



**COMMANDER AND
EMBASSY SERIES**

OWNER'S MANUAL

Experience the Difference

Triple E
Recreational Vehicles
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NOTE

Production improvement is a continuing process at Triple E Recreational Vehicles. Thus, we reserve the right to change specifications, operating instructions, standards and options on any and all products without prior notice. Errors and omissions excepted. The diagrams included were current at the time of printing.

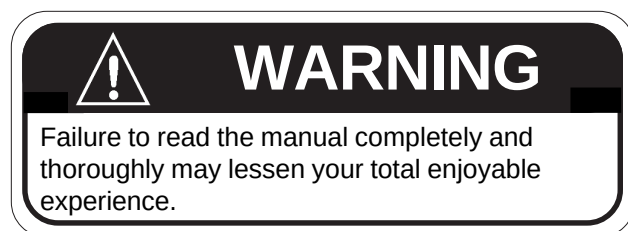
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FORWARD

A WORD TO MOTORHOME OWNERS

Welcome to the growing number of discerning people who own and operate a Triple E Motorhome.

Our company takes great pride in the quality and excellence that the Triple E name represents. We have sought to anticipate your needs and desires with respect to safety, convenience, styling, and engineering.



We appreciate having you as our customer and have provided this manual and various component manuals to introduce you to the many features of your new motorhome. Each person using the motorhome should take time to read this manual before operation. It will help you to better understand the many built-in operational features of this recreation vehicle. Talk to your dealer if you have any questions about your unit.

We hope you will enjoy your new motorhome, and we wish you pleasant and carefree driving.

IMPORTANT

This vehicle is equipped with the latest systems, appliances and operational equipment making it considerably more complicated than a normal automobile.

The use of three way systems; 120V, 12V and propane needs careful consideration as the availability of energy in both the 12V and propane systems has a limited capacity and volume. Due caution should be applied and in case of doubt, clarification from the authorized Triple E dealer or our factory service department should be obtained. **Do not modify the unit in any way. Unauthorized modification may impair the function or life of the vehicle and could lead to an accident.**

Modifications that are not approved by Triple E may void the warranty and transfer responsibility for the changes to the owner.

This manual is intended to be a guideline. This manual despite our best efforts should not be considered comprehensive in all details. We invite you to use this manual to help you learn the basics about your vehicle. The component operation instructions i.e. fridge, stove, etc. are included in the owner's information package.

INFORMATION AND SAFETY

The driver may need a special License to drive this Recreational Vehicle or tow a trailer behind it. Check with the local transportation authorities to find out the road and driving regulations in the area you intend to travel.

Throughout the manual, certain instructions, procedures and information is emphasized with the words IMPORTANT, CAUTION and WARNING. These key words denote the level of care that each operator should exercise on mechanical and safety items.

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1 INTRODUCTION

Congratulations on your choice of a Triple E built Motorhome for your travelling and touring comfort and enjoyment. It utilizes the latest design features and manufacturing techniques to insure safe, efficient and trouble-free operation at all times.

1.1 OPERATOR'S MANUALS

All owners/operators should read, understand and follow all instructions in this the motorhome manual, chassis manual and manuals for all auxiliary systems and appliances. A few minutes spent reading the appropriate manual will pay rich dividends in providing safe, efficient and trouble-free operation. Refer to the Ford or Workhorse Custom Chassis Operator's Manual for detailed information on the chassis. Refer to the appropriate manual supplied for auxiliary equipment and appliances as required.

This manual covers all the systems, controls and operation unique to this vehicle. Always keep the information package with the vehicle for easy reference. Pass the package on to new operators or owners as appropriate for their information as well. Use the Table of Contents or Index to find specific information.

If more information is required or you do not understand something, please contact:

Your Triple E dealer or
Triple E Recreational Vehicles
301 Roblin Blvd., Box 1230
Winkler, Manitoba Canada
R6W 4C4
Tel: (204) 325-4361
Fax: (204) 325-5241

1.2 INFORMATION PACKAGE

An information package is provided with each vehicle and includes information on specific systems, features and appliances including:

1. Chassis
2. Air Conditioning
3. Generator
4. Furnace
5. General Operation
6. Entertainment System
7. Leveling System
8. Water Heater
9. Safety
10. Flooring and Counter Tops
11. Rear View Monitor
12. Electric Step
13. Fridge
14. Alarm System
15. Plumbing Fixtures
16. Roof and Side Walls
17. Appliances
18. Converter
19. EMS (Energy Management System)

1.3 OPTIONS AND EQUIPMENT

The Commander and Embassy product lines are available in various sizes, models and floor plans. The equipment, accessories and components described in this manual may not necessarily apply to your vehicle. Refer to the material provided in the information package for the detailed instructions unique to your unit.

1.4 KEYS

It is a good idea to keep a record of all key code numbers and keep them in a safe place - not in your vehicle. Use the charts in this manual but make a duplicate copy to be stored elsewhere.

COMMANDER/EMBASSY

1.5 VEHICLE CERTIFICATION LABEL

This label contains vehicle identification and other important reference information. The vehicle certification label is located on the sidewall to the left of the steering wheel, or on the driver's door. Never remove or destroy this label.

MANUFACTURED BY / FABRIQUE PAR:		DATE:	
DESIGNATED SEATING CAPACITY / NOMBRE DÉSIGNÉ DE PLACES ASSISSES:		X 70 KG = KG	
GVWR/PMGV KG (LB)		TRES/PNEU	
RIMS/JANTE		COLD INFL. PRESS./PRESS. DE GONFL. A FROID	
FRONT/ AVANT	KG LB		KPA SINGLE DUAL PSI/LPC ☐ ☐
INTERM/ INTERM	KG LB		KPA SINGLE DUAL PSI/LPC ☐ ☐
REAR/ ARRIERE	KG LB		KPA SINGLE DUAL PSI/LPC ☐ ☐
THIS VEHICLE CONFORMS TO ALL APPLICABLE U.S. FEDERAL MOTOR VEHICLE SAFETY STANDARDS IN EFFECT ON THE DATE OF MANUFACTURE SHOWN ABOVE. THIS VEHICLE CONFORMS TO ALL APPLICABLE STANDARDS PRESCRIBED UNDER THE CANADIAN MOTOR VEHICLE SAFETY REGULATIONS IN EFFECT ON THE DATE OF MANUFACTURE. - CE VEHICULE EST CONFORME A TOUTES LES NORMES QUI LUI SONT APPLICABLES EN VERTU DU REGLEMENT SUR LA SECURITE DES VEHICULES AUTOMOBILES DU CANADA EN VIGUEUR A LA DATE DE SA FABRICATION.			
V.I.N./N.I.V.:		TYPE/TYPE:	CD-229

MOTORHOME LABELING DEFINITIONS

Reference Number Code:

1. Chassis manufacturer.
2. Chassis manufacture date.
3. Month and year of manufacture at Triple E Recreational Vehicles.
4. **Gross Vehicle Weight Rating:**
The (GVWR) Gross Vehicle Weight Rating, is the maximum permissible weight of this fully loaded motorhome.
5. **Gross Axle Weight Rating:**
Total permissible weight allowed for the front, and rear axles (listed in pounds and kilograms).
6. **Suitable Tire Choice:**
Tires recommended to meet handling, loading and safety requirements. When replacing any of the tires, the new tires must meet these specification.
7. **Suitable Rim Choice:**
Wheel rims recommended to meet handling and safety requirements. When replacing any of the rims on the vehicle ensure that the new rims meet these specifications.
8. **Cold Inflation Pressure:**
Inflation pressures recommended (while cold) for the tires originally equipped on your vehicle. These pressure levels must be maintained to assure proper handling, safety and fuel economy.

9. Rear Axle Wheel Configuration:

Single axle/Dual wheels.

10. Serial Number:

This is the serial number assigned to the completed vehicle by Triple E Recreational Vehicles.

11. Vehicle Identification Number (VIN):

This number identifies the chassis on which the motorhome is built.

12. Type:

States the NHTSA designated usage classification for your motorhome. MPV signifies a Multi-purpose Passenger Vehicle.

13. Model:

Lists the Triple E product model number of your vehicle.

14. Color:

Signifies the color code number of the decor used throughout the vehicle. This number is necessary for ordering replacement cushions, curtains, carpet, etc. It also is found in the wardrobe.

NOTE

The specifications sheet is located in the wardrobe. Beneath the specification sheet are the exterior color codes.

Triple E motorhomes are built according to CSA and RVIA standards.

COMMANDER / EMBASSY

MOTORHOME WEIGHT INFORMATION

VIN OR SERIAL NUMBER

GVWR (GROSS VEHICLE WEIGHT RATING) IS THE MAXIMUM PERMISSIBLE WEIGHT OF THIS FULLY LOADED MOTORHOME.

UVW (UNLOADED VEHICLE WEIGHT) IS THE WEIGHT OF THIS MOTORHOME AS MANUFACTURED AT THE FACTORY WITH FULL FUEL, ENGINE OIL AND COOLANTS.

SCWR (SLEEPING CAPACITY WEIGHT RATING) IS THE MANUFACTURER'S DESIGNATED NUMBER OF SLEEPING POSITIONS MULTIPLIED BY 154 POUNDS (70 KILOGRAMS).

CCC (CARGO CARRYING CAPACITY) IS EQUAL TO GVWR MINUS EACH OF THE FOLLOWING: UVW, FULL FRESH (POTABLE) WATER WEIGHT (INCLUDING WATER HEATER), FULL LP GAS WEIGHT AND SCWR.

CARGO CARRYING CAPACITY (CCC) COMPUTATION

	POUNDS	KILOGRAMS
GVWR		
MINUS UVW		
MINUS FRESH WATER WEIGHT OF GALLONS @ 8.3 LB/GAL		
MINUS LP GAS WEIGHT OF GALLONS @ 4.5 LB/GAL		
MINUS SCWR OF PERSONS @ 154 LB/PERSON		
= CCC FOR THIS MOTORHOME*		

*DEALER INSTALLED EQUIPMENT AND TOWED VEHICLE TONGUE WEIGHT WILL REDUCE CCC
CONSULT OWNER MANUAL(S) FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES.

CD-120

U.S.

CARGO-CARRYING CAPACITY: CALCULATED WITH THE FRESH WATER TANKS FULL (COLD HOT AND THE WASTE WATER TANKS EMPTY	KG. KG. KG.)	CAPACITÉ DE CHARGEMENT: CALCULÉE AVEC LES RÉSERVOIRS D'EAU DOUCE PLEINS (FROID CHAUD ET LES RÉSERVOIRS D'EAUX USÉES VIDES.	KG. KG. KG.)
MASS OF WASTE WATER TANKS FULL:	KG.	MASSE DES RÉSERVOIRS D'EAUX USÉES PLEINS:	KG.

FD-129

Canadian

Fig. 1-2 VEHICLE LABELS



Fig. 1-3 IDENTIFICATION INFORMATION (LABEL LOCATION)

COMMANDER/EMBASSY

1.6 IDENTIFICATION INFORMATION

Take a few minutes to fill in this information. It will be a handy reference for you. The Chassis label is located on the sidewall to the left of the steering wheel or on the driver's side door. (The component model and serial numbers are recorded on a serial number data sheet stored in the owner information package.)

Your Name _____

Motorhome Model _____

Coach Serial No. _____

Chassis Serial No. _____

Date Purchase _____

Dealer Name _____

Address _____

Phone No. _____

Insurance Policy

Agent Name _____

Policy No. _____

Agent's Phone No. _____

Range/Oven

Manufacturer _____

Model _____

Serial No. _____

Microwave Oven

Manufacturer _____

Model _____

Serial No. _____

Video Cassette Player

Manufacturer _____

Model _____

Serial No. _____

Television

Manufacturer _____

Model _____

Serial No. _____

Dash Stereo

Manufacturer _____

Model _____

Serial No. _____

Water Heater

Manufacturer _____

Model _____

Serial No. _____

Furnace

Manufacturer _____

Model _____

Serial No. _____

Air Conditioner #1

Manufacturer _____

Model _____

Serial No. _____

Air Conditioner #2

Manufacturer _____

Model _____

Serial No. _____

Generator

Manufacturer _____

Model _____

Serial No. _____

Miscellaneous

Key No. _____

Paint Codes

COMMANDER/EMBASSY

1.7 EXTERIOR FEATURE IDENTIFICATION - TYPICAL MODEL

Composite model shown for illustration purposes only. Actual locations of features depends on coach model and options.

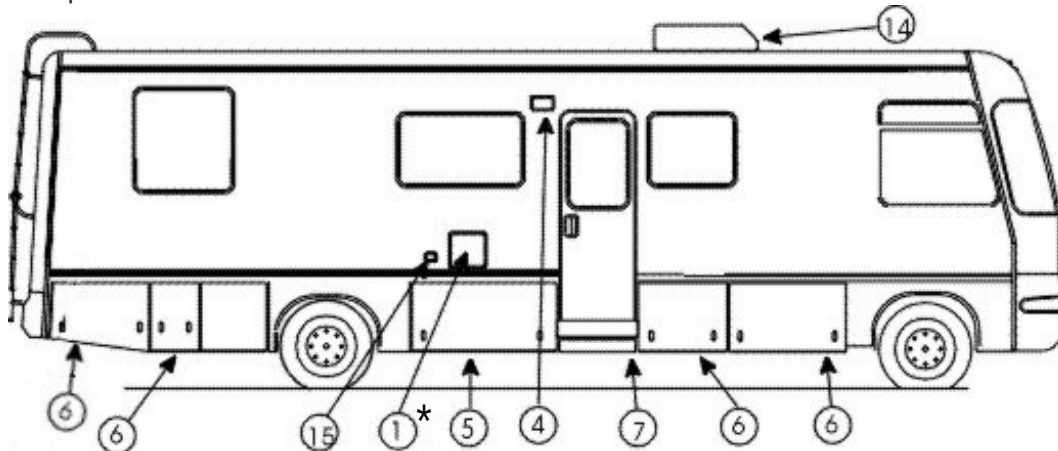


Fig. 1-3 EXTERIOR IDENTIFICATION - COMMANDER ONLY (RIGHT)

- | | |
|---|----------------------------------|
| 1. Water Heater Service Access. * | 12. Utility Service Compartment. |
| 2. Refrigerator Service Access. | Includes: Water Drain Valves. |
| 3. Range Hood Vent. | Fresh Water Filler. |
| 4. Porch Light. | Winterization Valve. |
| 5. Propane Tank | Holding Tank Drain Valves. |
| 6. Storage Compartment | Black Water Flush System. |
| 7. Entrance Step. | 13. Sewer Hose Storage. |
| 8. Furnace Service Access Panel. * | 14. Roof Air Conditioner. |
| 9. Engine and Generator Fuel Tank Fill. | 15. Exterior 120v Receptacle. |
| 10. Battery Compartment. | 16. Shore Power Hook-Up. |
| 11. Generator Compartment. | |

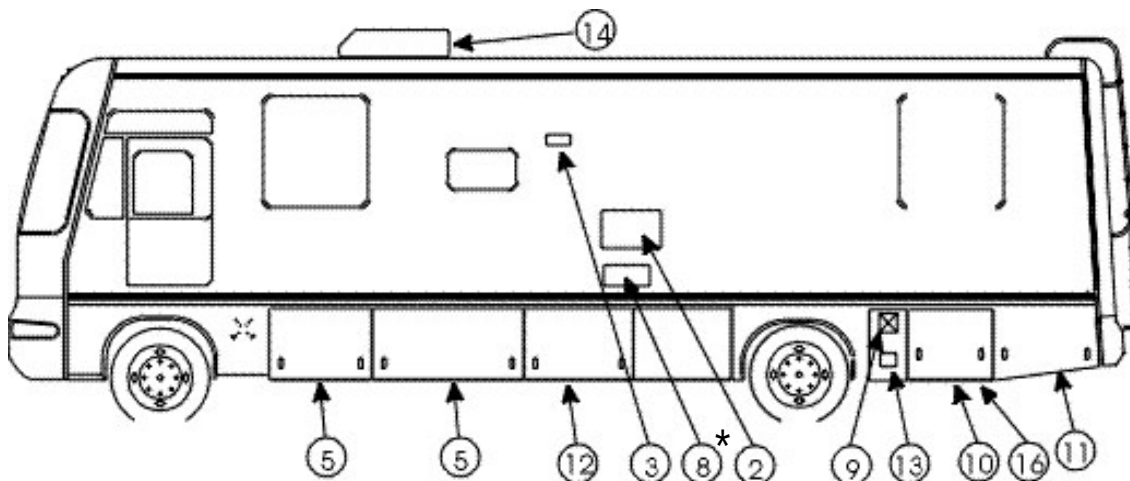


Fig. 1-4 EXTERIOR IDENTIFICATION - COMMANDER ONLY (LEFT)

NOTE

Some equipment shown may be optional.

*** CAUTION:** Be careful. These features may become hot while water heater or furnace are in use.

COMMANDER/EMBASSY

TYPICAL MODEL

Composite model shown for illustration purposes only. Actual locations of features depends on coach model and options.

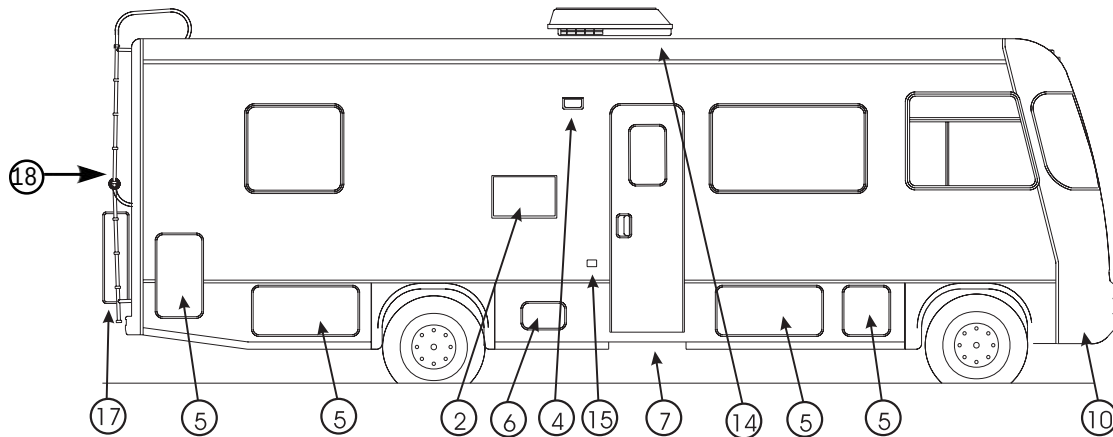


Fig. 1-5 EXTERIOR IDENTIFICATION - EMBASSY ONLY (RIGHT)

- | | |
|---|----------------------------------|
| 1. Water Heater Service Access. * | 12. Utility Service Compartment. |
| 2. Refrigerator Service Access. | Includes: Water Drain Valves. |
| 3. Range Hood Vent. | 13. Sewer Hose Storage. |
| 4. Porch Light. | 14. Roof Air Conditioner. |
| 5. Storage Compartment. | 15. Exterior 120v Receptacle. |
| 6. Propane Tank Access | 16. Shore Power Hook-Up |
| 7. Entrance Step. | 17. Spare Tire |
| 8. Furnace Service Access Panel. * | 18. Ladder (Opt.) |
| 9. Engine and Generator Fuel Tank Fill. | 19. Exterior Shower (Opt.) |
| 10. Battery Compartment. | |
| 11. Generator Compartment. | |

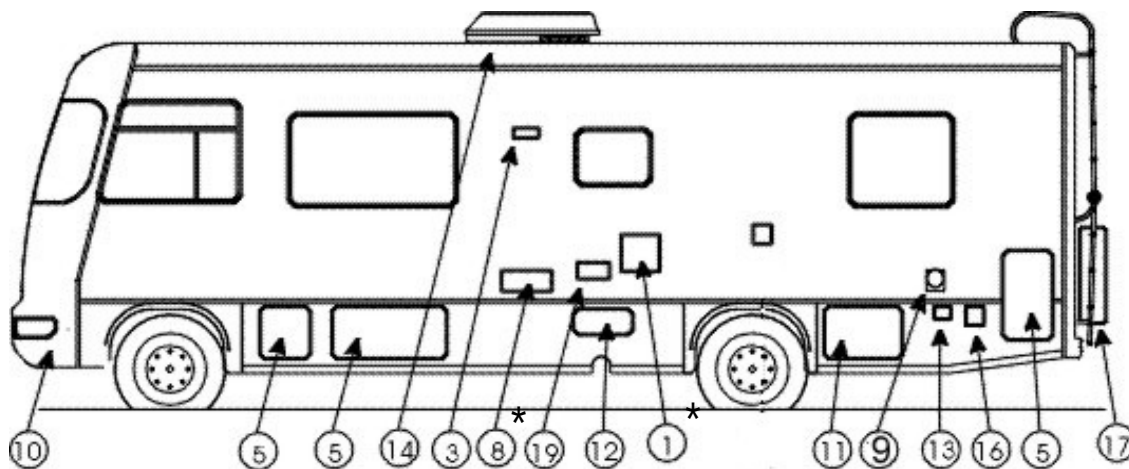


Fig. 1-6 EXTERIOR IDENTIFICATION - EMBASSY ONLY (LEFT)

NOTE

Some equipment shown may be optional.

*** CAUTION:** Be careful. These features may become hot while water heater or furnace are in use.

1.8 SERVICE ASSISTANCE

Your dealer will be glad to provide any additional information you need and to answer any questions you may have about the operation of your motorhome. When it comes time for service, remember that your dealer knows your vehicle best and is interested in your satisfaction. Your dealer will provide quality maintenance and assistance during the period of your ownership. It is advisable that you follow a regular maintenance schedule to keep your vehicle functioning at its best.

Should you require warranty assistance while travelling, take your motorhome to the nearest Triple E dealer for help.

1.9 REPORTING SAFETY DEFECTS

If you believe that your motorhome has a safety defect of any kind that could cause injury, or death, contact Triple E immediately. As well, make sure to contact the National Highway Traffic Safety Administration (NHTSA) if you are a resident of the US, or Transport Canada if you are a Canadian resident and report your concern.

The NHTSA or Transport Canada will investigate the concern should there be a number of similar complaints. They have the authority to order a recall and repair campaign depending on the nature and severity of the problem.

The NHTSA may be reached by using the Auto Safety Hotline at 1-800-424-9393 (366-0123 in the Washington, DC area) or by writing to: NHTSA, US Department of Transportation, Washington, DC 20590. The Hotline will also provide you with additional information on motor vehicle safety.

In Canada, call 1-613-993-9851 or write to: Transport Canada and Road Safety, 2780 Sheffield Road, Ottawa, Ontario K1B 3V9.

1.10 DRIVING COMFORT

Triple E has made every effort to design and construct your motorhome for your comfort and safety. We know that your investment is important to you as well as to us. Our design team has dedicated itself to the development of the best motorhome comfort and protection packages in the industry. Here are some of the features that make your unit one of the finest motorhomes on the road today:

1. Passenger Comfort

- a. Optional, ducted roof-mounted air conditioning units with up to 13,500 BTU's of cooling capacity per unit. Available with the air conditioner is a heat strip to supplement the forced air furnace. An optional single 15,000 BTU unit is also available.
- b. High output chassis air conditioner for travelling comfort.
- c. Electronic ignition LP gas furnace designed to maintain a comfortable temperature of +20 degrees C (+70 degrees F) when the temperature outside is -20 degrees C (-5 degrees F). However, temperatures may vary in the coach depending on register location.
- d. High output chassis heater for your driving comfort.
- e. Thermally efficient vacuum-bonded composite walls, floor and roof, using rigid foam insulation for strength and designed to reduce freeze-through.
- f. One piece headliner for warmth and noise reduction.
- g. Automatic, electronic ignition water heater.
- h. Motor-aid (Commander only) water heater to keep the water in the water heater hot while travelling.

2. Unit Protection

- a. Fiberglass (Commander) or FRP (Embassy) all-weather exterior finish. Easy to maintain. Will not rust or pit.
- b. Seamless EPDM rubber roof to ensure a weather proof seal.
- c. Tubular aluminum reinforced walls and roof. Steel reinforced floor.
- d. Urethane undercoating for protection against dust and moisture and to provide extra insulation against heat and cold.
- e. Fully insulated, heated holding tank compartment and discharge valves to prevent winter freeze-up (Optional on Embassy). Enclosed to protect against road damage.
- f. Simplified manual water winterization system complete with water heater bypass.
- g. Ultraviolet stabilized exterior components to resist fading and deterioration.
- h. Exterior screws and fasteners that resist corrosion.
- i. Heavy duty mud flaps for additional protection against flying stones and mud.

2 SAFETY

Safety, comfort and ease of operation are key considerations during the design and manufacturing of all Triple E Motorhomes. It is the responsibility of the owner or operator to read, understand and follow all instructions in the Motorhome, chassis and appliance or auxiliary system manuals and safety signs on the vehicle. Specific items, procedures or instructions are identified with the key words IMPORTANT, CAUTION and WARNING to emphasize areas of special concern. These key words are defined as:

IMPORTANT . This word is used to highlight or emphasize a specific procedure, information or result for a system or the vehicle.

CAUTION . This word is used to highlight or emphasize a specific procedure or information that if not followed will result in damage to a system or the vehicle.



WARNING . This word is used to highlight or emphasize a specific procedure or information that if not followed can involve your personal safety as well as cause vehicle damage.

The safety glyph  identifies an area that involves the personal safety of the operator, passengers or a bystander. Always read, understand and follow the instructions and information in the safety sign or manual instruction. Do not take chances with safety. Most accidents can be prevented.

In this section we have compiled a series of items relating to safety that everyone should follow. Although this compilation is thorough, we realize that it does not cover everything. Each person has the responsibility of following all listed safety items covered in this and other manuals.

2.1 GENERAL SAFETY

1. The most important safety feature on this vehicle is the operator. It is the operator's responsibility to read, understand and follow all safety and operating instructions in the vehicle, chassis, appliance and system manuals. Most accidents can be prevented.
2. A person who has not read and understood all operating and safety instructions is not qualified to operate this vehicle. Untrained or uninformed operators expose themselves, passengers and other drivers/vehicles/property to possible serious injury or death and property damage.
3. Do not modify the vehicle in any way. Unauthorized modification may impair the function and/or safety and could affect the life of the vehicle.
4. All approved driver and passenger seats are equipped with seat belts. Swivel seats when occupied while driving, each must be locked in the forward facing direction. The driver and each passenger must occupy only the approved seats and fasten seat belts when the unit is moving. Do not allow any passengers in the vehicle unless they have their seat belt attached while in an approved seat. When the vehicle is moving, no one should be using the bedroom, galley, or bathroom area of the unit .
5. Always fasten the seat belt low on the torso and keep it snug to transmit the force from the belt into the hip/pelvic area of the body. Pregnant women should wear a lap/shoulder belt whenever possible. Wear the belt snug and low throughout the pregnancy.
6. Review the location, function and operation of the escape window with everyone who will be riding in or using the motorhome. Inspect the locking mechanism.
7. Establish a monthly fire extinguisher inspection program to keep the extinguisher in good condition and fully charged. Inspect the extinguisher again prior to a vacation or trip.

2.2 DRIVING SAFETY

1. Only trained and licensed drivers are allowed to drive this vehicle.
2. Observe all applicable road and driving regulations. Check with local transport authorities if you have any questions.
3. Inspect the vehicle before driving. Adjust, repair or replace components or systems to maintain vehicle in good driving condition. Do not drive the motorhome unless it is in good condition.
4. Do not make adjustments such as seat position, tilt steering wheel etc. while driving.
5. A motorhome is considerably larger and heavier than an automobile and results in different handling characteristics. Allow more space for stopping, turning, passing, parking, accelerating etc. during operation. The extra height results in different stability characteristics. Drive at a slower speed when turning, cornering or on rough terrain. Use extra care in adverse conditions such as rain, darkness, snow, sleet, icy surface, hilly terrain, rough road or a soft surface. Refer to your chassis manual for additional instructions.
6. Maintain brakes in top condition at all times. Allow extra distance for stopping. Be extra vigilant in adverse surface conditions such as wet, icy, slushy, rough or a soft surface when applying the brakes. After going through water, slush or snow, apply the brakes carefully in an open area to check if one side grabs. Use gentle pedal pressure to dry the brakes and restore uniform operation. Do not operate vehicle if uneven brake action persists.

2.3 FUEL (MOTOR AND LP GAS)

1. Do not smoke when filling vehicle/generator fuel tank, or LP gas tank.
2. Extinguish all pilot lights before refuelling.
3. Do not fill the LP gas tank or vehicle fuel tank when the generator is running.
4. Do not bring or store fuel or LP gas containers, gasoline or other flammable liquids in the vehicle. Vapours can be released causing breathing difficulties or an explosion or fire. LP gas containers vent excess pressure into the atmosphere.
5. Do not fill LP gas containers more than 80% of capacity. Overfilling can lead to excessive venting or gas flow and result in an explosion or fire.
6. Do not use an open flame to check for an LP gas leak. Use soapy water and watch for bubbles. Close valve on tank and latch all covers, caps and doors after filling system.
7. Do not connect natural gas supply to the LP system.
8. Install LP gas regulators with the pressure regulator vent facing downward. Do not obstruct vent hole. In cold weather, condensation can get into the regulator and cause freeze-up. Use a light bulb to thaw out. Do not use an open flame or heat lamp to thaw out.
9. Turn igniter knob to create a spark at the burner when burner is turned on. Large volumes of gas can lead to an explosion and fire if igniter is not turned when the burner is turned on. Turn burner off and let gas dissipate before trying to relight if it does not light immediately.
10. Do not use the furnace when the vehicle is moving. Turn the gas off at the LP container.
11. Do not obstruct LP gas compartment when parking. Open access allows emergency workers to close master valve if an emergency occurs.

2.4 ASPHYXIATION

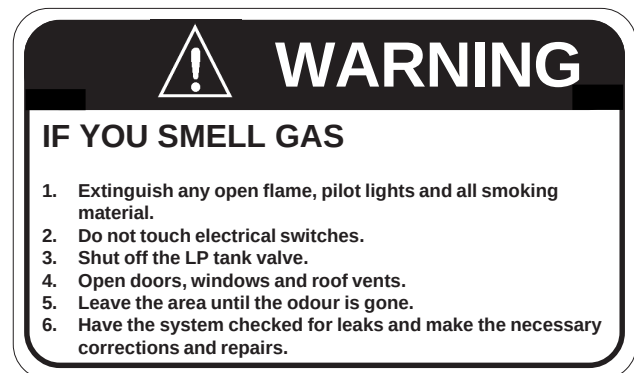
1. Do not use portable fuel-burning equipment including wood and charcoal grills and stoves in the vehicle. The use of this equipment can generate deadly carbon monoxide gas or cause fires.
2. Provide proper ventilation when using the gas range or oven to prevent asphyxiation. Do not use the oven or range to heat the vehicle. Long term use of these appliances for space heating increases the chance of asphyxiation. Before using the range or oven:
 - a. Open overhead vent or turn on exhaust fan, and...
 - b. Open window.
3. Avoid breathing the exhaust fumes from a gas engine and LP gas burner such as the vehicle or generator engines and the range, oven, refrigerator, furnace or water heater. Position the vehicle so the wind blows the engine exhaust fumes away. Provide ventilation to the inside of the vehicle for adequate air exchange when appliances or furnaces are being used to prevent a build-up of carbon monoxide. Be sure all alarms are working.
4. Do not run vehicle or auxiliary generator engine in a confined area such as a garage unless you are just moving it out of the area.
5. Use vent or air conditioning fan to force fresh air into the interior when vehicle is in an open area with the engine running for more than just a short time.
6. Maintain engine(s) exhaust system components in top condition to prevent fumes from entering vehicle. Check when changing oil, when exhaust sound changes or when underbody is damaged.
7. Close rear windows when driving to prevent drawing exhaust fumes into vehicle.

2.5 FORMALDEHYDE

Formaldehyde based adhesives are used in some components in this vehicle and may release small amounts of formaldehyde fumes into the vehicle for an unknown period of time until fully dissipated. Some people who are allergic to the fumes may experience irritation to the eyes, ears, nose and throat. Small infants may have a more serious reaction. Although long range effects are not well understood, testing to date has not revealed any serious health effects in humans at the level of emission from these products. Reduce the effects of the formaldehyde fumes by keeping the unit well ventilated.

2.6 LP GAS LEAKS

1. Read, understand and follow safety sign next to stove:



2. Use soapy water to check for leaks and watch for bubbles. Do not use an open flame.
3. Correct or repair leak(s) before using appliances or vehicle again.

2.7 ALARMS

1. **LP Gas Alarm:**
 - a. Sounds whenever there is an unsafe amount of propane gas in the vehicle.
 - b. Follow instructions on safety sign and air out vehicle to silence alarm.
 - c. Have a qualified service personnel find the leak and correct the problem before using unit again.
2. **Carbon Monoxide Alarm:**
 - a. Sounds whenever there is an unsafe amount of carbon monoxide gas in the vehicle.
 - b. Open doors, vents and windows to air out vehicle and silence alarm.
 - c. Have a qualified service personnel check all burners, clean, repair or replace any defective burners.
 - d. Remove all fuel or wood burning devices from inside vehicle.
 - e. Have a qualified serviceman check all engine exhaust system components. Repair or replace any defective components. Position motorhome so wind blows exhaust fumes away.
3. **Smoke Alarm:**
 - a. Sounds whenever there is an unsafe amount of smoke in the vehicle. Always use exhaust fan over the stove when cooking.
 - b. Open doors, vents and windows to air out vehicle and silence alarm. Correct and eliminate smoke source.
 - c. Check alarm on a regular basis. Check when removing from storage, before trips and weekly thereafter. Depress center button to test alarm electronics. Test alarm sensor by blowing smoke (from safe, fire-free source) past sensor. If alarm does not sound when testing, determine source of problem and correct or replace alarm.
 - d. Do not remove battery to silence alarm. When alarm "beeps" every minute, battery is weak and must be replaced. Do not allow battery to go dead. Be sure to replace with recommended battery. Test after battery is replaced.
 - e. Clean and vacuum opening on smoke alarm once a month.
 - f. Do not try to repair alarm. Replace it.
 - g. Smoke alarms are not perfect and do not respond in all situations. The best safeguard is fire prevention.
4. Recurring alarm(s) indicate the slow accumulation of LP gas, carbon monoxide, or smoke. Have an authorized service center check system and identify source. Correct problem before resuming use of unit.
5. Refer to alarm manual(s) for more detailed instructions.

