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WELCOME TO "RV'ING" BY COACHMEN

Your Travel Trailer was manufactured by Coachmen Recreational Vehicle Company, LLC.

Welcome to our growing family of satisfied RV owners. Hours of relaxation, adventure and enjoyment await you and your family in your new RV. It is our intention that with the help of this manual that you will be able to enjoy your purchase for many years.

This owner's manual has been prepared to help you and your family use and enjoy your new RV by providing basic instructions for the operation and maintenance of the appliances, accessories and RV systems. Please read it carefully and follow the instructions. Also read and follow the instructions contained in the appliance and accessory manufacturer's booklets provided with your RV.

If you have any questions regarding the operation, maintenance or service of your new RV, please contact your dealer or Coachmen Service Operations so we can assist you. Your complete satisfaction is of the utmost importance to us.

Operation and maintenance instructions regarding appliances in this manual were obtained from the manufacturer's booklets and are used with the permission of those various manufacturers. Coachmen RV reserves the right to present edited portions of these materials. However, for a full understanding of these appliances, we suggest that you review those materials separately.

We offer a variety of recreational vehicles with varied standard and optional equipment; therefore, certain descriptions in this manual may not apply to your RV. Ask your authorized dealer, or see the current brochure for information on the availability of standard and optional equipment.

Thank you for buying our product. The entire Coachmen RV family wishes you many safe and enjoyable journeys in your new RV.

Sincerely,

The Coachmen Service Operations Team

Note: Coachmen RV works year round to improve its products. As a result, all specifications and equipment are subject to change with out notice.

All information contained in this Owner's Manual is believed to be accurate at the time of publication; however, during the model year it may become necessary to make revisions and Coachmen RV reserves the right to make all such changes without notice.

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

WARNING!!!

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.



WARNING!!!

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.



WARNING!!!

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.



WARNING!!!

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



WARNING!!!

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.



WARNING!!!

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 LEG-**END IS INTENDED TO EXPLAIN THE VARIOUS ICONS (PICTURES) USED** THROUGHOUT THIS MAN-**UAL. THEY ARE USED** PRIMARILY FOR YOUR **BENEFIT AND TO BRING** ATTENTION TO THE INFORMATION AT HAND.

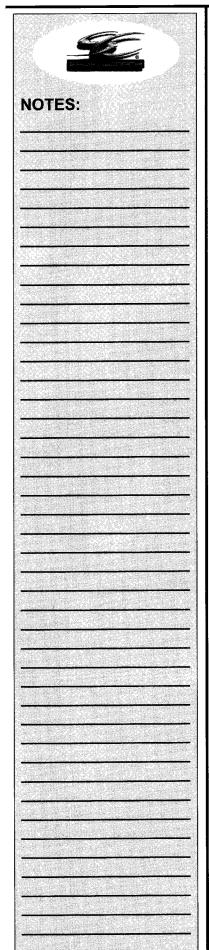
WARNING!!!

THE TRIANGLE WITH A LIGHTING FLASH SYM-**BOL 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.**

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

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.
- 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.

OBTAINING SERVICE

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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 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

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

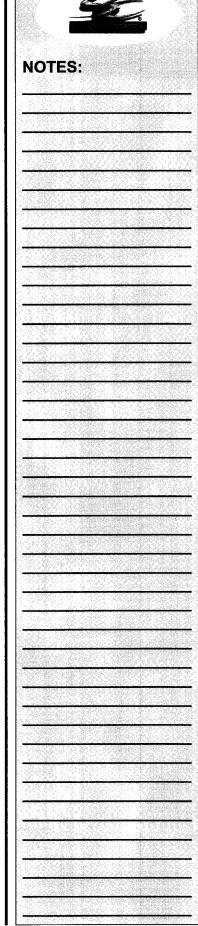
Vehicle licensing laws vary from state-to-state. Check with your state license bureau or the nearest licensing branch office for the requirements of your state. Be sure to renew your driver's license if it has expired or will expire during your trip.

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

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 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		AWR FRONT
GAWR REAR TIRES	w	ITH
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.

multimla maculu	is designe	d to allow	for a wide variety of	uses from	extended tr	ips with two people t	o short trips with
the beneficiary of	According f this desi	gry, unis um on, the cust	it allows ample room tomer also bears the n	ior sieepir esponsibil	ng, seamng, ity to select	the proper combinat	ion of passengers
cargo load and to	wed vehic	cle without	exceeding the chassis	s weight c	apabilities.		
Seat belts are req	uired to b	e worn in n	nost states, and should	d always b	e used for r	passenger safety. Sea	t belts have been
			allow convenience in				
factors.	ous equipp	sea with sea	at belts may be occup	ned while	venicie is in	i motion, without reg	ard to other weig
144-15101	DO NO	OT EXCEE	D THE CARGO CA	RRYING	CAPACITY	Y OF THIS VEHICL	В
PRODUCT: SC	ELITE M	IH 40QS	YEAR:	2007 1	MODEL:		CA08785717009 ZAB2DC86CW
EDONE CAND.	12000	r nc	BRAD CATED.	20000	* ***		
FRONT GAWR:	12000	LBS.	REAR GAWR:	20000	LBS.	TAG GAWR:	0 LBS.
	3	*ACT	TUAL WEIGHTS AS	MANUFA	CTURED*		
LEFT FRONT:	5140	LBS.	LEFT REAR:	7960	LBS.	LEFT TAG:	LBS.
RIGHT FRONT:	4920	LBS.	RIGHT REAR:	8820	LBS.	RIGHT TAG:	LBS.
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26 922 LBS. UV	VW (UNLO	DADED VE	HICLE WEIGHT) is th	e weight of	this motorhe	ome as manufactured a	t the factory with f
26,922 LBS. UV fuel, engis	VW (UNLO	DADED VE	LE WEIGHT RATING HICLE WEIGHT) is the LE UVW does not include	e weight of	this motorhe	ome as manufactured a	t the factory with f
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CARGO CARRYING CAPACITY (CCC) COMPUTATION:	LBS.	(KG.)
GVWR	32,000	14,512.4
Minus UVW	26,922	12,209.5
Minus fresh water weight of 113.4 gallons @8.3 lb/gal (3.8kg/gal)	941	430.9
Minus Propane weight of 38.4 gallons @4.5 lb/gal (2kg/gal)	173	76.8
Minus SCWR of 3 persons @154 lb/person (70kg/person)	See tab	le below

CCC (@ various vehicle occupancy)

		weight @	CCC		
	# of Occupants	LBS.	(KG.)	LBS.	(KG.)
SCWR	1 Occupant(s) 2 Occupant(s) 3 Occupant(s)	154 308 462	69.8 139.6 209.5	3.810 3.656 3.503	1.727.8 1.658.0
SCWK	5 Occupantis)	402	209.5	3,502	1.388.4

*Dealer installed equipment and towed vehicle tongue weight will reduce CCC

ALL WEIGHTS ARE APPROXIMATE and provided to assist the operator in the proper loading of this vehicle.
WARNING: CONSULT OWNER MANUALISE FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES INCLUDING AUXHLIARY BRAKE REQUIREMENTS FOR ANY TOWED TRAILER OR TOW DVEHICLE.

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 1/2 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 1/2 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 comers 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 a hitch that Sportscoach uses is shown below.



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. **CAUTION**: 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.



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 SUS-PENSION COMPONENTS (SPRINGS, SHOCKS, **AXLES) OR HEAVIER-PLY TIRES DOES NOT INCREASE THE WEIGHT RATINGS PRINTED ON** THE VEHICLES' CERTIFI-CATION PLATE. THE **GAWR OF EACH AXLE IS** DETERMINED BY THE **AXLE SYSTEM COMPO-NENTS WITH THE LOW-EST WEIGHT-CARRYING** CAPACITY. TO AVOID **OVERLOADING YOUR VEHICLE CHECK THE GVWR AND GAWR.**

TIP: A PROPERLY LOADED UNIT CAN HELP CONSERVE FUEL AND PREVENT EXCESSIVE WEAR.

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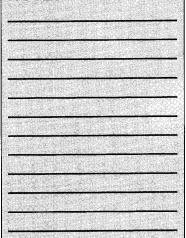
WARNING!! ALL OCCUPANTS MUST **BE FURNISHED WITH** AND USE SEAT BELTS WHILE THE VEHICLE IS IN MOTION, DO NOT OCCUPY THE BEDS WHILE TRAVELING AS SAFETY PROTECTION IS NOT PROVIDED.

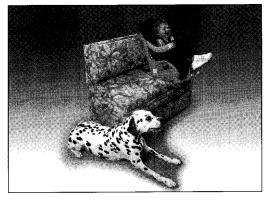
WARNING!! FOR MAXIMUM PROTEC-TION, CHILDREN MUST **BE TRANSPORTED** RESTRAINED.

INFANTS SHOULD BE PLACED IN THE APPROPRI-ATE 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 ACCOR-DANCE WITH THE CHILD SEAT MANUFACTURER'S INSTRUCTIONS.

NOTES:





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.

WARNINGIII

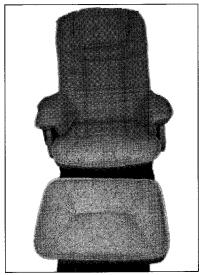
THIS SEAT IS **NOT** FOR OCCUPANCY WHILE VEHICLE IS IN MOTION. SECURE OTTOMAN AND CHAIR ACCORDING TO 'INSTRUCTIONS FOR USE'. FAILURE TO COMPLY COULD RESULT IN SERIOUS INJURY OR DEATH.



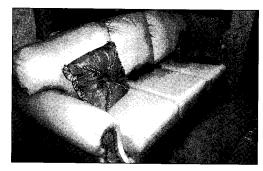
INSTRUCTIONS FOR USE

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.
- 3. Place the ottoman upside down on the seating portion of the chair.
- 4. Loop the strap around the leg of the ottoman, under the chair arms and around the chair back.
- 5. Connect the plastic buckle on the ends of the strap and tighten until snug.



