. Use the jack only for changing tires.

Never get underneath the vehicle when using the lack.

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COMMENT	Power Cord The 120-volt shoreline power cord must be unplugged from the external source and placed into its compartment. The cord hatch must be secured before you travel.
NOTES:	Water Fill Hose(s) All hoses must be disconnected and all hose caps must be secured before you travel.
	Sewage Termination Valves These valves must be closed and locked before you travel. The sewer hose must be removed from the termination valve outlet and stored in the appropriate compartment. Termination caps must be securely fastened to the termination valve outlet(s).
	Door Step The door step must be returned to its' travel position before the unit is safe for traveling.
	Windows and Vents All windows and vents should be closed completely or adjusted as desired before you travel.
	TV Antenna The TV antenna must be cranked down to its traveling position.
	Automotive System The automotive system of your vehicle should be serviced and maintained as outlined in the Chassis Owners' Manual.
	Interior Doors and Drawers Close and secure all interior doors and drawers in your unit. Store or secure all loose items.
	Exterior Access Doors Exterior access doors for storage and equipment should be closed and locked.



TRAVEL PREPARATION CHECK LIST

TOOL CHEST	CAMPING COMFORT	PERSONAL COMFORT
Screwdrivers	Dish Washing Soap	Towels
Pliers	Dish Cloth	Wash Cloths
Hammers	Dish Towel	Sheets
Tire Pressure Gauge	Trash Bags	Pillows
Small Level	Мор	Pillow Cases
	Broom	Blankets
Electrical Tape	Vacuum Cleaner	Sleeping Bags
Masking Tape	Dust Pan	Toilet Paper
Vrenches	Paper Towels	Soap Toothbrush
Allen Wrench	Plastic Containers/Bags	Personal Toiletries
Furnace Duct Tape	Foil or Plastic Wrap	Scissors
Hatchet	Throw Rug	Sewing Kit
Shovel	Grilling Utensils	Small Trash Can
Saw	Fly Swatter	Bug Spray
12v Portable Tire Pump	Lawn Chairs	Sunblock
Flares	Matches	First Aid Kit
Tow Rope and/or Chain	Flashlight/Batteries	Umbrella
•	Atlas	Candles
Reflectors	Compass	Cooking Utensils
Twine/Rope	Fire Extinguisher	Hot Pads
Utility Knife	Pen/Paper	Coat Hangers
	Cooler/Ice Chest	Bucket
	Garden Hose	Games/Toys
	20 ft. 3 Prong Power Cord	Camera/Film
	Fuses	Binoculars/Telescope
	Wheel Chocks, Blocks	
	Jack/Jack Stands	1



TROUBLESHOOTING GUIDE

NOTE: Use the manufacturer's Owner's Manuals for all appliance troubleshooting.

PROBLEM

POSSIBLE CAUSE

SOLUTION

ELECTRICAL POWER

No electrical power to unit

Shoreline connection

Be sure you have power to the shoreline.

Circuit breaker (120v) may

off or tripped

Reset breakers.

Circuit breaker (12v) may

be tripped

Reset breaker at battery compartment.

POWER CONVERTER

Converter makes a clicking noise

Circuit overload

Reduce load on circuit.

Reversed polarity at battery

Correct polarity at battery.

Short in recharge line

Locate and repair short.

ELECTRICALLY CHARGED (HOT) CHASSIS

Chassis is electrically charged

Short in 110/120 volt circuit

Disconnect unit from electrical supply. Have unit inspected and repaired if neces-

sary, by a qualified service facility

NOTE: Determine if shoreline has proper

polarity.

Power cord ground wire

removed

Be sure shoreline post ground is earth ground and power cord ground is used.

LIGHTS

Lights flickering

Loose fuse holders

Tighten or replace fuse holder.

Blown fuse.

Replace fuse with one of the same ampere.

Broken connection or wire

Replace connection and/or wire.

Bad ground

Make sure ground connection is secure.

Converter overheating

Allow converter to cool then reduce load.

Lights dim or half bright

Bad battery

Check battery condition.

