



CLASS C & B⁺
MOTORHOME
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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146-4588-NOV10**

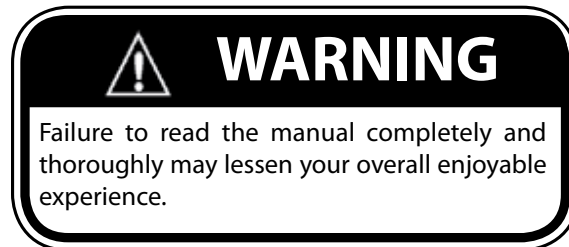
CLASS B+ & C MOTORHOME

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

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CLASS B+ & C MOTORHOME

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 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 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 RV dealer** or
Triple E Recreational Vehicles
301 Roblin Blvd., Box 1230
Winkler, Manitoba Canada
R6W 4C4
Tel: (204) 325-4361
Fax: (204) 325-5241
E-mail: customerservice@tripleerv.com

1.2 INFORMATION PACKAGE

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

- | | |
|-------------------------------|-------------------------|
| 1. Chassis | 12. Rear View Monitor |
| 2. Air Conditioning | 13. Electric Step |
| 3. Generator | 14. Fridge |
| 4. Furnace / Thermostat | 15. Macerator |
| 5. General Operation | 16. Plumbing Fixtures |
| 6. Entertainment System | 17. Roof and Side Walls |
| 7. Leveling System | 18. Appliances |
| 8. Air Suspension | 19. Converter |
| 9. Water Heater | 20. Inverter |
| 10. Safety | 21. Satellite Dish |
| 11. Flooring and Counter Tops | |

1.3 OPTIONS AND EQUIPMENT

The Triple E Recreational Vehicles 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.

CLASS B+ & C MOTORHOME

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.

SPECIFICATION NAMEPLATE

DO NOT REMOVE/NE PAS ENLEVER
RECREATIONAL VEHICLE SPECIFICATION NAMEPLATE PLAQUE SIGNALÉTIQUE POUR VÉHICULE RÉCRÉATIF

MANUFACTURER/FABRICANT _____ DATE OF MANUFACTURE
 DATE DU FABRICANT _____

FACTORY ADDRESS/ADRESSE DE L'USINE _____

TRADE NAME _____ MODEL NO. _____ SERIAL NO. _____
 MARQUE DE COMMERCE NO DE MODÈLE NO DE SÉRIE

CSA CERTIFICATION LABEL No. _____ ÉTIQUETTE DE CERTIFICATION ACNOR NO _____

NOTE: (1) This specification plate and the exterior CSA Label provides the only evidence of CSA Certification.
 Cette plaque signalétique ainsi que l'étiquette extérieure ACNOR constituent les seules preuves de la certification ACNOR.
 (2) CSA Certification covers the systems noted below only when installed by the vehicle manufacturer.
 La certification ACNOR englobe les installations indiquées ci-dessous uniquement si leur placement est effectué par le fabricant du véhicule.
 (3) Any additions or modifications to factory installed systems must be authorized by the appropriate provincial or municipal authorities having jurisdiction.
 Toute adjonction ou modification aux installations dont le placement est effectué à l'usage doit être approuvée par les autorités provinciales ou municipales compétentes.
 (4) (NA) Under the heading "FACTORY INSTALLED APPLIANCES" indicates appliances not factory installed.
 "NA" sous l'en-tête "Appareils installés à l'usine" indique des appareils non installés à l'usine.

FACTORY INSTALLED APPLIANCES / APPAREILS INSTALLÉS À L'USINE		
MAXX MARQUE	MODEL MODÈLE	FUEL (Gas or Electric) COMBUSTIBLE (gaz ou électrique)
1. FURNACE _____	_____	FOURNAISSE À AIR CHAUD _____
2. WATER HEATER _____	_____	CHAUFFE-EAU _____
3. RANGE _____	_____	CUISINIÈRE _____
4. REFRIGERATOR _____	_____	RÉFRIGÉRATEUR _____
5. GENERATOR _____	_____	GÉNÉRATEUR _____
6. AIR CONDITIONER _____	_____	CLIMATISEUR _____
7. MICROWAVE OVEN _____	_____	MICRO-ONDE _____
8. _____	_____	_____

ELECTRICAL SYSTEM: INSTALLATION ÉLECTRIQUE: _____ Volts _____ Hertz _____ Amperes

PLUMBING SYSTEM: Pressure system tested at 690 kPa (100 psi). INSTALLATION DE PLOMBERIE: Installation sous pression éprouvée à 690 kPa (100 psi).

