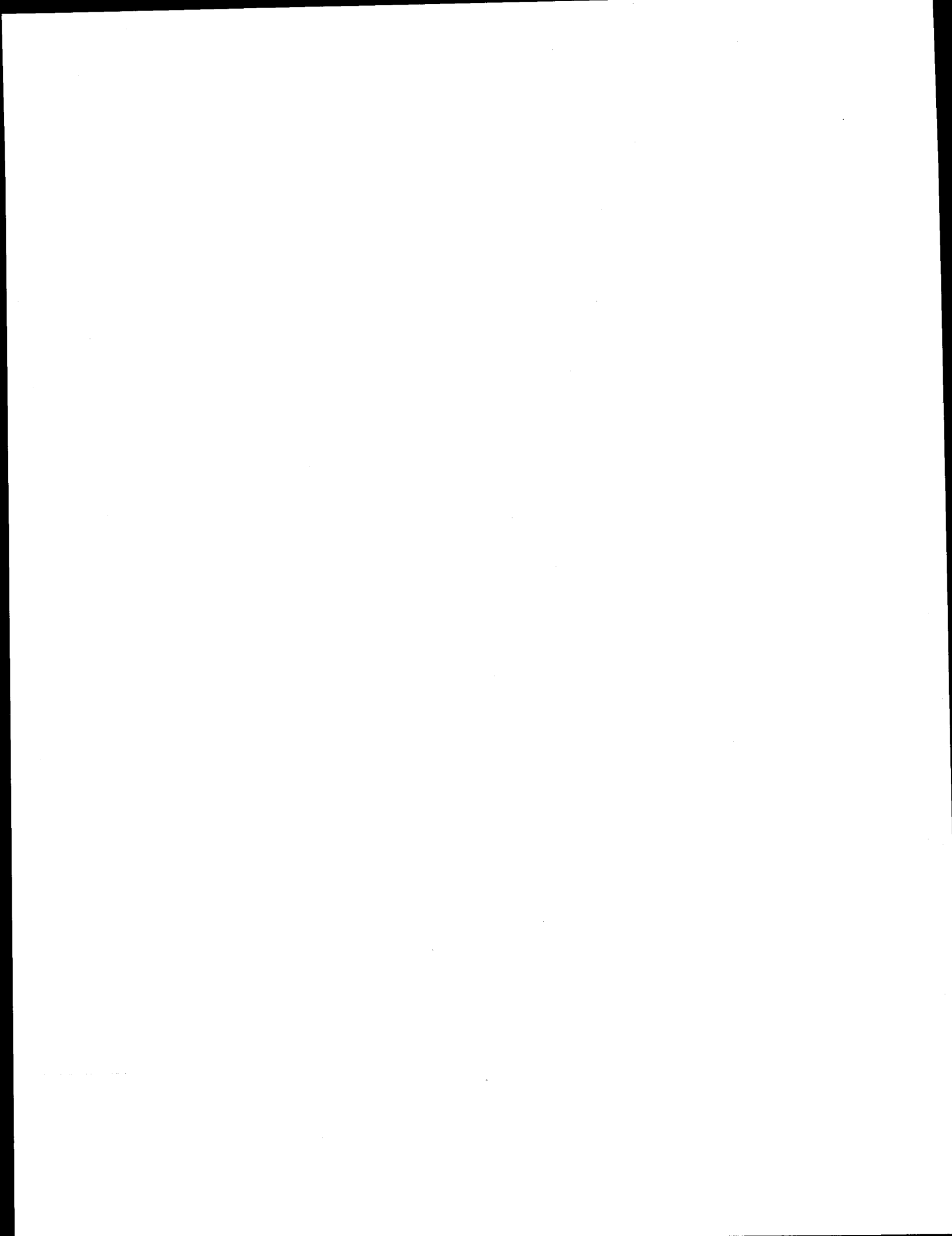


SPORTSCOACH®

OWNER'S MANUAL





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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**

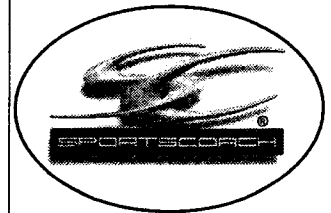
THE FOLLOWING LEGEND IS INTENDED TO EXPLAIN THE VARIOUS ICONS (PICTURES) USED THROUGHOUT THIS MANUAL. THEY ARE USED PRIMARILY FOR YOUR BENEFIT AND TO BRING ATTENTION TO THE INFORMATION AT HAND.