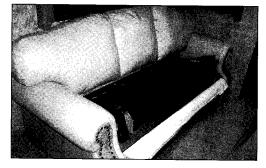
SOFA/SOFA BED



1. SOFA BED



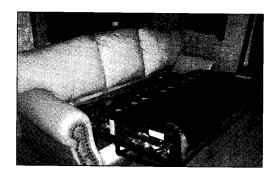
2. REMOVE CUSHIONS



3. PULL UP ON LOCK BAR



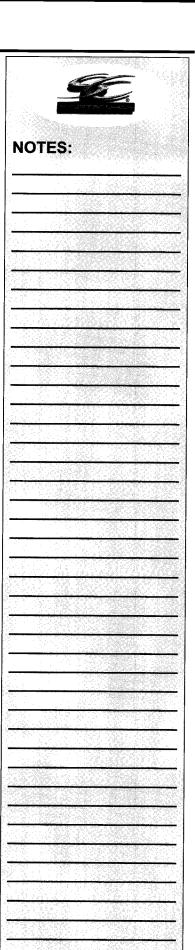
4. PULL RELEASE LEVER



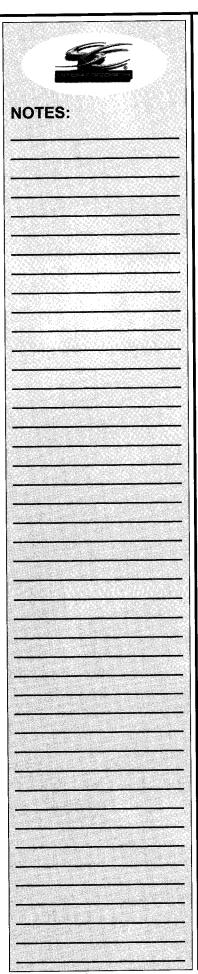
5. PULL FRAME UP AND OUT



6. EXTEND LEGS AND UNFOLD MATTRESS



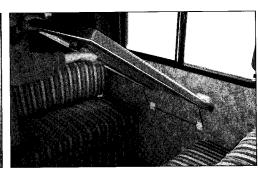
Sports Coach® Owner's Manual Coachmen RV. Co., LLC.



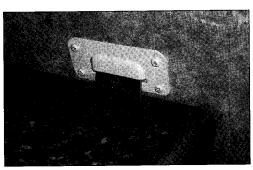
DINETTE/BED



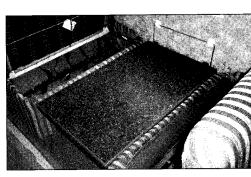
1. LIFT SEAT BOTTOM LEG



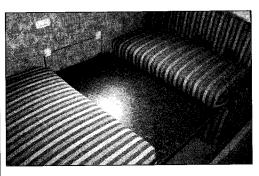
2. LIFT TABLE AND FOLD



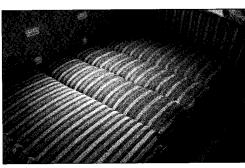
3. LIFT TOP OUT OF TABS



4. SWING TOP DOWN AND PLACE ON SEAT FRAME



5. REPLACE SEAT CUSHIONS



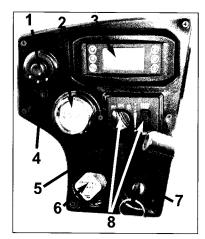
6. PLACE BACK CUSHIONS ON TABLE AND PRESS INTO PLACE

INSTRUMENT PANELS

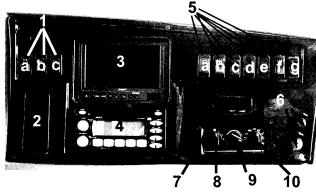
Your vehicles' automotive instruments and controls are designed for convenience and safety. Since dashboards will vary depending on model and options chosen, read the chassis manufacturer's owner's manual for complete details on operation and maintenance of the systems.

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.

ELITE/ LEGEND LEFT DASH PANEL ONLY



ELITE/LEGEND RIGHT DASH PANEL ONLY

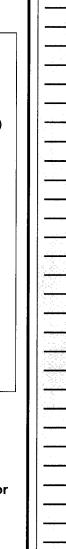


LEFT DASH PANEL

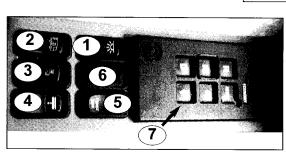
- 1. Mirror-Directional
- 2. Trip Odometer
- 3. Engine Display
- 4. Mirror Heater
- 5. Trip Reset
- 6. Park Brake
- 7. Ignition Key Switch
- 8. Headlight/Dome Lt switch

RIGHT DASH PANEL

- 1.Switches
- a. Emergency Start
- b. Air/Electrical Horn
- c. Docking Lights
- 2. Warning Lights (step out/generator on)
- 3. Rear Monitor
- 4. Radio
- 5. Switches
- a. Radio Power
- **b.** Sunvisor (passenger side)
- c. Defrost Fan (passenger side)
- d. Blank
- e. Blank
- f. Generator (Start/Stop)
- g. Step Cover
- 6. 12 volt Outlet
- 7. Compass/ Exterior Temp
- 8. Dash AC (Fan Speed)
- 9. " (temp adjust)
- 10. "



NOTES:

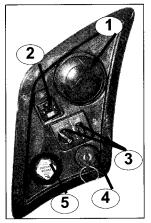


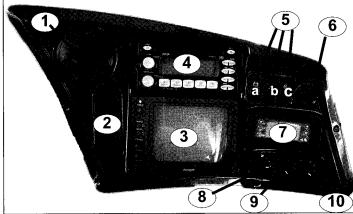
LEFT DRIVER PANEL ELITE/LEGEND ONLY

- 1. Ceiling Map Light
- 2. Manual Air Dump
- 3. Driver's Side Defrost Fan
- 4. Driver's Side Power Sun Visor
- 5. Engine Exhaust Brake
- 6. Pedal Adjustment
- 7. Transmission Selector

NOTES:

ENCORE, CROSS COUNTRY, AND CROSS COUNTRY SPECIAL EDITION ONLY





LEFT DASH PANEL

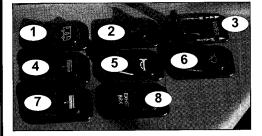
RIGHT DASH PANEL

LEFT DASH PANEL

- 1. Air Vent
- 2. Power Mirror
- 3. Headlight/Dome LT switch
- 4. Ignition Key
- 5. Park Brake

RIGHT DASH PANEL

- 1. Air Vent
- 2. Warning Lights (step out/ generator on)
- 3. Rear Monitor
- 4. Radio
- 5. Switches
- a. Emergency Start
- b. Radio
- c. Blank
- 6. 12 volt Outlet
- 7. Engine Display
- 8. Dash AC (Fanspeed)
- 9. " (Temperature)
- 10. " "

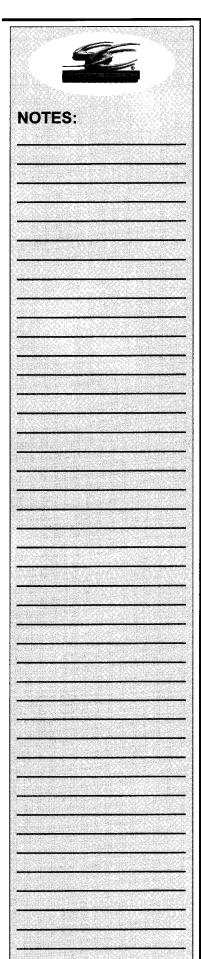


LEFT DRIVER PANEL FOR THE FOLLOWING:
ENCORE, CROSS COUNTRY, CROSS COUNTRY SE ONLY

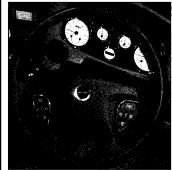
- 1. Air Dump (Encore only)
- 3. Wiper Delay
- 5. Air Electric Horn
- 7. Power Sun Visor (Pass)

- 2. Defrost Fans
- 4. Power Sun Visor (Drivers)
- 6. Wiper Speed
- 8. Engine Exhaust Brake

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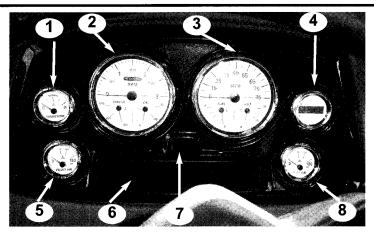


STEERING WHEEL CONTROLS (IF EQUIPPED)



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.



ENCORE CENTER DASH PANEL

Pictured to the right is the center dash panel for the cross country.

- 1. Tachometer/Engine Temp./ Oil Pressure 2. Transmission Temp.
- 4. Trip Odometer

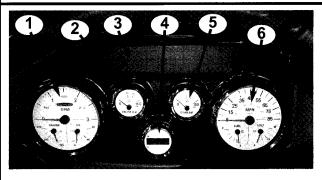
5. Air Pressure

3. Speedometer/Fuel/Volt

6. Engine Warning Lights

7. Trip Reset/Select

8. Air Pressure



ELITE/LEGEND CENTER DASH PANEL

Pictured on the left is the center dash panel for the Sportscoach.

- 1. Tachometer/Engine Temp./ Oil Pressure
- 3. Engine Warning Lights

2. Air Pressure

- 4. Transmission Temp
- 5. Air Pressure
- 6. Speedometer/Fuel/Volt

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 alien 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.

ANTILOCK BRAKING SYSTEM (ABS)

The Antilock Braking System (ABS) is an electronic wheel speed monitoring and control system that works with air brake system. ABS passively monitors vehicle wheel speed at all times, but controls wheel speed during an emergency or reduced-traction stop. In normal braking applications, the standard air brake system is in effect.



WARNING!! IF ANY OF THE ABS WARNING LIGHTS DO **NOT WORK AS DESCRIBED ABOVE OR COME ON WHILE DRIV-**ING, REPAIR THE ABS SYSTEM IMMEDIATELY TO ENSURE FULL ANTILOCK BRAKING CAPABILITY. OPERATING THE VEHICLE WHEN THE ABS NEEDS TO BE SERV-ICED COULD CAUSE AN **ACCIDENT, POSSIBLY RESULTING IN PERSON-**AL INJURY OR DEATH, OR PROPERTY DAMAGE.

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NEVER PUSH THE BRAKE PEDAL DOWN WHEN THE **SPRING BRAKES ARE** ON. IF YOU DO, THE **BRAKES COULD BE DAM-**AGED 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.**

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AIR BRAKE SYSTEM

During normal brake stops, depress the foot brake control pedal until braking action slows the vehicle. Increase or decrease the pressure on the pedal so that the vehicle comes to a smooth, safe stop. When the forward speed of the vehicle has decreased almost to the idling speed of the engine, shift the transmission into Neutral (N). Apply the parking brake if the vehicle is to be parked.

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

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

CAUTION!!

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

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

REEING AN IMMOBILE MOTORHOME

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

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



A CAUTION!! PROLONGED ROCKING, EVEN AT LOW SPEEDS, MAY CAUSE ENGINE OVERHEATING, TRANS-MISSION AND AXLE DAM-AGE OR FAILURE, OR TIRE DAMAGE.