2.8 ELECTRICAL

1. Use care when working around batteries. The gases given off when charging are explosive. Keep sparks and flames away from battery. Wear protective clothing, eye protection and remove jewellery. Do not short across terminals.
2. Do not overload electrical circuits. Replace circuit breakers and fuses with components of similar capacity. Do not replace with larger capacity components (breakers or fuses).
3. Be sure motorhome is well grounded to prevent shocks or electrocution. Do not plug utility power cord into an outlet that is not grounded. Do not modify any plug to fit a receptacle for which it was not designed. Do not attach an extension cord to the utility power cord.
4. Use care when handling electrical appliances, power cords and other components. Misuse or abuse of electrical components can lead to shocks or electrocution. Do not use electrical components, cords or appliances with bare feet, wet hands or while standing in water or on wet ground.

2.9 LOOSE COMPONENTS

Any loose component can become a projectile during sudden stops, manoeuvring or an accident therefore:

1. Tie, strap or secure all tables, chairs and other furniture before travelling.
2. Close, latch or lock all doors, drawers, panels and gates before travelling.
3. Turn all swivel seats in the forward facing direction and lock before moving. All passengers must be seated in a seat that is equipped with a seat belt and the seat belt fastened.
4. Stow all cooking, serving, eating and other loose components before moving.

2.10 MAINTENANCE

1. Do not attempt to start vehicle by hot wiring or shorting across starter terminals.
2. Do not remove radiator cap when radiator or engine is hot. Steam or hot fluid can be released. Check coolant level in overflow reservoir.
3. Do not go under a vehicle that is only supported with a jack.
4. Do not mix bias and radial ply tires on the vehicle. Mixing different types of tires can affect handling characteristics. Replace with the same size, type and load rating.

2.11 EMERGENCY EXITS

Each Motorhome is designed with an emergency exit window in the sleeping area and the side windows can also be used as an alternate emergency exit.

1. **Emergency Exit:**

Press down on the red latches of the emergency egress window and push out the window. (The egress window has hinges on top).



Fig. 2-1 EMERGENCY EXIT

3 PREPARATION

Refer to information pack supplied with the Motorhome prior to using or driving the unit. Read, understand and follow instructions in the chassis, motorhome, appliance and system manuals. Also follow the safety tips provided in Section 2. Motorhomes can be used many ways and in many conditions or circumstances. We have tried to compile operational and safety instructions to cover the normal conditions encountered with the unit. However these instructions are not all-inclusive. Each user or operator has the responsibility to use common sense around the unit and to consult a dealer if you have any questions.

3.1 VEHICLE PREPARATION

3.1.1 KEYS

Several number coded keys are supplied with the vehicle and include ignition, side door, baggage compartment, generator compartment and others depending upon the features of your unit. Always keep a list of these numbers in a safe place (not in the vehicle) for easy reference should you misplace any of the key(s). Supplying a locksmith with these numbers will allow them to cut a key to fit your lock.

3.1.2 VEHICLE LOADING

The components of your vehicle are designed to provide satisfactory service if the vehicle is not loaded in excess of either the gross vehicle weight rating (GVWR) or the maximum front and rear gross axle weight ratings (GAWR's). These ratings are listed on the Canadian and U.S. Department of Transport Sticker located on the driver door panel.

The (GVWR) Gross Vehicle Weight Rating, is the maximum permissible weight of this fully loaded motorhome.

The (UVW) Unloaded Vehicle Weight means the weight of the motorhome as manufactured at the factory with full fuel, engine oil and coolants. The UVW does not include cargo, fresh water, LP Gas, Occupants, or factory and dealer installed options.

The (SCWR) Sleeping Capacity Weight Rating is the manufacturer's designated number of sleeping positions multiplied by 154 pounds (70 kilograms).

The (CCC) Cargo Carrying Capacity is equal to GVWR minus each of the following: UVW, full fresh (potable) water weight (including water heater), full LP-Gas weight and SCWR.

The (GCWR) Gross Combination Weight Rating, means the value specified by the Chassis manufacturer as the maximum allowable loaded weight of this motorhome with its towed trailer or towed vehicle combined.

To check that your motorhome is properly loaded, drive the fully loaded vehicle to a scale and weigh as follows:

- Drive only the front wheels onto the scale to obtain the front gross axle weight.
- Next, place the entire vehicle (both axles) onto the scale to obtain the gross vehicle weight.
- Drive forward till only the rear wheels are on the scale and obtain the rear gross axle weight.

Compare the gross vehicle weight (b) with the GVWR on the sticker. If the gross vehicle weight exceeds the GVWR, you will have to reduce the total vehicle load. If the gross vehicle weight (b) is less than the GVWR on the sticker, check the front and rear gross axle weights against the front and rear GAWR's on the sticker. If either axle weight exceeds the GAWR for that axle, redistribute the load to ensure that loads on front and rear axles are within the required limit.

Heavier items should be loaded as centrally and as low as possible. Lighter items may be stored in cabinets, closets and drawers. Luggage or similar cargo inside your RV should be secured to prevent it from causing damage.

Take note of this label in all exterior storage compartments.

CAUTION

Baggage Compartments Are Not To Be Loaded In Excess of 75 kgs./165 lbs.

Total Vehicle Load Not to Exceed The Maximum GVWR/GAWR/GCWR Of The Chassis.

3.1.3 TRAILER TOWING

A trailer can affect the handling, durability, performance and economy of your motorhome. The factory installed towing hitch is rated for:

- a. 500 lb. - maximum hitch or tongue weight.
- b. 5000 lb. - maximum trailer weight.

The combined weight of the motorhome and the towed vehicle should not exceed the Gross Combined Weight Rating (GCWR). Also, the combined weight of the motorhome and the tongue weight of the towed vehicle should not exceed the motorhome's Gross Vehicle Weight Rating (GVWR) or its rear Gross Axle Weight Rating (GAWR) as listed on the Vehicle Certification label.

To be sure of the correct balance in weight, it is advised that you take your loaded vehicle to a weigh-scale to determine the actual weight distribution. After you have done this once, you will have a better idea on how to load in the future.

Remember, your motorhome will handle differently with a trailer in tow. Stopping distances will change. Make sure your trailer is equipped and connected to your motorhome with the proper brake system. When descending a steep or long grade, reduce speed and shift to a lower gear to control vehicle speed. Avoid prolonged or frequent application of brakes if at all possible to prevent overheating and possible failure of the braking system.



Fig. 3-1 TRAILER HITCH

CAUTION

Exceeding any of the recommended gross vehicle weight ratings may result in vehicle damage.

Do not install a weight equalizing type of hitch on your motorhome.

3.1.4 AUXILIARY VEHICLE TOWING

If you are planning to tow a vehicle or a trailer with your motorhome, your Triple E dealer will provide you with the information, advice and direction you will require.



3.1.5 PARKING, LEVELING AND BLOCKING



Fig. 3-2 PARKING

Try to pick a spot as level as possible on which to park your motorhome. You may choose to drive in or back in depending on your personal preference. Remember, however, that all your utility connections (water, sewer, electrical, etc.) are all located on the left side of your motorhome.

It is important that you make sure your motorhome is levelled correctly whenever you park, not only for your own comfort but for the proper functioning of your appliances such as your refrigerator. The vapor cooling system can “lock up” and damage the refrigerator if it is not level. As well, the various water and waste levels in the different holding tanks will have a reduced holding capacity if not level. In addition, the sewer drainage system needs to be level in order to function properly.

If your motorhome is equipped with the Hydraulic Levelling System, follow the directions under Motorhome Leveling in Section 9.2 of this manual to level your motorhome. If not equipped, use wood blocks to raise the lower end or side of the motorhome to bring it to level. After your motorhome is levelled, use wheel chocks or similar devices in front or behind the wheels in order to prevent your motorhome from rolling off the blocks. When placing blocks beneath a set of dual wheels make sure you block both tires so that the load is not carried by one tire.



4 CONTROLS

It is the responsibility of each owner, operator, driver or user to be familiar with the positions, functions and settings of all controls. Each new person should be trained in all aspects of motorhome operation prior to starting. Review this section as often as required to understand the controls. Contact your dealer if you have any other questions.

4.1 CHASSIS CONTROLS

Refer to the manual provided in the information package from the chassis manufacturers for details on the standard automotive, steering column, transmission and instrument cluster controls, lights and gauges.



Fig. 4-1 INSTRUMENTS

4.2 DASH CONTROLS

1. Right Side:

a. Climate Control:

This is the standard climate control used for all Class A Triple E and includes both the heating and cooling functions for the driving section of the vehicle.

b. AM/FM CD Deck:

This is a standard AM/FM compact disc deck. Refer to the deck manufacturers manual in the information package for more details. An optional cassette deck is also available.

c. Radio:

This push button switch controls the power to the stereo. Depress the bottom portion of the switch to turn on the power from the coach battery. Depress the switch again to turn it off. Unit also has a switch in the bedroom upper console and lower galley. This switch allows the user to play the stereo without turning on the ignition.

d. Auxiliary Generator Control (Optional):

This 3 position push button switch controls the operation of the auxiliary generator. Depress the bottom portion of the switch against the spring to engage the starter to the auxiliary generator. Release the switch when the generator engine starts. Depress the top portion of the switch and hold until the generator turns off and then release.

e. Interior Lights (Commander only):

This push button switch controls the power to the coach (on a cabinet) foot lights. Depress the lower portion of the switch to turn the foot lights on. Depress the top portion to turn them off.

f. Map Reading Lights:

This push button switch controls the power to the lights on the bottom of the overhead cabinet above the dash used to illuminate a map. Depress the bottom portion of the switch to turn the map light on and the top to turn it off.

g. Rear Auxiliary Heater Fan (Commander and Embassy XL only):

This push button controls the power to the rear auxiliary heater. Depress the bottom portion of the switch to turn the fan 2 speed switch on and the top portion to turn off.



Fig. 4-2 RIGHT SIDE - UPPER

2. Left Side:

a. Mirror Adjustment - Commander only:

This cluster of switches controls the position of the rear view mirrors on both sides. Use the center switch to select the left or right mirror. Depress and hold the four outer switches as required to move the mirror to the desired position.

b. Headlights:

This 3 position rotary switch controls the power to the vehicle head lights. Turn fully counterclockwise to turn off. Turn clockwise to the first detent for the parking and panel lights. Turn fully clockwise to turn the headlights on at full power.

IMPORTANT

The Daytime Running Lights (DRL) come on at partial power whenever the engine is running. The headlight switch must be turned on for the headlights to operate at full power.

c. Panel Lights:

This rotary switch controls the power to the instrument panel lights. Roll the dial up decrease the power and turn the lights off. Roll down to increase power level and light intensity.

COMMANDER/EMBASSY

d. Jacks Down Light (Optional Included With Levelling System):

This red light indicator alerts the driver that the levelling jacks are in their down position. It comes on when the ignition switch is switched on and the jacks are down.

e. Hourmeter (Optional):

This meter displays the generator operating hours and accumulates time whenever the generator is running.

f. Rear Docking lights:

This push button switch controls the power to the rear docking lights. Depress the bottom of the switch to turn the docking lights on and the top portion of the switch to turn it off.

g. Cockpit Overhead Fans (Optional):

This push button switch controls the power to the fans mounted on the bottom of the overhead cabinet. Depress the bottom portion of the switch to turn the fan on and the top portion of the switch to turn off. The fans can be rotated to any position you require.

h. Mirror Heaters - (Commander only):

This push button switch controls the power to the exterior rear view mirror heaters. Depress the bottom portion of the switch to turn the heaters on and the top portion to turn off. The heater will automatically be shut off when the ignition switch is turned off. The heater will also shut off once it reaches its desired temperature.

k. Coach Battery Connect:

This spring loaded push button switch controls the interconnect circuit between the auxiliary and chassis batteries. Depress and hold the switch to connect the auxiliary batteries to the chassis batteries. Release the switch to disconnect. Use this interconnect only when the chassis batteries are too run down to start the engine.

3. Left Side - Lower (Optional):

a. Computerized Levelling System:

This panel contains the controls for the computerized hydraulic levelling system. Refer to instructions in the information package for more detailed instructions.



Fig. 4-3 LEFT SIDE



Fig. 4-4 LEFT SIDE LOWER

COMMANDER / EMBASSY

4. **Left Side - Under Dash:**
- a. **Intruder Alarm Switch - (Optional Commander Only):**
This push button switch controls the valet feature of the intruder alarm. Refer to operator's manual in information package for more detailed instructions.
 - b. **Driveline Diagnostics Port:**
This port is located under the left side of the dash. Refer to chassis owner's manual in the information package for more details.

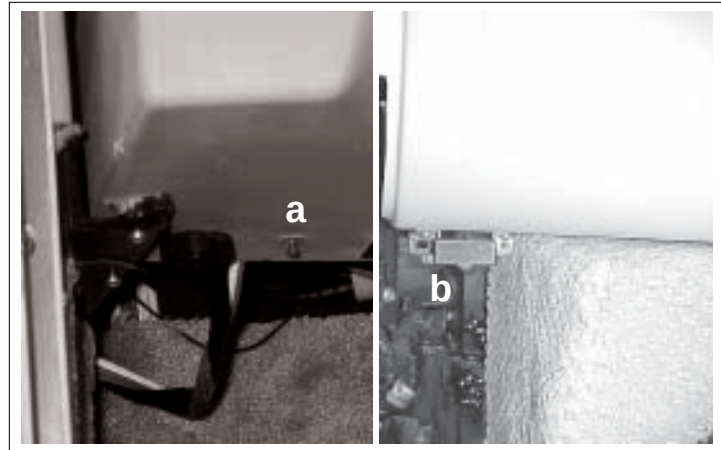


Fig. 4-5 UNDER DASH

4.3 DRIVERS DOOR - Commander only

- a. This rocker switch sets the position of the drivers door window. Depress and hold the forward portion of the switch to raise the window and back portion to lower.



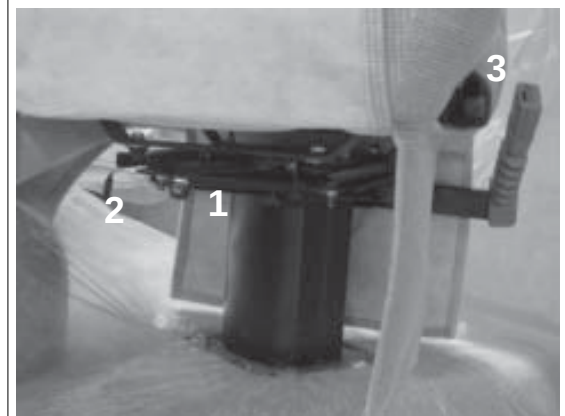
Fig. 4-6 DRIVERS DOOR

4.4 DRIVERS/CO-PILOT SEAT

1. **Forward-Back Position:** Both the drivers and co-pilot seats are designed with a sliding base to allow the seat to be moved forward or backward for occupant comfort.
 - a. **Commander:**
A spring loaded latch is located at the end of the left hand arm rest to release the sliding base. Pull up on the latch to release the lock. Slide the seat as desired and lock it in position.
 - b. **Embassy:**
The spring loaded latch is located on the front underneath the seat. Push the lever left to release the lock. Slide the seat as desired and release the lever to lock the seat into position.
2. **Swivel Lock:** Both the drivers and co-pilot seats are designed with a swivel base to allow the seat to be used for driving or as part of the living room.
 - a. **Commander:**
A spring loaded latch is located at the end of the right hand arm rest to release the swivel lock. Pull up on the latch to release the lock. Swivel the seat as desired. When the seat is turned in the direction of travel, the swivel lock will automatically engage and secure the seat. Do not move the vehicle unless the drivers and co-pilots seats are locked in the forward facing direction. On some floorplans the seat may have to be moved to the most forward position to rotate it.
 - b. **Embassy:**
The spring loaded latch is located at the right side underneath the seat. Push the lever back to release the lock. Swivel the seat as desired. When the seat is turned in the direction of travel, the swivel lock will automatically engage and secure the seat. Do not move the vehicle unless the drivers and co-pilots seats are locked in the forward facing direction.
3. **Back Rest Angle:**
This spring loaded lever controls the lock on the back rest angle position mechanism. Pull the lever up and hold to release the position lock. Gently lean back to push the back rest down. Lean forward to allow the back rest to tilt up. Release the lever to engage the lock and hold the back rest in position.



COMMANDER



EMBASSY

Fig. 4-7 CO-PILOT SEAT CONTROL (TYPICAL)

4.5 COCKTAIL SEAT

A cocktail chair is located behind the co-pilots seat and is part of the living room furniture.

1. Swivel Lock:

This latch releases the swivel base. Push the latch to release the lock and allow the chair to swivel. When the seat returns to this position, the lock will again engage. Be sure the swivel base is locked and seat belt fastened if this seat is occupied when travelling.

2. Forward-Back Position:

This Spring-loaded latch releases the lock on the sliding base to allow the seat to be moved forward or backward and is located under the seat. Push on the latch to release the lock and slide the seat to its desired position. Release the latch to lock the seat in position.

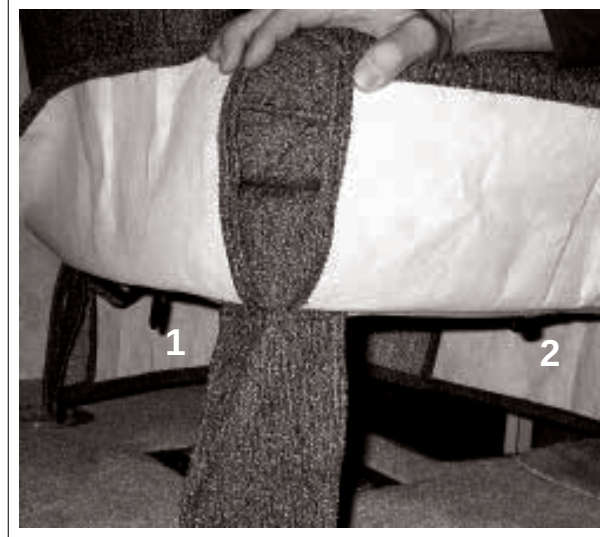


Fig. 4-8 COCKTAIL CHAIR

4.6 SEAT/SHOULDER BELTS

Several seats are equipped with lap or lap/shoulder belts and are the only seats approved for occupancy when travelling. Every occupant must be seated in one of the approved seats with the belt fastened whenever the motorhome is moving. Accident statistics prove the importance of the need to use seat belts. Vehicle occupants not seated in an approved seat and restrained with a seat belt received more injuries of a more serious nature than those properly restrained.

1. Lap/Shoulder Belts:

The driver and co-pilot seats are equipped with a combination lap and shoulder belt for maximum restraint next to the front of the unit.

- Sit in the seat and rotate the seat until it is facing forward and the latch locks.
- Pull the spade end of seat belt across the body and insert it into the buckle. Be sure the buckle "clicks" to indicate that the spade is locked securely in place.
- Be sure the belt is not twisted to minimize load concentrations during impact. A flat belt distributes impact loads over a wider area of the body to reduce the chance of injury.
- Slide the lap portion of the safety belt system low on the torso to distribute the load across the hip/pelvis area.
- Slide the shoulder strap so it lays diagonally across the chest and shoulder area. Do not lay it against the neck.
- Depress the button on the buckle to release the belt assembly. Hold the belt as it is released to prevent it from retracting too quickly.

IMPORTANT

All seat belt retractors are equipped with locks that engage when the belt moves too fast. Move the spade end slowly and steadily when fastening to prevent locking. If belt locks while fastening, release end and let it retract fully. Then pull again to fasten.

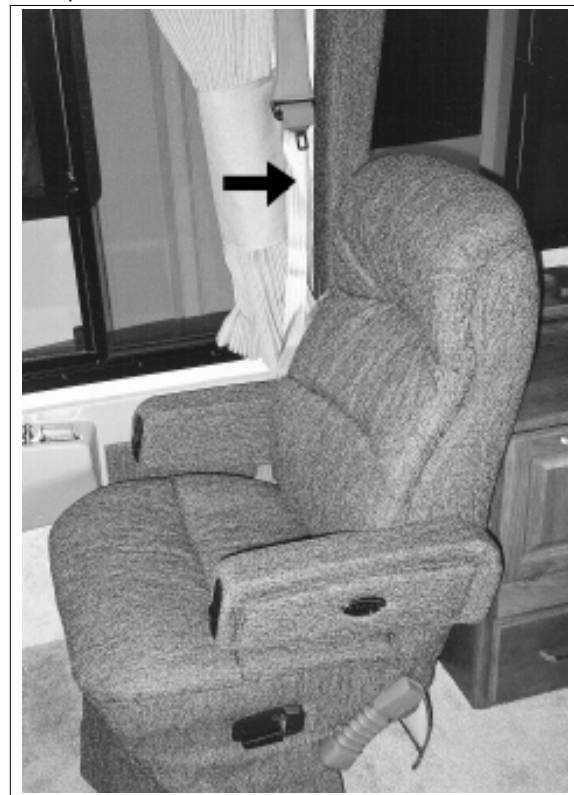


Fig. 4-9 LAP/SHOULDER BELT

2. **Lap Belts:**

Only seats equipped with seat belts are approved for use by occupants while the vehicle is moving. Never travel in a seat that is not equipped with a lap or shoulder belt.

- a. Sit in the seat and rotate the chair to its locked position.
- b. Pull the spade end of the seat belt across the lap and insert it into the buckle. Be sure the buckle "clicks" to indicate that the spade is locked securely in place.
- c. Be sure the belt is not twisted to minimize load concentrations during impact. A flat belt distributes impact loads over a wider area of the body to reduce the chance of injury.
- d. Slide the strap low on the torso and touching the top of the thighs to distribute the impact load through the hip/pelvic area.
- e. Depress the button on the buckle to release the spade/belt assembly. Hold the belt as it is released to prevent it from retracting too quickly.

3. **Pregnancy:**

Pregnant women should wear their lap belts low on their torsos and shoulder straps diagonally across their chests. Do not position the strap against the neck. Wearing a seat or shoulder/lap belt properly will protect both the mother and the unborn child.



Fig. 4-10 LAP BELT

4. **Child Restraints:**

Child restraint systems are a legal requirement in most jurisdictions of North America. Statistics prove that children not secured with a certified child restraint system experience more severe and more frequent injuries than those properly restrained. In order to provide the safest restraint system for your child during transport, follow these considerations when selecting an appropriate child restraint system:

- a. Purchase a child restraint system that is labelled to be certified to all applicable US Motor Vehicle and Canadian Children's Car Seats and Harness Regulations.
- b. Make sure the system will attach to your vehicle conveniently and provide safety for your child every time it is used.
- c. Be sure the restraint system is suitable and adequate for your child's age, weight and height. Check the label for this information.
- d. Review the instructions supplied with the child restraint system. Be sure that anyone placing a child restraint system in a vehicle fully understands how it must be located, anchored and used. Improperly placed or anchored restraints will not provide an acceptable level of safety for your child.

4.7 FRONT UPPER CABINETS

Certain pieces of entertainment equipment are installed inside the front upper cabinets for convenience and looks.

1. Center:

A. VCR (Optional):

This is a standard VCR and is a part of the vehicle entertainment system. Refer to the instructions in the information package for details. Close the cabinet door when VCR access is not required.

B. Input Selector:

An input channel selector is located on top of the VCR and is used to select a specific signal to each TV in the vehicle or the VCR.

TV1

a. ANT:

This push button switch selects the external antenna as the source of the input signal to TV 1 or the one mounted in the front console.

b. AUX:

This push button switch selects the auxiliary signal, normally cable, as the source of the input signal to TV 1 or the one mounted in the front console.

c. VCR:

This push button switch selects the VCR output as the source of the input signal to TV 1 or the one mounted in the front console.

VCR

a. ANT:

This push button switch selects the antenna signal and directs it into the VCR.

b. AUX:

This push button switch selects the auxiliary signal, normally the external cable input, and directs it into the VCR.

TV2

a. ANT:

This push button switch selects the external antenna as the source of the input signal to TV 2 or the one mounted in the bedroom.

b. AUX:

This push button switch selects the auxiliary signal, normally cable, as the source of the input cable to TV-2 (bedroom).

c. VCR:

This push button switch selects the VCR output as the source of the input signal to TV 2 (bedroom).

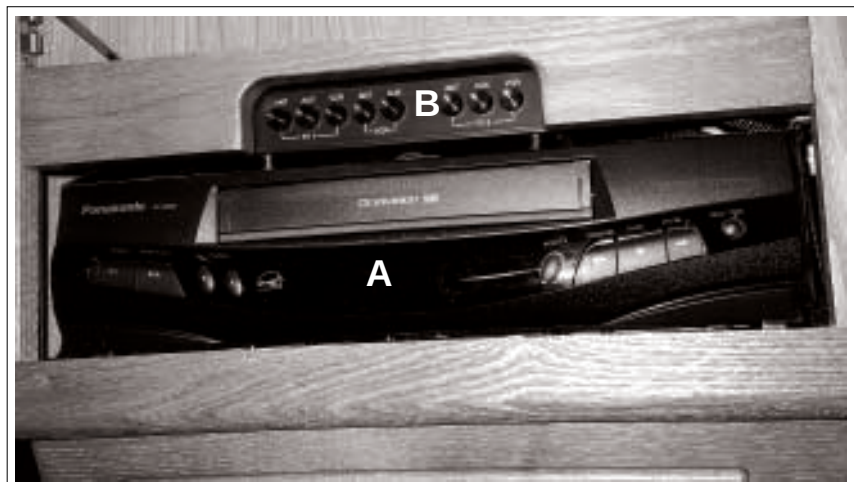


Fig. 4-11 TV INPUT SELECTOR AND VCR (COMMANDER ONLY)

4.8 TV's - (OPTIONAL, N/A Embassy A-27)

Each motorhome may be equipped with a TV in the cabinet over the dash and an optional TV in the bedroom. Although it functions like a standard TV, it is recommended that the operator's manual in the information pack be reviewed prior to use. Use in conjunction with the input selector to select the signal source.

1. Dash TV: Power to the front TV is disconnected when the ignition key is turned on.

2. Bedroom TV (optional):
A motorhome may be equipped with a TV in the bedroom.



Fig. 4-12 TV

3. Rear Camera Monitor (Optional)

A vehicle can be equipped with a rear view camera and monitor to provide the driver with a way to see behind the motorhome when backing up or viewing a trailer or car in tow. The monitor operates similar to that of a TV monitor. Review the booklet in the information package for detailed operating instructions.



Monitor



Camera Mount

Fig. 4-13 REAR CAMERA MONITOR SYSTEM

4.9 ENTRY DOOR

The entry doorway is equipped with a switch panel that controls the following functions:

1. **Porch Light:**

This 2 position rocker switch controls the power to the outside porch light. Depress the upper portion of the switch to turn the porch light on and the lower portion for off.

2. **Step Power:**

This 2 position rocker switch controls the power to the side entry step. Depress the upper portion of the switch to turn the step mechanism power on and the lower portion for off. The step will extend when the door is opened and retract when the door is closed. Refer to the Step System Operator's Manual in the information package for more detailed instructions on step extension when occupied, "last out" feature and retraction for driving.

3. **Interior Light:**

This 2 position rocker switch controls the power to a coach interior light. Depress the upper portion of the switch to turn the light on and the lower portion for off. The switch on the light must be in the 'on' position.

4. **Storage Lights:**

This 2 position rocker switch controls the power to the lights in all the exterior storage compartments. Depress the upper portion of the switch to turn the power to the lights on and the lower portion to turn off. This master switch must be on before any of the light switches in any exterior compartment will work.



Fig. 4-14 SIDE ENTRY

4.10 REFRIGERATOR

The refrigerator control panel is located directly above the fridge and includes switches and several indicator lights.

1. **Master ON/OFF Switch:**
This latching push button switch controls the power to the refrigerator. Depress the switch and it will latch in the depressed position for the power to be on. Depress the switch again to unlatch it and turn the power off. The switch will be in its up position.

IMPORTANT

The control panel operates on 12 volt DC power. This requires the coach batteries to be at full charge for proper control.

2. **Mode Selector Switch:**
This push button switch selects which power source will be used to operate the refrigerator. Depress the switch once to select the AUTO mode and the AUTO indicator light (D) will be lit.
 - a. If 120 volt power is available, the AC indicator light (B) will come on and the AC circuit will operate the refrigerator.
 - b. If 120 volt power is not available, the GAS indicator light (C) will come on and the LP gas system will power the refrigerator.

IMPORTANT

If the CHECK indicator light (E) comes on and the GAS indicator light doesn't come on, the burner has failed to ignite, turn the system off and then on again to light the burner.

Depress the switch again to select the GAS mode and the LP gas system will provide power to the refrigerator. The GAS indicator light (C) will come on. Refer to IMPORTANT above if the CHECK indicator light (E) comes on.

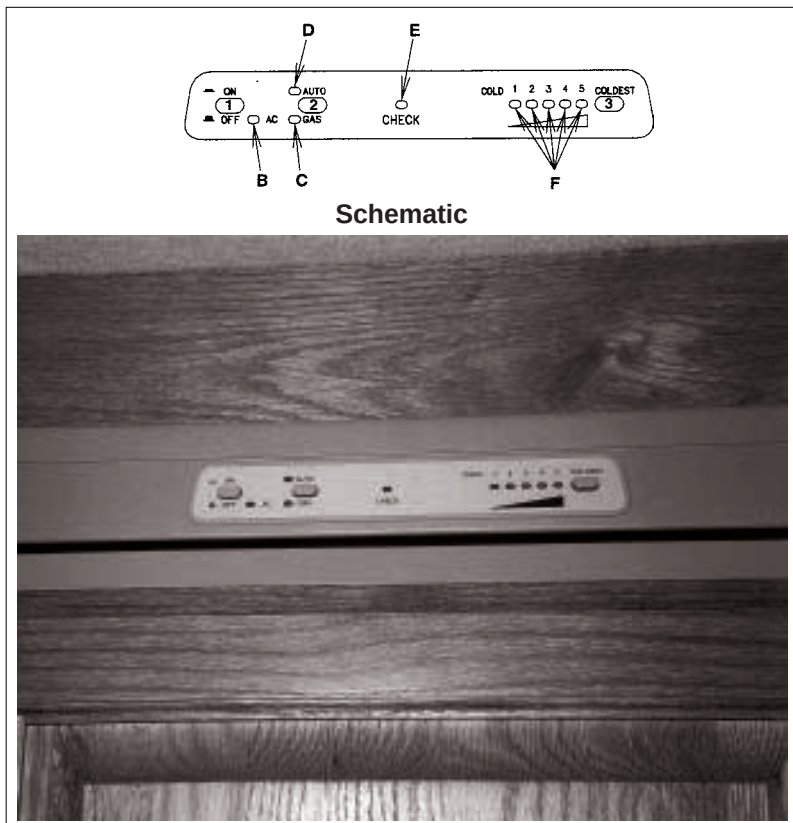


Fig. 4-15 REFRIGERATOR CONTROL PANEL

IMPORTANT

When running the fridge on LP gas, ensure the shut off valve on the LP tanks are open.

3. **Temperature Switch:**
This push button selector switch sets the desired refrigerator operating temperature during operation. Depress the switch once to move the temperature selection to the next setting. The indicator lights (F) will illuminate as the selector switch is depressed to identify the operating temperature selected. Set at the coldest setting for the first couple of hours of operation to cool everything down and then select the mid-range setting.

Refer to the refrigerator operator's manual in the information package for more detailed instructions.

4.11 LIGHT SWITCHES

Many rocker, slider or standard light switches are used throughout the motorhome to turn lights on and off. If there is any confusion as to which switch and light work together, try the switch.



Celing



Wall

Fig. 4-16 LIGHT SWITCHES (TYPICAL)

4.12 COMFORT CONTROL CENTER

A comfort control center is located in the motorhome (living area or bedroom) to control the heating and cooling systems in the vehicle. The control center is customized to the specifications of your vehicle and will control one or more furnaces and air conditioners.

Review the operator's manual in the information package for detailed operating instructions. The control functions include:

1. **Liquid Crystal Display (A):**
This liquid crystal display shows the operator the specific operating parameters of the comfort appliances. The display will change to reflect the varying operating selections by the user.
2. **Mode Selector Button (B):**
This push button switch controls the selection of the system operating mode. Depress the switch momentarily to step the fan, cool, furnace and heat strip. Depress the switch again momentarily to move to the next selection. The mode selected will show in the Liquid Crystal Display.
3. **Fan Speeds (C):**
This push button switch controls the settings for fan speed and mode. Depress the switch momentarily to step the fan through each setting from low, medium, high and auto. Depress the switch again momentarily to move to the next setting. The speed selection will show in the Liquid Crystal Display.
4. **Temperature Selector Buttons (Up and Down) (D):**
These push buttons raise or lower the selected system temperature. Depress the switch momentarily to change the temperature. Continue to momentarily depress the switch to change the desired temperature. The selected temperature will show in the Liquid Crystal Display.
5. **Zone and Stage Selector Buttons (E) Commander Only:**
These push buttons select the individual zones and stages for the system. Depress both buttons simultaneously in a momentary manner to step the control system through its choice of zones and stages. Zones refer to air conditioner cooling areas and stages refer to heating areas. The selected zones and stages will show in the Liquid Crystal Display.
6. **On/Off Switch (F):**
This sliding lever switch is the master ON/OFF switch for the comfort system. Move the lever to the left to turn off and to the right for on.