**⚠ WARNING!!**

THE TRIANGLE WITH A LIGHTENING FLASH SYMBOL IS INTENDED TO ALERT THE USER TO PRECAUTIONS WHICH COULD IMPACT YOUR PERSONAL SAFETY AS WELL AS RESULT IN VEHICLE DAMAGE.

**⚠ 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.







## OBTAINING SERVICE

### Prepare for the Appointment

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 performed that is not listed on your Maintenance Log. It is important to keep the log accurate and up to date.

### Be Reasonable with Your Requests

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.

## COMMENTS

NOTES:

Lined area for notes and comments.



COMMENTS

NOTES:

Vertical lines for notes and comments.

WEIGHT DETERMINATIONS

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.

GVWR \_\_\_\_\_ GAWR Front \_\_\_\_\_
GAWR Rear \_\_\_\_\_ with \_\_\_\_\_
tires
RIMS \_\_\_\_\_ at \_\_\_\_\_ PSI cold \_\_\_\_\_

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

06/05/03

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

Table with columns: PRODUCT: SPORTSCOACH, YEAR: 2004, MODEL:, SER#: , VIN#: , FRONT GAWR: LBS., REAR GAWR: LBS., TAG GAWR: 0 LBS., LEFT FRONT: LBS., LEFT REAR: LBS., LEFT TAG: LBS., RIGHT FRONT: LBS., RIGHT REAR: LBS., RIGHT TAG: LBS.

- LBS. GVWR (GROSS VEHICLE WEIGHT RATING) is the maximum permissible weight of this fully loaded motorhome.
LBS. UVW (UNLOADED VEHICLE WEIGHT) is the weight of the motorhome as manufactured at the factory with full fuel, engine oil, and coolant.
LBS. NCC (NET CARRYING CAPACITY) is the maximum weight of all occupants, including the driver, personal belongings, food, fresh water, accessories, etc., that can be carried by this motorhome.
LBS. SCWR (SLEEPING CAPACITY WEIGHT RATING) is the manufacturer's designated number of sleeping positions multiplied by 154 pounds (70 kilograms).
LBS. CCC (CARGO CARRYING CAPACITY) is equal to the GVWR minus each of the following: UVW, full fresh (potable) water weight (including water heater), and LP-Gas weight and SCWR.
LBS. GCWR (GROSS COMBINATION WEIGHT RATING) means the maximum allowable loaded weight of this motorhome and any towed trailer or towed vehicle. Actual GCWR of the vehicle may be limited by the sum of the GVWR and the installed hitch capacity. See hitch rating label for details.

CARGO CARRYING CAPACITY (CCC) LIMITATION: LBS. (KG)
GVWR.....
Minus UVW.....
Minus fresh water weight of 74.2 gallons @ 8.3 lb/gal (3.8kg/gal).....
Minus LP-Gas weight of 38.4 gallons @ 5 lb/gal (2kg/gal).....
Minus SCWR of 6 persons @ 117 lb/person (70kg/person).....
CCC of this motorhome\*

\*Dealer installed 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.