NOTES:

SportsCoach® Owner's Manual Coachma



CAUTION!! DO NOT ALLOW YOUR VEHICLE TO BE TOWED WITHOUT FIRST HAVING READ RELATED SEC-TIONS OF THE CHASSIS OPERATORS MANUAL.

NOTE:

COACHMEN DOES NOT ASSUME RESPONSIBILI-TY FOR DAMAGE INCURRED WHILE TOW-ING THIS VEHICLE.

NOTES:

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:
 - Length and height of vehicle.
 - Chassis Manufacturer gross vehicle weight

(This information is found on the vehicle certification label located to the left of the drivers seat.)

- TO PREPARE YOUR VEHICLE FOR TOWING: 1. Secure any loose protruding body parts of the disabled vehicle.
- 2. Secure any heavy loose items in the interior. 3. Turn off all LP gas appliances and shut off the LP gas tank valve.
- 4. Do not allow anyone to ride in the towed vehicle.

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 **EMERGENCY TOWING** damage incurred while towing this vehicle.

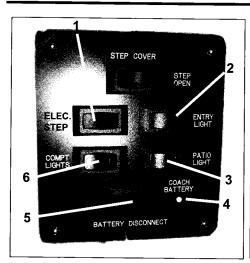
CAMPSITE SELECTION

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 an drainage systems to operate properly (both function by gravity). To determine level ness, place a level on the bottom of the refrigerator's freezer compartment or on normally level location inside the vehicle. You may wish to permanently attach level (available at your dealer) on the front and/or back and sides of the vehicle. This v allow you to tell at a glance if you've stopped on a level site and will help speed t leveling process.

MONITOR PANELS/POWER CENTER

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



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.

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.

"THIS VEHICLE MAY BE EQUIPPED WITH ONE OR MORE DEVICES THAT RECORD SPECIFIC VEHICLE DATA. THE TYPE AND AMOUNT OF DATA RECORDED WILL VARY DEPENDING ON HOW THE VEHICLE IS EQUIPPED. PLEASE REFER TO THE OWNER'S MANUAL FOR YOUR CHASSIS FOR FURTHER INFORMATION."

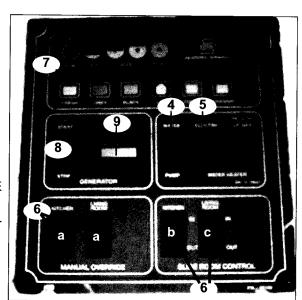
Sports Coach® Owner's Manual

Coachmen RV. Co., LLC.

ENTRY DOOR SWITCH PANEL (FREIGHTLINER)

These features include the following:

- 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.
- ENERGY MANAGEMENT SYSTEM (IF EQUIPPED)
- 2. INVERTER PANEL (IF EQUIPPED)
- 3. BATTERY CONDITION
- 4. WATER PUMP
- 5. WATER HEATER
 - a. 120 Volt
 - b. Gas
- 6. SLIDEOUT CONTROLS
 - a. MANUAL OVERRIDE SWITCH KITCHEN
 - b. KITCHEN SLIDEOUT CONTROL
 - c. LIVING ROOM SLIDEOUT
- 7. HOLDING TANK CONTROLS
 - a. TEST SWITCH
 - b. TANK FLUID LEVELS
- 8. Generator Start/Stop switch
- 9. Generator Hour Meter



POWER CENTER (ELITE 2007)

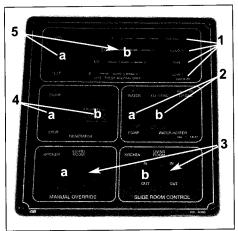
WARNING!! **OPERATING THE ROOM** WHILE THE ROOM-LOCK-ING DEVICES ARE **INSTALLED CAN CAUSE PERSONAL INJURY AND** VEHICLE DAMAGE. IT IS THE OPERATOR'S RESPONSIBILITY TO **ENSURE THAT ALL ROOM-LOCKING DEVICES ARE DISENGAGED BEFORE** OPERATING THE ROOM.

WARNING!! THE PARKING BRAKE MUST BE SET AND THE JACKS MUST BE EXTEND-**ED 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

NO.	TE:		



ELITE 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

SLIDEOUT SYSTEM

TRAVEL LOCK

WARNING!!

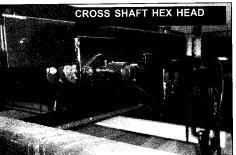
OPERATING THE ROOM WHILE THE **ROOM-LOCKING** ARE **DEVICES** INSTALLED CAN CAUSE PERSONAL INJURY AND VEHICLE DAMAGE. IT IS THE OPERATOR'S RESPONSIBILITY TO **ENSURE THAT ALL ROOM-LOCKING** DEVICES ARE DISENGAGED BEFORE OPERATING THE ROOM.

SLIDE ROOM MANUAL RETRACTION (SPORTSCOACH, ELITE, ENCORE ONLY)



MAIN SLIDE ROOM

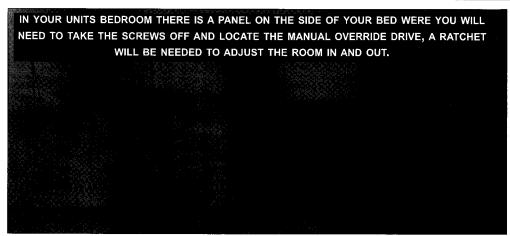
Locate the slide out mechanism drive gear cross shaft, the off-door side main slide mechanism can be found inside the storage compartment door under the slide room (looking up inside the compartment). The kitchen slideroom mechanism can be found behind the front wheel well.



CROSS COUNTRY, AND SPECIAL **EDITION ONLY**

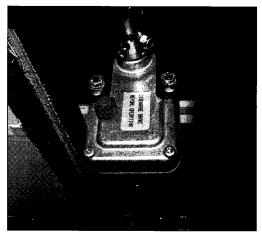
- A manual override hex head is located on the end of the drive gear cross shaft.
- Using the 1/2 socket and ratchet, connect to the override hex head.
- Have someone press down and hold the override switch located next to the slideout operation switch inside the coach.
- With the switch depressed begin 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)** (Diagram on following page)
 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 slideout 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.



SLIDEOUT ROOM MANUAL RETRACTION (CROSS COUNTRY AND SPECIAL EDITION ONLY) 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 1 1/8" socket and ratchet, crank room in.
- · When retracted, release switch.



ELITE, ENCORE MAIN COACH SLIDE MANUAL OVERRIDE

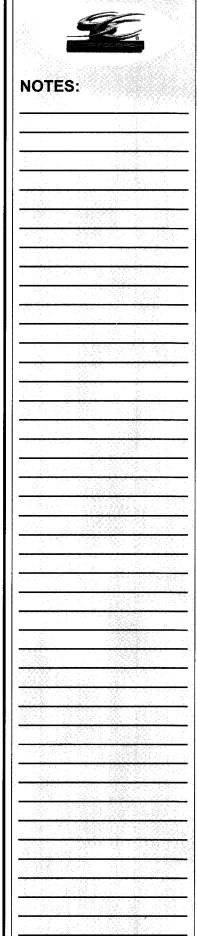


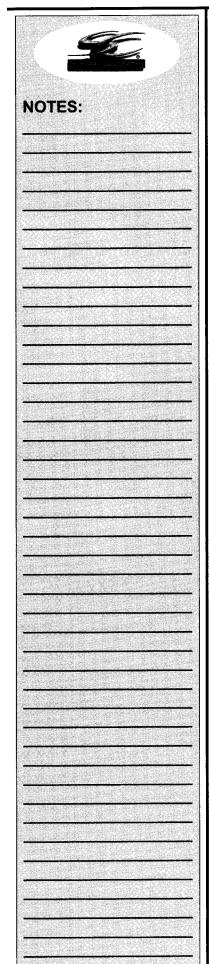
ELITE ABOVE FLOOR SLIDE (WARDROBE, KITCHEN) CROSSCOUNTRY SE ABOVE FLOOR (KITCHEN WARDROBE)

SLIDEOUT ROOM MANUAL RETRACTION (SPORTSCOACH, CROSS COUNTRY, SPECIAL EDITION ONLY) <u>KITCHEN/ WARDROBE SLIDEOUTS</u>

- •The kitchen override switch is located in the second right storage door from the front on the roof of the storage compartment.
- The wardrobe override switch is located in the fifth right storage door from the front of the unit. on the roof of the storage compartment.
- •Have someone press down and hold the manual override switch located next to the slideout operation switch inside the coach.
- Using a crescent wrench rotate the slideout driveshaft until the room is fully retracted/extended.
- When the room is fully retracted, return the override switch to the normal position.

SHOULD YOU REQUIRE ADDITION ASSISTANCE, PLEASE DO NOT HESITATE TO CALL COACHMEN CUSTOMER SERVICE @ 800.453.6064





BEDROOM SLIDEOUT ROOM (ELECTRIC)

*See bedroom slideout room (electric) for Sportscoach on previous page.

PREVENTATIVE MAINTENANCE

Your slideout system has been designed to require very little maintenance. To ensure the long life of your slideout 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.
- 2. 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 @ 800.453.6064**

LEVELING JACKS

BEFORE YOU LEVEL YOUR COACH

- · Park brake must be set and transmission must be in "park" ("neutral" for diesel coaches) before jacks will operate.
- · Check leveling site to make sure obstructions have been cleared away for proper jack operation.
- · Selecting a site: When the coach is parked on an excessive slope the leveling requirements may exceed the jack lift stroke capability. If the coach is parked on an excessive slope, the coach should be moved to a more level surface before the leveling system is deployed.



CAUTION!!!

Keep people clear of coach prior to turning the leveling system on and while leveling system is in use.



CAUTION!!!

Never expose hands or other parts of the body near hydraulic leaks. High-pressure oil leaks may cut and penetrate the skin causing serious injury.



CAUTION!!!

If your coach is equipped with a slide out(s) always level your unit first, and then operate the slide out room(s). When retracting the slide(s), always retract the room(s) first then retract the leveling jacks. Following this procedure will produce the least amount of stress on your chassis.



CAUTION!!!

Please read the owners' manual from the manufacturer who built and designed your motor home for further leveling and slide out room operating information and safety features.



WARNING!!!

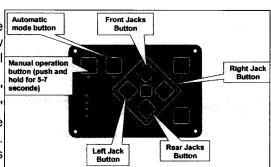
THIS IS A LEVELING SYSTEM ONLY AND IS NOT INTENDED TO LIFT YOUR COACH'S TIRE OR TIRES COMPLETELY OFF THE GROUND. ATTEMPTING TO LIFT YOUR COACH COMPLETELY OFF THE GROUND (FOR EXAMPLE, TO USE THIS LEVELING SYSTEM TO CHANGE A TIRE) COULD CAUSE DAMAGE TO THE SYSTEM AND SERIOUS INJURY TO THE PARTIES INVOLVED. IF A TIRE SHOULD REQUIRE CHANGING PLEASE HAVE THE PROPER EQUIPMENT AND CONTACT A PROFESSIONAL.