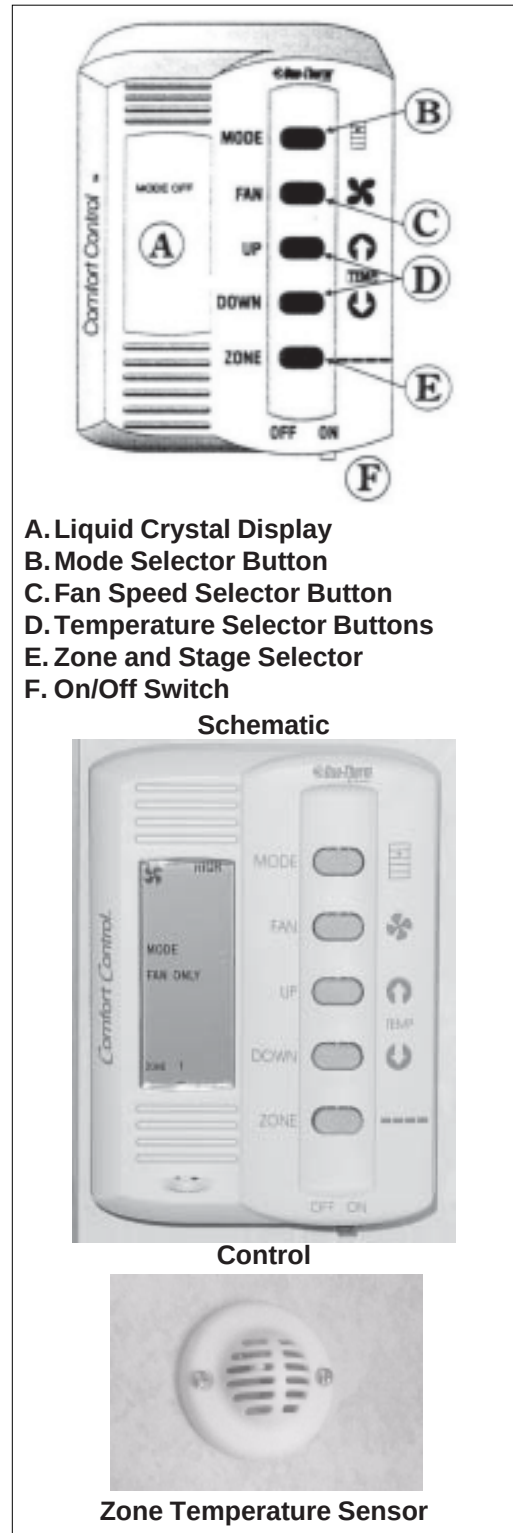


Fig. 4-17 COMFORT CONTROL CENTER

4.13 FURNACE

Each motorhome is equipped with one or two furnaces depending on the configuration. They are controlled by the comfort control center. Review the operator's manuals for the furnace and comfort control centre in the information package for more detailed operating instructions.



Fig. 4-18 FURNACE



4.14 THERMOSTATICALLY CONTROLLED CEILING FAN (Optional on Embassy)

Each motorhome is equipped with a roof vent with a reversible fan to provide a controlled air flow through the vehicle. Use the vent fan in conjunctions with an open window to provide a flow of fresh air into the unit.

Use these controls:

1. **In/Out:**
This rocker switch controls the rotational direction of the fan in the vent. Depress the IN side of the switch for the fan to draw air into the coach. Depress the OUT side for the fan to blow air out. The fan must always come to a complete stop before changing directions.
2. **ON/OFF Fan Speed:**
This 4 position rotary switch controls the power to the fan and the fan speed. Turn the switch to its most counterclockwise position to turn the fan off. Turn the switch to its first, second or third clockwise detents (Position 1, 2 and 3 respectively) to set the fan speeds at low, medium or high. The roof vent must be open at least 3 inches or the internal safety switch will prevent the fan from coming on. The fan must always come to a complete stop before changing directions.
3. **Vent Height:**
This knob controls the position of the vent hood. Turn the knob clockwise to pull the hood down and close it. Turn counterclockwise to raise or open the hood.
4. **Thermostat:**
This rotary switch controls the set point for the system thermostat. Turn the knob to the desired position. Moving the pointer to the red portion of the scale will increase the temperature of the set point for the vent fan to come on. To operate, the vent must be open and fan switch turned to either in or out.

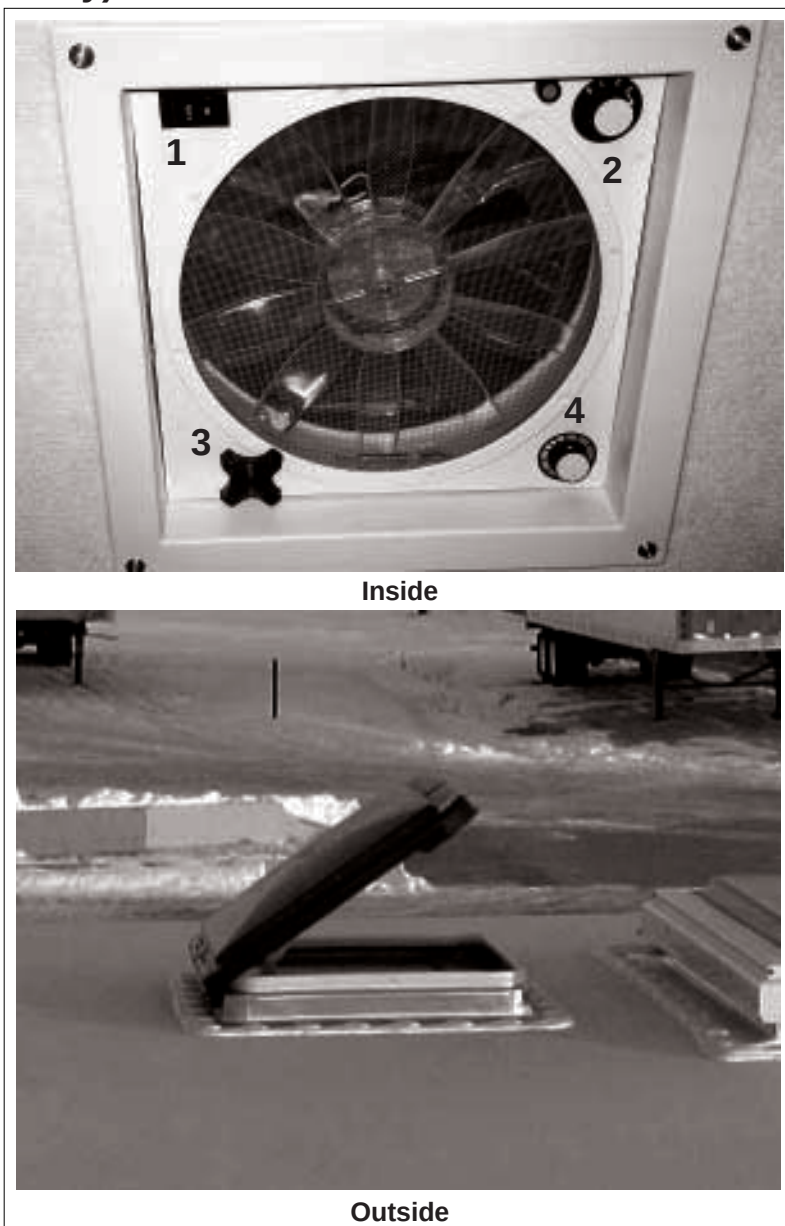


Fig. 4-19 ROOF VENT - EMBASSY ONLY (OPTIONAL)

4.15 WATER / PLUMBING SYSTEM

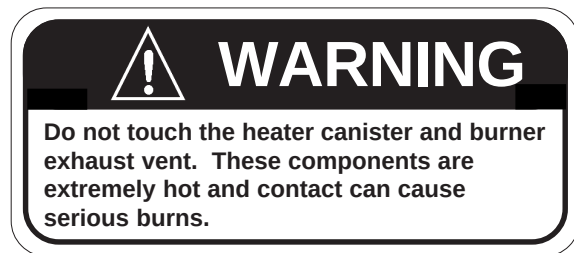
A motorhome plumbing system consists of fresh, grey and black water tanks plus a water heater and plumbing. Be sure to review, understand and follow all operating instructions for the system.

4.15.1 WATER HEATER

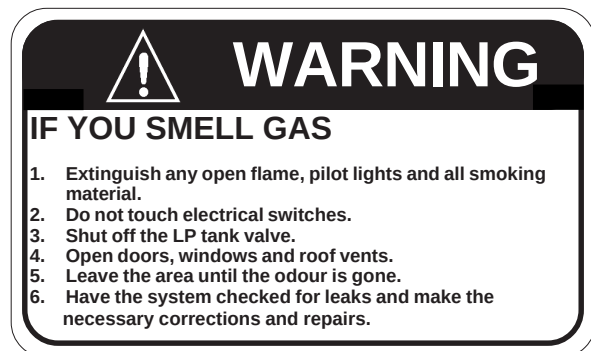
The water heater is located next to an outside wall and is only accessible from the outside. All water heaters are designed to operate using either LP gas, motor aid (Commander only) or 120 volt electric power. Both electric and gas power sources require water in the tank before starting to heat water or the element or tank will burn out.

To select electric power:

1. Open water heater access door on the side of the vehicle.



2. Remove the click pin lock through the rocker switch. (Fig. 4-21)



3. Depress the on portion of the switch to turn the power on to the electric heating element.



Fig. 4-20 WATER HEATER

IMPORTANT

The electric water heating system will operate when turned on only when there is sufficient 120 volt AC power available. If there is no or insufficient power, the system will revert back to gas to heat the water.

4. Refer to operator's manual in information package for more detailed operating instructions.

To Select LP gas only:

1. Depress the off portion of the rocker switch.
2. Secure with click pin
3. Turn the water heater switch on, located on the monitor panel.

The motor aid feature will automatically heat the water in the tank when the engine is running.

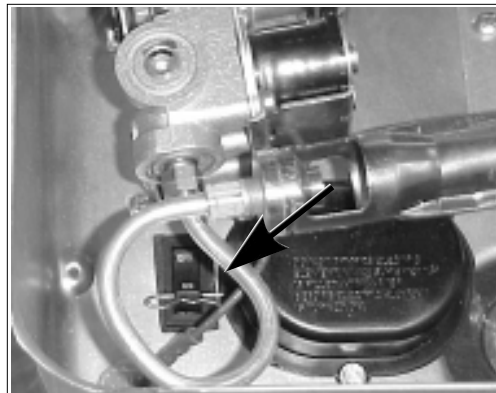


Fig. 4-21 ROCKER SWITCH

4.15.2 WATER HEATER BYPASS

The water heater is equipped with a valve that sets its plumbing circuit for normal or winterize. The valve is accessed from inside the motorhome. The location can vary depending on your specific model

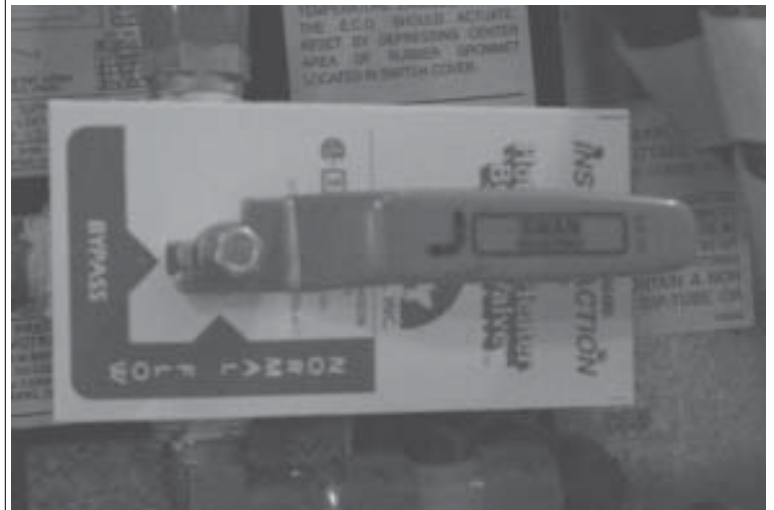
Watch the pointer on the pivot to determine the valve setting.

1. **Normal Operation**
2. **Bypass Operation**

Refer to instruction sheet in information package for more details on winterizing procedure.



1. Normal



2. Bypass

Fig. 4-22 WATER HEATER DIVERTER VALVE

COMMANDER / EMBASSY

4.15.3 WATER PUMP

The water system is equipped with a 12 volt pump that pressurizes the system and moves water to where it is required. A master switch is located above the coach doorway to turn the pump on or off as desired.

In addition, the Commander is equipped with optional auxiliary switches in the intake compartment, kitchen and bathroom.

Depress the switch once to turn the pump on and again to turn it off. Turn the pump on for only as long as required and then turn off to conserve battery power.

It is recommended that the master switch be turned off whenever leaving the motorhome for any period of time or while driving. A slow leak in a faucet or connection could drain both the water tank and the battery.

Switch locations:

1. **Master ON/OFF:**
This switch is located on the master control panel above the coach doorway. The red internal indicator light will come on when this master switch is on. This switch must be turned on for any of the other auxiliary switches to work.
2. **Fresh Water Intake**
(Varies by model, Commander Only):

3. **Kitchen (Commander Only):**

4. **Bathroom (Commander Only):**

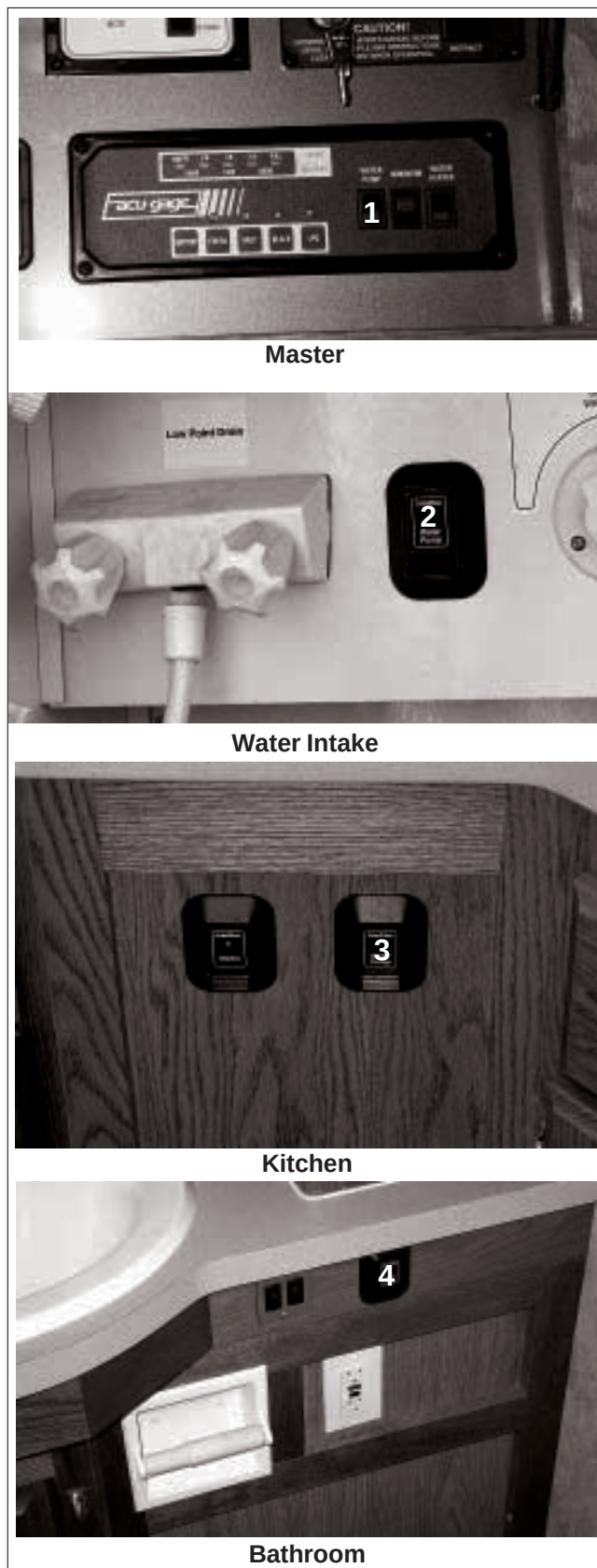


Fig. 4-23 WATER PUMP SWITCHES

4.15.4 UTILITY COMPARTMENT (COMMANDER ONLY)

Access the water system compartment through the door on the left side of the vehicle. Review the operating instructions and control functions before trying to use the system.

1. **Exterior Shower:**

a. **Hot Water:**

This standard water tap controls the flow of hot water to the shower head. Turn clockwise to turn off and counterclockwise to turn on.

b. **Cold Water:**

This standard water tap controls the flow of cold water to the shower head. Turn clockwise to turn off and counterclockwise to turn on.



Fig. 4-24 WATER SYSTEM ACCESS COMPARTMENT

c. **Shower Head:**

This standard flexible hose shower system is mounted on the front of the compartment. Turn the handle and lift the head to use it. Turn the collar on the head to change the spray pattern.

2. **Water Fill Selector Valve:**

This valve directs the flow of fresh water into the internal water tank or directly into the water system and bypass the tank. Turn counterclockwise when filling the tank and clockwise to bypass the tank and plumb directly into the water system.

3. **Water Pump Switch:**

This switch controls the power to the water pump. See section 4.15.3 Water Pump for more details.

4. **Water Line Fitting:**

This fitting and cap is the water input fitting. Always install cap when water line is removed.

IMPORTANT

Use pressure regulator between the outside water supply and the motorhome to eliminate pressure surges and spikes.

5. **Black Water Tank Flush Fitting:**
This fitting directs water directly into the black water tank and can be used to rinse the tank when required. Be sure the sewer valve (black water tank valve) is open before the water is turned on.

6. **Water System Winterizing Valve:**
This diverter valve is used when the water system is being winterized. Watch the pointer at the pivot point. Move the handle to its horizontal position for normal operation and vertical when winterizing the system. Refer to brochure in information package for more detailed instructions.

7. **Potable Antifreeze Line:**
This line is used to draw potable antifreeze into the lines when winterizing the water system. Normally 1.5 gallons of antifreeze is required.

8. **Water System Pump Panel:**
The pump for the water system is mounted in the compartment behind this panel.

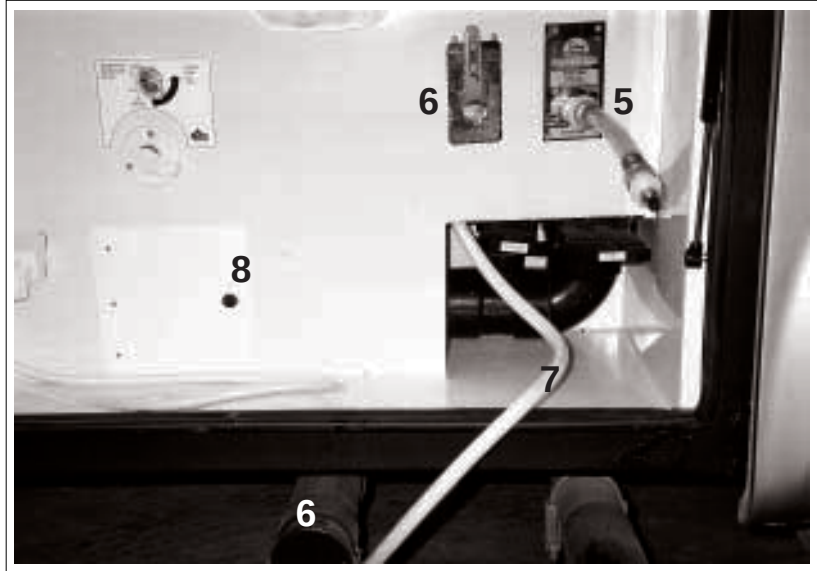


Fig. 4-25 UTILITY COMPARTMENT

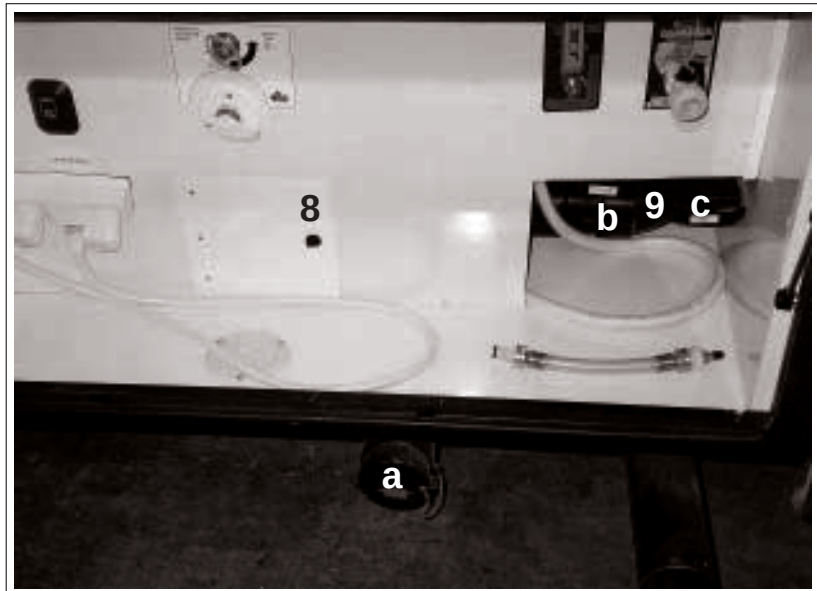


Fig. 4-26 DISCHARGE VALVES

9. **Discharge Outlet:**
 - a. **Discharge Fitting:**
This fitting carries the discharge from the grey and black water tanks. Connect the discharge line to the fitting and route into an approved sanitary disposal system. Install dust cap when the discharge hose is removed.
 - b. **Black Water Tank Valve:**
This is the discharge valve for the black water tank. Pull out to open valve and push in to close.
 - c. **Grey Water Tank Valve:**
This is the discharge valve for the grey water tank. Pull out to open valve and push in to close. Always empty black water tank first and then the grey water. This procedure will use the grey water to rinse the discharge sewer hose.

4.15.5 WATER SYSTEM (EMBASSY ONLY)

Access the water system compartment through the door on the right side of the vehicle. Review the operating instructions and control functions before trying to use the system.

1. **Exterior Shower (optional) (Fig 4-27):**
 - a. **Hot Water :**
This water tap controls the flow of hot water to the shower head. Turn clockwise to turn off and counterclockwise to turn on.
 - b. **Cold Water:**
This standard water tap controls the flow of cold water to the shower head. Turn clockwise to turn off and counterclockwise to turn on.

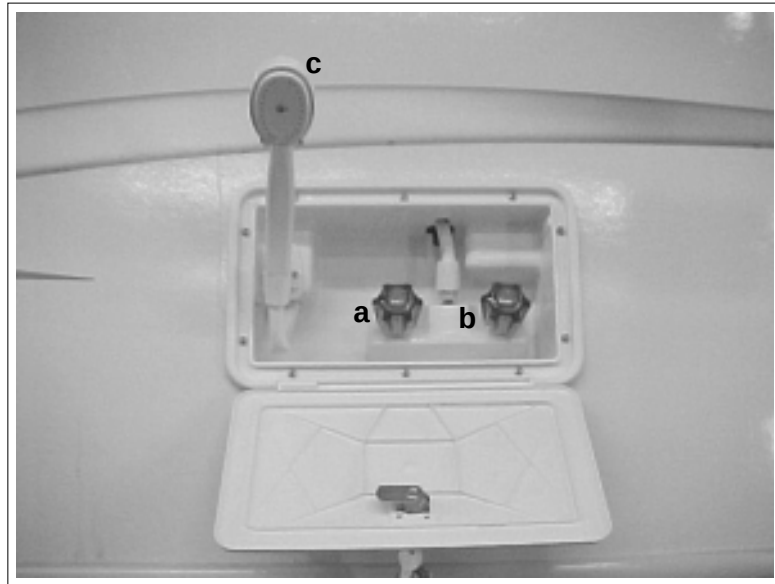


Fig. 4-27 EXTERIOR SHOWER

- c. **Shower Head:**
This standard flexible hose shower system is mounted on the front of the compartment. Turn the handle and lift the head to use it. Turn the collar on the head to change the spray pattern.

IMPORTANT

Use pressure regulator between the outside water supply and the motorhome to eliminate pressure surges and spikes.

2. a. **Water Fill Selector Valve:**
This valve directs the flow of fresh water into the water tank or directly into the water system and bypass the tank. Turn counterclockwise when filling the tank and clockwise to bypass the tank and plumb directly into the water system.
- b. **Water Line Fitting:**
This fitting and cap is the water input fitting. Always install cover when water line is removed.

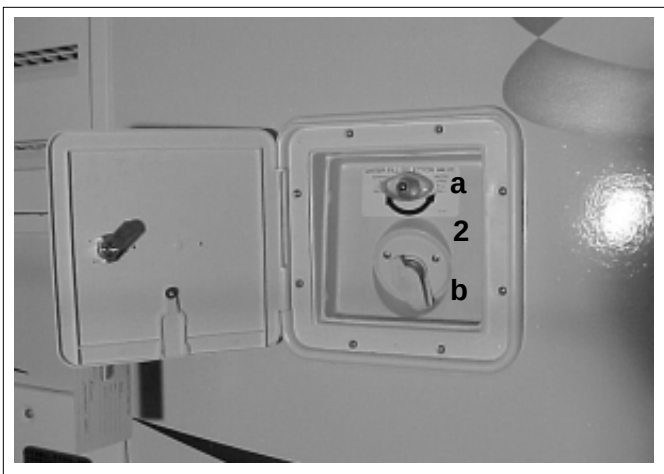


Fig. 4-28 WATER FILL SELECTOR

3. **Black and Grey Tank Discharge Valves:**

a. **Black Water Tank Valve:**

This is the discharge valve for the black water tank. Pull out to open valve and push in to close. Always empty black water tank first.

b. **Grey Water Tank Valve**

This is the discharge valve for the grey water tank. Pull out to open valve and push in to close. Always empty black water tank first and then the grey water. This procedure will use the grey water to rinse the discharge sewer hose.

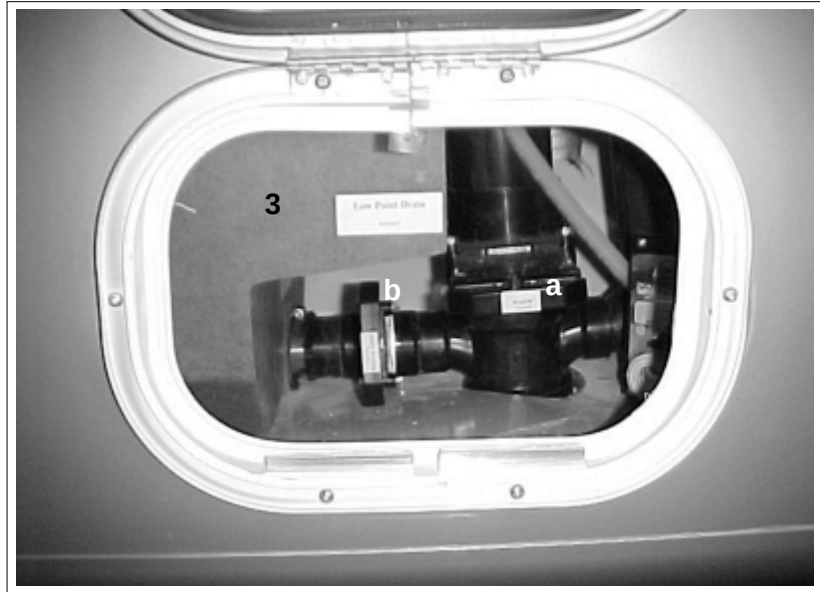


Fig. 4-29 DISCHARGE VALVES

4.16 TV ANTENNA

Each motorhome is equipped with an extendable TV antenna on top of the unit to provide reception at remote locations. Always fully retract antenna whenever vehicle is moved or transported.

1. Extending and Retracting:

This crank controls the position of the antenna assembly on top of the roof. Turn the crank clockwise to raise the antenna and counterclockwise to lower. Always fully extend or retract the antenna. Do not move or travel when the antenna is extended. If parking where debris can accumulate on roof, clean the antenna area before retracting.

2. Rotation:

The antenna can be rotated to align with the signal to provide the best reception. Grasp the crank handle mounting plate on both sides and pull down. Rotate the plate (antenna) until the antenna is set to provide the best TV reception. Always watch the reception on a TV to know when the reception is the best. Always rotate the antenna back to its storage position by aligning the pointer on the plate to the reference mark before lowering it.

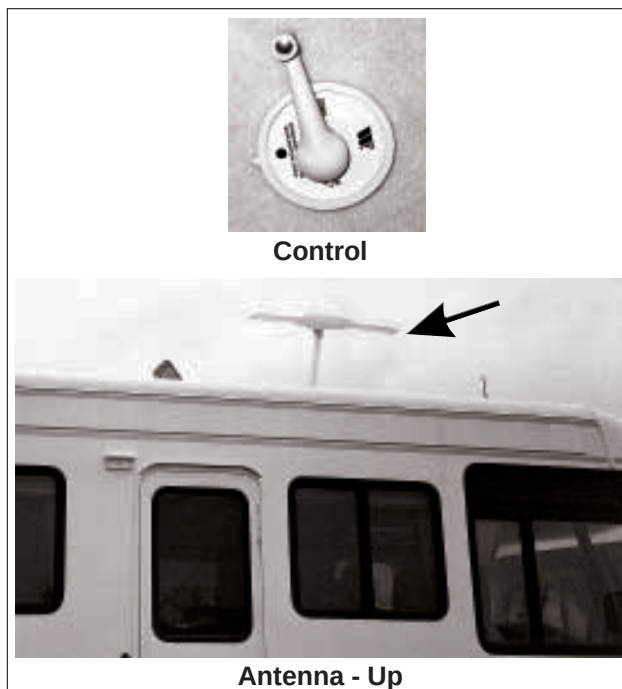


Fig. 4-30 TV ANTENNA SYSTEM

4.17 SATELITE DISH (optional)

The optional Satellite dish is located on top of the unit to provide T.V. reception via Satellite signal. Always fully retract the Satellite dish whenever vehicle is moved or transported.

1. Extending and Retracting:

This crank controls the position of the Satellite receiver assembly on top of the roof. Turn the crank clockwise to raise the Satellite dish and counterclockwise to lower it. Do not move or travel when the Satellite dish is raised. If parking where debris can accumulate on roof, clean the Satellite dish area before retracting.

2. Rotation:

The Satellite dish can be rotated to align with the signal to provide the best reception. Always rotate the Satellite dish back to its storage position by aligning the pointer on the plate to the reference mark before lowering it. Refer to the manufacturer's manual for operating instructions and maintenance information.

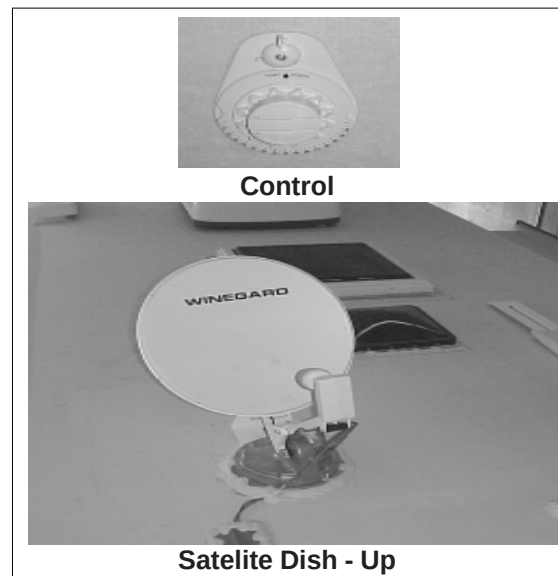


Fig. 4-31 SATELITE DISH SYSTEM

WARNING

Do not travel with the Antenna or Satellite Dish in the "UP" position. This could cause major damage to the roof, or roof top equipment.

COMMANDER / EMBASSY

4.18 BATTERY DISCONNECT

4.18.1 COMMANDER

This switch disconnects the coach batteries from the electrical system when the motorhome is in storage to prevent battery discharge.

Depress the upper portion of the switch to connect the batteries into the electrical system for normal operation and the indicator light will be illuminated. Depress the bottom portion of the switch to disconnect the battery for storage to prevent battery drain. The indicator light will not be lit.



Fig. 4-32 BATTERY DISCONNECT (COMMANDER)

4.18.2 EMBASSY

This key switch located under the hood disconnects the coach batteries from the electrical system to prevent battery discharge when the motorhome is in storage.

Turn the key counterclockwise to turn off and clockwise to turn on.

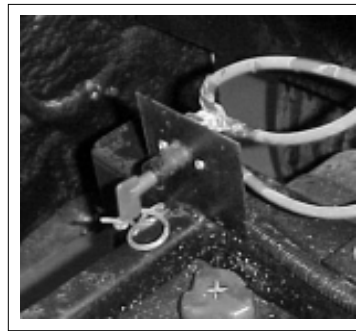


Fig. 4-33 BATTERY DISCONNECT (EMBASSY)

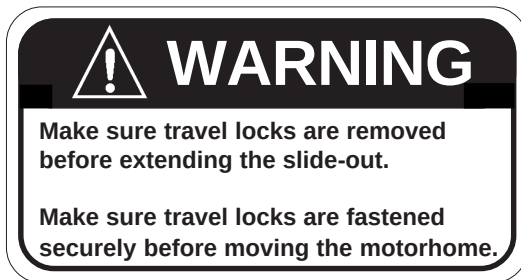
4.19 SLIDE-OUT ROOM (SLIDE-OUT EQUIPPED MODELS ONLY)

1. Control Panel:

This panel controls the operation of the slide-out room. Review the extend/retract procedure before operating these controls.

a. Key Switch:

This key switch controls the power to the pump that supplies pressurized oil to the hydraulic cylinders that extend and retract the room. Always turn the switch off unless moving the slide-out room. See section 9.3.1 for detailed information about the slide out room operation.