Possible converter malfunction Have converter checked by an authorized

Service Center



PROBLEM POSSIBLE CAUSE SOLUTION **FURNACE** Furnace does not light May be out of LP gas Check the LP gas supply. Low battery or bad battery Refill water to correct level in bat tery; recharge battery and/or replace battery. Furnace does not light and Blown fuse Replace fuse with one of the same fan does not run ampere rating. Furnace does not light after 1. Turn the thermostat and the furnseveral attempts ace gas control valve OFF. 2. Contact your Sportscoach dealer or authorized Service Center. DO NOT attempt to repair or adjust the furnace. REFRIGERATOR Refrigerator will not cool Coach is not level Level coach. Upper and/or refrigerator Clear all vents of any debris vents clogged or obstructed or obstructions. If running on gas, tank empty Fill LP gas tank. Blown fuse Replace fuse with one of the same ampere rating. TV ANTENNA Power jack not turned 'ON'. TV has poor reception Turn power jack switch 'ON'. Bad connection at TV or Make sure the connections are wall plate good at both TV and wall plate. Cut or nicked cable Replace bad cable where needed at TV and antenna. Antenna not pointed in direction Turn antenna in direction of 'sendof 'sending station' ing station. **OUTSIDE RECEPTACLE** No power to outside receptacle GFI breaker switch may be off Reset GFI at receptacle. or tripped Bad power source Be sure you have power to the shoreline.



CONT'D. PROBLEM	POSSIBLE CAUSE	SOLUTION
GENERATOR Generator cranks but will not start	Generator may be out of gas	Check the fuel level.
	Generator may be low on oil	Check the oil.
Generator starts by there is no power	Fuse on the generator may have blown	Replace fuse with one of the same ampere rating.
	Breaker switches may be off or tripped at generator	Reset breaker.
	Circuit breaker may be off or tripped inside the power center	Reset main breaker.
RV BATTERY RV battery boiling	Water low in battery	Refill water in battery to correct level.
	Bad battery	Replace battery.
	Defective converter	Have converter checked by an authorized Service Center.
RUNNING LIGHTS No running lights	Blown fuse	Replace fuse with one of the same ampere rating.
	Bad bulb(s)	Replace bulb(s).
	Bad ground (rear only)	Check white ground wire ar rear frame.
LP GAS Smell gas in and/or around unit	Possible gas leak in system	Extinguish any open flames, pil lights and all smoking materials
	·	Do not touch electrical switches
	,	Shut off the gas supply at the tank valve(s) or gas supply connection.
		Open doors and other ventilating
		5. Leave the area until odor clears
		Have the gas system checked and leakage source corrected before using again.



CONT'D. PROBLEM **POSSIBLE CAUSE** SOLUTION WATER PUMP Pump fails to start when the switch Fuse located in the converter Replace fuse with one of the same is on may have blown ampere rating. System hooked up to city Disconnect hose from city water water fill fill (DO NOT NEED TO USE PUMP). Pump continues to operate Water tank may be empty or Fill water tank an/or fix any leaks whether the faucets are open there might be a leak in the in the system. or closed system Pump goes ON and OFF with Possible leak in plumbing system Fix any leaks in plumbing system. faucets shut Off fittings or lines Check all fittings for tightness and replace any broken parts. **WASTE TANK** Waste tank will not drain Build-up in tank Check for build-up in tank at stool. Be sure stool holds water. TERMINATION VALVE Termination valve leaks Debris blocking valve or build-up Clear debris from/around valve. Bad gasket Replace gasket. MICROWAVE OVEN Microwave oven will not operate No power to oven Check power supply and circuit breaker. Door open or timer OFF Close door and turn timer ON.



REPORTING SAFETY DEFECTS

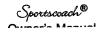
If you believe that your vehicle has a defect which could cause a crash or could cause injury or death, you should immediately inform the National Highway Traffic Safety Administration (NHTSA) in addition to notifying COACHMEN RECREATIONAL VEHICLE COMPANY, LLC.

If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHSTSA cannot become involved in individual problems between you, your dealer, or COACHMEN RECREATIONAL VEHICLE COMPANY, LLC.

To contact NHTSA, you may either call the Auto Safety Hotline toll-free at 1-800-424-9393 (or 366-0123 in Washington, D.C. area) or write to:

NHTSA U.S. Dept. of Transportation Washington, D.C. 20590.

You can also obtain other information about motor vehicle safety from the Hotline.

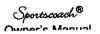




TRAVEL NOTES	



TRAVEL NOTES



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To Our Valued Customer:

If you have a problem obtaining satisfactory and timely warranty service that may substantially impair use, value or safety of your Sportscoach product, please call our Service Support Department toll free at 1-800-453-6064 so that we may attempt to resolve your concerns. You may also contact us through our Service Support website at:

www.coachmenrv.com

All information contained in this publication is believed to be accurate at the time of printing. However, it may be necessary to make revisions and Coachmen reserves the right to make all such changes without notice. Refer to the product information literature provided with your unit for specific warranty details for components and chassis applicable to your recreational vehicle.