LEVELING YOUR COACH

- 1. Turn on the ignition and start the coach. Your leveling control will start a self check sequence indicated by the lights on the panel blinking in a rotating pattern. It will turn off when it has finished it's self check.
- 2. Push the "On/Off" button on control panel. The system is now operational and the "On/Off" LED will turn on.
- 3. Check to see that the engage park brake light is not illuminated. If so, engage the parking brake. (Your coach will have to be in neutral or park to operate the system).
- 4. Push the "AUTO" button. The automatic leveling system will begin it's leveling procedure. Please avoid movement in the coach during automatic leveling as it can cause errors in the results. It will signal that it has completed the process by illuminating the center green "LEVEL" light. Check to make sure that all jacks are on the ground. Also check to make sure that no tire is off the ground. If so, your leveling process is complete. If further adjustments are needed, refer to the "Manual Operation" section.
- 5. You can then turn the system off by pushing the on/off button again.

RETRACTING YOUR LEVELING JACKS

- 1. Turn on the ignition
- Turn on the system by pushing the "on/off" button. The system is now operational and the "On/Off" LED willturn on.
- Push the "RETRACT-ALL JACKS" button. When the "JACKS DOWN" light turns off, visually check to make sure that all jacks have fully retracted. If so, your coach leveling system is ready to travel.

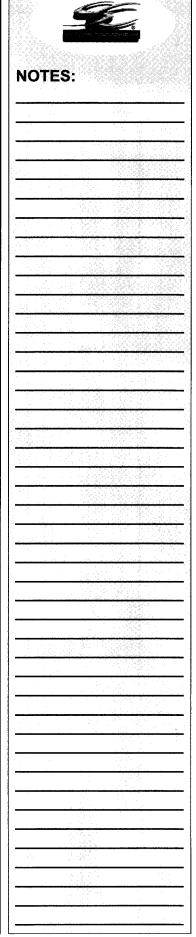


MANUALLY OPERATING YOUR LEVELING JACKS

There are certain conditions where manually leveling your coach may be desirable. Conditions where large amounts of side to side leveling are necessary may work better using the manual leveling procedures that follows.

- 1. Turn on the ignition and start the coach.
- 2. Push the "On/Off" button to turn on the system.
- 3. Push and hold the "MAN" button for 5-7 seconds in order for the system to switch to the manual mode. It will signal that it is in the manual mode when the light under the "MAN" button is illuminated.
- 4. Push "FRONT" button until the front of the coach rises at least 3". This is important and necessary to allow the coach to pivot when leveling side to side. If there is insufficient jack stroke to lift the front of the coach at least 3 inches the coach will have to be moved to an area with less front to back slope, or a weight distribution block will have to be placed under the jack.
- 5. Push the "REAR" button until jacks contact the ground.
- 6. Level the coach from front to rear by pushing the "REAR" button if the light under the "REAR" button is illuminated. If the light is illuminated above the "FRONT JACKS" button, push the "FRONT" button. In either case, keep button depressed until the green center "LEVEL" light is illuminated, or both front and rear lights are dark.
- 7. Level the coach from side to side by pushing the "RIGHT" button if the light beside the "RIGHT" button is illuminated. If the light beside the "LEFT" button is illuminated, ed, push the "LEFT" button until the "LEVEL" light is illuminated.

NOTE: The right and left rear jacks are used to level the coach side to side. Pushing the "LEFT" button on the control panel will extend the left rear jack. Pushing the "RIGHT" button on the control panel will extend the right rear jack. There is no individual control of the right or left front jacks on 4 jack systems. The automatic pressure equalization built into the system automatically shifts the front jacks.





WARNING!!

Care must be taken during the next step to prevent bodily injury or death. The next step will allow fluid to transfer from the leas to the reservoir. This procedure will allow the coach to descend. Keep all personnel and equipment clear of the coach. Make sure no one is under the coach prior to this procedure. Do not have any body parts or equipment positioned such that the coach will descend on it.

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- 8. Repeat steps 6 and 7 if needed.
- 9. Turn power off to leveling system by pushing "ON/OFF" button.
- 10. Visually inspect jacks to ensure all pads are touching ground. Should one of the rear jacks not be touching the ground, press the corresponding left or right rear jack buttons to lower the appropriate jack to the ground. Never lift the wheels off the ground to level the coach. This can lead to an unsafe condition and damage to the leveling system or coach.

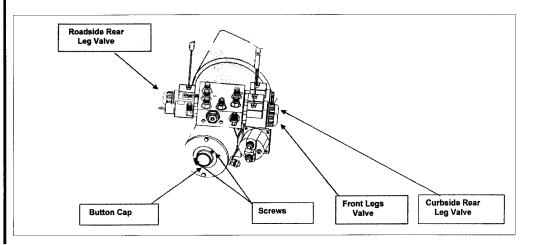
NOTE: If the "Wait" LED is ever flashing by itself, it means the control is busy and you cannot operate the jacks. After a short period of time (from 5 to 30 seconds), the "Wait" LED will go off again, and you can resume operation as normal.

MANUAL OVERRIDE VALVES

In case of a loss of power at the pump assembly, the manual override valves (MOV's) can be used to retract the leveling jacks. Not all Power Gear leveling system pumps have manual override valves. Power units for double acting systems that have manual override valves have flexible rubber caps on the valves and a hex override nut under the button cap on the electric motor.

To use the MOV's:

- 1. Remove the button cap from the end of the electric motor. First remove the two inner most Phillips head screws from the top of the motor. The button cap can now be removed from the electric motor. You should now see a 7/16" over ride nut on the end of the electric motor shaft.
- 2. After verifying all personnel and tools are clear of the coach, press the rubber cap on the valve for the front legs valve. The front end of the coach will start to descend. Only allow the coach to descend for 2 inches.
- 3. Push and hold the rubber cap on the Roadside Rear valve. Allow the coach to descend for 2 inches.
- 4. Push and hold the rubber cap on the Curbside Rear valve. Allow the coach to descend for 2 inches.
- 5. Repeat procedures 2-4 until the weight of the coach is transferred off the jacks and onto the suspension and tires.
- This procedure will retract the front legs. Using a 7/16 socket attached to a drill, spin the override nut clockwise while holding the button on the front legs valve. Stop when the legs are fully retracted.
- 7. This procedure will retract the roadside rear leg. After the front legs are retraced, press the button on the roadside rear leg valve and spin the override nut clockwise. Stop when the leg is fully retracted.
- 8. This procedure will retract the curbside rear leg. After the front legs are retracted, press the button on the curbside rear leg valve and spin the override nut clockwise. Stop when the leg is fully retracted.
- Replace the button cap on the electric motor and securely tighten the Phillips head screws.





WARNING!! Your coach should be supported at both front and rear axles with jack stands before working underneath, failure to do so may result in personal injury or death.

- 1. Check and/or fill the reservoir with the jacks and room(s) in the fully retracted position, each month. The fluid should be fl" onto the dipstick (on models so equipped) or to the bottom of the fill port on models without dipsticks. 2. Change fluid every 24 months.
- 3. Inspect and clean all hydraulic pump electrical connections every 12 months.
- 4. Remove dirt and road debris from jacks as needed.
- 5. If jacks are down for extended periods, it is recommended to spray exposed leveling jack chrome rods with a silicone lubricant every 5 to 7 days for protection.
- 6. If your coach is located in a salty environment (within 60 miles of coastal areas), it is recommended to spray the rods every 2 to 3 days with a silicone lubricant.
- 7. Grease the fitting on the bottom of each jack cylinder with Lithium grease every 20-30

RECOMMENDED HYDRAULIC FLUIDS FOR YOUR HYDRAULIC PUMP

The fluids listed here are acceptable to use in your pump assembly. Contact coach manufacturer or selling dealer for information about what specific fluid was installed in your system.

It is not recommended that hydraulic fluid and automatic transmission fluids be mixed in

In most applications, Type A automatic transmission fluid (ATF, Dexron III, etc.,) will work satisfactorily. Mercon V is also recommended as an alternative fluid for Power Gear

operating in cold temperatures (less than 10? F) the jacks may extend and retract





AIR QUALITY

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 reduc-

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 ceiling its' insulation properties. ings 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 uamage to jumiliure. If any of these situations instead above should occur, he 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 pre vent condensation, which can cause mold or mildew. Prevention can be a schedule event, on your time frame; an unexpected repair is not only inconvenient, but can b event, on your time frame, an unexpected repair is not only inconvenions, but our convenions, put our convenions, our your time frame, an unexpected repair is not only inconvenions, put our convenions, put our convenience, CURE.

- QUICK ACTION- If leaks or spills occur indoors, clean them up quickly. In most car CONTROLLING CONDENSATION mold and mildew do not grow if the area is dried within 24-48 hours.
 - REPAIR- Regularly clean and repair any items installed on the roof. Check for de or blockages in the vents. (If roof vents are properly maintained and sealed, yet still have water dripping from the vents, it could be condensation.) Be sure all s
 - LOWER THE HUMIDITY INSIDE YOUR TRAILER- Keep indoor humidity belo percent relative humidity (ideally between 30-50 percent). Relative humidity ca measured with a humidity meter, available at most hardware stores. The meter inexpensive way to avoid the far more costly repairs of water damage.

Note: Even if it is raining or snowing, opening a vent for more air circulation decrease moisture. Ventilated air from outside is drier than interior air.

REDUCING MOISTURE

This guide outlines important recommendations to manage moisture in your new RV to avoid moisture-related damage, such as mold, which is caused by moisture. The materials and methods used to construct your RV were selected in part to minimize air leakage and to create a weather tight exterior shell. However, in order to protect your investment and reduce the risk of moisture-related damage and costly repairs, attention and care has to be taken to manage moisture inside your RV.

This easy-to-read moisture management guide covers:

- 1.0 Interior Care of Your RV
- 2.0 Exterior Care of Your RV
- 3.0 Use of Your RV
- 4.0 Severe Environments
- 5.0 Storage of Your RV
- 6.0 Modifications of Your RV
- 7.0 Wet Areas
- 8.0 Additional Resources

These suggestions are intended to minimize moisture-related issues with your RV. To maintain the value of your investment, please read and follow your owner's manual and the suggestions provided below. Contact your manufacturer if you have any questions.