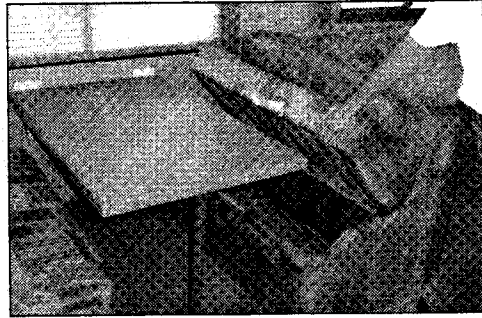




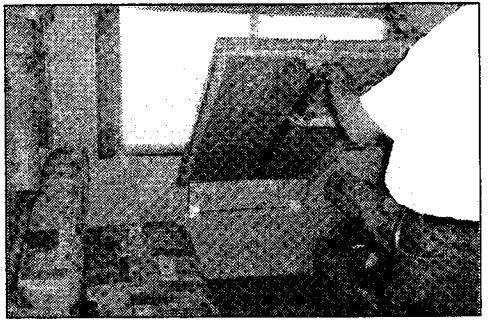
COMMENTS

**DINETTE/BED**

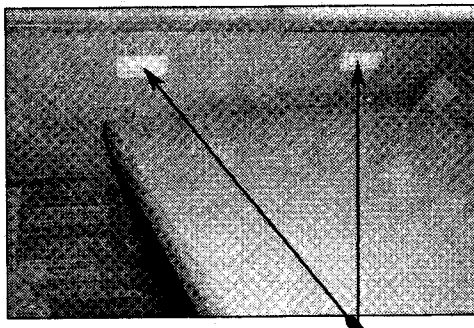
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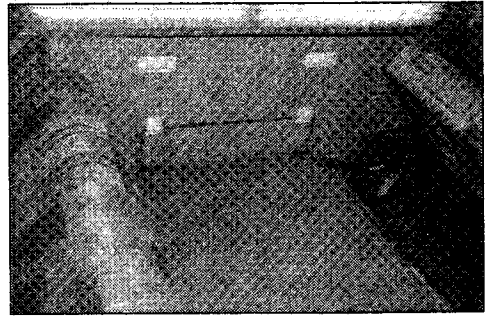
**1. LIFT SEAT BOTTOM**



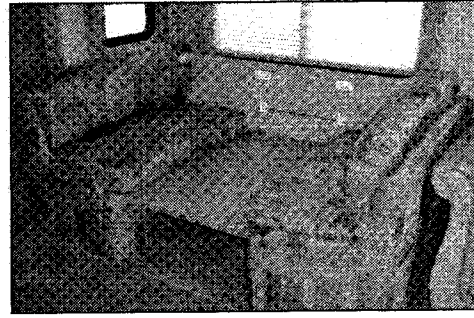
**2. LIFT TABLE AND FOLD LEG**



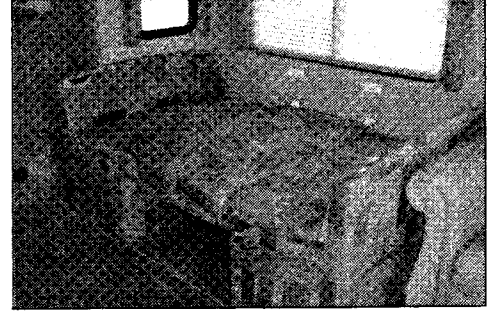
**3. LIFT TOP OUT OF TABS**



**4. SWING TOP DOWN AND PLACE ON SEAT FRAME**



**5. REPLACE SEAT CUSHIONS**



**6. PLACE BACK CUSHIONS ON TABLE AND PRESS INTO PLACE**





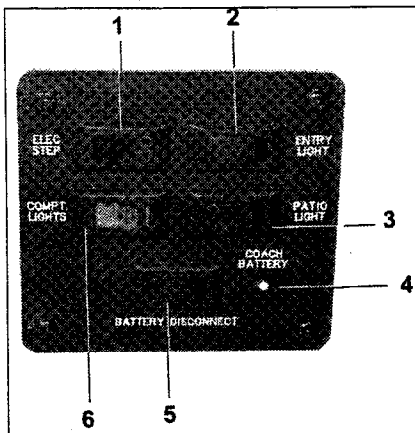












### IMPORTANT

YOU MUST DISCONNECT THE CHASSIS ELECTRICAL SYSTEM IF THE ENGINE WILL NOT BE STARTED 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 COMPARTMENT 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.