CAUTION

Extend levelling jacks on to a firm supporting base and level unit before extending room.

b. Extend/Retract:

This spring-loaded to center neutral rocker switch controls the movement and direction of the slide-out room. Depress and hold the top portion of the switch to extend the room. Depress and hold the bottom portion of the switch to retract the room. Release the switch for it to return to centre and the room will stop moving.

IMPORTANT

Release the switch when the extend/retract cylinders reach the end of their stroke. The pressure of the hydraulic circuit will change when the cylinders reach the end of their strokes and the pump sound will change. Release the switch when the sound changes.

2. Slide-Out Room Locks:

This slide-out room assembly is designed with locks that hold it securely in place for transport. Embassy: located at the ceiling of the room on each end, Commander: located on the floor. Turn clockwise to secure lock and counterclockwise to release. Always secure locks whenever room is retracted prior to moving.



Fig. 4-34 CONTROL PANEL



Left



Right

Fig. 4-35 TRAVEL LOCKS

NOTE

Refer to section 9.3 for detailed operating instructions.

4.20 SYSTEM MONITOR

A system monitor is located next to the doorway.

1. Status LED's:

Five LED's are used to indicate the status of the tanks and battery. The tank scale registers **EMPTY**, **1/4**, **1/2**, **3/4** or **FULL**. The battery charge condition registers **POOR**, **FAIR** and **GOOD**. Read the appropriate scale when the battery or tank switches are depressed.

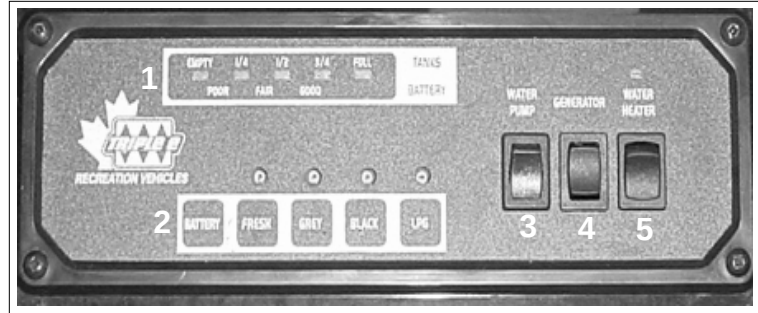


Fig. 4-37 SYSTEM MONITOR

2. System Switches:

Each system is equipped with a switch to activate its own monitoring system. Depress and hold the switch. The system condition will be shown by the LEDs above.

- Coach Battery**
- Fresh Water Tank**
- Grey Water Tank**
- Black Water Tank**
- LP Gas Tank**

3. Water Pump Master:

This rocker switch controls the power to the water pump. Depress the top of the switch to turn the power to the pump on. A red light in the switch will come on when the power is on. Depress the bottom of the switch to turn off and the light will go off. When the power is on, the auxiliary water pump switches can be used to turn the pump on and off (Commander only). See 4.15.3 for more information.

5. Water Heater:

This rocker switch controls the electrical power to the water heater igniter. Depress the top part of the switch and the water heater will ignite. The red light in the switch will go off when the burner ignites.

The red light will remain on if the burner fails to ignite.

4. Generator:

This 3 position rocker switch controls the power to the auxiliary generator.

a. Starting:

Depress the top portion of the switch against the spring load to engage the starter and start the engine. Release the switch when the engine starts and it will return to the run position.

b. Stopping:

Depress the bottom portion of the switch and hold until the generator stops. Release the switch.

4.21 ENERGY MANAGEMENT SYSTEM (EMS) OPTION AVAILABLE - COMMANDER ONLY

This system prioritizes and distributes the power from the shoreline or generator to the appliances or other 120 V users. This system disconnects selected "postpone-able" power draws to eliminate or minimize the tripping of circuit breakers. The selected power draws are automatically turned back on when the higher priority power requirement is over.

The control box is located on the panel above the coach entry doorway and the monitoring microprocessor is mounted in the electrical AC breaker box. No setting or adjusting by operator is required.

Normally the postpone-able power draws are the air conditioner, washer/dryer and electric water heater. Each will be shut down as other demands increase. Refer to the booklet in the information package for more details.



Control Box



30 Amp EMS Breaker Panel

Fig. 4-37 OPTIONAL 30 AMP EMS



30 Amp

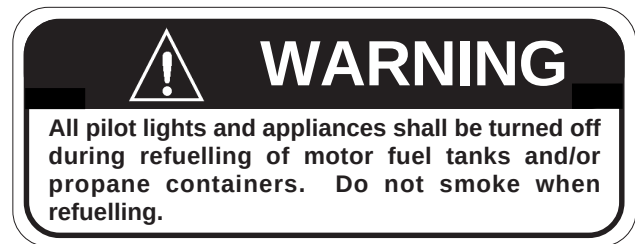
Fig. 4-38 SHORELINE PLUG

5 DRIVING

Always review the chassis manual before starting or moving your motorhome.

5.1 PRE-TRIP INSPECTION

1. Be sure all equipment is serviced and ready for travel.
2. Inspect wheel lugs for tightness (See Chassis manual for torque requirements). Examine all tires for road damage. Ensure that all tires are inflated to proper pressure. (See Department of Transport sticker located on the drivers door inside panel(Commander) on the sidewall to the left of the drivers seat(Embassy)).
3. **Check All Fluids:**
 - a. Engine/Crankcase Oil
 - b. Transmission Fluid
 - c. Power Steering Fluid
 - d. Radiator Recovery System
 - e. Reservoir Level
 - f. Battery Electrolyte Level
 - g. Windshield Washer Reservoir
4. Check oil level in generator power plant (if installed). Refer to Instruction and Maintenance Manual provided by the generator manufacturer for other pre-use requirements.
5. Consult Chassis Manual for recommended list of system checks.
6. Check to see that all lights are in working order.
7. Check the engine compartment for animals. Animals and pets like the warmth of the engine compartment but make a real mess if caught in the belts.
8. Sanitize and fill fresh water tank if required. Turn off the water pump. (Unless water is needed). The water pump should also be turned off when leaving the unit for any length of time.
9. Start the refrigerator a day ahead of time so it will be cold for your trip.
10. Fill LP gas container. Be careful not to overfill. An overfilled LP gas container will cause the gas regulator to fail, and may result in problems with LPG components. Turn off LP gas valve on LP container. Make sure all LP gas controls are turned off (Furnace, Oven, Fridge). Check for LP gas leaks regularly using soapy water.
11. Check that sewer connections are properly stored and all external compartments are closed and/or locked.
12. Be sure all doors are closed and latched, and all loose objects secured (including refrigerator contents).
13. Deodorize waste holding tank. (See Section 12.2.3 for details).
14. Check that all blocks and chocks are removed and/or stowed.
15. Check that there are no obstructions in the motorhome pathway when it moves. Be sure there is proper clearance between adjacent objects to prevent contact.
16. Disconnect and stow shoreline.
17. Check that the fire extinguisher is in good condition and fully charged.



5.2 EMERGENCY EQUIPMENT CHECK LIST

Use this list as a guide to identify the minimum amount of emergency or safety equipment. Take more as appropriate for your travel or personal needs.

1. First Aid Kit
2. Emergency Flares
3. Tool Box and Tools
4. Plastic Bucket
5. Tow Rope or Chain
6. Wheel Blocks or Jacks
7. Water Hose
8. Electrical Cord Extension (100-150 ft./minimum 3 wire/30 amp)
9. Fire Extinguisher
10. Hydraulic Jack and Lug Wrench (Jack not supplied)
11. Spare Tire

5.3 ENTERING VEHICLE

1. Retract side door steps. Be sure automatic step retract system is turned on to retract step when side door is closed.
2. Check that TV antenna is retracted, stowed and secured.
3. Check that room extension is fully retracted and travel locks are in place if so equipped.
4. Fully retract and lock vehicle levelling jacks (if so equipped).
5. Secure all objects in vehicle. Tie, latch or lock all loose objects as appropriate. Unsecured objects can become a dangerous projectile in a sudden manoeuvre or accident.
6. Securely close and lock all doors to prevent intruders and minimize the chance of a door coming open in an accident.
7. Lock the driver and passenger seats in the forward facing direction.
8. Adjust the rearview mirrors to provide the best rearward visibility.
9. Set the drivers seat to provide the desired leg to pedal spacing for your personal comfort.
10. Fasten seat belts low on the torso and be sure they are snug. All passengers should be in a seat that is equipped with a seat belt. All pregnant riders should be in a seat equipped with a shoulder strap for maximum safety.
11. Small children should always be strapped into a car seat facing rearward.
12. Do not carry any passengers unless they are in a seat equipped with a seat belt and the belt is fastened.

5.4 ENGINE OPERATION

Refer to the chassis manufacturer manual for engine starting and stopping instructions.

5.5 DRIVING CHARACTERISTICS

1. Controls:

The motorhome driver controls are automotive type and the steering and braking controls are power assisted to help make driving as comfortable as possible. However it must be remembered that the motorhome is much higher, wider and heavier than a family automobile.

2. Handling:

The motorhome power-to-weight ratio is lower than that of the average automobile. Therefore it is essential to compensate for less acceleration when moving into traffic or when passing another vehicle. Allow extra room to turn a corner and to change lanes. When going underneath a bridge or similar overhang be sure you have sufficient clearance. Although you should check your vehicle spec. sheets, if you have any questions measure the unit. Do not take chances. Leave at least 6 inches of clearance.

3. Mountain Driving:

When driving in hilly or mountainous terrain you should employ different driving techniques than those used when driving under normal, flat conditions.

a. Climbing a Hill:

The transmission is designed to down-shift automatically when required during a longer uphill climb. If you find that the transmission shifts up and down rather frequently, it is a good idea to select a lower gear for the duration of the climb to prevent this repeated shifting. This will prevent unnecessary wear and tear on your transmission.

CAUTION

Observe the engine temperature carefully especially during long climbs. If you notice over-heating, pull off the road and allow the engine to cool off thoroughly before you continue. Fill the recovery tank with coolant if necessary.

b. Descending a Hill:

It is a good idea to select a lower gear on your transmission when descending a hill to avoid prolonged application of the brakes. Extended application of the brakes can cause unnecessary wear and tear and overheating. Under extreme conditions this could cause you to lose control of the vehicle.

A STANDARD RULE OF THUMB:

Use the same lower gear position when descending a hill as you used while climbing the hill.

5.6 DRIVING SAFETY TIP

1. When backing the motorhome, have a person stand to the rear on the driver's side to guide you.
2. Before departing on the trip, check your routes. Remember, some tunnels prohibit motorhomes with LP gas systems.
3. While travelling, **make sure** all occupants use their seatbelts.
4. While travelling, **make sure** all doors are closed and locked and that cabinets, drawers, and loose objects are secure.
5. Instruct your family on what to do in case of fire, and hold fire drills periodically.
6. Maintain proper charge in the fire extinguisher. Inspect the fire extinguisher periodically.
7. Gas and smoke detectors should not be obstructed and should be in working order at all times. Check battery every month.
8. Keep a well stocked first aid kit handy.
9. Keep a tool box handy.
10. Check tire condition and pressure often while travelling. Pay special attention to inside rear duals. Make it a habit to check tire pressures before each trip, and each time you refuel.

5.7 TRAVEL TIPS

As you travel with your motorhome you will learn much from your own experiences. Share with other motorhome owners and learn from them. Read RV, outdoor and camping magazines for camping and travel tips. Here are a few basic suggestions to make your travel and your camping easier and more enjoyable:

1. Know the height and width of your motorhome. Make adequate allowance for clearance.
2. Always fill your water tank with clean, fresh, potable water. Do not use a new hose to fill the tank. It may leave a taste of rubber or vinyl.
3. Conserve water especially when showering. The holding tanks have a limited capacity.
4. Dump sewage only at approved dumping sites.
5. Store all liquids in plastic containers with tight seals.
6. Watch the levels in your holding tanks. Dump regularly to avoid unnecessary build-up and potential odor. After dumping, make sure to add water to the black water tank to prevent solids from settling in the tank. Without adequate liquid in the black water tank, dumping can be difficult, if not impossible.
7. Sleeping bags are a good idea. They take up less storage space than regular bedding and they save on laundry while travelling.
8. Make sure all compartment doors and refrigerator and freezer doors are closed securely. Open these doors carefully after travelling. The contents may have shifted while travelling.
9. Reserve campsites in advance to avoid disappointment.
10. There are legal restrictions in some jurisdictions regarding vehicles with LP gas containers driving through highway tunnels. Check your route carefully as you travel.
11. Be careful not to leave odor-causing food or materials in your motorhome for extended periods of time. Make sure wet clothing and towels are dry before storing.
12. Make sure your fire extinguisher is ready for use and that you know how to operate it.
13. Try to shop for groceries before you "set up camp". This will allow you to relax and not have to leave your campsite after you have set up.
14. While driving, use your mirrors to determine whether you are crowding the center line or the outside edge of the highway. Remember, you are driving a vehicle that requires a driving style quite different from driving the family car.

5.8 QUICK LOADING CHECK-LIST

1. **Bedding:**

- a. Sleeping Bag
- b. Sheets
- c. Pillow Cases and Pillows
- d. Mattress Pads
- e. Extra Blankets
- f. Laundry Bags

2. **Cooking:**

- a. Can Opener
- b. Bottle Opener
- c. Aluminium Foil
- d. Matches
- e. Plastic Bags
- f. Coffee Pot
- g. Storage Dishes

3. **Cleaning:**

- a. Scouring Pads
- b. Cleanser
- c. Glass Cleaner
- d. Dish Soap
- e. Sponge
- f. Laundry Soap
- g. Cleaning Rags
- h. Paper Towels
- i. Garbage Bags

4. **Bathroom:**

- a. Bath/Hand Soap
- b. Bath Towels/Beach Towels
- c. Toiletry Kits
- d. Tooth Brushes/Toothpaste
- e. Shaver/Razor
- f. Toilet Tissue

5. **Baby Needs:**

- a. Car Seat/Child Restraint
- b. Portable Crib
- c. Play Pen
- d. Mattress Pads
- e. Extra Blankets
- f. Laundry Bags

6. **Personal:**

- a. Credit Cards
- b. Traveller's Checks
- c. Cash
- d. Driver's License
- e. Birth Certificate
- f. Sunglasses
- g. Vehicle Registration
- h. Insurance Policies

7. **Pet Needs:**

- a. Food
- b. Leash
- c. Feeding Trays
- d. Vaccination Record

8. **Miscellaneous:**

- a. String
- b. Clothesline
- c. Insect Repellent
- d. Tape/Masking/Duct

9. **Additional Items as per Individual and Personal Tastes and Needs:**

5.9 SEVERE WEATHER INFORMATION

As a motorhome traveller you will find the desire to explore new and out-of-the-way places irresistible. These recreational areas can be vulnerable to unusual and severe weather conditions that could endanger your safety. A few suggestions and safety precautions may help in case you ever find yourself in this situation.

IMPORTANT

All motorhome occupants should be familiar with these safety precautions and be alert to changes in the weather.

1. Be alert! Thunderstorms and heavy rains can occur suddenly and unexpectedly. Listen frequently to weather reports for the area in which you are camping or travelling.
2. When camping near a stream or any body of water leave plenty of space between your motorhome and the stream.
3. Avoid canyons or dry washes during threatening weather. Prepare with an alternate exit. Move to higher ground as soon as it starts raining.
4. Should you get caught in a flash flood, do not attempt to move your vehicle. Abandon it and return to it only after the water has gone down. Never attempt to drive through any flooded area.
5. Heed the warnings and instructions of local authorities.
6. Have on hand enough survival supplies for several days. This should include food, water, first-aid supplies and necessary medications.
7. When you leave home, inform someone of your destination and your schedule. Notify the same people if and when your plans change.
8. **Remember These Terms:**
 - a. **Weather Watch:**
Severe weather may develop in your area. Be prepared for an emergency.
 - b. **Weather Warning:**
Severe weather is occurring or is imminent. Find a safe location immediately.

It is always a good idea when in new and strange territory, to listen to weather information on your radio or TV from time to time so that you will not be caught unaware if and when there is a sudden change in the weather.

6 SAFETY EQUIPMENT OPERATION

Triple E has made every effort to design the vehicle to promote safe driving, use and occupancy. In addition, it has several pieces of safety equipment that the drivers and users should be aware of and trained in their use. Review these instructions with all new people prior to using the motorhome.

6.1 FIRE PREVENTION

Fires can be started in a variety of ways within your vehicle including but not limited to careless smoking, malfunction of appliances or equipment, flammable material on hot surfaces, etc. Fires are best prevented rather than put out. Prevent but anticipate what to do if they occur. Review the following sections with everyone on a regular basis.

6.1.1 FIRE SAFETY TIPS

1. Establish and maintain good housekeeping practices. Never allow combustible materials to accumulate. Make sure you store flammable liquids in approved containers in a well-ventilated space.
2. Make sure you have charged fire extinguishers readily accessible.
3. Avoid using flammable products in the motorhome.
4. Never smoke in bed or when relaxing on the couch.
5. Do not overload electrical outlets.
6. Do not leave cooking food unattended.
7. Keep children away from electrical outlets and LP gas controls.
8. Never use matches to check for LP gas leaks. If there is a fire, get everyone out of the motorhome. If possible, use your fire extinguisher. Close all LP gas valves if possible. Call the fire department and stay a safe distance away from your unit. Do not re-enter your motorhome until the fire officials declare that its safe to do so.
9. Formulate a plan for escape from the vehicle should an emergency arise. It is particularly important that the escape plan be rehearsed with everyone, especially children, who will be travelling in or using the motorhome.

6.1.2 FIRE EXTINGUISHER

1. Function:

- a. Fire extinguishers are designed to put out a fire in its initial stages. Once a fire is out of control and you cannot get within ten feet, it is probably too big to fight with your extinguisher.
- b. Do not discharge your fire extinguisher to test it. Once it is discharged even for a few seconds it will lose pressure and become useless.
- c. Check the pressure indicator on your fire extinguisher periodically and record the inspection date on the tag provided. If it loses pressure, the dry chemical cannot be discharged effectively. If the pointer does not indicate in the green, replace the extinguisher immediately.

2. Operation:

- a. Stay at least 6 feet away from the fire and near an exit. The chemical from the fire extinguisher will shoot at least 10 feet. Stay close to the floor to avoid heat and fumes.
- b. Break the seal; grasp the fire extinguisher firmly holding it in an upright position.
- c. Press the white button. Aim at the base of the fire spraying the entire base area. Don't spray at the smoke or flames.
- d. After the fire is out, watch for "flash-back".
- e. Discharge the fire extinguisher entirely and get it recharged or replaced immediately.
- f. For additional information, check in the manual that is provided with the Fire Extinguisher.



Fig. 6-1 FIRE EXTINGUISHER

6.2 EMERGENCY ESCAPE

Each motorhome is designed with an alternate emergency exit via a window in the sleeping area.

1. **Emergency Exit:**
Release the red latches of the emergency egress window and push out the window. (The egress window has hinges on top).
2. Formulate a plan for escape from the vehicle should an emergency arise. It is particularly important that the escape plan be rehearsed with everyone, especially children, who will be travelling in or using the motorhome.
3. Do not release or open the emergency exits while the vehicle is in motion.



Fig. 6-2 EMERGENCY EXIT LATCHES

6.3 ALARMS

Each motorhome is equipped with an LP Gas, CO and smoke alarm as standard safety equipment. An intruder alarm is available as optional equipment on some models. Refer to alarm manual(s) for more detailed instructions. Keep all alarms in good working order.

Recurring alarm(s) indicate the slow accumulation of LP gas, carbon monoxide, or smoke. Have an authorized service center check system and identify source. Correct problem before resuming use of unit.

6.3.1 LP GAS ALARM

This alarm is located in the lower portion of the coach entry stairwell on Commanders and on the interior lower cabinetry on Embassy's. It sounds when there is an unsafe level of LP gas in the air.

- a. When the alarm sounds, follow the instructions on safety sign next to stove and air out vehicle to silence alarm.
- b. Have a qualified service personnel find the leak and correct the problem before using unit again.
- c. Refer to section 11, LP Gas System and alarm manual for more details.

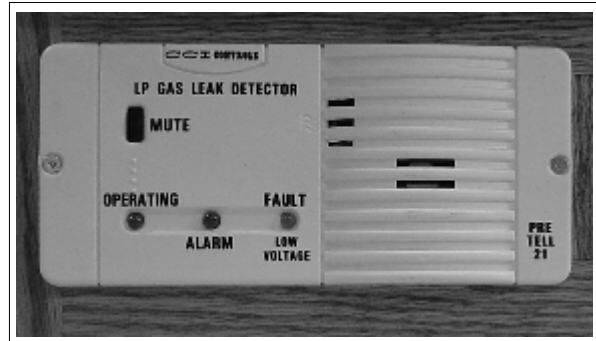
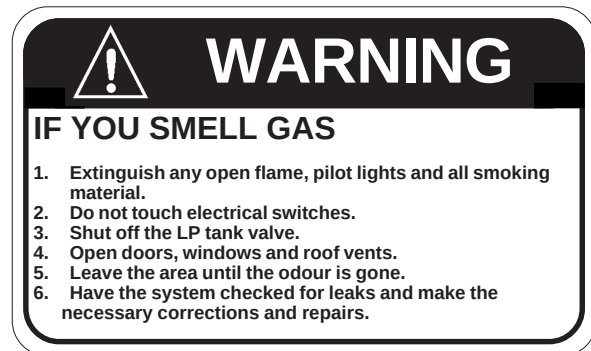


Fig. 6-3 LP GAS MONITOR



6.3.2 CARBON MONOXIDE

ALARM

This alarm is located in the upper cabinets in the living area and sounds when there is an unsafe amount of carbon monoxide in the vehicle.

Position motorhome so wind blows exhaust fumes away from the coach.

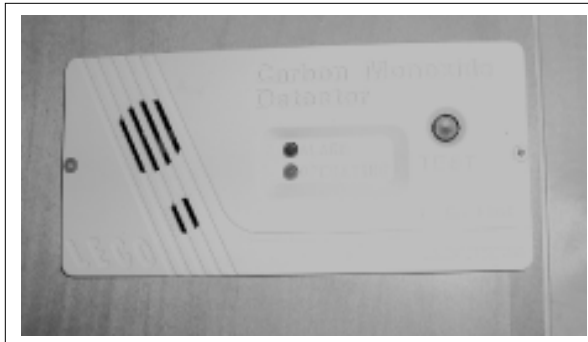
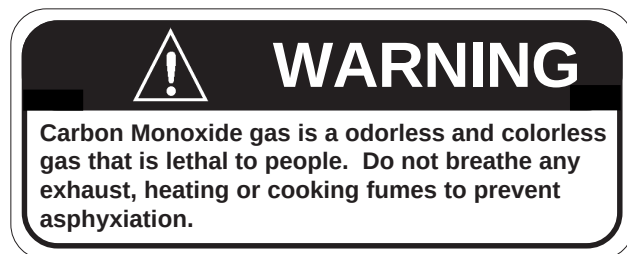


Fig. 6-4 CARBON MONOXIDE MONITOR



When the alarm sounds:

- a. Turn off all fuel burning devices.
- b. Open doors, vents and windows to air out vehicle and silence alarm. Leave the vehicle until the alarm stops.
- c. Have a qualified service personnel check all appliances, etc.. Clean, repair or replace any defective components.
- d. Have a qualified service personnel check all engine exhaust system components. Repair or replace any defective components.

6.3.3 SMOKE ALARM

This alarm is located in the coach and sounds whenever there is smoke in the unit. Always use the exhaust fan, over the stove when cooking. Smoke from cooking may trigger the alarm.

- a. If alarm sounds, check for the presence of a fire. If fire is suspected, leave the vehicle immediately.
- b. Open doors, vents and windows to air out vehicle and silence alarm. Correct and eliminate smoke source.
- c. Check alarm on a regular basis. Check when removing from storage, before trips and weekly thereafter. Depress center button to test alarm electronics. Test alarm sensor by blowing smoke (from safe, fire-free source) past sensor. If alarm does not sound when testing, determine source of problem and correct or replace alarm.
- d. Do not remove battery to silence alarm. When alarm "beeps" every minute, battery is weak and must be replaced. Do not allow battery to go dead. Be sure to replace with recommended battery. Test after battery is replaced.
- e. Clean and vacuum opening on smoke alarm once a month.
- f. Do not try to repair alarm. Replace it.
- g. Smoke alarms are not perfect and do not respond in all situations. The best safeguard is fire prevention.

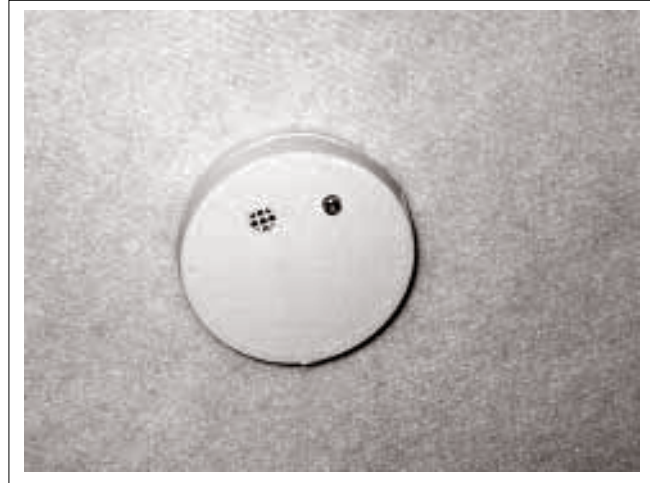


Fig. 6-5 SMOKE ALARM

6.3.4 INTRUDER ALARM (OPTIONAL - COMMANDER ONLY)

The optional intruder alarm system can be connected to the entry doors of your vehicle to protect it from theft or uninvited intrusion.

Arm and disarm it using the remote transmitter supplied with the vehicle. If you need to turn off the alarm all together, push the valet switch located under the dash. This will disable the remote until the valet switch is activated again.

Depress the arm or disarm button on the transmitter as desired. When arming the system, one chirp will sound and the headlights will flash once. When disarming the system, two chirps will sound and the headlights will flash twice.

When the alarm is set off, the siren will sound and the lights will flash. Stop alarm by pressing the disarm button on the remote control.

See owners operating instructions included in the information package.

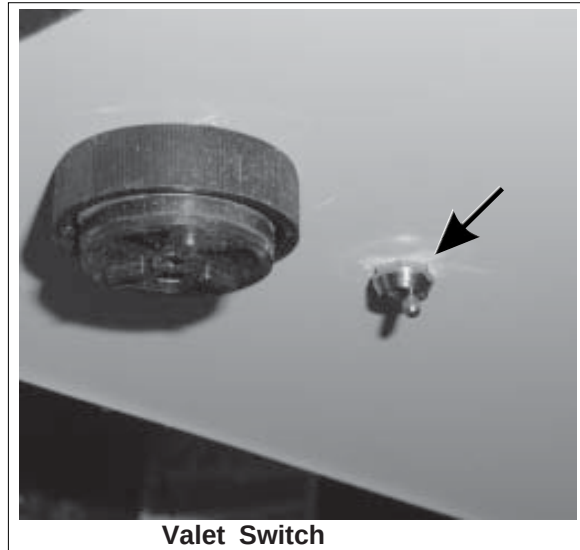


Fig. 6-6 INTRUDER ALARM SYSTEM

6.4 REAR VIEW CAMERA/ MONITOR SYSTEM (OPTIONAL)

An optional rear view camera/monitor system is available to mount on the back of the unit to provide a view of the back of the unit.

1. **Camera:**
The camera is mounted to pick-up a view of the area behind the unit for backing up or a trailer that is being towed.
2. **Monitor:**
The monitor is mounted so it is visible to the driver to assist in backing up or driving.
3. **Operating Modes:**
 - a. **On/Off:**
In this mode, the system operates only when the system is turned on. It is not recommended that it be operated on a full time basis when driving as it can be very distracting.
 - b. **Standby:**
In this mode, the system automatically comes on when the transmission is shifted into reverse to assist in backing up. It goes off when the transmission is shifted back into drive.
4. Refer to the camera/monitor system manual for more detailed operating and system instructions.



Fig. 6-7 CAMERA LOCATION



Fig. 6-8 MONITOR (TYPICAL)

7 TRAVELLING

Your motorhome has been designed to provide the driver and passengers maximum comfort and convenience while travelling safely from one place to another. It is the responsibility of the owner/operator/driver to review the safety section at the front of this manual and the chassis manual before travelling in the motorhome.

7.1 PREPARATION

Review the chassis manual and previous sections of this manual before starting or driving the vehicle.

7.2 BAGGAGE LOADING

Baggage can be loaded on top of the roof or in the bottom of the baggage compartment. Do not exceed baggage area loading or weight capacity and do not exceed vehicle GVWR.

7.2.1 ROOF LOADING

Your motorhome may be equipped with an optional roof rack to accommodate light weight articles. This weight should not exceed 10 lb. per square foot or a maximum of 100 lb.. Be sure each item is secured to the roof rack and that no item extends higher than the DOT limit (normally 13 feet 6 inches).

When the vehicle is parked, a cargo load of 100 lb. plus the weight of a 225 lb. person is permissible for inspection, loading and maintenance purposes.

Again, the combined loaded weight of the vehicle should not exceed the GVWR.

7.2.2 BAGGAGE COMPARTMENTS

Your motorhome is equipped with exterior compartments for carrying or storing baggage or luggage. Each compartment is designed with 165 lb. (75 kg) capacity.

Always secure your baggage and keep the compartment doors locked when travelling.



Fig. 7-1 ROOF LADDER

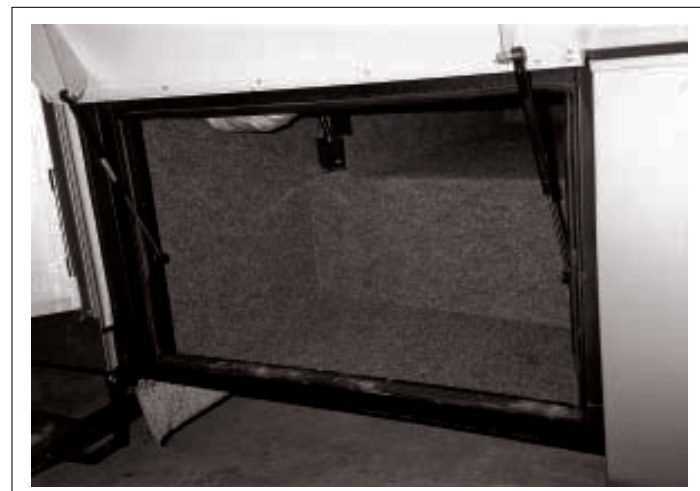


Fig. 7-2 BAGGAGE COMPARTMENTS

7.3 VEHICLE WEIGHT LOADED

When loading the motorhome, make sure that the Front or Rear Gross Axle Weight Rating (GAWR) or the Gross Vehicle Weight Rating (GVWR) and the GCWR (Gross Combined Weight Rating) are not exceeded. Check your Vehicle Certification Label for weights. If in doubt, take your motorhome to a weigh scale and check the front axle, rear axle and total vehicle weight on a scale.

Distribute the weight in the motorhome evenly from side to side to maintain maximum vehicle stability.

IMPORTANT

It is recommended that all holding tanks be emptied before travelling to avoid unnecessary weight.

CAUTION

The loaded weight of the vehicle including passengers, optional equipment, water, fuel, luggage and all other cargo must not exceed the GVWR or GAWR indicated on the Vehicle Certification Label.

7.4 FRONT AXLE TIRE ALIGNMENT

The front-end tire/wheel alignment was done at the factory prior to delivery based on the vehicle being empty and on the weight distribution at that time.

It is recommended that the front end be aligned once you have established a loading pattern according to your needs. After an initial adjustment, it is a good idea to have the front suspension checked periodically and to check tires regularly for abnormal wear.

7.5 MAXIMUM OCCUPANCY

The belted seating positions in your motorhome may be different than the stated sleeping capacity. In the US this is referred to as the Net Carrying Capacity (NCC) or the Cargo Carrying Capacity (CCC) in Canada.

Triple E uses sleeping capacity as opposed to seating capacity to determine the NCC or CCC. You may use all the belted seating positions available in your motorhome provided you stay within the GVWR listed on your Vehicle Certification Label.



7.6 SEAT BELTS

7.6.1 LAP BELTS

Seats intended for passenger use when travelling are equipped with seat belts.

Make sure lap belts are adjusted to a snug fit and as low on the hips as possible for maximum safety and protection.



WARNING

Snug and low belt position are important. In case of collision, the force will be spread over the strong hip area rather than the weaker abdomen area. This could prevent serious injury.

Only seats equipped with seat belts should be occupied when travelling.



Fig. 7-3 LAP BELT (TYPICAL)

7.6.2 SHOULDER/LAP BELTS

The driver and co-pilot seats of your vehicle are equipped with shoulder belts that have automatic locking retractors that allow you to adjust the belt for maximum comfort as well as safety.

Seat belts provide maximum safety only when adjusted and worn correctly when the seat is in the forward facing position. The lap part of the belt should be worn as low as possible with the shoulder strap diagonally across the chest, over the shoulder but not against the neck.

NOTE

If you pull the strap away from the wall too quickly, the automatic retractor may "lock". To free it, relax the tension and then pull it away from the wall slowly.

CAUTION

Make sure all passengers are instructed on the release mechanisms of the seat belts so that they are able to get out quickly in case of emergency.



Fig. 7-4 SHOULDER LAP BELTS



WARNING

Never wear seat belts in any way other than as described. Serious injury may result from improper use of seat belts.

7.6.3 CARE AND CLEANING

1. Be careful not to damage the hardware or the webbing of your seat belt. Take care not to pinch them in the seat or doors.
2. Check belts and hardware from time to time. Replace any damaged parts. Do not modify or remove the belt system.
3. Keep belts clean and dry. If they need cleaning, use a mild soap solution in warm water. Do not use hot water, abrasives or bleach. These may weaken the belts.
4. If you experience a severe impact, check for and replace any damaged parts.