1.0 Interior Care of Your RV

Signs of excessive moisture can be obvious, such as water droplets forming on surfaces or wet carpet. Conversely, signs of excess moisture can be subtle, such as condensation forming on metal surfaces. When symptoms appear it is important to timely determine the cause of the excess moisture and take appropriate corrective action to prevent moisture related damage.

1.1 Control Relative Humidity

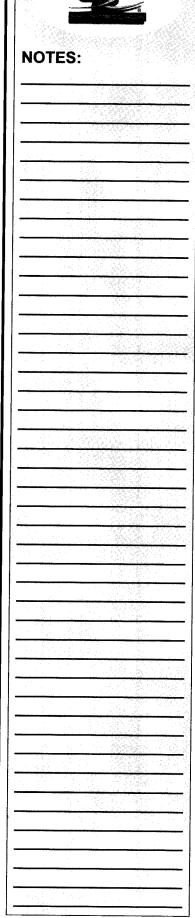
Monitoring and controlling relative humidity within the RV is one of the most important steps to minimize the risk for moisture-related damage. Ideally, relative humidity should be at 60% or less. Relative humidity can be monitored utilizing a portable hygrometer, a small device that measures temperature and relative humidity. Hygrometers are available at electronics or building supply stores for approximately thirty dollars (\$30).

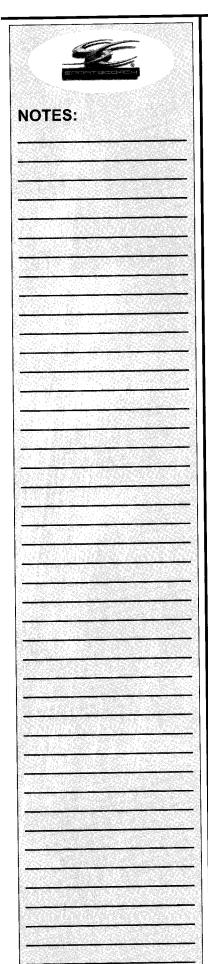
Use exhaust fans, the air conditioner, and /or a portable de-humidifier to manage moisture inside the RV to maintain relative humidity at 60% or less. In cold climates, relative humidity may need to be at 35% or less to avoid window condensation issues.

If the RV is used the majority of the time in a hot-humid climate, it may be difficult to keep relative humidity below 60%. A de-humidifier will help, but it is important to check the condensation (water) collection bucket regularly or discharge the condensation (water) directly to a drain.

1.2 Avoid Drastic Thermostat Setbacks

Cooler surface temperatures increase the potential for condensation and surface mold growth. To minimize the opportunity for condensation to form on interior surfaces, maintain a comfortable temperature in your RV, and avoid nighttime setbacks of 10 degrees or more. Drastic setbacks that reduce the indoor air temperature quickly can increase the chance for airborne moisture to condense on cool surfaces such as windows. If you are away from your RV for an extended number of days, we recommend that you do not set the temperature back without taking other measures to manage relative humidity, including operating a de-humidifier with a continuous drain.





1.3 Manage Window Condensation

Window condensation issues can be identified by water or ice-build up, usually at the base of the window. The majority of these problems can be addressed by managing moisture generated inside the RV. Minor condensation issues are not unusual, especially for RV's used in colder climates. The key is to manage this small amount of moisture if evident by wiping the surface, and as discussed in 1.1 above, maintaining a reasonable relative humidity within the unit.

To help minimize window condensation, use exhaust fans vented to the outside, avoid drastic changes in thermostat settings, do not use 'vent-free' heaters and use window coverings wisely. For example, make sure to open curtains or blinds during the day to allow air to circulate and warm the window surface.

1.4 Carpet Care and Moisture Management

To keep your carpet serviceable and looking new for years to come, the carpet should be cleaned when it shows signs of discoloration or traffic patterns. A steam cleaning system should be used to clean the carpet unless otherwise noted in your owner's manual or warranty information. To manage moisture from the cleaning process, the cleaning system needs to be capable of extracting the excess water from the carpet after it has been cleaned. Important: Be sure the carpet is thoroughly dry before closing up the RV for storage. Water from the cleaning process can cause significant damage to the RV if the carpet is not completely dry before closing up the RV for an extended period.

1.5 Cleaning Tile and Wood Floors

Please refer to your owner's manual or warranty information for cleaning instructions for the tile or wood floor installed in your RV. Most floors only require a mild detergent and warm water for cleaning. More water on the floor is not always better for cleaning. Use a damp cloth to clean on a regular basis rather than wet mopping each time.

1.6 Storage & Other Isolated Areas within the RV

Storage areas are more difficult to condition since the areas are isolated from the main body of the RV. The surfaces of these areas are more at risk for condensation and surface mold growth. To minimize this risk, clean storage areas regularly, and allow an air space between stored items and the exterior wall to promote air circulation.

1.7 Use of Un-vented Combustion Equipment

Un-vented combustion equipment, such as propane stove tops are a source of moisture within the RV. For every gallon of fuel consumed, approximately one gallon of water vapor is evaporated into the air. Whenever possible, operate an exhaust fan in combination with the use of any un-vented combustion appliance within the RV. Water vapor and other combustion byproducts should be vented to the exterior of the RV. The RV owner should strictly follow use and maintenance instructions for safe operation of any combustion equipment, particularly un-vented equipment.

2.0 Exterior Care of Your RV

The exterior shell of the RV is the primary weather and moisture barrier. Over the life of the vehicle, the shell will require regular care and maintenance in accordance with the owner's manual. The shell includes the roof, sidewalls, windows, doors, and under-floor of the vehicle. Particular attention needs to be devoted to ensure these components are maintained to ensure a tight barrier against bulk water intrusion.

The shell should be inspected periodically for tears, gaps, and condition of sealants in accordance with your owner's manual. Areas that require maintenance should be re-sealed utilizing a similar, high quality sealant used by the manufacturer.

Particular attention should be devoted to ensure the slide out(s) are functioning properly. Each time a slide out is used it should be inspected to ensure proper operation and sealing. The slide out gaskets should also be inspected to ensure proper sealing when the slide out-is operated.

3.0 Use of Your RV

It is important to remember that the square footage of an RV is significantly less than that of a single family residence. This fact alone will elevate the relative humidity because there is less volume of air to help absorb or dissipate the humidity. For example, showering and cooking create a lot of humidity in a small area. In these instances, use of an exhaust fan and opening windows should reduce the relative humidity, particularly when living in the RV for an extended period.

4.0 Severe Environments

Prolonged use of your RV in severe environments - for example in extremely cold or hot-humid climates, will require extra care and maintenance to avoid moisture-related issues.

In both extremely cold and hot-humid climates, more attention needs to be-focused on controlling relative humidity within the RV. It also may require the use of a portable de-humidifier to manage relative humidity within an acceptable range. This is discussed further in section 1.0.

If you have any questions about moisture-related issues in the environment you plan to use the RV in for a majority of the time, contact your manufacturer's representative.

5.0 Storage of Your RV

During those periods when your RV is not in use, care must be taken to ensure moisture sources are addressed. Ideal storage of your RV would be in an enclosed climate controlled environment. When this is not possible, the following steps should be taken to ensure moisture is controlled:

- a. Turn off all water sources;
- b. Turn off all combustion appliances;
- c. Drain the water tank(s);
- d. Drain the water heater;
- e. Open all closets, cabinet doors and drawers;
- f. Close all windows and entrance doors;
- g. Open a vent or a window enough to allow for some limited ventilation air flow, but not so far as to allow snow or rain to enter;
- h. When storing the RV in high humidity climates (ambient relative humidity is greater than 60% year round), add a dehumidifier drained to exterior to control humidity inside the RV during storage; and
- i. Check your owner's manual for any additional recommendations.

6.0 Modifications to your RV

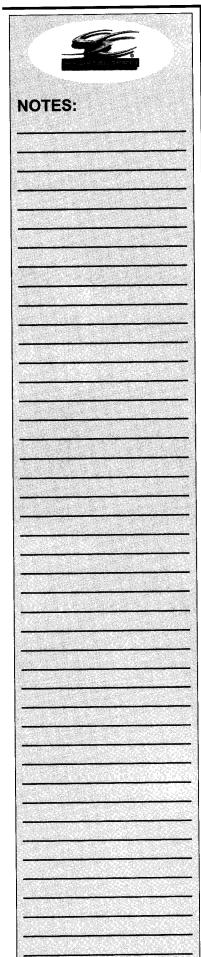
Consult your manufacturer for guidance prior to making any modifications to your RV. It is important that changes be completed by a qualified service firm to ensure moisture intrusion or accumulation problems do not occur.

7.0 Wet Areas

Areas that are exposed to water spills or leaks should be dried as soon as possible and definitely within 24-48 hours. Drying areas quickly minimizes the chance for moisture damage and possible mold growth, which can begin to form colonies in 48 hours. A variety of methods can be used to help the drying process:

- Remove excess water with an extraction vacuum
- · Use a dehumidifier to aid drying
- · Use portable fans to move air across the surface
- Because moisture is key to mold issues, treat all signs of condensation and spills seriously and deal with promptly. Failure to deal with a moisture issue promptly may cause more severe issues where none initially existed, or may make a small problem much worse.
- Learn to recognize signs of mold don't paint over or cover up suspicious discoloration until you are sure it is not mold. The affected surface must first be cleaned and dried; residual staining may be painted;

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 Be sure to understand and eliminate the source of moisture accumulation as a part of the clean-up. Otherwise, the same issues will simply reoccur; and

 Small amounts of mold should be cleaned as soon as it appears. Small areas of mold should be cleaned using a detergent/soapy solution or an appropriate household cleaner. Gloves should be worn during cleaning. The cleaned area should then be thoroughly dried. Dispose of any sponges or rags used to clean mold.

8.0 Additional Resources

If you are interested in more information on moisture management, here are some resources to review:

A Brief Guide to Mold, Moisture, and Your Home, by the U.S. Environmental Protection Agency, Office of Air and Radiation Indoor Environments Division (6609 J) 1200 Pennsylvania Ave., NW, Washington, DC 20460 EPA Publication #402-K-02-003

 Moisture Problems in Manufactured Homes: Understanding Their Causes and Finding Solutions, by the Manufactured Housing Research Alliance, 2109 Broadway, Suite 200, New York, NY 10023. (212) 496-0900

 Mold in Residential Buildings, by the National Homebuilder's Association Toolbase Technote July 2001 c/o NAHB Research Center, 400 Prince George's Blvd, Upper Marlboro, MD 20774. 301-249-4000

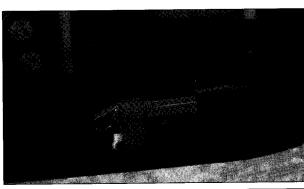
 Mold Remediation in Schools and Commercial Buildings, by the U.S. Environmental Protection Agency, Office of Air and Radiation Indoor Environments Division (6609J) 1200 Pennsylvania Ave., NW, Washington, DC 20460 EPA Publication #402-K-01-001

AIR QUALITY

State-of-the-Art construction and energy conservation methods have been used in manufacturing your Georgie Boy RV. These improvements have substantially reduced air infiltration and air exchange, making them almost airtight. Therefore, regular airing of your unit is recommended, especially during periods of high temperature, high humidity, or after prolonged storage.