### COMMENTS

#### NOTES:

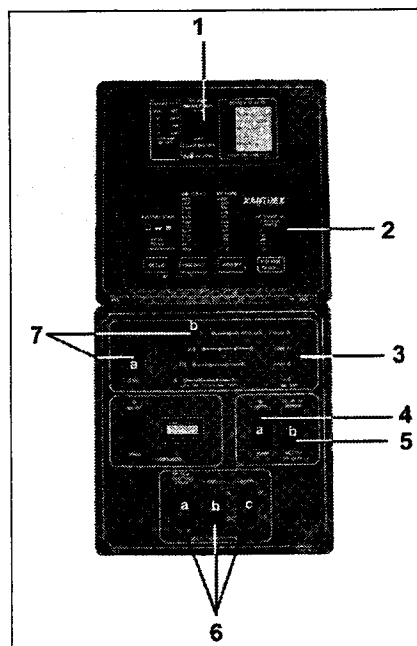
Series of horizontal lines for taking notes.

#### 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

## COMMENTS

### **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.

### **WARNING!!**

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

### **WARNING!!**

1. Always be sure the vehicle is level before operating the slide-out room.
2. Always be sure there are no obstructions blocking the path of the room when it is moving.
3. 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.

## NOTES:

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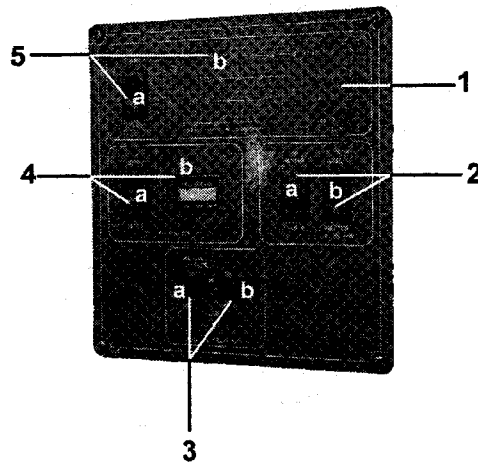
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CROSS COUNTRY MONITOR PANEL

1. BATTERY CONDITION
2. WATER
  - 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



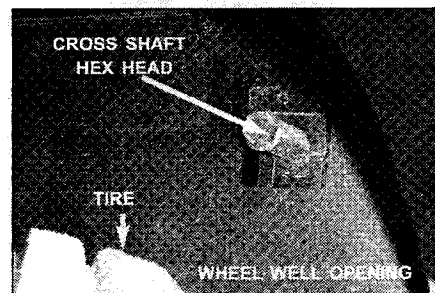
### **WARNING!!**

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.

### 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 under the slide room (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 3/4" 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 switch inside the coach.
- With the switch depressed, begin cranking the room 'IN' with the ratchet.
- When the room is fully retracted, return the override switch to the normal operating position.

### Bedroom Slideout Room (Electric)

- 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 switch 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.

























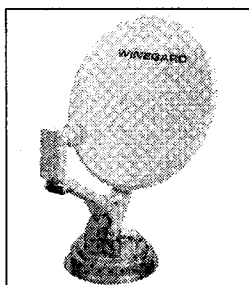




COMMENTS

NOTES:

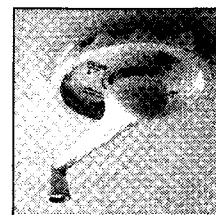
SATELLITE DISH SYSTEM



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

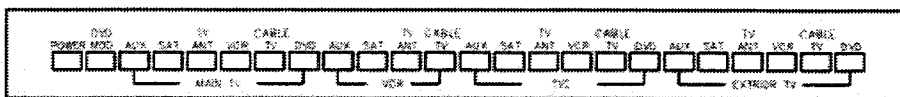
Turn the antenna control handle in the "UP" direction until some resistance is felt. Pull down the rotating plate to disengage it from the ceiling plate and turn it until you find the best sound and signal. Always turn on amplifier power switch. Be sure to lower the antenna before moving your vehicle.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

- 1. 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.
2. 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.
3. 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.