WARNING / AVERTISSEMENT

GAS SYSTEM: INSTALLATION DE GAZ.
 TO ENSURE A SUPPLY OF FRESH AIR TO OCCUPANTS, OPEN VENTILATORS WHEN FUEL-BURNING RANGE AND/OR LIGHTS ARE IN OPERATION.
 POUR ASSURER AUX OCCUPANTS UNE CIRCULATION D'AIR FRAIS, OUVRIER LES VENTILATEURS TANT QUE FONCTIONNEMENT LA CUISINIÈRE OU DES LAMPES À GAZ.
 THIS SYSTEM IS DESIGNED FOR USE WITH PROPANE ONLY. DO NOT CONNECT NATURAL GAS TO THIS SYSTEM.
 CETTE INSTALLATION EST CONÇUE POUR LE PROPANE SEULEMENT. NE PAS L'ALIMENTER EN GAZ NATUREL.

BEFORE TURNING ON PROPANE / AVANT LA MISE EN SERVICE
 (a) BE CERTAIN APPLIANCES ARE CERTIFIED FOR PROPANE AND ARE EQUIPPED WITH CORRECT BURNER ORIFICES.
 S'ASSURER QUE LES APPAREILS SONT CERTIFIÉS POUR LE PROPANE ET MUNIS D'ORIFICES DE BRÛLEUR APPROPRIÉS.
 (b) MAKE CERTAIN ALL PROPANE CONNECTIONS ARE TIGHT BY TESTING WITH SOAPY WATER, ALL APPLIANCE VALVES ARE TURNED OFF, AND ANY UNCONNECTED OUTLETS ARE CAPPED.
 VÉRIFIER L'ÉTANCHÉITÉ DE TOUTS LES RACCORDEMENTS AU PROPANE, LA FERMETURE DE TOUTS LES ROBINETS D'APPAREILS ET L'OBSTRUCTION DE TOUTES LES SORTIES NON RACCORDEES.

AFTER TURNING ON PROPANE / APRÈS LA MISE EN SERVICE
 (a) LIGHT ALL PILOTS.
 ALLUMER TOUTES LES VEILLEUSES.
 (b) ALL CONNECTIONS INCLUDING THOSE AT THE APPLIANCES, REGULATORS, AND CYLINDERS SHOULD BE LEAK-TESTED PERIODICALLY WITH SOAPY WATER BY THE OCCUPANT. NEVER USE A LIGHTED MATCH OR OTHER FLAME WHEN CHECKING FOR LEAKS.
 L'OCCUPANT DOIT ÉPROUVER PÉRIODIQUEMENT L'ÉTANCHÉITÉ DE TOUTS LES RACCORDEMENTS, Y COMPRIS CEUX AUX APPAREILS, AUX DÉTACHÉURS ET AUX BOUTELLES, EN Y APPLIQUANT DE L'EAU SAVONNEUSE. NE JAMAIS DE SERVIR D'UNE ALLUMETTE OU AUTRE FLAMME POUR LA DÉTECTION DES FUITES.
 (c) DO NOT LEAVE SYSTEM TURNED ON OR CONTAINERS CONNECTED UNTIL THE SYSTEM HAS BEEN PROVEN TO BE FREE OF ANY LEAKS.
 NE PAS LAISSER L'ALIMENTATION OUVERTE, NI LES RÉCIPIENTS RACCORDEES, AVANT D'AVOIR COMPLÉTÉ L'ÉPREUVE D'ÉTANCHÉITÉ AU PROPANE DE L'INSTALLATION.
 (d) COOKING APPLIANCES SHOULD NOT BE USED FOR SPACE HEATING.
 LES APPAREILS DE CUISSON NE DOIVENT PAS ÊTRE UTILISÉS POUR LE CHAUFFAGE DES LOCAUX.
 (e) WHEN THE CONTAINERS ARE DISCONNECTED THE PROPANE SUPPLY LINE SHOULD BE CAPPED OR PLUGGED. LORSQUE LES RÉCIPIENTS SONT DÉCONNECTÉS, L'ALIMENTATION DE PROPANE DOIT ÊTRE OBSTRUÉE OU SOUILLÉE.

VEHICULAR SYSTEM: WARNING - IT IS RECOMMENDED THAT HIGHWAY AUTHORITIES BE CONSULTED ON REGULATIONS APPLICABLE IN AREAS INTO WHICH THIS UNIT MAY BE MOVED ESPECIALLY IN REGARD TO MAXIMUM ALLOWABLE LENGTHS AND WIDTHS.
INSTALLATION VÉHICULAIRE: AVERTISSEMENT - IL EST RECOMMANDÉ DE CONSULTER LES AUTORITÉS ROUTIÈRES AU SUJET DES RÉGLEMENTS APPLICABLES DANS LES RÉGIONS À L'INTÉRIEUR DESQUELLES CETTE UNITÉ PEUT ÊTRE TRANSPORTÉE, PARTICULIÈREMENT EN CE QUI CONCERNE LES LONGUEURS ET LARGEURS MAXIMALES ADMISSIBLES.