SAFETY FEATURES

EMERGENCY EXIT WINDOWS



BEDROOM EXIT WINDOW

LIVING AREA EXIT WINDOW



GENERAL OPERATION 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

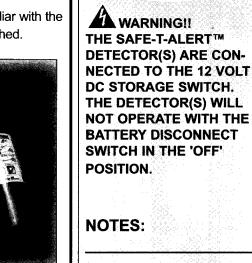
Your LP Gas Leak Detector, located in the front living area of your unit, will always be in the 'ON' position when the unit is plugged in, the battery disconnect is 'ON' and the vehicle is being used. The system should be turned 'OFF' when the vehicle is in storage or will be unused for several days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

A CAUTION!!

THE LEAK DETECTOR MUST 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.





WARNING!!
THE SAFE-T-ALERT™
DETECTOR® 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
MUST BE ON ANYTIME
THE COACH IS IN USE.

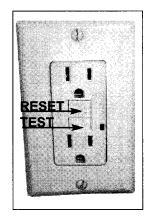
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120-VOLT SYSTEM

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 coach's' 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.

A

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. <u>DO NOT</u> 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

Battery Disconnect Starter (engine) **Head Lights** Tail Lights Stop Lights Turn Signals Parking Lights Back-up Lights Clearance Lights License Plate Light Dash Lights Map Lights Horn Windshield Wipers Back-Up Monitor **Heater Fans**

Defrost Fans

Heated Mirrors

Power Seats

Power Sun Visor

Leveling System

12 VOLT BATTERY AND/OR POWER CENTER

Battery Disconnect Generator Starter Motor All Interior Lighting Porch Light Trunk Lights Power Step Water Pump Monitor Panel Power Roof Vent Television Antenna Water Heater (Elec. Ignition/HTR) Furnace (Elec. Ignition) Grab Handle (Lighted) Refrigerator Controls Inverter Radio **Power Awning**

110 VOLT ELECTRICAL

Power Center
All Receptacles
Refrigerator Cool Sys.
Air Conditioner(s)
Microwave
Washer/Dryer
VCR/DVD
Television(s)
Fire Place
Engine Block Heater
Central Vac
Water Heater
Converter (charger)
Satellite Rec.



WARNING!! **EXHAUST GAS PRES-**ENTS 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 GEN-**ERATOR WHERE AN OBJECT SUCH AS A** TREE, BUSH OR BUILD-ING CAN DEFLECT **EXHAUST TO THE INSIDE** OF YOUR UNIT.

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CONVERTER

The power converter, located in an exterior compartment, transforms 120-volt AC into 12-volt 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

Entry Step Cover Satellite Dish



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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dealer. See the power converter manufacturer's manual for specifications, operation and testing procedures.

INVERTER

Your vehicle may be equipped with an 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.

12 VOLT FUSE PANEL

The 12 volt fuse panel contains blade type fuses. When a fuse is 'blown' the red indicator light will be 'ON' and/or 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

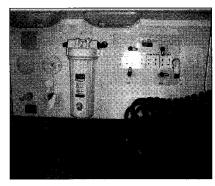
Fresh water is supplied either by the vehicles' fresh water tank, using the 12-volt demand pump, or by an exterior pressurized source (city water). The water heater is an LP gas and/or appliance that heats water to a preset temperature. To fill the water heater, simply turn on a hot water faucet. When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



WATER PANEL

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:

- 1. 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.)
- 2. 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 faucet's 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 faucet's 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

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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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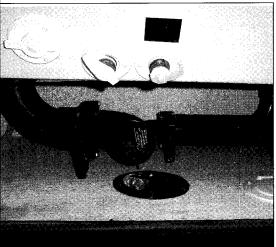
bowl, slowly release the pedal. To flush this type of toilet, step on the large pedal until the water swirls and then slowly release the pedal. When you clean your toilet, do not use highly concentrated or highly acidic household cleaners (no scouring powder). If the pedal does not move freely, apply 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 biodegradable toilet tissue available from your Sportscoach 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.

WATER FILTER

Your coach may have a Hydro Life water filter installed with your water system. If so this water filter removes up to 99 percent of chlorine plus many other contaminant's from your water. When using an exterior filter, your shower water will keep your skin and hair softer without irritation. Replace filter annually to maintain highest water quality, however, if flow is reduced because of sediment, or an undesirable taste or odor appears, replace filter immediately with Hydro Life cartridge Model C 2063, C 2471, C 2064. To winterize, remove cartridge from housing, reconnect empty housing and winterize. After winterizing, clean housing and reinsert cartridge. Do not allow winterizing fluid to pass through the cartridge. If your RV or Watercraft is not regularly used, open a faucet and allow water to flow for a minute, to flush the system. To help maintain a quality water supply, it is recommended the fresh water tank be chlorinated regularly. Do not allow filter to freeze.

HYDRO LIFE FILTERS→



CARBON FILTERS ->



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 LIV-ING AREA OF A VEHICLE. LP GAS CONTAINERS ARE EQUIPPED WITH SAFETY DEVICES THAT RELIEVE EXCESS PRESSURE BY DISCHARGING GAS TO THE ATMOSPHERE.



WARNING!!

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!!

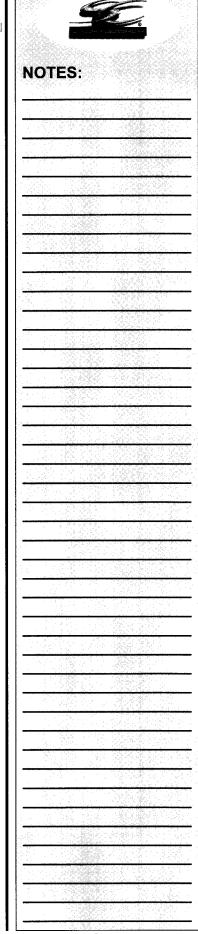
LP GAS BURNS READILY AND WITH INTENSE HEAT. WITH PROPER CARE AND MAINTENANCE, IT IS SAFE AND EFFICIENT. THERE ARE, HOWEVER, CERTAIN CHARACTERISTICS ABOUT LP GAS YOU SHOULD KNOW. LP GAS SETTLES INTO ANY CLOSED AREA, IT DISPLACES AIR AND COULD CAUSE SUFFOCA-TION IF NOT DETECTED. IT ALSO COULD CREATE A FIRE OR EXPLOSION HAZ-ARD. 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 LP LEAK DETECTOR WHICH WILL PROVIDE AN AUDIBLE WARNING IF A PROPANE LEAK IS DETECTED. NEVER DISABLE OR BYPASS THIS CRITICAL SAFETY DEVICE.



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.





WARNING!!

DO NOT FILL CONTAIN-**ERS) TO MORE THAN 80%** OF CAPACITY. OVER-FILL-ING THE LP GAS CON-TAINER CAN RESULT IN AN UNCONTROLLED GAS **FLOW** WHICH CAN CAUSE FIRE OR EXPLO-SION. A **PROPERLY FILLED CONTAINER WILL** CONTAIN APPROXIMATE-LY 80% OF ITS VOLUME AS LIQUID LP GAS. IF THE TANK IS OVER-FILLED, HAVE THE LP GAS DEAL-ER 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 CER-TAIN ALL BURNER AND PILOT FLAMES ARE OUT AND SERVICE VALVE IS CLOSED WHEN FILLING YOUR VEHICLE'S LP GAS OR FUEL TANKS.

NOTE	ES:		

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 ignites 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 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:

- 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!!

DO NOT MODIFY YOUR LP GAS SYSTEM. DO NOT 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.

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WARNING!! DO NOT MODIFY YOUR LP GAS SYSTEM. DO NOT **REMOVE COMPONENTS** OR REPLACE WITH COM-**PONENTS THAT ARE NOT** OF EQUAL VALUE. **FAILURE TO FOLLOW** THIS WARNING WILL **VOID ANY VEHICLE WAR-**RANTY, FAILURE TO FOL-LOW THIS WARNING CAN RESULT IN EXPLOSION OR FIRE WHICH MAY **CAUSE INJURY OR** DEATH.

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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.

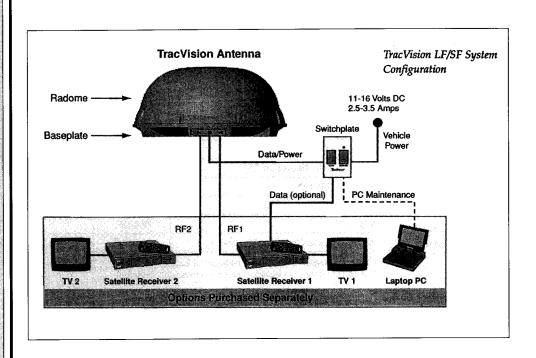
Important: Read thoroughly your electric step Owners' Manual for complete operation, maintenance and lubrication instructions.

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.

DIGITAL SATELLITE TELEVISION

Your unit can be equipped with a KVH TracVision satellite television system. TrackVision SF is designed for stationary use only, TracVision LF works while your vehicle is at rest and in motion. 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.



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:

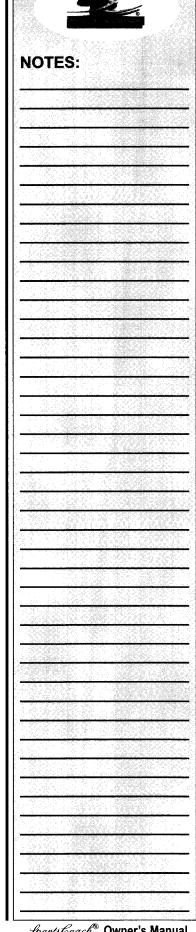
- 1. Select "TV Ant" for the "Main TV". The TV must be set for "antenna" and use the "auto-program" feature to add channels, using the TV set-up procedure. Use the TV remote to check TV stations, from the roof antenna.
- Select "VCR" for the "Main TV". The TV must be set for "antenna", using the TV setup 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 setup 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.
- Select "DVD" for the "Main TV". Change the TV/VIDEO function to AV1 (Audio/Video

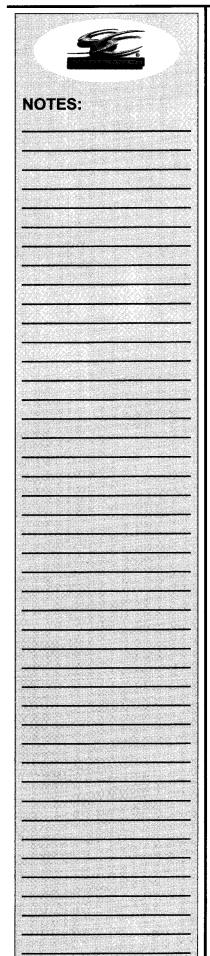
 Use the DVD remote to change channels, run the DVD disk, or control the surround sound features.
 R

Select "DVD" for the "Main TV". The TV must be set for "antenna", using the TV setup 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:

- 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.