COMMENTS

HOME THEATRE SYSTEM (HT)

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

To View: TV Only (Please Select) TV with HT (Please Select) Bedroom/Aux TV (Please Select)

Table with 4 columns: Source, TV Only (Please Select), TV with HT (Please Select), Bedroom/Aux TV (Please Select). Rows include TV Antenna, Park Cable, Satellite, VCR, DVD, and Auxiliary.

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.*

### 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.

### 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 absorption 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-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.

### 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 SERVICE AND OPERATION 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.

### NOTES:

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**COMMENTS**

**NOTES:**

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.

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.

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**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.





**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:

- 1. Vacuum thoroughly.

**COMMENTS**

NOTES:

Series of horizontal lines for notes.









## 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)	_____	_____	_____
"	_____	_____	_____
Satellite Dish	_____	_____	_____
Satellite Radio	_____	_____	_____
Toilet	_____	_____	_____
TV(s)	_____	_____	_____
"	_____	_____	_____
TV Antenna	_____	_____	_____
Washer/Dryer Combo	_____	_____	_____
Water Heater	_____	_____	_____





## MAINTENANCE SCHEDULE\*

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

*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)	1141 OR 921
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)
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









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



## TROUBLESHOOTING GUIDE

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

<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
<b>ELECTRICAL POWER</b>		
<b>No electrical power to unit</b>	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.
<b>POWER CONVERTER</b>		
<b>Converter makes a clicking noise</b>	<b>Circuit overload</b>	<b>Reduce load on circuit.</b>
	<b>Reversed polarity at battery</b>	<b>Correct polarity at battery.</b>
	<b>Short in recharge line</b>	<b>Locate and repair short.</b>
<b>ELECTRICALLY CHARGED (HOT) CHASSIS</b>		
<b>Chassis is electrically charged</b>	Short in 110/120 volt circuit	Disconnect unit from electrical supply. Have unit inspected and repaired if necessary, 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.
<b>LIGHTS</b>		
<b>Lights flickering</b>	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.
<b>Lights dim or half bright</b>	Bad battery	Check battery condition.
	Possible converter malfunction	Have converter checked by an authorized Service Center



<b>PROBLEM</b>	<b>POSSIBLE CAUSE</b>	<b>SOLUTION</b>
<b>FURNACE</b> 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 battery; recharge battery and/or replace battery.
<hr style="border-top: 1px dashed black;"/>		
Furnace does not light and fan does not run	Blown fuse	Replace fuse with one of the same ampere rating.
Furnace does not light after several attempts		1. Turn the thermostat and the furnace gas control valve OFF. 2. Contact your Sportscoach dealer or authorized Service Center. <b><u>DO NOT attempt to repair or adjust the furnace.</u></b>
<hr/>		
<b>REFRIGERATOR</b> Refrigerator will not cool	Coach is not level	Level coach.
	Upper and/or refrigerator vents clogged or obstructed	Clear all vents of any debris or obstructions.
	If running on gas, tank empty	Fill LP gas tank.
	Blown fuse	Replace fuse with one of the same ampere rating.
<hr/>		
<b>TV ANTENNA</b> TV has poor reception	Power jack not turned 'ON'.	Turn power jack switch 'ON'.
	Bad connection at TV or wall plate	Make sure the connections are 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 of 'sending station'	Turn antenna in direction of 'sending' station.
<hr/>		
<b>OUTSIDE RECEPTACLE</b> No power to outside receptacle	GFI breaker switch may be off or tripped	Reset GFI at receptacle.
	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 but 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.

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**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 at rear frame.

---

**LP GAS**

Smell gas in and/or around unit

Possible gas leak in system

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 using again.



CONT'D.

**PROBLEM**

**POSSIBLE CAUSE**

**SOLUTION**

**WATER PUMP**

Pump fails to start when the switch is on

Fuse located in the converter may have blown

Replace fuse with one of the same ampere rating.

System hooked up to city water fill

Disconnect hose from city water fill (DO NOT NEED TO USE PUMP).

Pump continues to operate whether the faucets are open or closed

Water tank may be empty or there might be a leak in the system

Fill water tank an/or fix any leaks in the system.