Gross Vehicle Weight Rating (GVWR) _____ kg Poids brut maximal de remorquage (PBR)
 Cargo-Carrying Capacity _____ Capacité de chargement
 Tongue Load Range _____ Capacité de charge de timon

This vehicle requires a Class _____ Hitch on towing vehicle. Ce véhicule exige une attache de classe _____ sur le véhicule tracteur

Minimum Tire Size & Ply Rating _____ Dimensions minimales des pneus et nombre de plis
 Recommended Cold Tire Inflation Pressure _____ Pression recommandée pour le gonflage des pneus à froid

FORM 83.2 (REVISED 06/09)
 FORMULE (REVUE 06/09)

1.5 VEHICLE CERTIFICATION LABEL

This label contains vehicle identification and other important reference information. The vehicle certification label is located on the driver's door or door frame. Never remove or destroy this label.

CERTIFICATION LABELS

MANUFACTURED BY / FABRIQUE PAR:		DATE:	
DESIGNATED SEATING CAPACITY / NOMBRE DESIGNÉ DE PLACES ASSISSES:			
GVWR/PWBV		X 70 KG =	KG
GVWR/PWBV		KG	LB
FRONT/ AVANT	KG	TIRES/PNEU	RINSUJANTE
INTERM/ INTERM	KG		COLD INFL. PRESS./PRESS. DE GONFL. A FROID
REAR/ ARRIERE	KG		KPA SINGLE DUAL
	LB		PSI/LPG <input type="checkbox"/> <input type="checkbox"/>
			KPA SINGLE DUAL
			PSI/LPG <input type="checkbox"/> <input type="checkbox"/>
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

Custom Paint Colors
2003 Blue Horizon Decor
Skirt 1991 Ford Mocha Frost
RM #21146 Mfg. #DD

COLOR CODE SAMPLE

CARGO-CARRYING CAPACITY: CALCULATED WITH THE FRESH WATER TANKS FULL (COLD HOT AND THE WASTE WATER TANKS EMPTY	KG. 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.) KG.
MASS OF WASTE WATER TANKS FULL:	KG.	MASSE DES RÉSERVOIRS D'EAUX USÉES PLEINS:	KG.
			FD-129

CANADIAN

MOTORHOME WEIGHT INFORMATION		CD-130
VIN OR SERIAL NUMBER		
CARGO CARRYING CAPACITY (CCC) COMPUTATION		
GVWR (GROSS VEHICLE WEIGHT RATING) IS THE MAXIMUM PERMISSIBLE WEIGHT OF THIS FULLY LOADED MOTORHOME.		POUNDS KILOGRAMS
MINUS-UVW (UNLOADED VEHICLE WEIGHT) IS THE WEIGHT OF THIS MOTORHOME AS MANUFACTURED AT THE FACTORY WITH FULL FUEL, ENGINE OIL AND COOLANTS.		
MINUS-FRESH WATER WEIGHT OF	GALLONS @ 8.3 LB./GAL.	
MINUS-PROPANE WEIGHT OF	GALLONS @ 4.2 LB./GAL.	
MINUS-SCWR (SLEEPING CAPACITY WEIGHT RATING) IS THE MANUFACTURER'S DESIGNATED NUMBER OF SLEEPING POSITIONS MULTIPLIED BY 154 POUNDS (70 KILOGRAMS). OF	PERSONS @ 154 LB./PERSON	
= CCC (CARGO CARRYING CAPACITY) IS EQUAL TO GVWR MINUS EACH OF THE FOLLOWING: UVW, FULL FRESH (POTABLE) WATER WEIGHT (INCLUDING WATER HEATER), FULL PROPANE WEIGHT AND SCWR. FOR THIS MOTORHOME*		
GCWR (GROSS COMBINATION WEIGHT RATING) MEANS THE MAXIMUM ALLOWABLE LOADED WEIGHT OF THIS MOTORHOME AND ANY TOWED TRAILER OR TOWED VEHICLE. *DEALER INSTALLED EQUIPMENT AND TOWED VEHICLE TONGUE WEIGHT WILL REDUCE CCC		
WARNING: CONSULT OWNER MANUAL(S) FOR SPECIFIC WEIGHING INSTRUCTIONS AND TOWING GUIDELINES INCLUDING AUXILIARY BRAKE REQUIREMENTS FOR ANY TOWED TRAILER OR TOWED VEHICLE.		

U.S.