EXTERIOR TV "EXTERIOR TV" OPERATION:

- 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 "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.
- 3. 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.

SECTION 2

VIDEO SWITCH CONTROL (AVS20O SMART SOURCE) FOR SPORTSCOACH ELITE ONLY SET UP:

- 5. Turn "ON" the Smart Source box?
- 6. Turn the antenna booster switch to "Antenna Booster". Raise TV antenna,
- 7. Turn "ON" the front TV, set clock, and auto-program stations.
- 8. Turn "ON" the VCR, set clock, and auto-program stations.
- 9. Turn "ON" the rear TV, and auto-program stations.
- 10. 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.
- 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.
- 3. 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.

 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:

- 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.
- 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.
- 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:

- 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.
- 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.
- 3. 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.

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.

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.

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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 COMBUS-TION. BEFORE LIGHTING **FURNACE, BE SURE THE** LP GAS TANK SERVICE VALVE IS OPEN. TURN SWITCH ON THERMO-STAT TO HEAT AND ADJUST THERMOSTAT TO THE DESIRED TEM-PERATURE.

CAUTION!! IF THE FURNACE DOES **NOT LIGHT AFTER SEV-ERAL ATTEMPTS, WHILE ALLOWING EACH TIME** FOR ANY DELAY PAUSE, TURN THE THERMOSTAT TO THE OFF POSITION AND CONTACT YOUR **AUTHORIZED COACH-**MEN DEALER OR SER-VICE 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 GENERA-TOR, TURN THE THER-MOSTAT OFF. THIS WILL PRESERVE THE LIFE OF YOUR FURNACE'S ELEC-TRICAL SYSTEM. CARE-**FULLY READ THE FUR-**NACE MANUFACTURERS' **OPERATING MANUAL** FOR OTHER IMPORTANT **SERVICE AND OPERA-**TION INFORMATION.

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.

4 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.**

A 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 FUR-NACE 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

Preventive 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 VENT-ED TO THE OUTSIDE OF THE VEHICLE. WHEN PARKED CLOSE TO A GASO-LINE PUMP. IT IS POSSIBLE THAT THE GASOLINE FUMES COULD ENTER THIS TYPE OF APPLIANCE AND IGNITE FROM THE BURNER FLAME, CAUS-ING 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 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.



WARNING!! MOST LP GAS APPLI-ANCES USED IN RECRE-ATIONAL VEHICLES ARE **VENTED TO THE OUT-**SIDE OF THE VEHICLE. WHEN PARKED CLOSE TO A GASOLINE PUMP, IT IS POSSIBLE THAT THE **GASOLINE FUMES COULD ENTER** THIS TYPE OF APPLI-ANCE 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.

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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 FLAMMA-BLE. TO REDUCE THE RISK OF INJURY UNDER** THESE CONDITIONS, IT IS RECOMMENDED THAT THE HOT WATER FAUCET BE OPENED FOR SEVER-AL MINUTES AT THE KITCHEN SINK BEFORE **USING ANY ELECTRICAL** APPLIANCE, IF HYDRO-**GEN IS PRESENT, THERE** SHOULD BE AN UNUSU-AL SOUND SUCH AS AIR **ESCAPING THROUGH** THE PIPE AS THE WATER **BEGINS TO FLOW. THERE** SHOULD BE NO SMOK-ING 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 MANU-FACTURER'S WARRANTY** IF YOU ARE NOT CER-TAIN OF WHAT ACTION YOU SHOULD TAKE.

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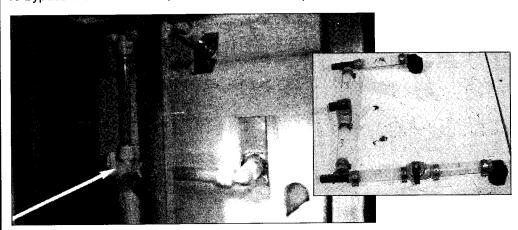
WATER HEATER

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 faucet's. 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.

MARNING!!

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.

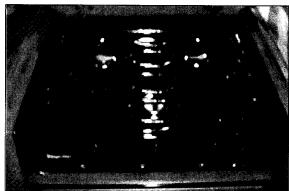
CARE OF WATER HEATER

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.

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 water. 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.



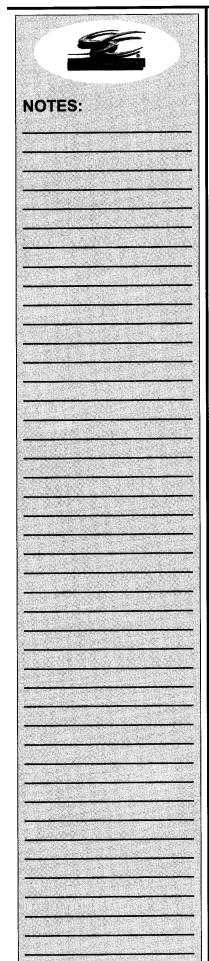
TO AVOID THE RISK OF UNBURNED LP GAS ACCUMULATING IN THE VEHICLE, <u>BE SURE</u> ALL APPROPRIATE KNOBS ARE TURNED TO THE "OFF" POSITION WHEN NOT IN USE.



WARNING!!
IT IS NOT SAFE TO
USE COOKING APPLIANCES FOR COMFORT
HEATING. COOKING
APPLIANCES NEED
FRESH AIR FOR SAFE
OPERATION.

WARNING!!
TO AVOID THE RISK OF
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ACCUMULATING IN THE
VEHICLE, <u>BE SURE</u> ALL
APPROPRIATE KNOBS
ARE TURNED TO THE
"OFF" POSITION WHEN
NOT IN USE.

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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 lightbulbs on the front of the fireplace. Also check the two light bulbs at the top of your firebox.)

В.

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.

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 it's operation.

BATTERY CONDITION LEVELS

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

- C Converter, 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

MOTORHOME STORAGE

Follow these procedures if you will not be using your motorhome for an extended period of time.

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, (Stabil 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.



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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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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 faucet's until anti-freeze appears, then turn faucet's 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 1/2 gallon of RV anti-freeze into the toilet and drain into the tank.

A

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.

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.

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 silicon 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 under-coating.

BUMPER AND FRAMES

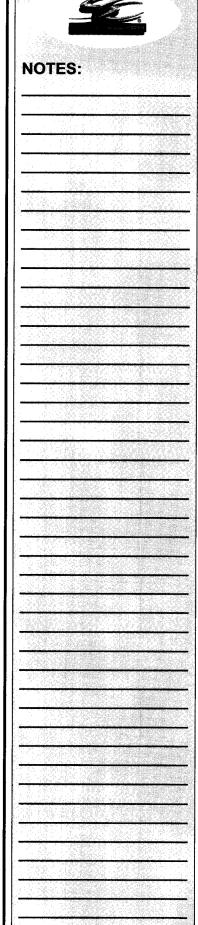
Painted bumpers and frames, or any exposed painted surface, should be inspected for damage and rust every year. Rust should be removed and the area painted with rust preventive paint annually.

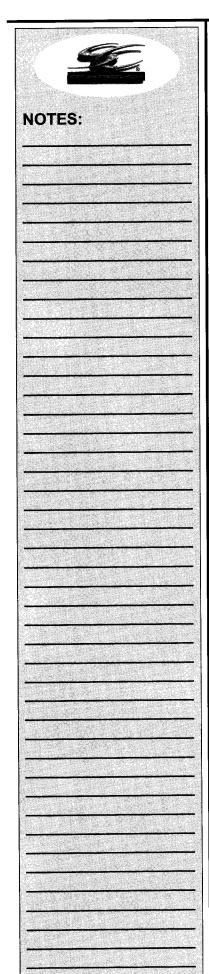
ELECTRICAL SYSTEM

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 clean ability code. Because dyes or backings on some upholstery fabrics will be affected by water or solvents, the clean ability 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 Carbon™. Dampen a clean cloth with the solvent and follow the same procedure described under W.

WS

Either of the above methods may be used.

Х

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.
- 2. Test fabric for discoloration on an inconspicuous place using a foam cleaner such as Fibre Fresh Concentrate™ or Glamorene™.
- 3. If no discoloration appears, use cleaner on entire item. Note: Many velvet fabric 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.

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 milt 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.

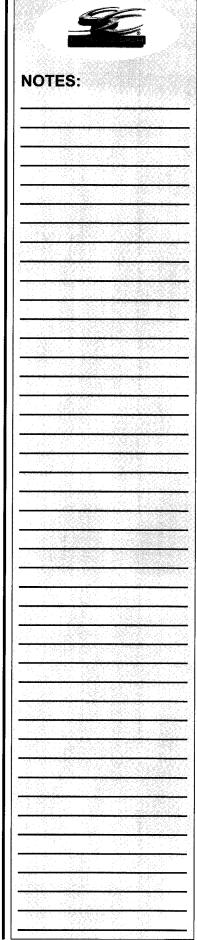
LUG NUTS

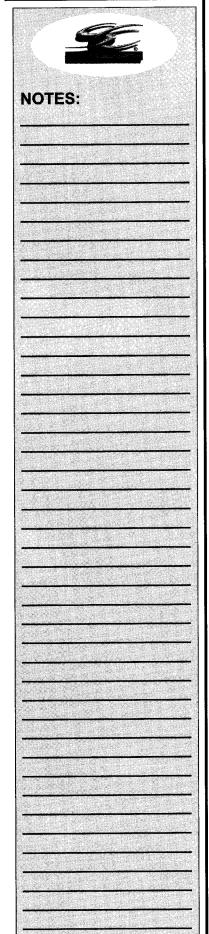
Check every 50 miles for the first 200 miles or whenever a wheel has been reinstalled. If lug nuts continue to loosen, they should be replaced. Be certain to use the proper torque (450 to 500 ft./lbs.). For more information carefully read and follow the instructions in the Chassis Owner's Manual.