7.6.4 CHILD RESTRAINTS

In most jurisdictions across North America, child restraint systems are a legal requirement. In order to provide the best in safety measures for your child in case of an accident, we make the following recommendations:

1. Purchase a certified child restraint system. Make sure the system conforms to all Canadian and US standards for safety requirements.
2. Make sure that the system will attach to your vehicle conveniently and provide safety for your child every time it is used.
3. Be sure that the restraint system is suitable and adequate for your child's age, weight and height. Check the label for this information.
4. Ensure that the child restraint is installed per the instructions provided with the restraint. If you are unsure please contact the restraint manufacturer.

7.7 MIRRORS

Whether your vehicle is equipped with standard or power electric mirrors, always check the adjustment on your mirrors for maximum rear visibility before driving.

The power electric mirrors (Commander only) may be adjusted using the multi-directional switch located on your front panel. Select the right or left mirror to be adjusted and then press the buttons until you experience the best visibility. When you have adjusted both mirrors for maximum visibility, place the selector switch in the middle, neutral position to cut off the power to the switch. This will prevent accidental mis-adjustment of mirror settings.

The power switch adjustment is intended for fine correction in mirror settings. If you are unable to adjust your mirrors, you may need a coarse adjustment. This can be done by loosening the set screws at the ball and socket of your mirror (see Fig. 7-5). Adjust to the proper settings and then tighten the screws. After this, fine adjustment should be possible.

Your mirrors may also be equipped with defogging or de-icing elements. The ON-OFF switch for the heater mirrors is located near the remote mirror controls.

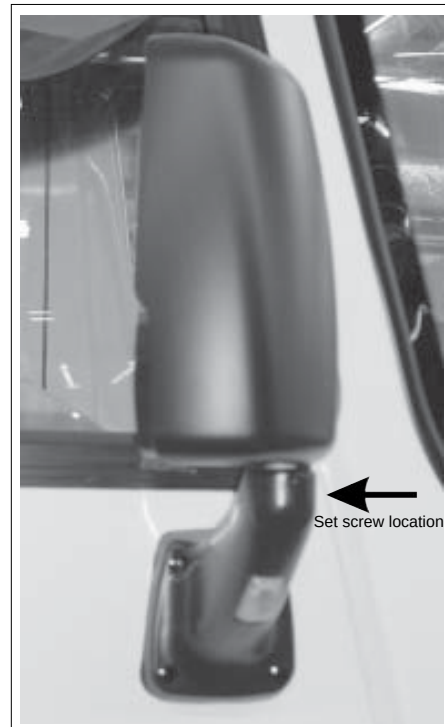


Fig. 7-5 MIRRORS

7.8 FREE STANDING DINETTE (Optional)

Your motorhome may be equipped with a free standing dinette. While travelling, these should always be secured with the harness provided to prevent the table and chairs from moving forward in case of sudden braking or a collision and to keep them from sliding around on the floor causing damage to the flooring.

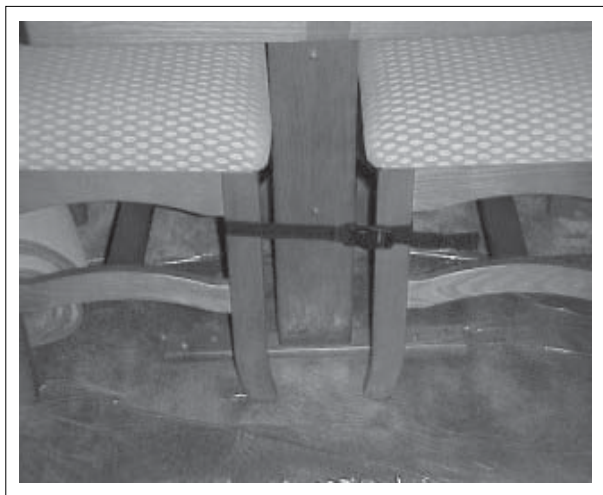


Fig. 7-6 DINETTE HARNESS

7.9 REFUELLING

Always consult your chassis manual to determine whether your motorhome requires gasoline or diesel for the chassis engine.



1. Removing The Fuel Cap:

Rotate the fuel cap slowly and only far enough for the pressure to be released i.e. until any "hissing" sound stops. Then remove the cap.

2. Filling The Tank:

Do not overfill the fuel tank. Fill only until the automatic shut-off valve cuts out. This allows for expansion of the fuel and vapor space as the fuel warms up in your fuel tank.

CAUTION

Overfilling the fuel tank may cause damage to the fuel evaporative emission system.



Fig. 7-7 FUEL CAP

COMMANDER / EMBASSY

3. Fuel Tank Capacity:

Check in the Chassis Manual for capacities.

	Commander	Embassy
Fuel Capacity Gal(l)	75 (284)	75 (284)

4. Fuel Type:

Use only gasoline with this vehicle. The generator uses fuel from main tank but the fuel pick-up line is shorter than the engine pick-up tube, to prevent the vehicle fuel tank from being completely emptied while on site.

8 EMERGENCIES WHILE DRIVING

Your Triple E Motorhome is designed with features that allow the driver/occupants to resolve emergencies or failures when travelling. Review this section to be familiar with the recommended procedure to resolve these conditions or situations. Review this section with all new drivers and before each trip.

8.1 HAZARD WARNING LIGHTS

Each motorhome is designed with a hazard warning light system that is similar to the system on an automobile. Both the front and rear turn signals flash in unison when the system is turned on.

Although the control switch is normally located on the steering column, refer to the chassis manual for details.

It is recommended that the warning lights be used whenever the vehicle is stopped on the side of the roadway. The intermittent flashing lights will alert other motorists to a potential hazard and to take extra care. The system is designed to continue to flash when the switch is on even though the ignition key is removed and you have left the vehicle.

8.2 FLAT TIRE

When you have a flat tire while driving, slow the vehicle gradually and pull off to the side of the road. Slow your vehicle gradually to prevent losing control. Stop on a level firm surface and engage parking brake. Turn on hazard warning lights to alert other drivers to use extra caution when driving in the vicinity.

Refer to chassis manual for instructions on where to place jack under the frame. Review and follow all safety precautions listed.

Remove spare tire from its storage position.

It is recommended that a professional qualified road service be used whenever possible. If this is not possible, follow the instructions in the chassis manual.



Fig. 8-1 SPARE TIRE (OPTIONAL ON EMBASSY)

Be sure the lug nuts are tightened to their specified torque. Always use an accurate torque wrench when mounting the wheel. Check the torque and re-tighten after 25 and 100 driving miles. Check the torque at each oil change.

Safety Reminders:

1. Park the motorhome on a level surface.
2. Turn off the engine and set the parking brake.
3. Turn on the hazard warning flasher.
4. Block both front and back of the tire on the opposite side of the vehicle from the flat tire.
5. If the ground is soft, use a support board under the jack to keep the jack from sinking.
6. Make sure to use only the jacking points described in your chassis owner's manual.
7. Never get any part of your body under the vehicle while jacking or while it is suspended.

8.3 TOWING

1. **Emergency Starting:**

Do not tow the motorhome in an attempt to start it. The powertrain is not designed to transmit torque to turn the engine over for starting.

a. **Battery Booster Switch:**

If the chassis battery does not have sufficient charge to start the engine, depress and hold the battery boost switch to route the coach batteries energy into the circuit to start the engine. Release the switch when the engine starts.

b. **Jump Starting:**

Refer to Section 8.5 "Jump Starting".

2. **Vehicle Break-Down:**

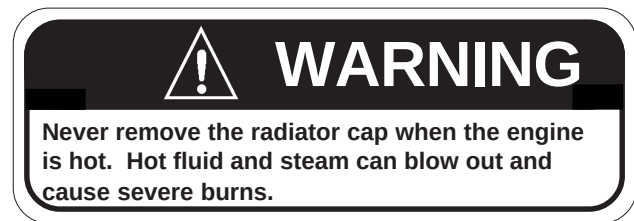
When the vehicle breaks down, it should be towed in for repair by an approved towing service. If the vehicle breaks down on the roadway, pull off the road and stop. Engage parking brakes and turn on the hazard warning lights. Place chocks by the wheels if it is not level.

Call an approved towing service to come and get the motorhome. Be sure to tell the towing service what kind of vehicle it is and its weight, length, width and height. The towing company will then dispatch a proper sized tow truck for your vehicle.

8.4 OVERHEATING

If the engine overheats while driving:

1. Pull off the side of the road and stop immediately.
2. Shut engine off.
3. Check for proper coolant level in the recovery tank. The coolant level should be between the "full" and "add" marks on the tank.
4. **If the coolant level is low:**
 - a. Check for leaks at hose connections, throughout the cooling system. Make sure the belts are tight and that the cooling fan is turning.
 - b. Add coolant to the recovery tank as soon as possible.
 - c. If coolant is being lost due to leaks; if the fan belt is broken or too loose; if the red warning light stays on, stop the engine until the problem is corrected.
5. Check the radiator face for obstructions such as a build up of bugs. Have a professional service shop clean your radiator if obstructed.
6. Once the temperature gauge returns to normal, resume driving, keeping an eye on the gauge. Do Not resume driving until the problem has been corrected and the temperature is normal.



8.5 JUMP STARTING

When the vehicle batteries do not have sufficient charge to start the engine, there are two ways to start the unit:

1. **Battery Boost Switch:**
Depress and hold the switch on the left side of the dash to connect the coach batteries into the starter circuit to use all batteries for starting. Release the switch when the engine starts. This will disconnect the battery from the circuit.
2. **Jump Starting:**
Open the electrical utility compartment and connect the jumper cables to the battery posts. Always connect positive to positive. The negative should be connected from the negative terminal of the battery on the vehicle providing the boost to the chassis of the vehicle needing the boost.



Fig. 8-2 STARTING SWITCH

NOTE

See section 10.3.4 for battery maintenance information.



Fig. 8-3 CHASSIS BATTERY

9 HOME USE

The motorhome is designed to be your home on wheels while traveling in comfort. This section will cover the items that must be done or considered in order to obtain the maximum satisfaction from your unit.

9.1 PARKING

1. **Parking:**

The motorhome can be stopped and parked just like an automobile. However always remember that the unit is longer, wider and higher than a car and more room and clearance must be provided.

2. **Backing Up:**

a. **Mirrors:**

Large mirrors are mounted on both sides of the cab to provide rearward visibility for the drivers. However, they do not provide visibility directly behind or on top (clearance) of the unit.

b. **Rear Camera:**

An optional rear camera/monitor can be mounted to your motorhome but it only provides visibility directly behind the vehicle (refer to Section 6.).

c. **Spotters:**

The best results are obtained when another person helps guide the driver in backing the unit into position. The driver and spotter should agree to the meaning of hand signals before starting the backing process. The spotter should always be in a position that is visible to the driver while backing.

3. Always set the parking brake and place chocks in front of and behind the wheels to prevent the unit from rolling.

9.2 MOTORHOME LEVELLING SYSTEM (OPTIONAL)

The Motorhome must be level for some appliances to function properly.

Your motorhome may be equipped with the optional Hydraulic Levelling System which is designed to make "set up" a lot easier, safer and more convenient.

IMPORTANT

When parking your motorhome on a uneven site, always park with the front of your motorhome facing downhill. This allows you to raise the front of your motorhome in order to level it. When you place your transmission lever in PARK, this locks only the rear wheels. If you raise the rear wheels with your levelling system your vehicle could roll off the jacks or cause undue pressure on the jacks.

When using the levelling system:

1. **Extending Levelling System:**

- a. Shift transmission to the PARK position and set the park brake firmly. Turn the ignition switch to the ACC position.
- b. Turn the system on by pressing the ON button on the HWH hydraulic leveling keypad. The indicator light will glow.



Fig. 9-1 LEVELLING SYSTEM CONTROLS

COMMANDER / EMBASSY

- c. Operate the joy stick controls to level the motorhome.
- d. Check that all jacks are down. Place pads under each jack if ground conditions require it.



Fig. 9-2 JACK EXTENDED

- e. A yellow light indicates that the end or the side of the motorhome is low. Move the Control Lever to raise the corresponding end or side until all the lights are out. If the ground is too uneven, there may not be enough stroke in the jack to raise that side or end sufficiently. In that case you may have to move to a different spot.
 - f. Once your motorhome is level, any jacks not extended may be lowered to the ground to provide additional stability against winds or movement in the motorhome.
 - g. Press the OFF button and turn the ignition off.
2. **Retracting Levelling System:**
- a. Remove all objects from underneath the motorhome and make sure everyone stands clear.
 - b. Move the Jack Levers to the storage/travel position. The jacks will retract.
 - c. Check all warning lights. They should all be off.
 - d. Check underneath your motorhome to make sure all jacks are in the travel position.
 - e. If the system fails and the jacks do not retract as described, check for Trouble-shooting Tips in the Operator's Manual for the system.
 - f. It is now safe to travel.



WARNING

Keep all people clear of the motorhome while operating the Levelling System.

Do not use the Levelling System to support the vehicle for tire changing or service.

CAUTION

Do not rely only on the warning lights to indicate the position of the jack levers. Make sure they are in the up position before moving the vehicle.

For more information on your Hydraulic Levelling System, check in your Operator's Manual. it contains more detailed instructions, precautions and technical information.

9.3 SLIDE OUT ROOM (OPTIONAL)

A motorhome may be equipped with an optional expandable slide out room to provide more living area for the occupants. Triple E supplies a video explaining the operation of the slide out system with each slide out equipped model. Please use this video to familiarize yourself with the operations of this system.

9.3.1 SLIDE OUT ROOM

Follow this procedure when using slide out room:

1. Be sure that motorhome is properly levelled.

IMPORTANT

If the unit is not properly levelled before extending the room, the slide out mechanism may bind and be damaged. The levelling jacks must be down and the lights on the jack control panel on in order for the slide out control to operate.

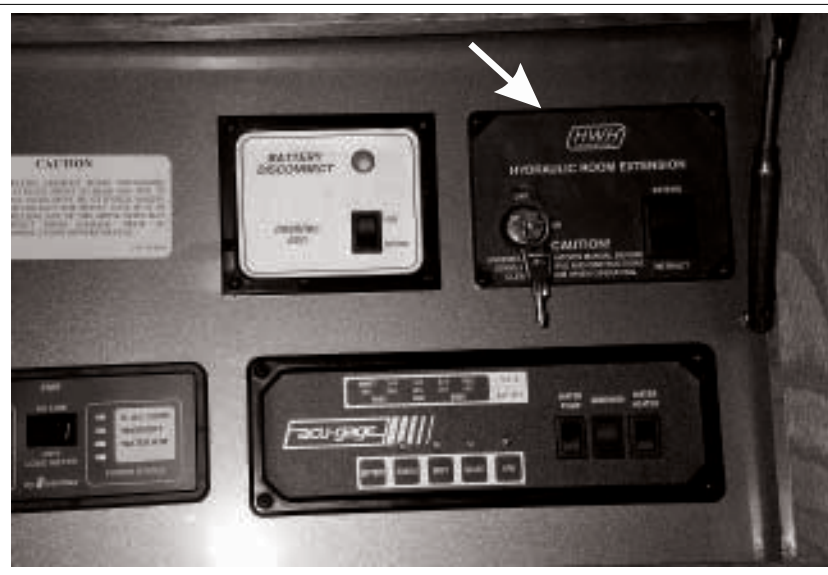


Fig. 9-3 CONTROL PANEL

2. Before operating slide out:
 - a. If this is the first time you are operating the slide-out, take time to view the video on Operating the Slide-Out that you received from your dealer at the time of delivery.
 - b. Level the motorhome following the instructions in Levelling Your Motorhome.
 - c. Make sure there is adequate space beside your motorhome for the slide-out room to be extended.
 - d. Remove the two travel locks located at floor level on a galley slide unit or above the slide-out on all other slide models.
 - e. Check the interior of the slide-out to make sure there are no obstructions on the floor or leaning against the walls. Close all cabinet doors.
 - f. Check the exterior of the unit to ensure all baggage doors are closed and all obstructions are removed.

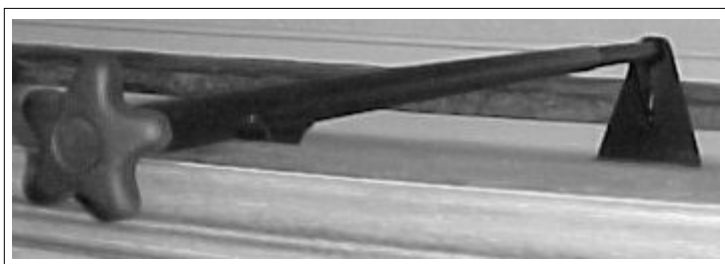


Fig. 9-4 TRAVEL LOCKS

WARNING

Make sure travel locks are removed before extending the slide-out.

Make sure travel locks are fastened securely before moving the motorhome.

IMPORTANT

The hydraulics that operate the slide-out are run by a 12-volt pump. When operating the slide-out, make sure your batteries are fully charged or you are hooked up to 120 volt power. You may also choose to use the Generator (optional) on your motorhome.

3. To Extend:

Turn the power lock key to "on", press and hold the control switch located above the entrance door until it is fully extended. Make sure it is fully extended so that all weather seals will be in their proper alignment.



Fig. 9-5 ROOM EXTENDED

WARNING

Make very sure that everyone is standing clear of the interior and exterior path of the slide-out as you extend and retract it.

CAUTION

Never move your motorhome with the slide-out extended. Severe damage could result. Before moving the motorhome, the slide-out must be securely retracted and all travel locks fastened.

4. To Retract:

Be sure that there are no obstructions inside or outside the motorhome that would prevent easy operation. Turn ignition to accessory position and turn the jack control panel on. Press and hold the control switch on the slide out control until the room is back in place. Install the travel locks and prepare the rest of

the motorhome for travel. Turn key switch on the slide out control to the "off" position and remove the key.

5. Set-Up:

Service by a professional, adjustments, regular maintenance and replacement of weather seals as needed will extend the life and comfort of your slide-out unit.

6. Seals:

Cracked and worn weather seals may allow moisture and dirt to enter your motorhome and cause premature deterioration of the interior. Check the seals carefully in fall and in spring and have them replaced if necessary.

Extensive travel and use in severe weather conditions may cause a more rapid deterioration of some components, especially weather seals. In some extreme circumstances these may need to be replaced.

9.3.2 SLIDE OUT ROOM EMERGENCY OPERATION

The slide out room and optional bedroom slide out can be manually retracted in case of system failure. Refer to the Triple E supplied video and the HWH or Power Gear manual for further information.



Fig. 9-6 WINCH ANCHORS

9.4 SLIDE OUT ROOM TROUBLESHOOTING

1. **Low Battery Voltage:**
 - a. The most common cause of malfunction is low battery voltage. To ensure adequate power, take the following steps:
 - b. Run the motorhome engine while operating the slide-out. This will ensure that the engine alternator is delivering extra charge to the batteries, or
 - c. Connect your shoreline to an external 120-volt power source. This will activate the converter and charge the batteries, or
 - d. Reduce the electrical load to a minimum by shutting off all 12-volt lights and appliances.
2. **Sticking or Binding:**
 - a. If the motorhome is not levelled and stabilized properly, the tracking system may bind. Make sure the motorhome is level and stable. Level the motorhome prior to extending the slide, to ensure it works smoothly.
 - b. If the slide-out has been in one position (retracted or extended) the seals may have a tendency to stick. DO NOT use petroleum products on these seals as they can cause premature seal deterioration.

9.6 PROLONGED OCCUPANCY

Motorhomes are generally designed for recreational and short-term occupancy. In case of extended occupancy there are a few things to keep in mind regarding humidity and condensation. Excessive moisture inside the motorhome can cause water stains and mildew on the upholstery, the wall materials and the woodwork. Moisture condensing on the windows is a sure sign that the humidity inside your motorhome is too high. To reduce moisture inside your motorhome we suggest the following:

1. Open windows and vents. This will allow fresh air to flow through and reduce the moisture content.
2. Reduce moisture released inside the motorhome. Run the bathroom fan when using the bathroom and turn on the range hood fan while cooking. This will remove unnecessary moisture from your motorhome. Do not hang wet towels and swim wear inside the motorhome to dry.

9.5 CENTRAL VACUUM SYSTEM - (OPTIONAL ON COMMANDER ONLY)

Your Commander can be equipped with an optional central vacuum system eliminating the need for a portable unit.

This unit operates on the 120 volt system requiring that you be hooked up to shore power or run it off the generator.

Check the system regularly to make sure the vacuum bag is not full. Failure to do adequate maintenance will affect the performance of the vacuum. Check with the System Manual in your package for more detailed information and instructions on the proper use and function of this system.



Fig. 9-7 CENTRAL VACUUM

10 ELECTRICAL SYSTEMS

Your Motorhome is equipped with two electrical systems operating on separate voltages - a 12 Volt DC System and a 120 Volt AC System.

The 12 Volt DC System draws its power either from the engine's charging system while driving or from the coach batteries when parked. An isolator solenoid separates the two battery systems to prevent the engine batteries from being drawn down and it combines the two battery systems when either battery system is being charged.

The 120 Volt AC System operates either from the optional 120 Volt generator installed in your motorhome or from the outside shoreline connection.

All 12 volt systems operate through a single power converter control center to provide power to all 12 volt systems throughout your motorhome.

10.1 120 VOLT AC SYSTEM

When connected to an outside electrical utility such as that provided by most campgrounds or when running your 120 volt generator, the converter supplies 12V power and also charges coach batteries. All equipment that normally is powered through the battery system will now get its power from the converter.

Some equipment, however, depends entirely on 120 volts from an outside connection or from the optional 120 volt generator. These include:

1. Roof Air Conditioners
2. Refrigerator (when set to 120 volt)
3. Microwave Oven
4. Ice Maker
5. Central Vacuum
6. All 120 Volt Electrical Outlets
7. Coffee Maker
8. Energy Management System

10.1.1 EXTERNAL POWER CORD (SHORELINE)

The external utility power cord (also called the "shoreline") is stored in the compartment on the left (driver's) side of the motorhome.



Commander



Embassy

Fig. 10-1 COACH BATTERY LOCATION



WARNING

Do not connect the external power cord until you have checked with the owner/attendant of the campground as to proper polarity and grounding.

Improper grounding or reverse polarity can cause component failure, injury or death.

To connect your motorhome to an external power source, pull the cord through the cord hatch and plug it into the proper receptacle. Always ensure some slack is present in the cable.

COMMANDER/EMBASSY

10.1.2 POWER CONTROL CENTER - COMMANDER ONLY (OPTIONAL)

This panel contains the fuses for the 12 volt system, circuit breakers for the 120 volt system. 120V power to 12V DC converter is mounted in compartment behind the panel. Each system handles different circuits in the motorhome.

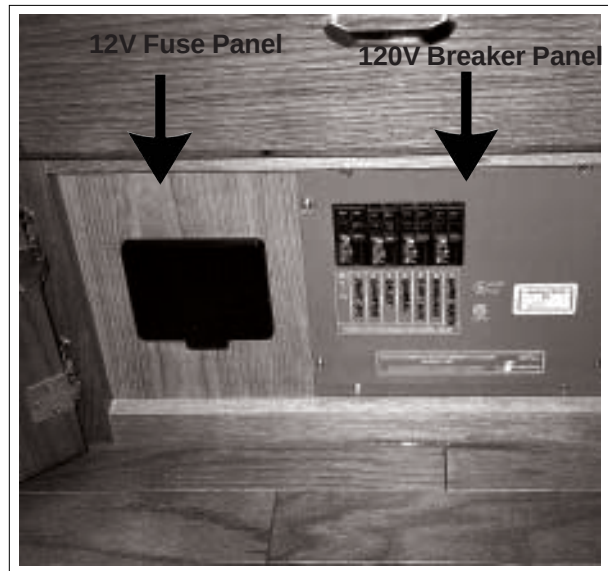


Fig. 10-2 POWER PANEL (OPEN DOORS)

10.1.3 120-VOLT CIRCUIT BREAKERS

The breaker panel protects all 120-volt equipment and components in the motorhome from overload, from a short in the wiring or a short in the component itself. This cuts off the flow of electricity in the system and prevents damage or fire.

If a breaker “trips”, allow a brief “cool down” period and then reset the breaker by turning it OFF and then ON. If a breaker “trips” again, this could mean that there is a short in the wiring or in the equipment and both should be checked and serviced by a qualified technician.

There is a singular panel switch which protects the entire electrical system. Become familiar with the locations of the main 120v breaker and check it first if electrical problems should be experienced.

Refer to control panel manuals for more information.



Commander



Embassy

Fig. 10-3 120-VOLT CIRCUIT BREAKERS
ELECTRICAL PANEL SHOWN

10.1.4 GROUND FAULT CIRCUIT INTERRUPTER (GFCI)

Various outlets in the motorhome, particularly those near sinks and water supplies, are connected to a GFCI which is a very sensitive circuit breaker that will protect you from electrical shock if a ground fault develops. If and when this breaker trips, unplug all appliances on that circuit and press the reset button on the outlet.

If the GFCI keeps tripping have the problem investigated and repaired by a qualified technician before using it again.

Depending on the floor plan in your vehicle, you will find a GFCI outlet in the bathroom and outside receptacle.

Please note that on some models the GFCI circuit in the bathroom will trip when a fault occurs at an exterior plug. Both plugs are GFCI protected through the bathroom circuit. If the exterior plug does not work, check the bathroom GFCI receptacle.



Fig. 10-4 GFCI OUTLET (TYPICAL)



WARNING

The GFCI will not completely eliminate all electric shock. Small children or persons with a heart condition should be extra cautious and could still be injured even though protected by a Ground Fault Interrupter.

10.2 AUXILIARY 120 VOLT GENERATOR (OPTIONAL)

Refer to the Generator Owner Operator's Manual for more detailed instructions.

10.2.1 GENERATOR SAFETY

1. Electrical:



WARNING

Extreme care and caution should be exercised when handling the generator and its components. Carelessness can be dangerous and even fatal.

Never touch any electrical leads, equipment or appliances when your hands are wet or when you are standing on wet ground or in water.

Any repair of the generator should be done by authorized service centers only. Never attempt to repair it yourself.

Plug in the power cord only when the generator is off.

2. Asphyxiation:



WARNING

All internal combustion engines produce carbon monoxide (CO) gas fumes when running. This gas is poisonous, colorless, odorless, tasteless and lighter than air. These gases can readily be drawn into your motorhome. Take the following precautions when running any engines.

- a. Do not run the generator and a ventilator fan at the same time. This could draw gases into the motorhome.
- b. Do not open windows or ventilators on the side where exhaust pipes are located.



Fig. 10-5 GENERATOR

- c. Park so that winds will carry gases away from the vehicle. Be aware of potential gas fumes from other nearby vehicles.
- d. Do not operate the generator if there is any obstruction such as vegetation, snow, buildings, etc. which could deflect gas fumes under or into the motorhome.

IMPORTANT

Check the oil level regularly during frequent use of the generator. Refer to the Manufacturer's Manual for specific information.



WARNING

Never check generator oil level while generator engine is running.

10.2.2 GENERATOR OPERATION

1. Controls:

The generator switches are located:

- On the dash board, within easy reach from the driver's seat.
- Above the main entrance door, part of the main control panel.

The generator starter does not draw current from the engine batteries so the ignition does not have to be on.

2. Starting:

- See Generator Manufacturer's Manual for specific instructions.
- For Embassy, plug in the power cord into the generator receptical in the power cord compartment. (Fig. 10-7) On the Commander, the switch is done by an automatic power transfer switch. (See Section 10.2.3)
- Disconnect all electrical loads. (Turn off all lights, appliances, equipment, etc.).
- Press generator start button, hold until engine is running, then release.
- Wait for engine to run smoothly before turning on lights and appliances.
- Be familiar with the output capacity and capability of your generator.
- Be careful not to overload the generator. See your manual for information.

CAUTION

Overloading the generator for long periods of time can cause high temperatures that could result in damage to the generator windings. Keep electrical loads within the wattage ratings specified in your manual.

3. Stopping:

- Turn off lights and all appliances before shutting off engine. Let the engine run at no-load for a few minutes to allow the engine to cool down.
- Press the OFF switch and hold until engine comes to a complete stop.

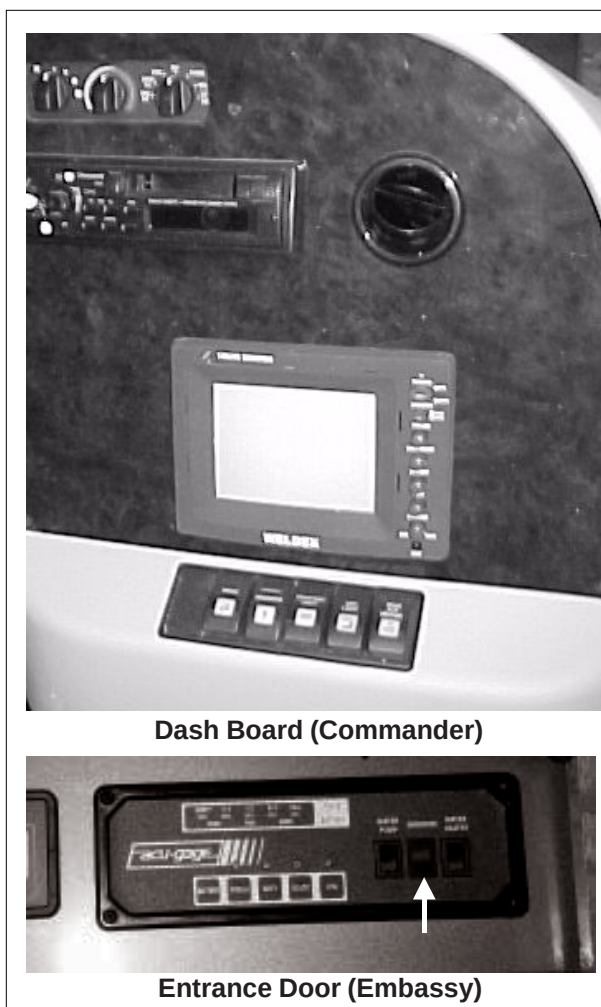


Fig. 10-6 GENERATOR CONTROLS



Fig. 10-7 EMBASSY POWER CORD

10.2.3 AUTOMATIC POWER TRANSFER SWITCH (COMMANDER ONLY)

This Commander model is equipped with an automatic power transfer switch that transfers the electrical load between the shoreline or generator power source. It automatically transfers all the load to shoreline whenever it is plugged in. The shoreline must be unplugged to utilize power from the generator.

When the generator is started, the transfer unit bypasses all electrical loads for 30 to 45 seconds to allow for easy starting. Then when the generator is running smoothly, the electrical load is applied.

When the shoreline is plugged in to an outside power source the transfer unit automatically switches away from the generator to the shoreline. If you wish to use the generator only, unplug the shoreline power cord.

10.2.4 GENERATOR REFUELLING

The generator fuel pick-up tube is located within the main fuel tank. This fuel pick-up is shorter than the engine pickup tube, to prevent the vehicle from being without fuel while on site.

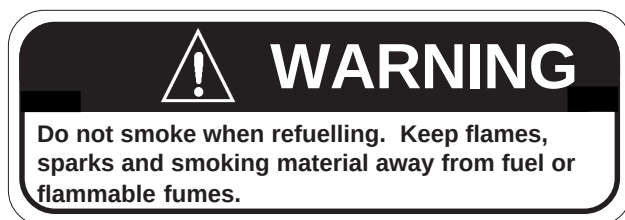


Fig. 10-8 GENERATOR REFUELING (GAS ONLY)

10.3 12 VOLT DC SYSTEM

The DC voltage system in your motorhome consists of two separate and yet connected battery systems:

1. The automotive batteries
2. The auxiliary or motorhome batteries

10.3.1 AUTOMOTIVE BATTERIES

These are used to operate the starter, the automotive accessories and all the controls found on the instrument console. Included are the auto heater fans, the exterior lights, the horn, speed control, windshield wipers, etc..

It is recommended that the automotive battery cables be disconnected when storing the unit for an extended period of time.

IMPORTANT

Removing battery cables from the automotive (chassis) battery can clear the engine/transmission logic modules. These modules will recalibrate themselves once the vehicle is reconnected to the 12 volt system and the engine is started.

10.3.2 AUXILIARY BATTERIES

These supply power to all the 12-volt lights and equipment in the living area of your motorhome. Included in this would be vent and exhaust fans, 120-volt generator starter, water pump, furnace fan, interior lights, holding tank and water level gauges, etc.. These batteries may provide starting power to your engine in case the automotive batteries are dead. Refer to "Auxiliary Start Switch" in this case.

These batteries are "deep cycle" RV batteries designed to provide power over a long period of time and to stand up under the frequent drain and recharge conditions of a camping vehicle.

The motorhome has an easy access Auxiliary battery disconnect. On Commanders, this disconnect is located in the overhead cabinet above the entrance door. By switching this disconnect to the store position, all 12-volt coach accessories, lights, and appliances will be disconnected. On the Embassy a manual switch is located under the front hood.



Commander



Embassy

Fig. 10-9 BATTERY LOCATION



Fig. 10-10 AUXILIARY BATTERY DISCONNECT (COMMANDER ONLY)

10.3.3 12 VOLT COACH FUSES

All 12-volt circuits are protected by either a circuit breaker or a fuse in the control panel. When a breaker trips or a fuse blows, shut off all appliances or lights on the affected circuit and reset the breaker or replace the fuse with a new one of the same amperage. The label on the panel identifies both the fuse amperage and the applicable circuit.

The fuse panel is located next to the circuit-breaker panel, below the refrigerator.

10.3.4 BATTERY MAINTENANCE

Your batteries are reservoirs of 12-volt electrical energy. Whenever energy is removed from the battery it has to be replaced in order for the battery to continue functioning. This energy is restored by the engine alternator whenever the engine is running or by the RV charging system when plugged into a 120-volt power source.

1. Problems:

Two conditions can destroy the function of a battery. One is called sulphating in which a layer of sulphate crystals collects on the lead plates inside the battery. This can happen when a battery is stored in a discharged state. This situation requires replacement of the battery. The second is freezing. A battery must be kept at almost full charge to prevent the liquid electrolyte inside the battery from freezing.