Pump goes ON and OFF with faucets shut Off

Possible leak in plumbing system fittings or lines

Fix any leaks in plumbing system. 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, NHTSA 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:

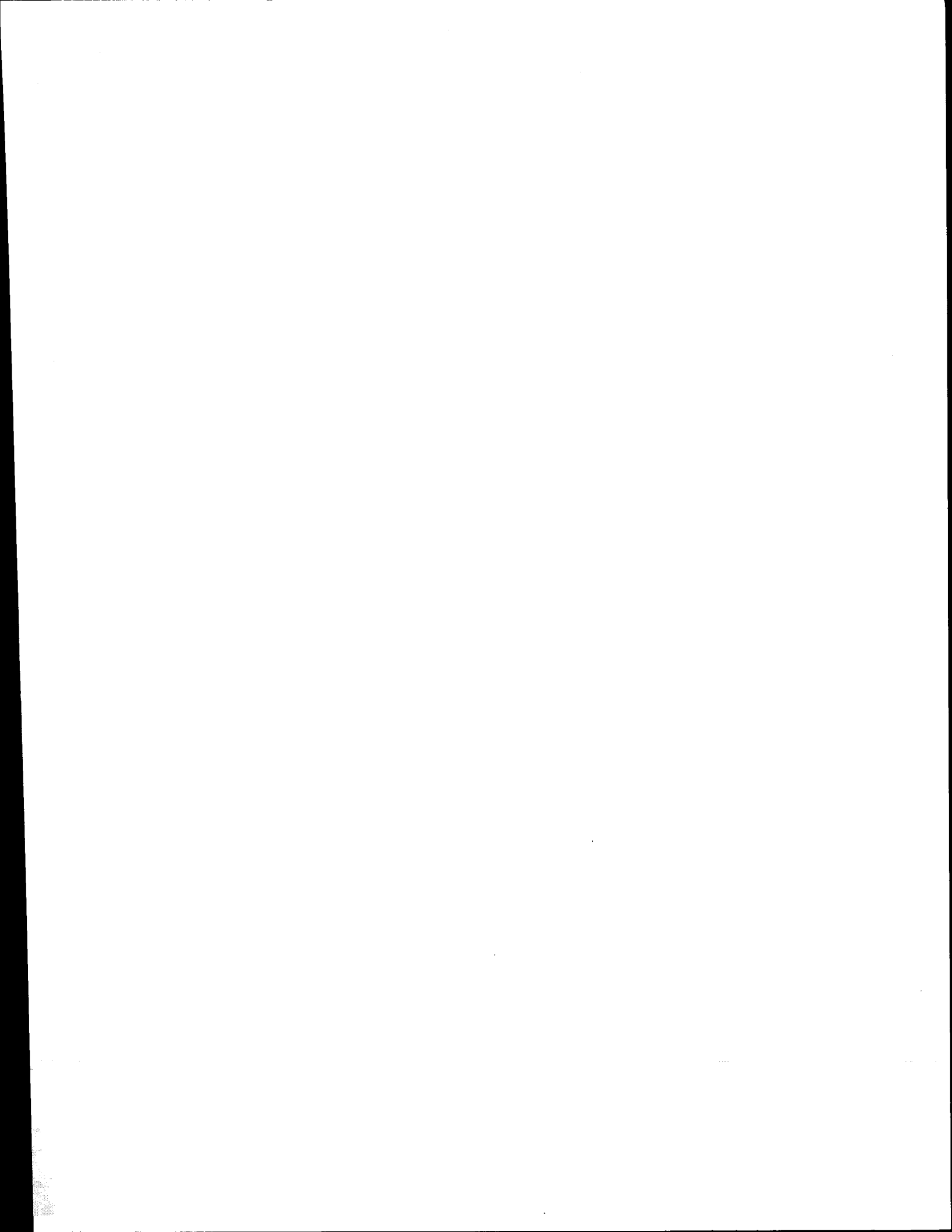
NHTSA  
U.S. Dept. of Transportation  
Washington, D.C. 20590.

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











### **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](http://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.