ROOF, RUBBER

- 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 water.
- 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 Protestant® available at most RV parts stores.

NOTE: Do not put petroleum based products directly on rubber roof material, or use in large areas.





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 soap. Avoid using alkaline or abrasive cleaners.
- 2. Wax once or twice a year with a high quality paste wax formulated for gel coat 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 gel coat 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 methane 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 resistant 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.

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.

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

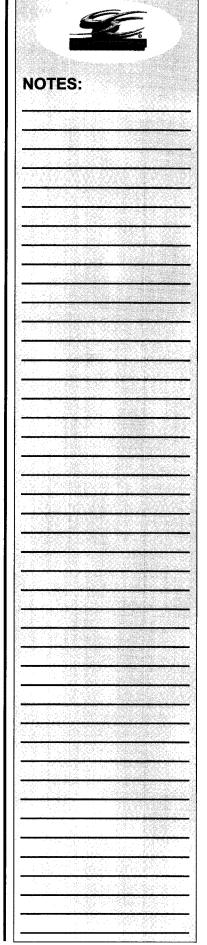
Inspect for damage or leaks prior to each trip. Replace any damaged or worn parts. Fix or replace any leaking parts. Lubricate moving parts and rubber seals with silicon lubricant. Clean dirt and debris from window tracks.

WOOD CABINETRY

Clean several times a year to protect the wood, using any good non-silicon 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.

APPLIANCE IDENTIFICATION FORM

Should one of the appliances (on the following page) 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 requirements. 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.



APPLIANCE IDENTIFICATION FORM

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 Oven				
Motorhome Body				
Motorhome Chassis				
Radio				
Range/Oven				
Refrigerator				
Roof Air Conditioner(s)				
Satellite Dish				
Satellite Radio				
Toilet				
TV(s)				
и				
TV Antenna				
Washer/Dryer Combo				
Water Heater				

MAINTENANCE RECORD

DATE	MILEAGE	SERVICE SHOP NAME & ADDRESS	DESCRIPTION OF SERVICE
· · · · · · · · · · · · · · · · · · ·			
			4.0
		· ·	

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	
ļ.						Air Quality, Condensation, Maintenance, this manual
<u>.</u>						Appliances, this manual; Appliance Manufacturer's instructions
					•	Maintenance, this manual
•						Chassis Manufacturer's manual
•		•				Maintenance, this manual
•	•					Maintenance, this manual;
				•	•	Maintenance, this manual; Brake & Suspension Manufacturer's manual
				•		Maintenance, this manual
	-				•	Maintenance, this manual
•						Maintenance, this manual
			•			Maintenance, this manual
·				-		Maintenance, this manual
	<u> </u>	<u> </u>			•	Care of Fabrics, this manual
·	-	<u> </u>				Maintenance, this manual
		<u> </u>			•	Maintenance, this manual
 					•	Maintenance, this manual
 					•	Maintenance, this manual; Lock/Latch Manufacturer's manual
•	•					LP Gas; this manual; Appliance Manufacturer's instructions
•						Maintenance, Chassis manual
			•			Maintenance, this manual
					•	Maintenance, this manual
•						Maintenance, this manual
•					٠	Maintenance, this manual; Step Manufacturer's instructions
•					•	Pre-Travel Check, Maintenance, this manual; Tire Manufacturer's manual
	•					TV Antenna Manufacturer's instructions
					•	Maintenance, this manual; Vent Manufacturer's instructions
•		L				Maintenance, this manual
•					•	Maintenance, this manual; Water Heater Manufacturer's manual
•		,				Maintenance, this manual; Window Manufacturer's instructions
•		•				Maintenance, this manual
				• • • • • • • • • • • • • • • • • • •	FUERY FU	• • • • • • • • • • • • • • • • • • •

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



LIGHT BULBS

INTERIOR

SPORTSCOACH AND CROSS COUNTRY

CEILING LIGHT (TYPICAL) WALL/OVERHEAD LAMP

1141 OR 921

1076 OR 921

FLUORESCENT LIGHT

F15T8WW OR

AIRCRAFT STYLE LIGHT

F8T5WW 903

REFRIGERATOR, DOMETIC

GE1576

RANGE HOOD

30 WATT

APPLIANCE BULB

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

MICROWAVE OVEN

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

BULLET READING LIGHT

93

WARDROBE LIGHT

2112

EXTERIOR

CLEARANCE LIGHT

CE 194

COMPARTMENT LIGHT

GE168 OR 93

MIRROR SIGNAL LIGHT

CE194

DRIVING LIGHT, SPORTSCOACH LEGEND

Н3

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 T3156

TAIL LIGHTS, SPORTS COACH LEGEND

3157

STOP/TURN LIGHTS

3158

BACK-UP LIGHTS, SPORTSCOACH LEGEND

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

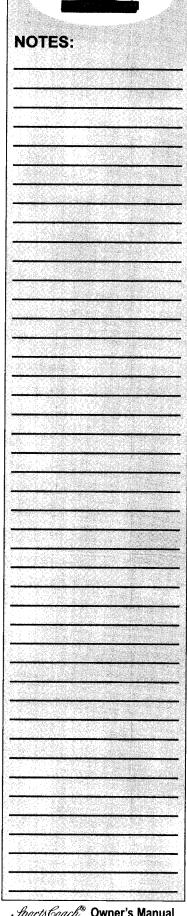
FRONT TURN & PARKING LIGHT, SPORTSCOACH LEGEND

3157A

FRONT TURN & PARKING LIGHT,

SPORTSCOACH ELITE & CROSS COUNTRY

1156





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 CHANG-ING TIRES.

<u>NEVER</u> GET UNDER-NEATH THE VEHICLE WHEN USING THE JACK.

NOT	ES:		
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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.

Under inflation is the leading cause of RV tire failures. The second most common cause is AGE! Tires do not last forever, even though they may look satisfactory. Statistics indicate that the average life of an RV tire is 5 to 7 years. Determine the age of tires by checking the DOT code on the sidewall. Find the string of numbers and letters that start with DOT and refer to the last three digits. The first 2 digits are the CALENDAR WEEK the tire was in the mold, while the final digit indicates the YEAR. Beginning in the year 2000, there are four digits: two for the calendar week and two for the year.

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 **DO NOT** 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.

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. <u>Failure to maintain proper torque on the lug nuts could result in the wheel(s) becoming loose during travel.</u>

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.

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

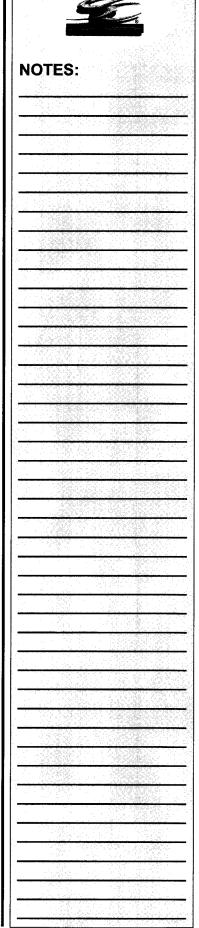
The automotive system of your vehicle should be serviced and maintained as outlined in the Chassis Owners' Manual.

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.



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NOTES:

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
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	Game/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.

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 be 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 form 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.	
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.	
	Bad Battery	Check battery condition	
Lights dim or half bright			

PROBLEM	POSSIBLE CAUSE	SOLUTION
FURNACE Does not light	May be out of LP gas	Check the LP gas supply.
	Low batter or bad battery	Refill water to correct level in battery; recharge battery and/or replace battery.
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		Turn the thermostat and the furnace gas control valve OFF. Contact your Sportscoach dealer or authorized Service Center. DO NOT ATTEMPT TO REPAIR OR ADJUST THE FURNACE
REFRIGERATOR	Coach is not level	Level coach
Refrigerator will not cool	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.
TV ANTENNA	Power jack not turned 'ON'	Turn navyar igal, quitab (ON)
TV has poor reception	Bad connection at TV or wall plate	Turn power jack switch 'ON' Make sure the connections are good
	Cut or nicked cable	at both TV and wall plate.
		Replace bad cable where needed at TV and antenna.
	Antenna not pointed in direction of 'sending station'	Turn antenna in direction of 'sending' station
OUTSIDE RECEPTACLE		
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.

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 not power	Fuse on the generator may have blown	Replace fuse with one of the same ampere rating	
	Breakers 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 at rear frame	
LP GAS			
Smell gas in and/or around unit	Possible gas leak in system	 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.	
		Open doors and other ventilating openings.	
		5. Leave the area until odor clears.	
		Have the gas system checked and leakage source corrected before using again.	

PROBLEM	POSSIBLE SOLUTION	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.
	Systems hooked up to city water fill	Disconnect hose from city water fill (DO NOT NEED TO USE PUMP).
Pump continues to operate whether the faucet's 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 faucet's shut OFF	Possible leak in plumbing system fill- ings or lines.	Fix any leaks in plumbing system. Check all fittings for tightness and replace any broken p arts.
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.

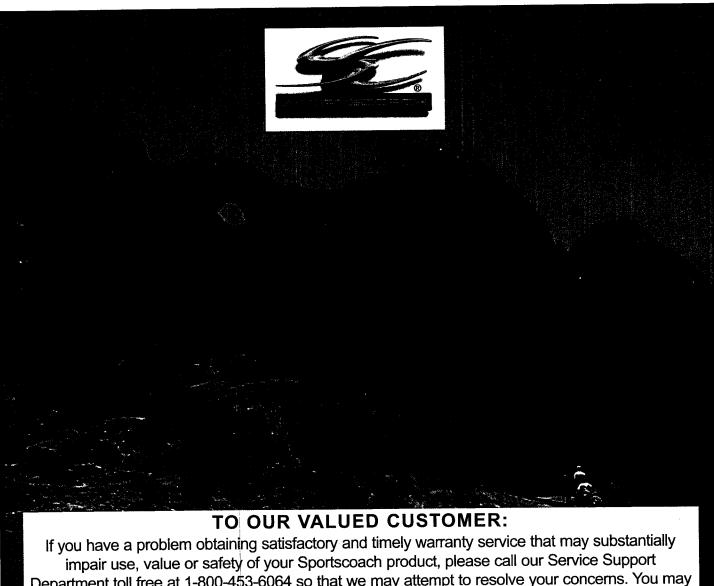
If NHTSA receives similar complaints, it may open an investigation, and if it finds that a safety defect exists in a group of vehicles, it may order a recall and remedy campaign. However, NHSTSA cannot become involved in individual problems between you, your dealer, or COACHMEN RECREATIONAL VEHICLE COMPANY,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

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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.

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PN: 1043447