2. Prevention:

- Disconnect the battery cables during long periods of storage.
- Hook up a battery charger at least once a month during long periods of storage.

3. Long Term Storage:

If you do not intend to use your motorhome for a longer period of time it might be a good idea to remove the batteries from the motorhome and store them in a cool dry location on a wood or rubber pad. The batteries should be charged once a month in order to prolong their life.

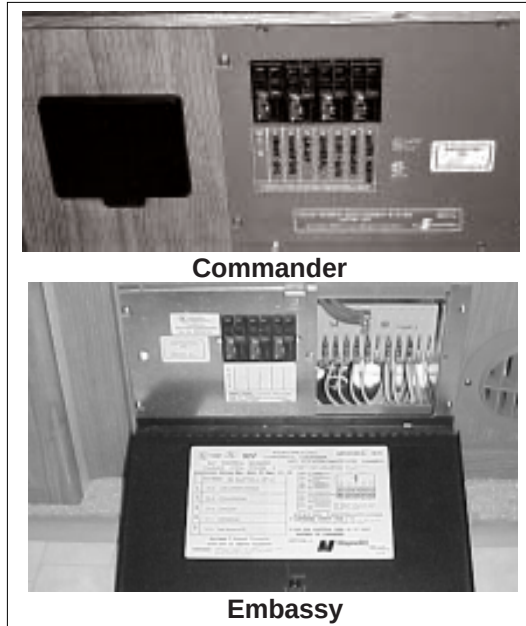


Fig. 10-11 FUSE PANEL

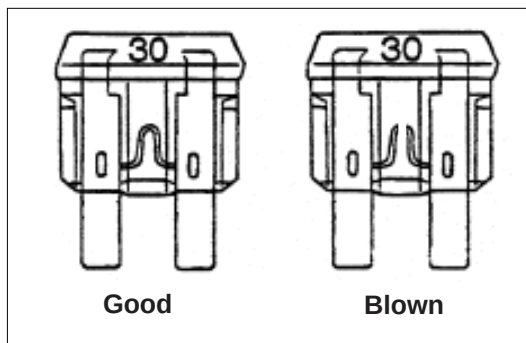


Fig. 10-12 FUSES

4. Additional maintenance suggestions:



WARNING

Do not allow battery electrolyte to contact skin, eyes, fabrics, or painted surfaces. The electrolyte is a sulphuric acid solution which could cause serious personal injury or property damage. Wear eye protection when working with batteries.

- Check the external condition of the battery monthly. Look for cracks in the cover and case.
- Make sure batteries are always securely fastened down.
- Make sure battery clamps are tight and free of corrosion.



- d. Keep the battery and terminals clean. Accumulations of acid film and dirt may permit current to flow between the terminals and discharge the battery.
- e. To clean the battery, wash it with a diluted solution of baking soda and water to neutralize any acid present, then flush with clean water. Foaming around terminals or on top of the battery is normal acid neutralization.

NOTE

Make sure you don't allow any baking soda solution to get into the battery. This can neutralize the battery acid.

- f. Dry the cables and terminals before reinstalling them, and don't use grease on the bare metal inside the cable terminals to prevent corrosion. Grease is an insulator. Electricity will not flow through it. A plastic ignition spray will protect the terminals after you have cleaned and reinstalled them.
- g. Whenever batteries are removed and replaced make sure the positive and negative cables are attached to the correct terminals. (Positive to positive and negative to negative). The same is true when using a "booster battery" or a charger. If you use a "fast charger", disconnect the cables from your battery. **Do not** attempt to recharge a frozen battery.
- h. If you do not have maintenance-free batteries, check the battery fluid level and fill with distilled water if necessary. **Do not overfill.**
- i. Have the specific gravity of the battery fluid checked when you have your vehicle serviced.

10.3.5 BATTERY CONDITION METER

You will find a gauge on your control panel which tells you the level of charge in your coach or auxiliary batteries.



Fig. 10-13 BATTERY CONDITION METER

10.4 TRAILER WIRING CONNECTOR

Your motorhome is ready for trailer or car towing. It has a wiring connector plug at the back for quick hook-up.

Refer to the labeled diagram of the various terminals in the plug. These are standard for all 7-pin trailer plugs.

If you intend to tow a trailer with electric brakes a brake controller is required. This can be installed by your dealer.

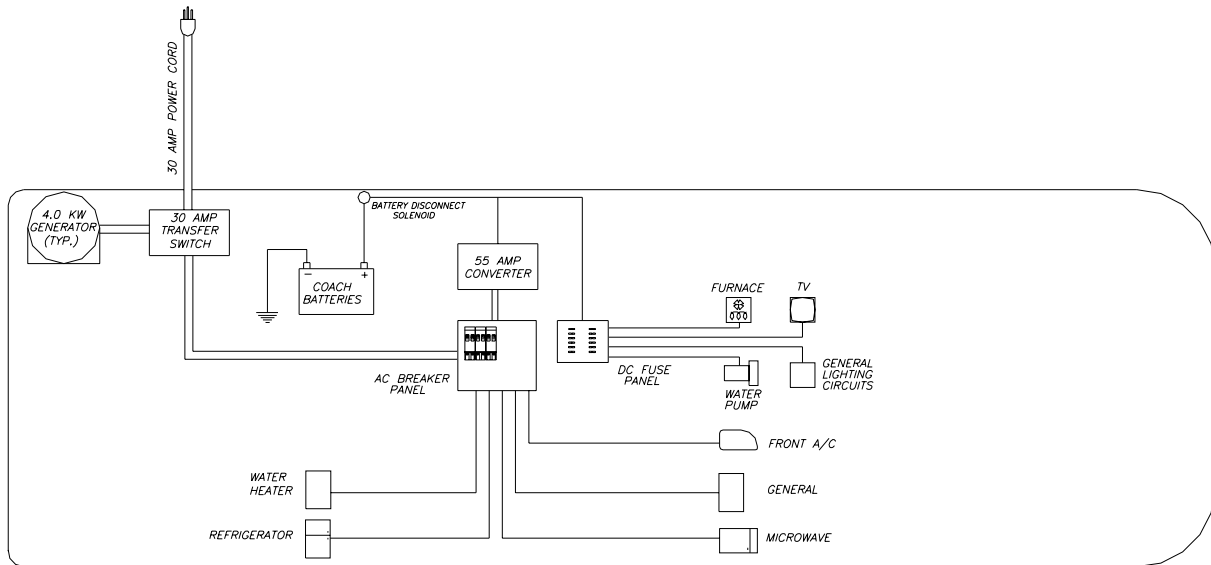
If you intend to tow a trailer with electric brakes a brake control kit is required. This can be installed by your dealer.



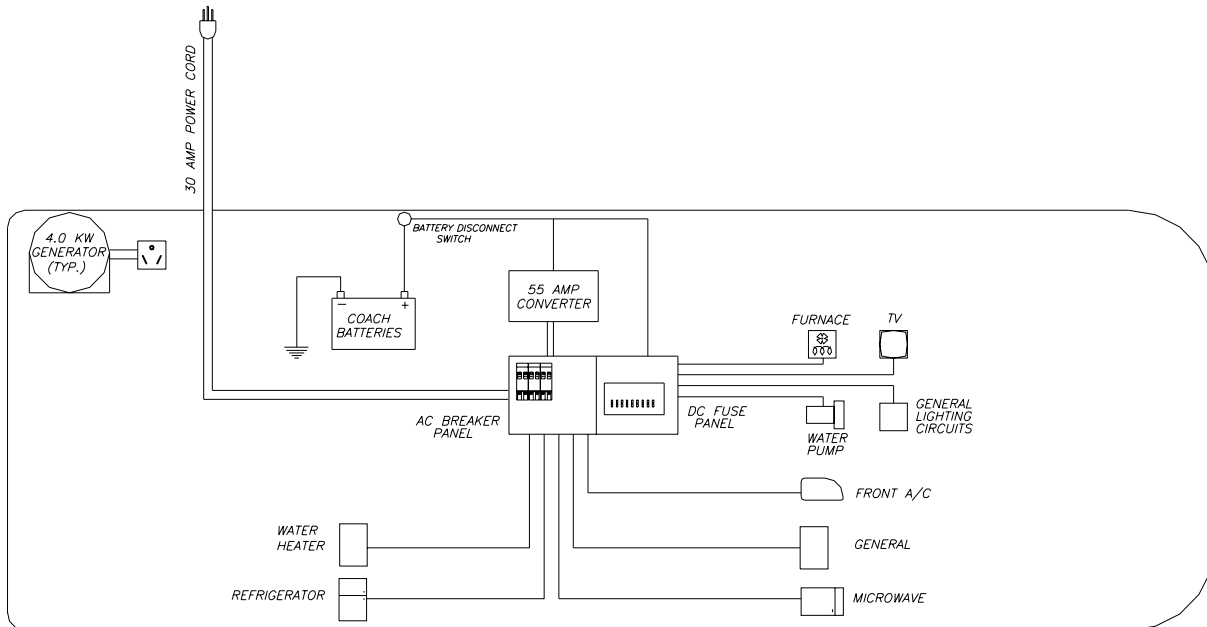
Fig. 10-14 TRAILER WIRING CONNECTOR

COMMANDER/EMBASSY

10.5 ELECTRICAL SCHEMATICS



30 AMP SERVICE (COMMANDER)



30 AMP SERVICE (EMBASSY)

10.6 ELECTRIC CIRCUIT PANELS

10.6.1 EMBASSY

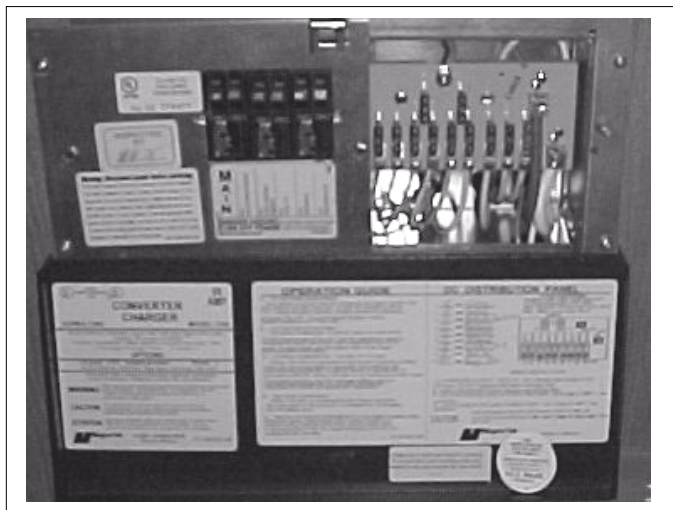


Fig. 10-15 EMBASSY CIRCUIT PANEL

10.6.2 COMMANDER



Fig. 10-16 120 VOLT CIRCUIT PANEL

10.6 VEHICLE 12-VOLT FUSE PANELS

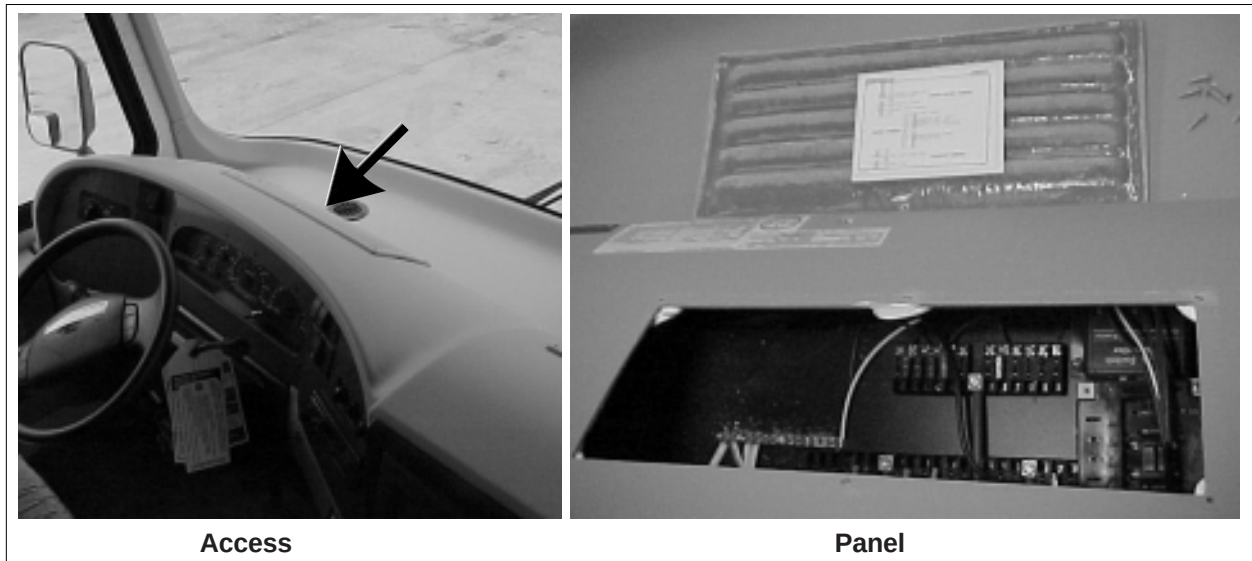


Fig. 10-17 EMBASSY FUSE PANEL



Fig. 10-18 COMMANDER FUSE PANEL

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11 LP GAS SYSTEM

LP (Liquefied Petroleum) gas is a colorless gas compressed into liquid form for easy transportation and storage. It is the energy source for your range, oven, furnace, water heater, and an alternate fuel source for your refrigerator.

It is an excellent fuel source and both safe and economical when used properly.

CAUTION

These instructions are provided as a general guideline only and may not be complete. To ensure proper service and safety, always take your motorhome to an authorized Triple E service center.

11.1 SAFE USE OF LP GAS

The LP gas system is designed and built to adhere to federal government and industry regulation requirements.

Many safety devices and backup systems have been built in to assure complete safety. Some of these include: tank overflow valves, LP gas detector, and carbon monoxide (CO) detectors. As well, LP gas contains an odor additive so that it can be more easily detected.

Observe the following precautions for the safe use of LP gas.

1. Familiarize yourself with the odor of LP gas. If you suspect a leak, turn off the LP gas supply immediately and determine the source of the leak with the help of qualified service personnel.
2. Do not tamper with any part of the LP gas system, piping or regulator. Service and maintenance should be performed only by qualified personnel.
3. **Do not use natural gas in a LP gas system.**
4. Check the entire system for leaks every time the tanks are filled. Take time regularly to inspect the system for leaks.

5. Turn off the LP gas supply valve when not using it.
6. The tank supply valve is designed to be tightened by hand only. If the valve requires a wrench for tightening it is defective and should be replaced.
7. Tanks should never be filled above the 80 % level. LP gas requires room to expand.
8. Make sure all appliance vents are open and free of obstruction when using the LP gas system.
9. Do not lock LP tank compartments. Recreational vehicle industry standards require that all LP gas valves must be readily accessible at all times in case of emergency.
10. When drilling holes in walls or attaching objects be careful not to damage any gas lines or electrical wiring.

11.2 HOW LP GAS WORKS

There are two types of LP (Liquefied Petroleum) gas - propane and butane. Both are compressed into a liquid for easier transportation and storage. Common names used are tank gas, bottle gas or simply LP.

In the tank, LP is in the form of a liquid under very high pressure. As it is released, it changes to a vapor or gas and expands to a much greater volume.

Caution should be exercised when temperatures fall below -40 degrees C (-40 degrees F). At temperatures this low the liquid propane will not vaporize and you could be without propane at these lower temperatures.

11.3 SELECTING FUEL TYPES

Butane burns at a much higher temperature than propane but will not change from a liquid to a gas at temperatures below 32 degrees F or 0 degrees C. Propane, on the other hand, burns at a lower temperature and will continue to convert from a liquid to a gas at temperatures as low as -40 degrees F or -40 degrees C.

LP dealers will normally provide only the type of gas commonly used and suited to the climate in their area. If you travel from a warmer part of the country to a colder area you may want to check to make sure you have the right type of LP gas.

11.4 LP TANK SYSTEM

The storage tank for the LP gas is mounted underneath the motorhome attached to the vehicle frame. It is accessible only from outside the vehicle. The tank valve is located near the top center of the tank next to the regulator. Before opening the supply valve, make sure all controls for the various appliances are in the OFF or PILOT OFF position. This is to prevent any LP gas from accumulating in the motorhome.



Fig. 11-1 TANK LOCATION

11.5 LP TANK CAPACITY

The tank size is the approximate usable volume which is about 80% of the total tank volume.

	Commander	Embassy
Tank Size Gal (l)	25.3 (95.8)	25.3 (95.8)

Propane Tank Capacities

11.6 REFILLING LP TANK

WARNING

1. Never overfill the LP gas tank.
2. Make sure your vehicle is level when filling the tank.
3. Make sure all pilot lights are OFF before refuelling any of the gas tanks on your motorhome.
4. Do not smoke or have any open flame in the area where refuelling is taking place.
5. When testing for leaks in the LP system use a soap and water solution. Never use an open flame to test for leaks.
6. Never fill the LP tank when either the engine or the generator is running.
7. Keep all protective covers and caps in place.

Simply open the baggage door, and fill the container via the fill-in valve as indicated on the container. Filling should always be done by a qualified service attendant.

Shut off all pilot lights and the control valve on the LP gas container when filling the container and during travel. Always refill empty LP gas container as soon as possible.

Do not overfill your LP gas container. Stop filling when liquid appears at the overflow valve, this indicates that the tank is full (often called a 10% valve) which contacts the liquid level at 80% of container capacity allowing 20% for expansion.

Check after each filling by opening the overflow valve and bleed gas in well-ventilated area until white liquid stops. Overfilling may cause damage to regulator and cause malfunction of LP gas appliances.

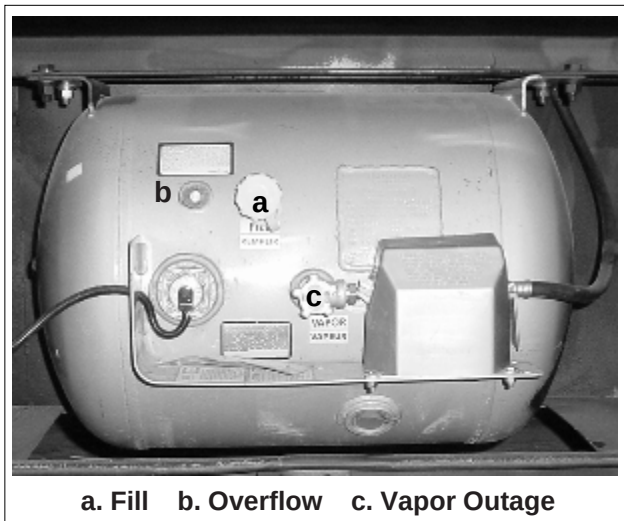


Fig. 11-2 LP GAS TANK

IMPORTANT

The LP tank has an automatic 80% stop-fill device to prevent over filling of the tank.

The tank is permanently mounted to the motorhome frame. Therefore the vehicle must be taken to a fuelling station to be filled. When liquid LP gas appears at the overflow valve, the tank is full.

LP gas stations are found in all parts of the country. Check with the Yellow pages in your telephone book if you have trouble finding a station. Look under "Gas-Liquefied Petroleum-Bottled and Bulk" or "Propane".

WARNING

Remind the service attendant to use the 80% overflow valve when refuelling. Space must be left in the tank for vaporization and expansion.

Never carry LP or any other flammable liquid containers in your motorhome. Gases may inadvertently be discharged into the room which could result in fire or explosion.

After tank has been filled:

1. Check all container and line connections periodically to be sure they are tight. When testing for leaks, use soapy water (never a match). LP gas has a distinct garlic odor.
2. If LP gas fumes are noticed at any time, the cause should be determined and corrected without delay. In winter, always have methyl alcohol added to your LP container for winter operation to prevent freeze-up.
3. Before opening the control valve at the LP gas container, check that controls for all gas appliances are in the off position. If this is not done, LP gas could accumulate inside the vehicle creating a fire or explosion hazard.
4. LP gas is also potentially lethal if inhaled.

11.7 AIR IN THE LP TANK

If your LP appliances burn poorly or do not stay lit even though you are sure you have plenty of fuel, you may have air trapped in the tank. The air will eventually escape along with the LP gas but it may be necessary that you have your tank purged of air by the LP gas dealer. During the tank's first fill, ensure that the tank is purged.

11.8 TRAVELLING LP GAS

In some jurisdictions it is illegal to transport LP gas on certain roads or through tunnels. Check state or provincial regulations to make sure your trip will not be halted or impeded unexpectedly as a result.

11.9 REGULATOR

The LP tank regulator has a plastic cover to protect it from the weather. This should never be removed except by qualified service personnel.

The pressure regulator has a vent hole on the under side. Make sure this vent hole is open and not obstructed in any way.

During freezing weather it may happen that a regulator may freeze up. This happens when there is a small amount of moisture in the fuel (even though every precaution is taken by gas

dealers to prevent this from happening). To help avoid this situation, keep the control valve closed when not in use even when the tank is empty. This helps prevent condensation from forming. Hold a light bulb near the regulator to thaw it.



WARNING

Do not use an open flame or a heat lamp to thaw out regulator.

If moisture in the tank is a recurring problem, you may ask your LP gas dealer to inject a small amount of methyl alcohol into the tank to absorb the moisture.

Liquid Petroleum vaporizes quickly and easily at warmer temperatures. Under cold conditions this process slows down dramatically. When large amounts of fuel are required when using the furnace, for example, the fuel may not vaporize rapidly enough to keep all the appliances going at a high level. In this case you may have to reduce the consumption of fuel by lowering the temperature setting on the furnace, reduce the consumption of hot water, turn up the temperature setting on your refrigerator or switch from LP to electric where possible.

The regulator is preset. Do not attempt to adjust it. This should only be done by an authorized service outlet. The regulator should not be exposed to the elements.

If the LP gas components malfunction the possible cause could be:

1. The LP gas container may be overfilled.
2. There may be impurities in the propane.
3. The LP Regulator could be defective.

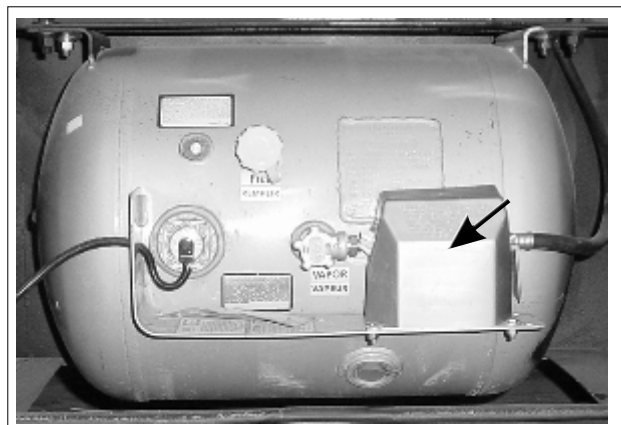


Fig. 11-3 REGULATOR

11.10 LP GAS LEAKS

If you ever smell LP gas in the vehicle or the detector alarm sounds, follow the instructions carefully.



WARNING

IF YOU SMELL GAS

1. Extinguish any open flame, pilot lights and all smoking material.
2. Do not touch electrical switches.
3. Shut off the LP tank valve.
4. Open doors, windows and roof vents.
5. Leave the area until the odour is gone.
6. Have the system checked for leaks and make the necessary corrections and repairs.



WARNING

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

11.11 LP GAS DETECTOR

A standard LP gas detector has been installed in your unit.

NOTE

Your unit is not equipped with an automatic propane shut-off valve.

Please refer to manufacturer's manual for further instructions.



WARNING

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

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

This warning label has been located in the cooking area to remind the user 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.

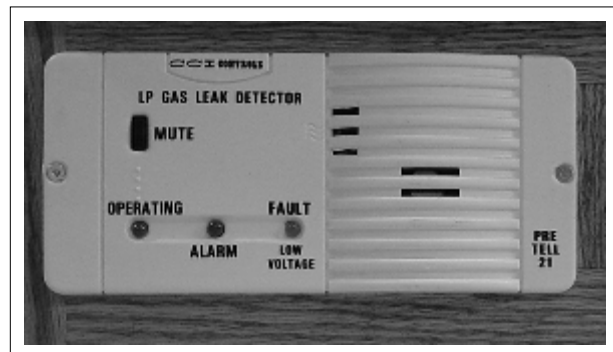


Fig. 11-4 LP GAS DETECTOR

12 WATER/PLUMBING SYSTEM

Your motorhome is designed with a fresh water, grey water, black water systems and associated plumbing to handle all of the water and waste requirements. Review this section carefully to understand each system and how they function together.

12.1 FRESH WATER SYSTEM

There are two sources for fresh water in your motorhome:

1. A water tank located within your motorhome.
2. By connecting to "city water" by means of a water hose.

Both can supply water to the sink, shower, bathroom, toilet and the water heater.

The water system built into your motorhome provides full service similar to the system used in your home. A 12-volt self-priming pump draws water from the fresh water storage tank to supply pressurized water to the system. An automatic pressure switch, located in the water pump maintains a positive line pressure.

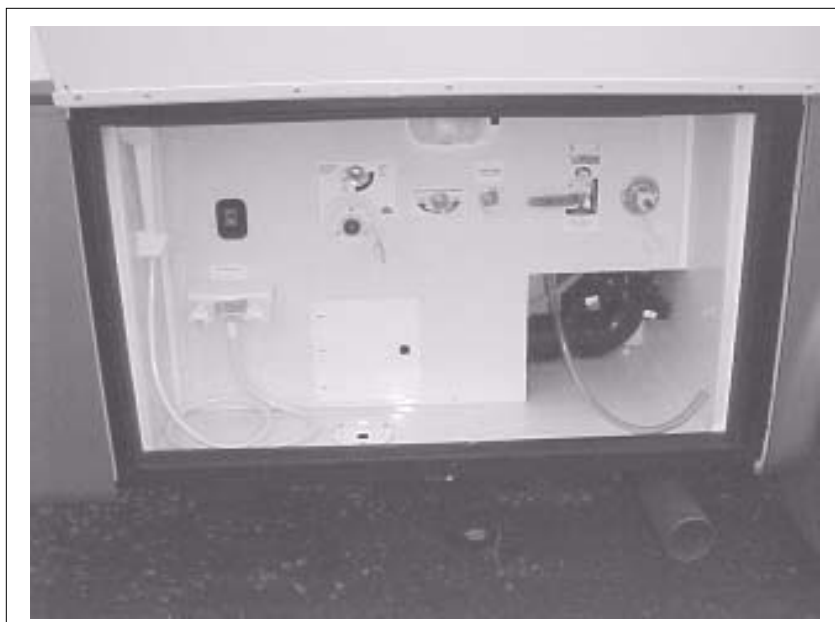


Fig. 12-1 DRIVERS SIDE UTILITY MODULE (COMMANDER ONLY)

The water system is contained in the utility module on the road side of the coach. The water pump and filter are located in the utility module. The water tank is either installed under the rear bed or under the floor depending on the model.

The utility compartment located on the drivers side of the vehicle contains, the water pump, the potable/city water fill selector valve, winterization bypass valve, and the water tank drain.

12.1.1 FRESH WATER TANK FILLING PROCEDURE

The water tank is not a pressure vessel. The filling procedure is done via a water pressure system and cannot be done without available water under pressure. Make sure the vent/overflow drain located underneath the tank area is open, free and clear of any obstruction before attempting to fill the tank. A blocked vent during filling could cause serious damage to the tank and even the underfloor structures.

When filling fresh water tank:

1. Connect water hose to the city water inlet connection.
2. Set the water pump switch to the off position.
3. Turn systems valve to "Tank Fill" position.
4. Turn on water supply.
5. Check the Monitor System inside the motorhome for levels as the tank is filling. When the tank is close to full, check for overflow at the overflow drain. Turn the supply off as soon as water flows from the drain.

IMPORTANT

Never allow a full flow at the overflow.

6. Turn the systems valve back to normal, after external supply is turned off.
7. Turn pump switch back to on and the system is ready to be used.

IMPORTANT

If you are starting from a dry system or if some faucets have been open during the tank filling procedure, you may want to slowly open all faucets one at a time to allow any trapped air to escape from the system.

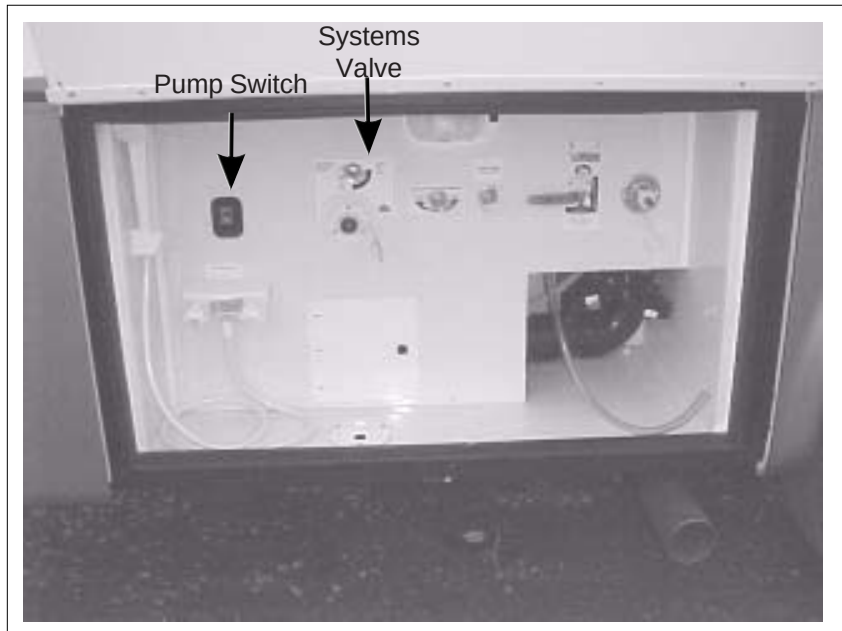


Fig. 12-2 FRESH WATER TANK FILLING (INLET)(Commander shown, Embassy fill inlet located on sidewall of unit)

12.1.2 WATER PUMP

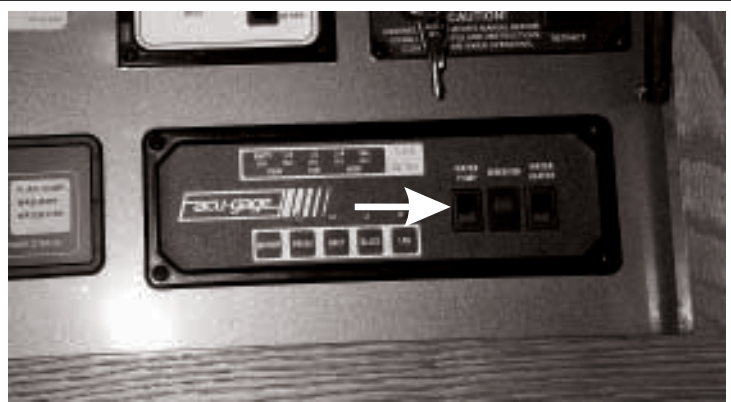
The water pump is designed to supply water from the fresh water tank to the various areas of your motorhome on demand. With the pump switch in the 'on' position the pump comes on automatically and pressurizes the various water lines when a faucet is opened.

The water pump has an inlet screen type filter mounted to the body. If water flow in your unit deteriorates, clean out this screen. (See pump owners manual for details)

12.1.3 WATER PUMP SWITCH

The master switch for the water pump is located at the control panel above the entrance door. When this switch is in the on position, the pump will automatically activate when any faucet, shower or toilet is being used. On the Commander, there are switches located at the galley, in the bathroom and at the exterior shower that can be used to turn the pump on or off. This makes it more convenient to use the system without having to go to the master switch every time.

It is recommended that the pump switch be turned off whenever leaving the motorhome for any period of time or while driving. A slow leak in a faucet or connection could drain both the water tank and the battery.



Master - Control Panel



External Compartment (Commander only)



Bathroom (Commander only)



Galley (Commander only)

Fig. 12-3 WATER PUMP SWITCHES

12.1.4 WATER PUMP FILTER

Before water can enter the various outlets in your motorhome it flows through a water filter. This filter is located on the water pump.

Check the water filter periodically and clean or replace it at least annually to assure a clean supply of water.



Fig. 12-4 WATER FILTER

12.1.5 WATER SYSTEM ACCESS

The water system compartment is designed with a hole in the bottom to provide access to the compartment for the water line. Route the hoses through this hole and close the compartment door when at a campsite.

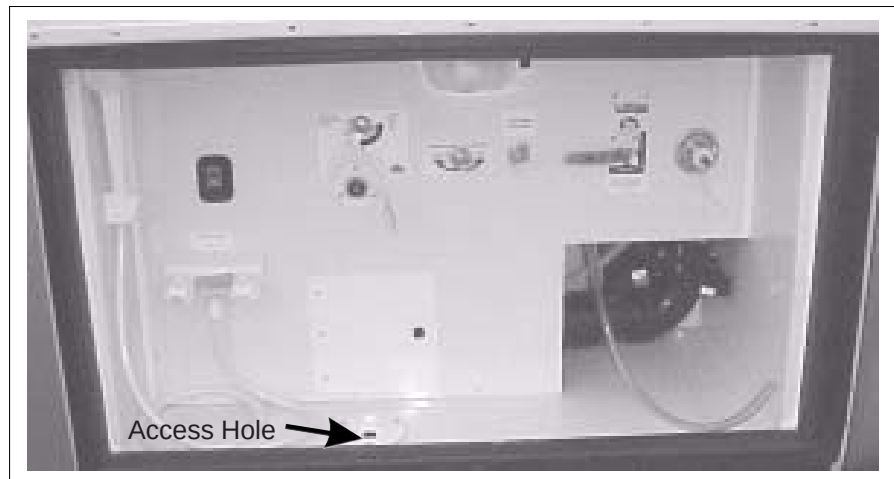


Fig. 12-5 ACCESS HOLE (COMMANDER ONLY)

12.1.6 WATER PUMP INITIAL START-UP

1. Make sure all drain valves are closed including the water heater valve.
2. Turn water pump switch off.
3. Fill water tank.
4. Open faucets, both hot and cold.
5. Turn pump switch on.
6. Close each faucet (cold and hot) as soon as water flows steadily.
7. Check to see that pump stops after all faucets are closed.
8. Pump is now ready for automatic operation. It will start whenever a faucet is opened.

12.1.7 WATER PUMP TROUBLE SHOOTING

1. **If pump will not prime:**
 - a. Make sure there is water in the tank.
 - b. Make sure the battery is not run down.
 - c. Make sure there are no kinks in the inlet hose.
 - d. Make sure all inlet fittings and connections are air tight.
 - e. Make sure water selector valve is set to normal.
 - f. Check for clogged lines.
2. **If water pressure drops:**
 - a. Check faucets and connections for leaks.
 - b. Make sure faucet aerators and filters are clean.
 - c. Make sure there is water in the tank.
 - d. Make sure battery is not run down.
3. **If pump runs when there is no apparent demand for water:**
 - a. Make sure all faucets and fixtures are shut off and are not leaking.
 - b. Check all lines for leaks.
 - c. Make sure there is water in the tank.
 - d. Make sure no air is trapped in the system.
 - e. Make sure the tank fill water selector valve is set to normal.

12.1.8 DISINFECTION OF WATER TANK

It is recommended that fresh water systems be disinfected when:

1. the system is new and has not been used before.
2. it's been in storage for a long period of time.
3. in case it has become contaminated.

4. Disinfection instructions

A. Commander:

1. Place the pick up line (located in the service module) into a container of pre-mixed disinfectant solution (1/4 cup household liquid chlorine bleach per 1-gallon of water), use 1-gallon for every 15-gallons of tank capacity.
2. Turn the winterization valve to winterize position and ensure all taps are closed.
3. Open the anti-freeze / disinfectant pick-up direction valve.
4. Switch the pump on to pump the disinfectant solution into the fresh water tank then switch it off again.
5. Top off the tank with fresh water.
6. Turn the winterization valve to normal use position.
7. Close the anti-freeze / disinfectant pick-up direction valve.
8. Switch the pump on and run water from each faucet, hot and cold, until you detect a chlorine odor.
9. Leave the solution in the system for at least 4-hours. If you wish to complete this procedure in 1-hour, double the concentration of household bleach in your solution.
10. After the time has elapsed, drain and flush the system with fresh water.

B. Embassy:

1. Pre-mix a solution of 1/4 cup household liquid chlorine bleach to 1 gallon of water. Pour this solution into the garden hose; hook the garden hose to the city water inlet and fill the tank. (Use 1-gallon for every 15-gallons of tank capacity.)
2. Turn on the pump.
3. Run water from each faucet, hot and cold, until you detect a chlorine odor.
4. Leave the solution in the system for at least 4-hours. If you wish to complete this procedure in 1-hour, double the concentration of household bleach in your solution.
5. After the time has elapsed, drain and flush the system with fresh water.

12.1.9 EXTERNAL WATER SUPPLY

The external water source will supply your motorhome water system with water at city pressure when the water pump is switched off.

1. **Connecting:**
 - a. Turn water pump switch to off.
 - b. Attach garden hose to city water connection at water fill selection valve. Turn the water selector valve to "city water".
 - c. Turn on external water supply.

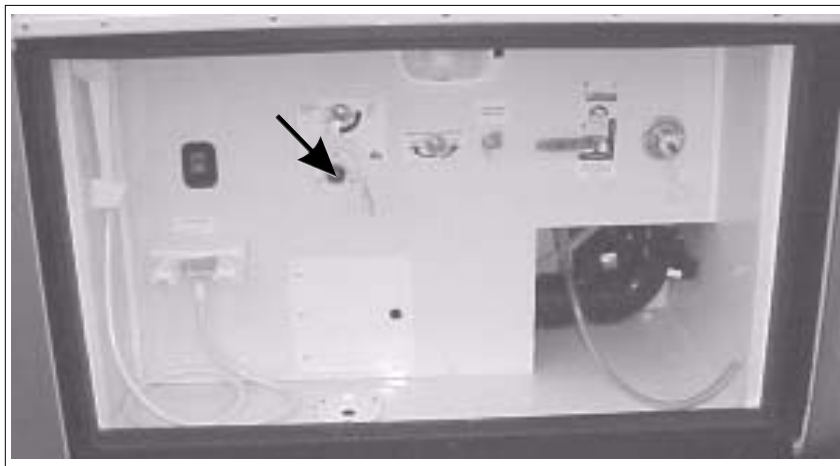


Fig. 12-6 WATER CONNECTION (COMMANDER ONLY)

IMPORTANT

After connecting to the external water supply, open the faucets in your motorhome slowly and cautiously. Air trapped in the line can cause the water to splash into the sink. You may want to drape a wash cloth over the faucet to prevent excessive splashing.

2. Turn the water heater by-pass valves to normal to be sure that water enters the heater and hot water is available for use.

Water from the external supply is prevented from entering the water tank and the water pump by means of a check-valve.



Fig. 12-7 BYPASS VALVE

IMPORTANT

Some campgrounds have an excessively high water pressure which can cause problems. It is a good idea to get a pressure reducer from your RV center and attach it to your incoming external water supply hose to ensure safe pressure for your unit.

3. **Disconnecting:**
 - a. Turn off the external water tap.
 - b. Relieve water pressure on the line by opening a faucet in the motorhome.
 - c. Disconnect hose from the motorhome.
 - d. Replace the protective plug back over the water connection.

12.2 WASTE SYSTEMS

12.2.1 GREY WATER - WASTE HOLDING TANK

The drainage from the kitchen sinks, bathtub and shower pan is collected in a separate grey water holding tank. This tank has its own dump valve but ties into the same termination valve outlet as the waste holding tank.

IMPORTANT

If grey water holding tank is allowed to overfill, the overflow may back up through the bathtub/shower drain.

12.2.2 BLACK WATER - WASTE HOLDING TANK

The black water holding tank collects all the waste from the toilet and vanity sink. Before using your waste holding tank, deodorize it by adding one gallon water and a commercial holding tank deodorizer through the toilet.

IMPORTANT

If holding tank is allowed to overfill, the overflow may back up through the toilet drain.

12.2.3 DUMPING HOLDING TANKS

When dumping holding tanks:

1. Remove drain hose from storage compartment.
2. Remove dust cap from drain outlet. Attach drain hose securely.
3. Place the other end of the hose in sewer opening.
4. Make sure hose is lying flat. Open black water valve with a quick pull. Move hose about gently to ensure flow of waste materials. When tank is empty, close the valve.
5. After tank has been drained, run several gallons of fresh water into the black water tank through the toilet. Open the dump valve to flush out any residual wastes. After the tank has been drained again, close the valve.

IMPORTANT

Holding tanks should be dumped before travelling to eliminate unnecessary weight while driving.

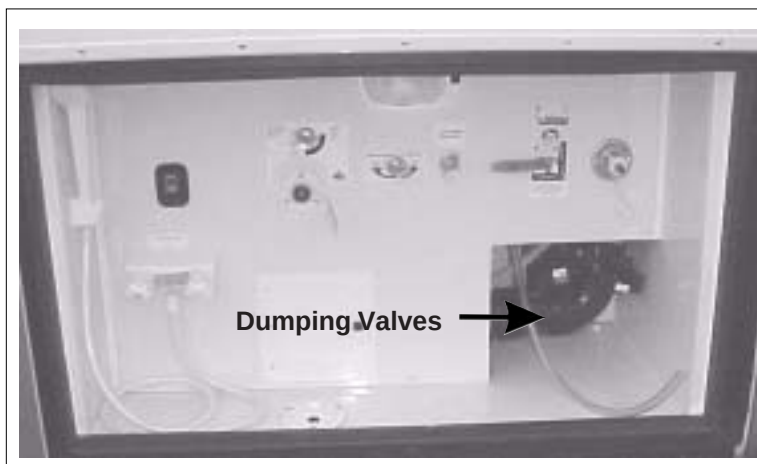


Fig. 12-8 DUMPING VALVES (COMMANDER ONLY)

NOTE

Do not open the grey water valve until black water valve is closed. This will prevent any black wastes from entering the grey water tank. Grey water also rinses out any black water residue left inside the drain hose.

6. Open grey water valve. Close after tank is empty.
7. Add an odor control chemical to the black water holding tank. These are available at any RV center.
8. Rinse the sewer hose thoroughly and store.
9. Replace the dust cover securely.



a. Grey Water

b. Black Water

Fig. 12-9 DUMPING VALVES (EMBASSY)

12.2.4 TANK RINSE (COMMANDER ONLY)

The motorhome is equipped with a built-in black water waste tank flushing system. To aid in draining the tank or to remove build-up or odors, attach a water hose to the flush connection in the utility compartment. Make sure the black tank drain valve is open when using the water tank rinse system.

12.2.5 DO'S AND DON'TS HOLDING TANKS

1. **DO** keep your holding tank clean using any cleaner approved for recreational vehicle sanitation systems.
2. **DO** add a special deodorizer or chemical additive approved for recreational vehicle systems to sanitize and improve the tank action.
3. **DO** keep your tank termination valve closed, permitting the tank to get as full as convenient before emptying.
4. **DO** keep both the tank termination valve(s) closed and the drain cap tightly in place when travelling to prevent spillage on the road.
5. **DO** use any soft, single-ply, non dyed, biodegradable toilet tissue.
6. **DO** open the bath vent to keep bathroom fresh.
7. **DON'T** put facial tissues, paper, permanent (automotive) anti-freeze, sanitary napkins, or household toilet cleansers in your holding tank.
8. **DON'T** put anything solid in your holding tank which can scratch or damage the plastic.



**Fig. 12-10 FLUSH CONNECTION
(Commander only)**

12.2.6 USING ON-SITE SEWER HOOK-UPS

When staying at a campsite for any period of time where sewer hook-ups are available, the sewer hose may be attached and left in place for the duration of the stay.

However, ensure that dump valves are left closed and are opened only once the tanks are full or when you leave the campsite. This will keep solid wastes in suspension allowing them to drain with the liquids when the valves are opened. If the valves are left open, the liquid wastes will drain leaving the solids to collect on the floor of the black water holding tank floor.

Should this happen, close the valves, fill the tank with water and drive a few miles. A 1/4 cup of dishwasher detergent added to the tank will help to clean it. The motion of the vehicle and the water will dislodge the wastes and allow the tank to be drained in the normal manner.

12.2.7 HOLDING TANK LEVEL INDICATORS

The holding tank levels may be checked on the monitor panel. Press the corresponding switch to check the level in each tank.



Fig. 12-11 TANK LEVEL INDICATORS

12.3 PLUMBING SYSTEM OPERATION

12.3.1 WATER HEATER

Your motorhome is equipped with a 6 gallon water heater.

The water is heated in one of three ways:

1. With an LP gas burner.
 2. With a 120-volt heating element.
 3. With a motor aid heater while driving (Commander Only).
1. **LP Gas Operation:**
(See control panel above the entrance door)
To ignite the heater, move heater switch to on position.

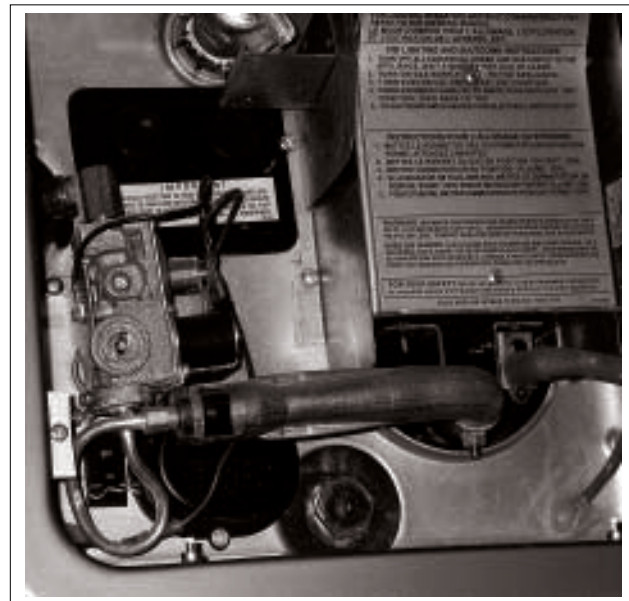


Fig. 12-12 LPG TO 120V SELECTOR SWITCH



Fig. 12-13 WATER HEATER SWITCH

COMMANDER/EMBASSY

2. **120-Volt Operation:**

Open the water heater compartment door. Find the selector switch and set it to 120-volt. Refer to the operating instructions included in the information package.

IMPORTANT

Be sure there is water in the hot water tank to prevent burning out the heating element when the power is turned on.

3. **Motor Aid Water Heater (Commander Only):**

Your motorhome is equipped with a system whereby heat from the engine cooling system is used to heat water in your fresh water system while you are driving. This is referred to as a "motor aid". Hoses from the engine cooling system are routed to a heat exchanger surrounding the water heater tank. As a rule, the water in the heater tank will be heated to about 140 degrees F in about 2 hours or 100 miles of driving time. This means that you will have hot water at the faucets when you arrive at your campsite or any time while you are driving. The motor aid water heater also provides additional cooling capacity to your engine cooling system allowing the engine to run cooler under hot conditions.

CAUTION

Should you ever develop a leak in the engine cooling system, do not forget to check the motor aid water heater supply hoses and connections for leaks in addition to the regular cooling system area.

4. **Operating Features:**

- a. The water heater is equipped with a preset water temperature control. The burner will bring the water temperature up to the desired level and then automatically shut off.
- b. It is also equipped with a temperature cut-off device in case the water temperature exceeds the preset limit. The breaker will trip and shut down the burner. Before the burner will restart, the breaker will have to be reset. If it continues to trip, have the unit checked and serviced. Refer to manufacturers operating instructions included in the information package.

12.3.2 TOILET

Refer to manufacturer's operating instructions included in information package for more details.

Troubleshooting:

1. **Water keeps running into the bowl:**

Check to see that the levers return all the way to the left. Sticking may be caused by foreign material on the waste valve blade or blade seal at the bottom of the bowl. If problem persists, replace water valve.

2. **Toilet leaks, there is water on the floor:**

If the leak is in back of the toilet, check the water supply line connection and refer to the installation instructions. If the leak is at the closet flange area, check the closet flange nuts for tightness. If leak continues, remove the toilet and check the closet flange height. The height should be between 1/4" and 7/16" above the floor. Adjust accordingly and replace the closet flange seal if damaged.

3. **Poor Flush:**

The levers must be held fully open during the flush. A good flush should be obtained within 2 to 3 seconds. If the problem persists, remove the water supply line and check the water supply. The water supply line flow rate should be at least 8 liters per minute to ensure an adequate flush.

12.3.3 SHOWER

To protect the surface of your ABS plastic shower pan, it is recommended that a rubber shower mat be placed in the shower pan.

Use a non-abrasive cleaner to clean your shower compartment. Do not use highly concentrated or high acid content household cleaners, as these may damage the shower compartment.

12.3.4 EXTERIOR SHOWER (STANDARD ON COMMANDER OPTIONAL ON EMBASSY)

Your motorhome may be equipped with an exterior auxiliary shower to allow you to rinse off sand and dirt, to clean muddy footwear or to bathe pets before entering the vehicle. It is located in the utility system compartment on the left side of your motorhome on the Commander and in a compartment on the left side wall on the Embassy.



Fig. 12-14 EXTERIOR SHOWER

12.3.5 WATER PURIFIER (COMMANDER OPTION ONLY)

The water system is designed with an optional water purifier mounted under the kitchen sink. Refer to the operator's manual in the information package for detailed instructions.

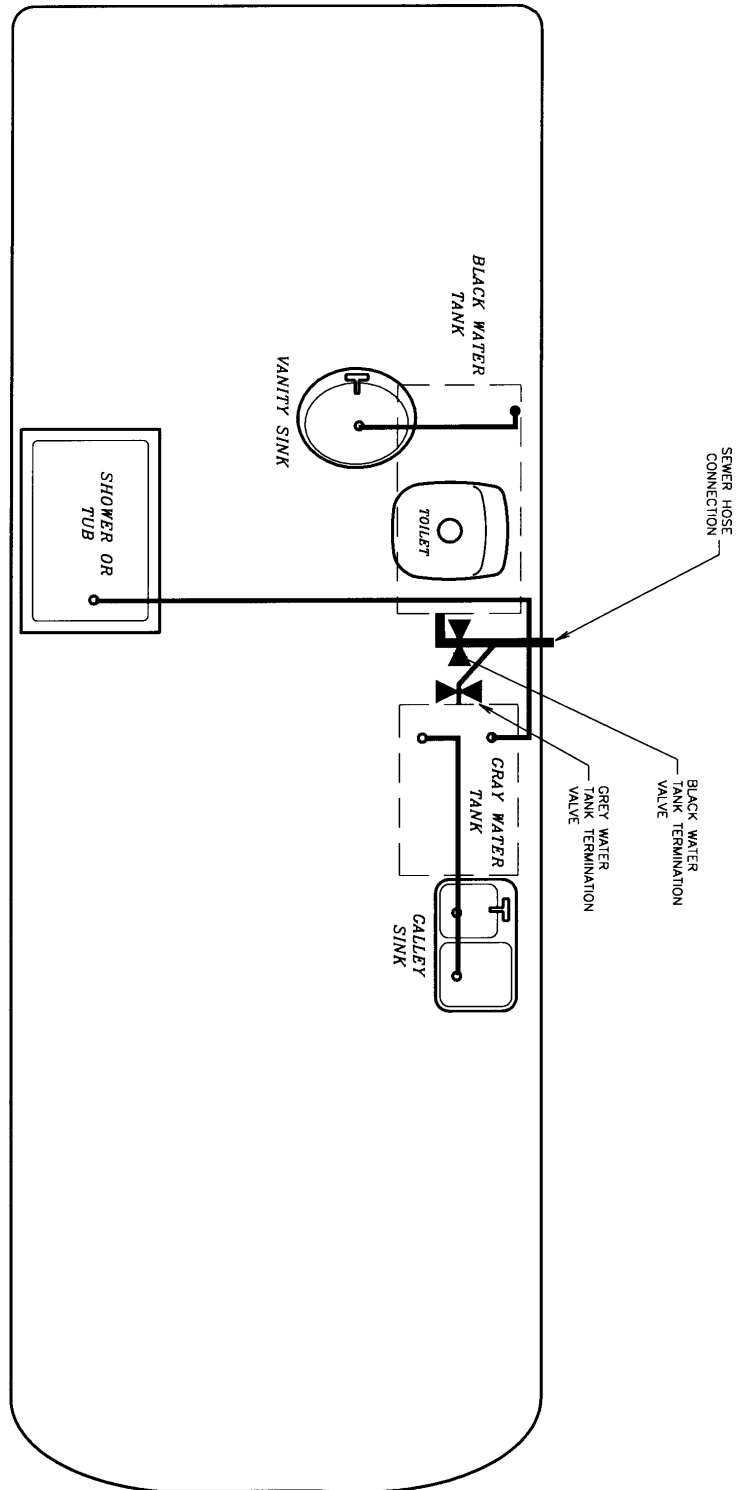


Fig. 12-15 WATER PURIFIER

12.4 PLUMBING SPECIFICATIONS

	Commander	Embassy
Fresh Water tank	84(318)	76 (287)
Holding tank G (L)	78(295)	78 (295)

12.4.2 PLUMBING SCHEMATICS (TYPICAL) DRAINAGE SYSTEM



13 APPLIANCES AND INTERIOR FEATURES

Refer to the operator's manuals in the information package for more detailed instructions if required for each appliance, component or system.

13.1 REFRIGERATOR

The refrigerator in your motorhome can be operated on either:

1. 120-volt AC electric.
2. LP gas with 12-volt ignition.

It is very important that your motorhome be level when parked so that the refrigerator will operate safely and properly.

CAUTION

If the motorhome is parked off-level by 3 degrees or more side-to-side or 6 degrees or more front-to-back for more than an hour, permanent damage could be done to the refrigerator.

When you park your motorhome, normal levelling for comfortable living will usually place it within satisfactory level limits. Use a level to make sure.

When the refrigerator is not being used for any length of time the temperature setting should be turned to the lowest level and switched to off. The door should be opened slightly to allow for air circulation and to prevent any odor or mold build-up.

13.1.1 OPERATING INSTRUCTIONS

Read the Refrigerator Owner's Manual carefully for complete instructions on start-up, operating and shut-down instructions.



Fig. 13-1 REFRIGERATOR

13.1.2 OPERATING TIPS

1. The refrigerator should be cold before placing items in it.
2. Try not to put warm or hot items in the refrigerator. Allow them to cool off first.
3. Do not pack refrigerator too full. To operate efficiently, the refrigerator needs air to circulate.
4. Use smaller containers to store items i.e. 1 litre rather than 4 litre.
5. Use containers that seal tightly.
6. Use crumpled paper between containers to prevent rattling while driving.

13.1.3 EXTERIOR FRIDGE ACCESS

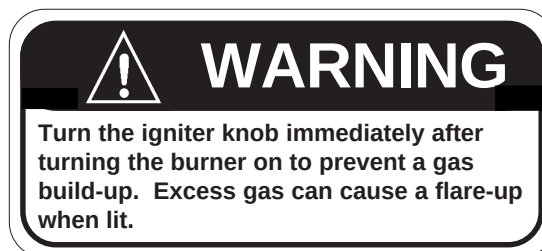
This compartment allows access to the refrigerator for cleaning, inspection, maintenance and service. It is good practice to open the compartment door once in a while to make sure that the area is free of any debris that might hinder air circulation.



Fig. 13-2 EXTERIOR FRIDGE ACCESS

13.2 RANGE AND OVEN (if equipped)

Both the range and the oven operate on LP gas. The oven has a pilot light which can be lit to start the oven burner at any time.



13.2.1 LIGHTING BURNERS

To Light The Range:

1. Turn the burner control knob to "on".
2. Turn the piezo ignition knob until the burner ignites. If the burner does not ignite within 10 seconds, turn the burner control knob off: wait 5 minutes and try again.
3. Adjust the level of the flame by turning the control knob.



Fig. 13-3 KITCHEN

13.2.2 SAFETY TIPS

1. Always wait 5 minutes before relighting range/oven to allow gas to dissipate.
2. The range/oven is not designed for and should never be used as a space heater.
3. Do not operate range/oven while travelling or while refuelling your vehicle at a gasoline service station. The burners may ignite gasoline fumes.
4. Do not leave the top burners on without a utensil for any length of time. Overheating of the grates may cause the porcelain enamel to crack and chip.
5. Any time the range/oven is in operation, the power range hood fan should be operating to help ensure proper ventilation.

13.2.3 RANGE HOOD

The 12-volt range hood fan should be used whenever the range or oven is being used. This will aid in removing cooking odors, steam, fumes and help in keeping the air in the motorhome fresh. Keep the filter clean by washing it regularly with hot soapy water. Let it dry thoroughly before replacing it.

13.2.4 LIGHTING OVEN PILOT

1. Make sure all range and oven control knobs are in the off position.
2. Press and turn the oven control knob to the pilot on position. This opens the gas flow to the oven pilot.

IMPORTANT

If the oven has not been used for some time it may take a few minutes for the gas to reach the pilot.

3. Open the oven door and light oven pilot. You will notice a small flame at the oven element.



Knob

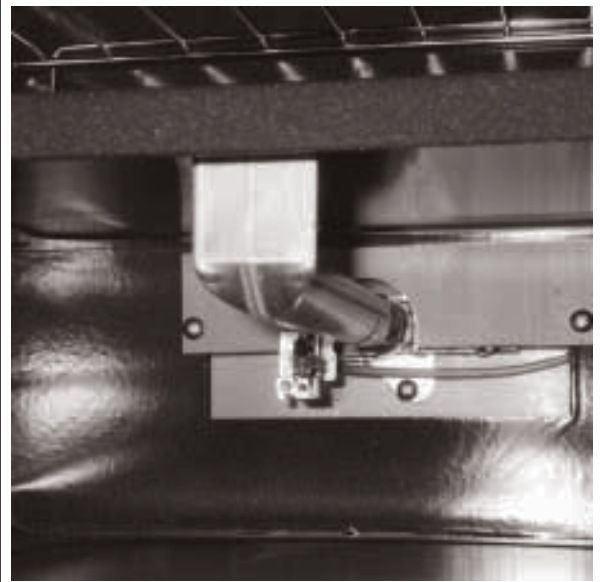


Fig. 13-4 OVEN PILOT LIGHT

13.2.5 OPERATING OVEN CONTROL

To adjust the oven temperature, push in the knob and turn it counterclockwise to the desired temperature setting. There may be a delay of 45 seconds before the burner is ignited. This is normal. To keep the oven temperature at the set temperature, the burner will cycle on and off.

13.2.6 SHUT DOWN INSTRUCTIONS

When finished using the oven, turn the oven control knob back to pilot on. The pilot light will remain on and the oven can be used at any time by simply adjusting the temperature setting.

When travelling or when the motorhome is not in use for any length of time, turn the oven control knob to off and turn off the main gas supply.

13.3 MICROWAVE OVEN

For complete instructions, refer to the manufacturer's manual.

Operating Tips:

1. Do not attempt to operate microwave oven with the door open since this can result in harmful exposure to microwave energy.
2. Do not defeat or tamper with the safety interlocks.
3. Do not place any object between the oven front face and the door or allow cleaner residue to accumulate on sealing surfaces.
4. Do not operate the oven if it is damaged. Do not operate if the oven door does not close properly (bent) or there is damage to the hinges and latches (broken or loosened) or the door seals and sealing surfaces.
5. The oven door should not be adjusted or repaired by anyone except properly qualified service personnel.
6. Do not operate the microwave oven empty.

13.4 MONITOR PANEL

The monitor panel, located above the entrance door, covers four systems in your motorhome:

1. **Battery:**
Indicates the level of charge in the auxiliary battery.
2. **Propane:**
Indicates the level of propane in the propane tank.
3. **Fresh Water:**
Indicates the amount of fresh water in the fresh water tank.
4. **Holding Tanks:**
Indicates the amount of waste in the grey water and black water holding tanks.

To check the level for any of the systems, press the button for the system you are checking and read the level.

CAUTION

Do not allow the holding tanks to overfill as this could cause waste to back up through the toilet or the bathtub/shower drain.

IMPORTANT

The master switch for the water pump is also located on the monitor panel.



Fig. 13-5 MONITOR PANEL

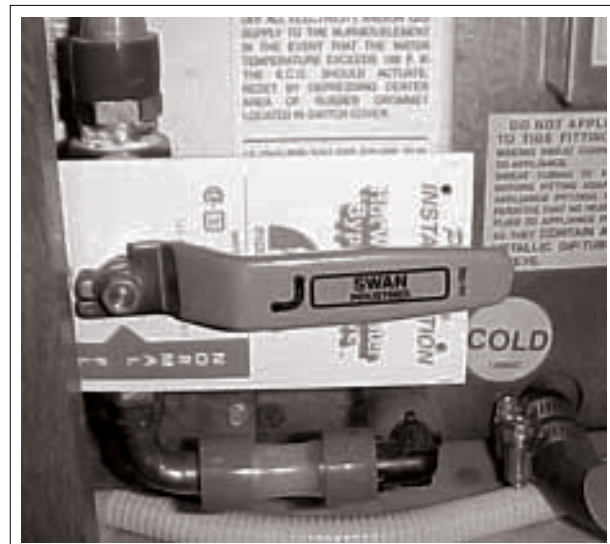


Fig. 13-6 BYPASS VALVE

13.5 WATER HEATER BYPASS VALVE

See Section 17-2 for Winterization instructions.

13.6 LP GAS FURNACE

Your motorhome utilizes a central unit heating system. The furnace is controlled by the climate control center. This device located in the galley or bedroom area, controls the furnace, roof air conditioner, or air conditioner heat strip. Please consult the climate control center manual for instructions on operation.

The furnace(s) has no pilot light but is ignited by a direct spark ignition system. No manual lighting is required.

1. To Start Up:

- Close the LP gas tank valve.
- Set the thermostat switch from off to heat.
- Set the thermostat above room temperature to start the blower. There will be a slight delay before the blower comes on. Allow the blower to run for 5 minutes to purge the combustion chamber.
- Set thermostat lever below room temperature. The blower will continue running for about 2 minutes.
- After the blower stops, open the LP gas tank valve.
- Set thermostat to desired temperature. If set above current room temperature, the blower will come on.
- After about 30 seconds, the automatic ignition device will light the burner. Do not attempt to light the burner manually.
- There should be warm air coming from the heating ducts. If the burner fails to light, repeat steps a - g.
- If the burner fails to ignite after 3 attempts, set the thermostat to the off position, close the LP gas tank valve and contact your dealer or a local RV service center.

IMPORTANT

After the initial start-up the furnace will automatically cycle on and off as it delivers the required heat. The thermostat should be in the heat position.

2. To Shut Down:

- Slide the thermostat to the off position.
- Close the LP gas tank valve.

For additional information and instructions, refer to the furnace manufacturer's manual.

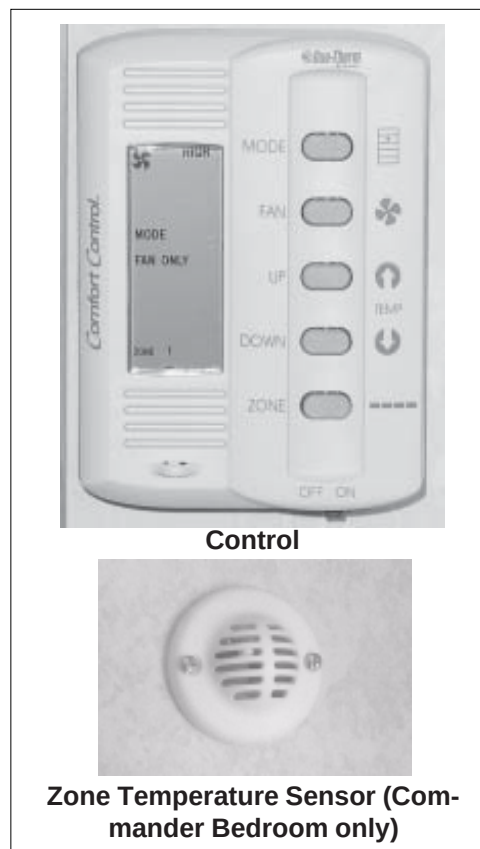


Fig. 13-7 CLIMATE CONTROL

13.7 ROOF AIR CONDITIONERS

The roof air conditioner(s) are controlled by the climate control center. Adjust the control to cooling. Select the temperature and the fan speed to suit your needs.

1. Maintenance:

We recommend that the filters be cleaned or changed at least every two weeks when the air conditioner is in operation. Do not operate your air conditioner without the filter installed.

2. Cleaning and/or Changing Filters:

- Remove the filters by pressing the 2 retainer clips and remove the plastic grill.
- Remove filters and wash them in warm soapy water. If they are excessively dirty, replace them with new filters.
- Replace filters and reinstall the plastic grill. Make sure the filter is properly in place.



CAUTION

Make sure antenna is always lowered completely in the travel position. Leaving the antenna in a partially raised position during travel can damage the gear mechanism.

Always align the directional handle to down before lowering the antenna.

13.8 TV ANTENNA

The TV antenna on your motorhome is easily raised, rotated through 360 degrees and lowered from inside the motorhome by turning the crank or rotating knob.

- To raise the antenna turn the elevating crank (clockwise) in "UP" direction about 13 turns or until resistance is noticed.
- To rotate the antenna make sure the antenna is in the "UP" position. Pull down the ceiling plate with both hands and rotate for best picture.
- To lower the antenna rotate it until the pointer on the directional handle aligns with the pointer on the ceiling plate. Turn the elevating crank (counter-clockwise) in "DOWN" direction about 13 turns or until resistance is noted. Antenna is now locked in travel position.



Fig. 13-8 CONTROLS



Fig. 13-9 ANTENNA

13.9 SIGNAL AMPLIFIER

1. Turn the amplifier power switch on to receive the TV signal.
2. Depress the appropriate knob on the audio/video selector to direct the signal to the desired television.
3. Refer to your TV Antenna Manual.

13.10 TELEVISION

Refer to manufacturer's manual for operating instructions and maintenance information.

The dash TV requires 120-volt AC power. Power is provided by 120 volt shore or generator power.

The optional bedroom TV (120-V AC or 12-V DC) allows you to view the television without the generator running or shore power available. Please note that it is necessary to have adequate 12-volt power in order for the TV to operate.

Also note that the dashTV is connected to an automotive relay system, which disconnects the power to the TV when the vehicle is running. The law requires that the driver may not have access to a TV while the vehicle is in motion. Modifications to the wiring is not recommended, and is against the law.



Overhead Dash (Commander)



Dash (Embassy)



Bedroom (Optional)

Fig. 13-10 TELEVISIONS

13.11 VIDEO CASSETTE RECORDER (OPTIONAL)

Refer to manufacturer's manual for operating instructions and maintenance information.

13.12 VIDEO CONTROL CENTER

Refer to manufacturer's manual for operating instructions and maintenance information. This unit is powered by inverter and 120 V AC.

13.13 PHONE AND CABLE TV HOOK-UPS

The Commander phone and cable TV hook-ups are located in the shoreline storage compartment. The Embassy hook-ups are located on the exterior sidewall.

To hook-up the cables raise the covers and connect the terminals for the signals.

13.14 AC/DC INVERTER (OPTIONAL ON COMMANDER ONLY)

See the separate instruction manual in your information packet labelled inverter.



Fig. 13-10 VIDEO CONTROL CENTER (COMMANDER ONLY)



Commander



Embassy

Fig. 13-11 PHONE/CABLE

13.15 SLEEPING FACILITIES



1. Bedroom Heater (Commander and Embassy XL only):

Standard bedroom sleeping facilities are located at the rear of the coach. The control for the Embassy heater are as shown in figure 13-12 and is "push/pull" operation. The Commander has a switch on the dashboard to control the heater.

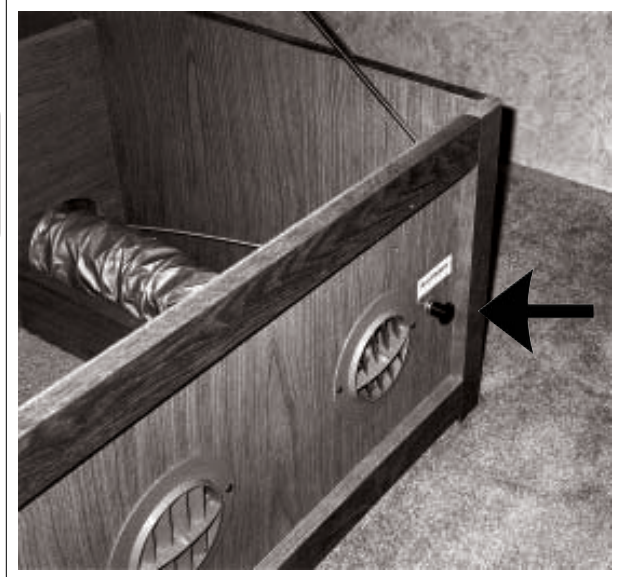


Fig. 13-12 EMBASSY HEATER SWITCH

2. Sofa/Bed Conversion:

The front sofa converts into a bed.

To convert to bed:

- Lift the sofa seat up from the base.
- Pull forward until the back drops down to a bed position.

To convert back to a sofa:

- Lift and push the sofa back against the wall.

The Commander sofa has a convenient drawer located below, the Embassy has open storage underneath the sofa.



Fig. 13-13 DINETTE/BED

3. Hide-a-Bed:

- Move the cocktail chair as far back as possible.
- Remove the hide-a-bed cushions.
- Release the safety latch and lift out the bed by pulling up on the centre of the front bar and fold it open.
- Reverse the above procedure to convert back to a couch.

4. Dinette (Optional):

The dinette also can be converted into a bed:

- Remove cushions.
- Lift table and remove the table legs.
- Drop table between seats so that the edge of the table rests on seat edge supports.
- Arrange cushions to form a bed, placing larger cushions in the center.
- Reverse the above procedure to convert back to a dinette.

13.16 SEATS

See section 4.4 for how to operate the seat controls.

13.17 SEAT/SHOULDER BELTS

1. **Inspection:**

Twice a year check that belts, buckles, latch plates, retractors and anchorages work properly: look for loose parts or damage (without disassembly) that could keep the restraint system from doing its job. Have a belt assembly replaced if the webbing has been cut or otherwise damaged. Also restraint systems should be replaced and anchorages properly repaired if they were in areas damaged by a collision, whether the belt was in use or not. If there is any question, replace the belt system. Damage whether visible or not, could result in serious personal injury in the event of an accident.

2. **Maintenance:**

- a. Hand wash webbing with warm water and mild soap. Rinse thoroughly and line or air dry.
- b. Do not bleach or re-dye webbing, since it could become severely weakened by this process.
- c. Inspect seat belt assembly regularly. If the assembly does not operate properly or if the webbing is torn or frayed, the seat belt must be replaced.

13.18 FRESH WATER TOILET

The toilet in your motorhome is very much like the one in your home except that it uses a much smaller amount of water for flushing. When the levers are moved to the right for flushing, a high velocity stream of water produces a swirl effect that should effectively cleanse the toilet. If you wish, a deodorizing agent may be used to eliminate any odors from the toilet.

1. Flushing the Toilet:

- a. Depress both foot control levers and hold open during the flush.
- b. Release the levers. A small amount of water should remain in the bowl.
- c. If you wish to add more water to the bowl, push the small foot control and hold until you have the desired level of water.



Fig. 13-14 TOILET

For additional information and instruction, see the manufacturer's toilet manual.

2. Operating Tips:

- a. Do not use facial tissue or regular household toilet tissue in the RV toilet. It will not disintegrate properly and will cling to the sides and bottom of the holding tank making it hard to clean. The clinging tissue can also short-circuit the terminals inside the tank that indicate the holding tank level at the monitor panel. Use only toilet tissue available at your RV center designed for use in RV toilets.
- b. Do not flush sanitary napkins or other non-dissolving items down the toilet.
- c. Do not use automotive anti-freeze or caustic chemicals in the toilet or holding tank. These can damage plastic or rubber parts in the system.

3. Cleaning the Toilet:

The toilet should be cleaned regularly for sanitation and efficient operation.

- a. Clean the toilet using a mild bathroom cleaner. Do not use caustic or abrasive cleansers. Do not allow cleaners to remain in the toilet bowl for any length of time. Plastic surfaces and seals could be damaged.
- b. Dump and rinse the holding tank after cleaning and flushing the toilet.
- c. Add a bit of odor control chemical every few days to eliminate any possibility of odor in the bathroom.
- d. If the operation of the flush valve becomes stiff, it may be lubricated with silicone spray. Turn off the water pump, drain all the water from the toilet bowl and spray silicone lubricant inside the flush valve. Operate the valve several times to make sure it is operating freely.

For instructions on preparing the toilet for cold weather storage, refer to the section on winterizing.

13.19 ELECTRIC STEP

Normal Operation - Step switch in "on" position (located on switch panel beside door entrance). Open the door. The step should descend and lock in extended position with the understep light on. Close the door. The step should retract and lock in up position.

1. **Step Locked in Down Position:**
Open the door and allow step to descend. Flip switch to off. The step should remain in down position with the understep light off when the door is closed.
2. **Step Locked in Up Position:**
Flip switch off while door is closed and step is locked in up position.
3. **Ignition Safety System:**
When the ignition switch is turned on, step will activate with door movement, regardless of door switch position.



Fig. 13-15 STEP

Periodic maintenance including lubrication and cleaning are necessary to keep the step functioning properly.

See manufacturer's manual for operating instructions.

13.20 SCREEN WINDOWS

The screen windows have been designed so that the screen may be removed. To remove the screen, push it up and pull it.



Fig. 13-16 SCREEN WINDOWS

13.21 COFFEE MAKER (OPTIONAL)

See the instruction manual in your information packet.



Fig. 13-17 COFFEE MAKER

13.22 POWER ROOF VENT (OPTIONAL)

Your motorhome may be equipped with optional power roof vents. These are designed to move a lot of fresh air through your motorhome and reduce the need for air conditioning under many circumstances. The vent dome can be raised or lowered using the crank handle. A push button switch turns the fan on or off.

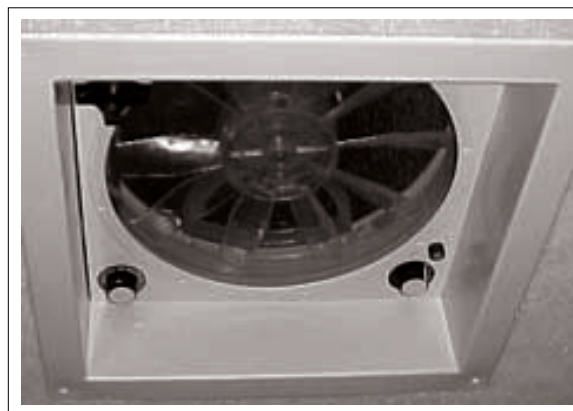


Fig. 13-18 ROOF VENT

13.23 CENTRAL VACUUM SYSTEM

Your motorhome is equipped with a central vacuum system giving you another comfort of home and eliminating the need to carry a residential vacuum cleaner.

The CV system operates on 110-volts.

For full information on the operation, the filter, the bag and anything else, please refer to the CV manufacturer's manual in your information packet.



Fig. 13-24 VACUUM BAG

13.24 WASHER/DRYER HOOK-UPS - COMMANDER ONLY (OPTIONAL)

Your motorhome may be equipped with the water, drain and power requirements to allow the use of a washer and dryer. This feature works best when the unit is connected to city water, sewer and shoreline. This hook-up is in the cabinet next to the galley.

Refer to the washer/dryer manufacturer's manual for more complete instructions.



Fig. 13-19 WASHER/DRYER

14 CARE AND MAINTENANCE

14.1 EXTERIOR

1. **Roof:**

The roof is made of bowed aluminium frame and constructed in a laminated 'sandwich' method. It is strong enough to support the weight of an average adult should it become necessary to repair the roof or any of the roof mounted components. It is not recommended to carry large heavy objects on the roof. The additional strain of the weight along with the movement of the vehicle could cause damage to the roof. Check the roof regularly, especially the sealant around vents, air conditioners, body-to-roof seams, etc. for possible leaks. Any suspected leaks should be repaired immediately. Any leakage could result in damage to the interior of the motorhome.

2. **Underbody:**

Mud and dirt along with corrosive materials used to control dust or ice on the roads can accumulate underneath your motorhome and cause premature deterioration and rusting. In addition, any build-up will add unnecessary weight to the vehicle. It is recommended that the undercarriage and the entire underbody be rinsed and flushed every time the motorhome is washed.

3. **Washing, Waxing and Polishing:**

Damaging salts, calcium chloride, road tar, tree sap, insects and other foreign material have a way of accumulating on the body of your motorhome. To reduce the harmful effects of these agents it is recommended that the motorhome be washed frequently and thoroughly using a mild soap and warm water. Do not wash the exterior in direct sunlight and never use hot water. Pressure washers are not a good idea as they can loosen decals and sealants.

Waxing your R.V. is strongly recommended to counter the effect of U.V. exposure on the exterior fiberglass parts. U.V. exposure will yellow fiberglass parts over time.

Carefully inspect all caulking around windows, doors, and vents as well as all other joints. Recaulk if necessary using the correct caulking material from your Triple E RV dealer.

CAUTION

Never use strong solvents or harsh abrasives on painted surfaces.

If you notice the water failing to bead on the motorhome it is probable time to wax and polish it. This will not only improve the appearance of your motorhome, but will protect the painted surfaces from oxidation and corrosion and make it easier to wash.

4. **Stripes and Decals:**

A few hints and precautions on care and maintenance:

- a. Wash with plain soap and warm water. Rinse thoroughly.
- b. Never wash with high-pressure washer at close range. The force of the water can lift the edges of the decals.
- c. Do not use solvents. They can smear the colors and damage the adhesive.
- d. Never use lacquer thinner or paint on decals.
- e. Avoid splashing gasoline or diesel fuel on decals and stripes. Rinse immediately if it happens.

5. **Exterior Lighting:**

Before each trip, inspect all clearance lights, identification lights, marker lights, stop lights, turn signal lights and backup lights. Replace burned-out bulbs immediately. Keep all light lenses clean with soap and water.

14.2 INTERIOR

Accumulations of dirt and dust not only detract from the appearance of the interior of your motorhome but will shorten the life of the carpets and fabrics. Weekly cleaning and vacuuming is recommended.

1. **Carpets:**

See the manufacturer's carpet care guide on how to clean soil, dirt and stains from the carpet.

2. **Upholstery:**

Care should be taken when cleaning upholstery materials in your motorhome. Do not use just any cleaner or spot remover. Regular vacuuming and wiping with clean water will take care of most stains. Any major cleaning problems should be done by professional cleaners. Cushion covers should be removed and dry cleaned. They are stain guard protected.

IMPORTANT

Direct sunlight will cause fading of upholstery and fabrics. To minimize the effect, close drapes, blinds and shades whenever possible.

3. **Spots and Stains:**

Most spots and stains can be removed by using clear warm water. To keep the stain from spreading, start from the outside of the stain and work toward the center.

Stains such as lipstick, grease, ink or mustard are very hard to remove and will probably require some professional advice or help.

4. **Vinyl Fabrics:**

Vinyl should be cleaned with a soft, damp cloth using a mild detergent. Never use solvents of any kind on vinyl surfaces.

5. **Velvets:**

Come with fire rating cleaning code "S".

CAUTION

Use of water-based and detergent-based solvent cleaners may cause excessive shrinking. Water stains may become permanent and unable to be removed with solvent cleaning agents.

6. **Draperies, Curtains and Bedspreads:**

These are made from a variety of fabrics and will require the help of professional cleaners. It should be noted that some materials will probably shrink by about five percent even when cleaned professionally.

7. **Cabinetry:**

Only the finest wood products have been used in the construction of your motorhome. To clean, use a soft cloth and a high quality wood finish cleaning product available from your Triple E dealer or other RV centers.

The beauty of the wood is in the natural variations in grain and density causing some differences in color and shading.

8. **Walls:**

As a rule, walls can be cleaned easily using warm water and a mild soap. For easier cleaning of accumulated grime, a bit of rubbing alcohol may be added to the water. Never use solvents or abrasives.

9. **Tables and Countertops:**

The plastic laminate on work surfaces will resist solvents, stains and abrasions. A coat of furniture wax will help preserve the beauty and make cleaning easier.

10. **Sinks:**

The acrylic sinks can be cleaned with warm water and soap. Wipe dry to avoid streaks. For stubborn stains, a mild abrasive may be necessary. Always work in the direction of the polish lines.

COMMANDER/EMBASSY

11. Refrigerator:

The interior should be cleaned regularly. Remove shelves and wash the lining with lukewarm water to which a mild soap may be added. Dry thoroughly, especially around door frame and door gasket. Warm water only should be used to wash the cooling evaporator, ice trays and shelves. Never use strong chemicals or abrasive cleaning materials on any part of the cabinet. See manufacturer's information.

12. Power Range Hood:

The filter on your power range hood should be removed, washed with detergent and hot water, rinsed and replaced after each trip. Before replacing the filter, wash the grease and collected dust from the inside hood surfaces with a damp cloth.

13. Range/Oven (option):

a. General:

Regular cleaning with a warm detergent solution and soft cloth will keep your range looking bright and new. This should be done as soon as range cools.

b. Oven Interior:

Clean as soon as possible after use when the oven is cool. Grease spatters that are allowed to become hard and baked on become very difficult to remove. Care must be taken to avoid bending the thermal sensing element, which could cause a variation between the oven temperature and the dial setting. If oven cleaners are used, protect aluminum gas tubing, thermostat sensing element and electrical components from the cleaners. Thoroughly rinse oven with a solution of one tablespoon vinegar to one cup of water and wipe dry.

c. Top Burners:

Top burners (caps and grates) may be cleaned with a detergent solution. If any burner port should become clogged, clean with a toothpick. Never use pins or other metal objects to clean the ports, as they may become enlarged.

14. Micro/Convection Oven:

Consult owners manuals for detailed instructions. Keep the door and inside of your microwave oven clean. Grease, soil or spatter should not be allowed to build up. A build up of soil will absorb microwave energy, just the same as the food you are cooking and may increase the cooking time.

- a. When food spatters or spilled liquids adhere to walls, wipe with a damp cloth. Mild detergents may be used if the oven gets very dirty. The use of harsh detergents or abrasives is not recommended.
- b. The outside oven surface should be cleaned with soap and water, rinsed and dried with a soft cloth. To prevent damage to the operating parts inside the oven, water should not be allowed to seep into the ventilation openings.
- c. If the control panel becomes wet, clean with a soft, dry cloth. Do not use harsh detergents or abrasives on control panel. When cleaning the control panel, leave the oven door open to prevent oven from accidentally turning on. After cleaning touch cancel pad to clear display window.
- d. It is necessary to remove the glass tray for cleaning. Wash the tray in warm sudsy water or in a dishwasher.
- e. The roller ring and oven cavity floor should be cleaned regularly to avoid excessive noise. Simply wipe the bottom surface of the oven with mild detergent water or window cleaner and dry. The roller ring may be washed in mild sudsy water or dishwasher. When removing the roller ring from cavity floor for cleaning, be sure to replace it in the proper position.

15. Bathroom:

a. General:

As a general rule, use warm water and mild soap to clean walls and surfaces in your bathroom. On glass doors and mirrors a good quality glass cleaner may be used. Harsh cleaners, detergents or abrasives should never be used.

b. Shower Compartment:

Use a non-abrasive cleaner to clean your shower compartment. Do not use highly concentrated or high acid contact household cleaners, as these may damage the shower compartment.

c. Solid Surface Counter Tops (Optional Commander):

Gibraltar is non-porous to many household chemicals, stains wipe off with a sponge and soapy water. Gibraltar is virtually immune to stains, impact, water damage and fading caused by exposure to sunlight. If the stain persists use an abrasive household cleaner and a Scotch-Brite pad. Even tougher stains disappear using fine grade (180-220 grit) sandpaper. Buffing afterwards with a Scotch-Brite pad will return the surface to its original satin luster.

d. Toilet:

For instructions on the care of the toilet, refer to the toilet manufacturer's manual.

16. Doors and Windows:

Door locks and hinges should be lubricated periodically with powdered graphite to keep them operating easily and to protect against freeze-up.

Windows should be cleaned using a good glass cleaner. When cleaning ice from windows always use a plastic scraper and avoid damaging the seals and sealant along the edge of the windows.

15 MOTORHOME MAINTENANCE

15.1 CHASSIS CUSTOMER SERVICE

Chassis service is a concern for every vehicle owner. Ford and Workhorse custom chassis have recognized this and have developed nationwide Service Centers. Each service center has the facilities, technicians, equipment and part availability to properly service your motorhome chassis.

15.2 ENGINE ACCESS

To gain access to the engine for most regular service jobs, unlock the front grille and swing it upward. With the grille open you can access the following:

1. Engine Oil Dipstick
2. Engine Oil Filler Pipe
3. Power Steering Reservoir
4. Park Brake Fluid Reservoir
5. Radiator Cap
6. Engine Coolant Overflow Tank
7. Transmission Dipstick and Fill Tube
8. Block Heater Cord



Fig. 15-1 ENGINE ACCESS

15.3 ENGINE COOLING SYSTEM

Refer to the chassis manufacturer's manual for complete information and instructions on checking, filling and servicing the fluid level.

CAUTION

If your motorhome is equipped with an auxiliary rear heater and a motor aid water heater, be sure to allow for adequate coolant capacity.

15.5 TIRES

Make sure to keep tires at the proper level of inflation. Low pressure will cause poor handling as well as exceptional wear and tear on the tires.

CAUTION

When replacing tires make sure to select tires of the same size and ply rating as the ones installed as original equipment.

15.4 AC AND OIL COOLERS

Additional cooling capacity is provided at the front of the vehicle for the oil coolers and air conditioner condenser. Keep all the coolers clean. Access them by opening the front grill.

See the vehicle certification label for information on recommended tires.

16 STORING YOUR RV

All systems, components and appliances should be inspected and repaired prior to storage.

Checklist:

1. Fill fuel tanks to reduce excessive build-up of moisture in the fuel tanks.
2. Check coolant level and add anti-freeze if required, to protect to the lowest expected temperature during storage.
3. Change engine oil to the recommended viscosity to aid cold weather starting.
4. Park motorhome as level as possible, end to end and side to side.
5. Ensure that batteries are fully charged, then disconnect both the main and auxiliary batteries. For maximum battery life recharge monthly.
6. Wash motorhome. If exposed to road salts, the exterior and underside should be thoroughly washed and flushed.
7. Remove all perishables and anything which may freeze (canned goods, medicine, etc.). Leave the refrigerator door open. Be sure controls are turned off.
8. To ventilate closed areas, open drawers, cabinets, closets, etc..
9. Drain the holding tanks, toilet and fresh water system. Deodorize and allow to dry. Turn off the water heater. Drain fresh water tank and water heater. Winterize (to store) water system as detailed in Water System Winterization on page 17-2.
10. Remove the water purifier filter and put it inside where it will not freeze.
11. Turn off LP gas tank valve.
12. Make sure all appliance valves and thermostats are turned off.
13. Check engine transmission and motor generator (if equipped) for evidence of oil leaks.
14. Before moving, run engine at least two minutes with the transmission selector in park position.

17 WINTERIZATION

17.1 COLD TEMPERATURE OPERATION

All motorhomes are built for year-round travel including:

1. Urethane installation undercoating.
2. Insulated and heated holding tank compartment.
3. All plumbing located in heated interior spaces.

Although your motorhome is designed to withstand winter temperatures, we cannot guarantee the vehicle not to freeze. Certain precautions should be taken in preparing for sub-zero temperature travelling.

17.1.1 CHASSIS

Check coolant level and add anti-freeze, if required, to protect against lowest expected temperature. Change engine oil to the recommended viscosity to aid cold weather starting. See the manufacturer's manual for further recommendations.

17.1.2 LP GAS

When travelling in winter, propane is recommended as it will vaporize in extreme cold (above -42 C). Butane is not recommended due to its high vaporization temperature (0C). Use of butane in cold temperatures may block the system and cause components to malfunction. Have a qualified service personnel add approximately .25 liters of methyl alcohol to your LP gas container to prevent freeze-up.

17.1.3 FURNACE

During below freezing temperatures, the furnace must be operating at all times. Remember, although the furnace runs on LP gas, it is powered by 12-volt electrical. the battery in the motorhome must be up to normal levels, 12 volts (or plugged into 120V) or else the furnace will not operate.

17.1.4 WASTE SYSTEM

To prevent winter freeze-up, add RV anti-freeze through the toilet and kitchen drains, directly into the holding tanks. Be sure to add sufficient amounts in order to protect the total volume of the holding tank.

Do not use alcohol-based anti-freeze or other petroleum products.

17.1.5 FRESH WATER SYSTEM

The fresh water system consists of the water tank, the pump and all lines. This entire system is contained inside heated interior spaces. At all times, it is necessary to have the furnace operating. The heated air in the motorhome will circulate around the water tank, pump and water pipes and reduce the possibility of freeze-up.

17.2 COLD TEMPERATURE STORAGE

17.2.1 WATER SYSTEM WINTERIZATION

1. **a.) Commander:** Place the anti-freeze pick up line (located under rear bed) into a container of potable water anti-freeze.

b.) Embassy: Remove the suction hose from the water pump (located under the rear bed). Attach a hose to the suction side of the pump and place this new hose into a jug of potable anti-freeze.

IMPORTANT

Do not use automotive coolant anti-freeze, as this is toxic and will contaminate the water system.

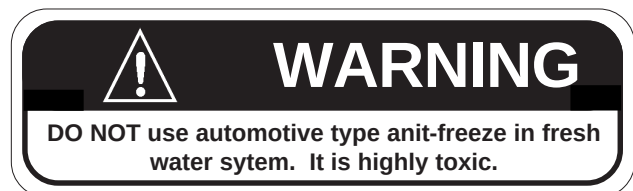
2. Drain the fresh water tank located under the rear bed on some models.
3. Drain the water heater by removing the anode rod from the water heater.
4. Turn the winterizer valve located behind the hot water heater to the winterize position and turn the hot water tank bypass valve to the bypass position.
5. Turn on the pump.
6. Starting with the hot water faucet furthest from the pump, open the faucets (both hot and cold) until antifreeze appears. Do this on all faucets, hot and cold. Do not forget the toilet, shower and exterior shower. When red anti-freeze appears let about a cup run down the drain, this will winterize the trap, then close the faucet.
7. Shut off the exterior shower winter valves. (if equipped)
8. Turn off the pump.
- 9.. Open one faucet to releave the pressure. Remove the screen at the city water connection and press the valve inside the inlet with a small screw driver until anit-freeze starts to flow. This will ensure frost protection for the inlet pipe.

17.2.2 DE-WINTERIZE WATER SYSTEMS

1. Fill the water tank with clean water.
2. Turn the winterize valve to the normal position.
3. Turn on the pump.
4. Open the water faucets (both hot and cold) furthest away from the water tank. Run the water until clear water appears. Shut off the faucet, and do this to all hot and cold faucets and toilet.
5. Open the exterior shower valves (if equipped) and run the exterior shower until clear water appears.
6. Turn the hot water bypass valve to "normal flow".

CAUTION

Do not turn the water heater bypass valve to the normal position until clear water appears at all faucets.



17.2.3 WATER PURIFIER (OPTIONAL COMMANDER ONLY)

To winterize:

1. Shut off in-line water valve located under the galley sink.
2. Unscrew the plastic water lines from the purifier.
3. Remove and drain the unit.
4. Store water purifier in an area where temperature remains above the freezing point.

17.2.4 WASHER/DRYER (COMMANDER ONLY)

If your unit has a washer, run the washer (both hot and cold taps) until anti-freeze starts to flow into the drum. Turn the water temperature to "warm" to winterize both the hot & cold water lines. Once anti-freeze is seen in the drum, turn the washer to the spin cycle to remove the anti-freeze. Turn off the washer and close the hot & cold faucets. The Washer is now winterized.

18 WARRANTY POLICY

TRIPLE E RECREATIONAL VEHICLES WARRANTY POLICY

(Effective 2002 Model Year)

1. BASIC COVERAGE

A. Major Component Warranty:

TRIPLE E RECREATIONAL VEHICLES (HERE AFTER KNOWN AS TRIPLE E RV) HAS WORKED WITH OUR MAJOR COMPONENT SUPPLIERS AND IS PLEASED TO OFFER A TWO-YEAR MAJOR COMPONENT WARRANTY FROM PARTICIPATING SUPPLIERS. Components included are listed in Attachment A.

B. Structural Warranty:

TRIPLE E RV IS ALSO PLEASED TO PROVIDE A TWO-YEAR LIMITED STRUCTURAL WARRANTY. Triple E RV warrants to the first retail purchaser from an authorized dealer that the structural components (roof, floor, front, rear and sides) of the product will be free of substantial structural defects in material and workmanship of a period for 24 months or 40,000 km (whichever occurs first) after the date of purchase by the original retail purchaser from an authorized dealer. This is limited to making good at our factory, any part or parts thereof upon return to the factory. This warranty applies provided that all applicable sections of this warranty policy are met. The remainder of the structural warranty is transferable to a second owner upon application to Triple E RV.

C. Coach Warranty:

Triple E Recreational Vehicles warrants the specified new vehicle to be free from defects in material and workmanship under normal use and service. Obligation under this warranty shall be limited to twelve (12) months or 20,000 kilometers, whichever occurs first, after the date of purchase by the original retail purchaser from an authorized dealer and shall be limited to making good at our factory, any part or parts thereof upon return to the factory. The odometer accumulation on a vehicle driven from Triple E Recreational Vehicles to the dealership will be added to the odometer warranty allowance. The remainder of the coach warranty is transferable to a second owner upon application to Triple E RV.

D. Chassis Warranty:

Covered under separate warranty by original manufacturer, i.e. Ford, G.M or Workhorse Custom Chassis.

COMMANDER/EMBASSY

2. WHAT IS NOT COVERED:

This warranty will not apply where a motor home or trailer has been altered outside our factory in any way so as to, in our judgement, affect its stability or reliability, or which has been subject to misuse, negligence or accident.

Any loss resulting from abuse or misuse, failure to properly winterize, failure to have regular servicing performed, such as user maintenance, adjustments, tune-ups, alignments, road service, failure to protect the motorhome from further damage if an indication of damage occurred, failure caused by overheating (regardless of cause), contamination of lubricants, coolants including failure of hoses, connections and lines is not covered. It is the responsibility of the owner to operate and maintain the motorhome or trailer as recommended in the owner's manual. Regular scheduled maintenance is essential.

We may restrict the warranty on your unit if it is not properly maintained, or is abused, and if the neglect or abuse interferes with the proper functioning of the RV. If the warranty is restricted, coverage may be denied or subject to our approval before repairs are performed.

Those damages incurred by collision, upset, fire, theft, explosion, missiles, breakage of glass, earthquakes, vandalism, civil commotion, acts of God, lightning, malicious mischief, water, flood, rust, hail, larceny, freezing, corrosion, condensation, smoke, or nuclear contamination, losses to any property or injury and/or death to any persons regardless if the damage or injury was caused by your vehicle or its parts are not warranted by the manufacturer.

This warranty does not cover any component which is not manufactured by Triple E Recreational Vehicles or any component under separate warranties from its manufacturer (tires, batteries, refrigerator, stove, heaters, chassis, powertrain, etc for example). Triple E Recreational Vehicles shall not be held responsible or liable in any manner with respect to these components.

Items such as sealant, trims, fabrics, floor coverings, upholstery, drapery, blinds, paint, gelcoat, and decals may experience normal pigmentation change and deterioration of material from use or weather. This is considered normal and is not covered by warranty.

Consequential damages such as loss of your vehicle, loss of time, inconvenience, expense for fuel, transportation to and from the dealer or the manufacturing plant location, bus fares, telephone, travel, rental vehicle, overnight accommodation, loss or damage to your personal property, commercial loss, loss of income, loss of use, or other incidental or consequential damages or expenses are not warranted by the manufacturer.

Note: Some States and Provinces do not allow the exclusion or limitation of incidental or consequential damages, thus the limitation in the paragraph above may not apply to you

3. Other Notes Regarding Warranty

This warranty is expressly in lieu of all other warranties expressed or implied and all other obligations or liabilities on our part of any kind of character, including liabilities for alleged representation or negligence. We neither assume nor authorize any other person to assume for us any liability in the connection with the sale of our product other than expressed herein.

COMMANDER/EMBASSY

We shall not be responsible for commercial loss, special or consequential damages resulting from breach of these written warranties, or any implied warranty or condition.

All correspondence should be directed to the Dealer from whom the product was purchased and must specify the serial number and date of purchase of the product in question.

This warranty is not valid unless the warranty registration has been completed at the time of purchase. The warranty card that you will receive must be presented when requesting any warranty repair.

This warranty is the only express warranty made by us applicable to this motorhome. Any implied warranty or condition or condition of merchantability or fitness for a particular purpose applicable to this product is limited in duration to the duration of this warranty.

Note:

It may become necessary for you (the retail owner) to have warranty work done at a site other than an authorized Triple E RV Dealer. If this is the case the repair center must obtain prior authorization from Triple E Recreational Vehicles before the warranty work can begin to ensure warranty coverage is available and that the rates are acceptable.

The repair center must call the Triple E RV Warranty Dept at 1-204-325-4361 for authorization.

Note: Product improvement is an ongoing process at Triple E RV. Thus we reserve the right to change specification, operating instructions, standards and options on any and all products without prior notice. Errors and Omissions excepted.

COMMANDER / EMBASSY

Attachment A – Major Component Listing for 2 Year Warranty

- Refrigerator
- Furnace
- Water Heater
- Roof Air Conditioners
- TV Antenna
- Range and Oven
- Microwave
- Water pump
- Power Converter
- Awning
- Television and VCR
- Generator
- Dash Air
- Toilet
- Stereo (Both Dash and Bedroom)
- Slide Out Room Mechanisms (if equipped)
- Rear Camera
- Hydraulic Jacks (if equipped)
- Roof Vents (Both power and standard vent)
- Range Hood
- Coffee Maker

The warranty for these components is extended through the major component manufacturer. Consult your Owner's package for details and claim procedures of the warranties on these components as they do differ between suppliers. The terms of these extended warranties are as specified in each of the specific manufacturer's brochures.

Triple E RV will not provide a free warranty replacement or credit for defective product if the major component supplier in question has suspended operations or become insolvent. If this rare situation were to occur, Triple E RV will offer a suitable substitute alternative product at a preferred price and absorb all labor costs necessary to reconfigure the replacement product to fit into the specific vehicle.

In some cases the remainder of the major component warranties may be transferable to a second owner. It is the second owner's responsibility to contact these suppliers to apply for this warranty transfer.

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Maintenance Schedule

All recommended maintenance procedures are of great importance. Maintenance intervals, checks and inspections recommended in this manual are necessary to keep your vehicle in good working condition. Any damage caused by failure to follow recommended maintenance may not be covered by warranty. General maintenance work is considered the owners responsibility. Contact your selling dealership for any necessary assistance.

Motorized Maintenance Schedule

CM = must be done by Certified Mechanic

	Pre-Trip	Weekly	Monthly	3-Months	6-Months	Annually	As necessary	As Required by component mfg.
Interior								
Clean and dust fabrics								
Clean and dust countertops and cabinets								
Clean and dust floors								
Exterior								
Clean Roof								
Check roof for surface damage								
Clean walls								
Wax front and rear caps								
Sealants								
Check for cracks or missing sealant								
Replace or redo sealant								
Electrical System								
Check battery connections and fluid level								
Check 12-volt fuses and 120-volt breakers								
Test GFI receptacles								
Generator								
Generator maintenance instructions								CM
Check Generator								
LP System								
Check LP pressure at 11" WC							CM	

Motorized Maintenance Schedule

	Pre-Trip	Weekly	Monthly	3-Months	6-Months	Annually	As necessary	As Required by component mfg.
CM = must be done by Certified Mechanic								
Plumbing System								
Sanitize plumbing system								
Check plumbing system fittings								
Winterize plumbing system								
Winterize City water connection								
Water Heater								
Water Heater maintenance instructions								
Operate pressure relief valve								
Flush tank								
Check burner for proper adjustment							CM	
Check electrode							CM	
Check module board circuits							CM	
Refrigerator								
Refrigerator maintenance instructions								
Check and clean exterior vent								
Check and clean baffle								
Furnace								
Furnace maintenance instructions								
Roof Air Conditioner								
A/C maintenance instructions								
Clean Air Filter								
Check for exterior damage								

Motorized Maintenance Schedule

	Pre-Trip	Weekly	Monthly	3-Months	6-Months	Annually	As necessary	As Required by component mfr.
CM = must be done by Certified Mechanic								
Range Top / Oven								
Range maintenance instructions								
Check and clean burner assembly								
Frame and Chassis								
Chassis maintenance instructions								CM
Check and clean frame components								
Check and clean hitch and reciever								
Check tire pressure and tread wear								
Suspension								
Check air bag pressure (Gas powered units only)								
Check wheel bearings							CM	
Check brake assemblies							CM	
Hydraulic Slide-out & Leveling System								
Check oil level								
Check hydraulic lines								
Check adjustment and function								
Miscellaneous								
Lube locks, hinges, and latches								
Lubricate electric step								
Safety Equipment								
Check Smoke detector								
Check LP detector								
Check Carbon Monoxide detector								
Check Fire Extinguisher								



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