CLASS B+ & C MOTORHOME

1.5.1 DEFINITIONS:

1. Recreational Vehicle manufacturer.
2. R.V. manufacture date.
3. Month and year of manufacture at Triple E Recreational Vehicles.
4. **Gross Vehicle Weight Rating (GVWR):**
The maximum permissible weight of this fully loaded motorhome.
5. **Unloaded Vehicle Weight (UVW):**
The weight of this motorhome as manufactured at the factory with full fuel, engine oil and coolants.
6. **Cargo Carrying Capacity (CCC):**
Is equal to GVWR minus each of the following: UVW, full fresh (potable) water weight (including water heater), full LP - Gas weight and SCWR.
7. **Gross Combination Weight Rating (GCWR):**
The maximum allowable loaded weight of this motorhome and towed trailer or towed vehicle.
8. **Sleeping Capacity Weight Rating (SCWR):**
The mfg's designated number of sleeping positions multiplied by 154 lbs (70 Kgs).
9. **Gross Axle Weight Rating (GAWR):**
The value specified as the load carrying capacity of a single axle system, as measured at the tire-ground interfaces.
10. **Tires:**
Tires recommended to meet handling and safety requirements
11. **Rims:**
Wheel rims recommended to meet handling and safety requirements.
12. **Cold Tire Inflation Pressure:**
Inflation pressures recommended (while cold) for the tires originally equipped on your vehicle.
13. **Rear Axle Wheel Configuration:**
Single axle/Dual wheels.
14. **Serial Number:**
Identifies the sequence number assigned to the completed vehicle by Triple E Recreational Vehicles.
15. **Vehicle Identification Number (VIN):**
Identifies the chassis on which the motorhome is built.
16. **Type:**
States the National Highway Traffic Safety Association (NHTSA) designated usage classification for your motorhome. MPV signifies a Multi-purpose Passenger Vehicle.
17. **Model:**
Lists the Triple E product model number of your vehicle.
18. **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 is located in the wardrobe beneath the specification sheet.



**IDENTIFICATION
INFORMATION
LABEL LOCATED
ON DRIVER DOOR
FRAME**

NOTE

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

1.6 IDENTIFICATION INFORMATION

Take a few minutes to fill in this information. It will be a handy reference for you. (Some appliances may be optional).

Your Name _____ **Motorhome Model** _____

Coach Serial No. _____ **Chassis Serial No.** _____

Date Purchase _____ **Dealer Name** _____

Address _____ **Phone No.** _____

INSURANCE POLICY

Agent Name _____ Agent's Phone _____ Policy No. _____

RANGE/OVEN

Manufacturer _____ Model _____ Serial No. _____

MICROWAVE OVEN

Manufacturer _____ Model _____ Serial No. _____

STEREO

Manufacturer _____ Model _____ Serial No. _____

WATER HEATER

Manufacturer _____ Model _____ Serial No. _____

FURNACE

Manufacturer _____ Model _____ Serial No. _____

AIR CONDITIONER

Manufacturer _____ Model _____ Serial No. _____

GENERATOR

Manufacturer _____ Model _____ Serial No. _____

TELEVISION

Manufacturer _____ Model _____ Serial No. _____

MISCELLANEOUS

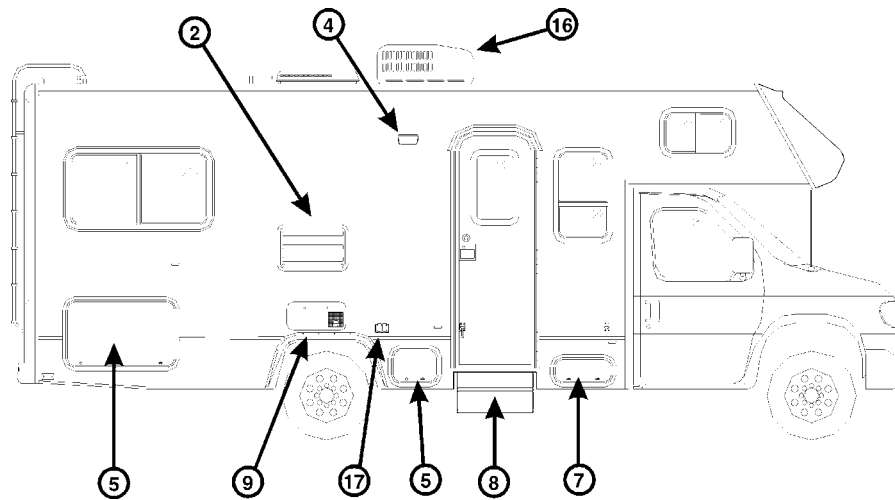
Entrance Door Key No. _____ Digital Door Lock Code _____

Paint Codes _____

CLASS B+ & C MOTORHOME

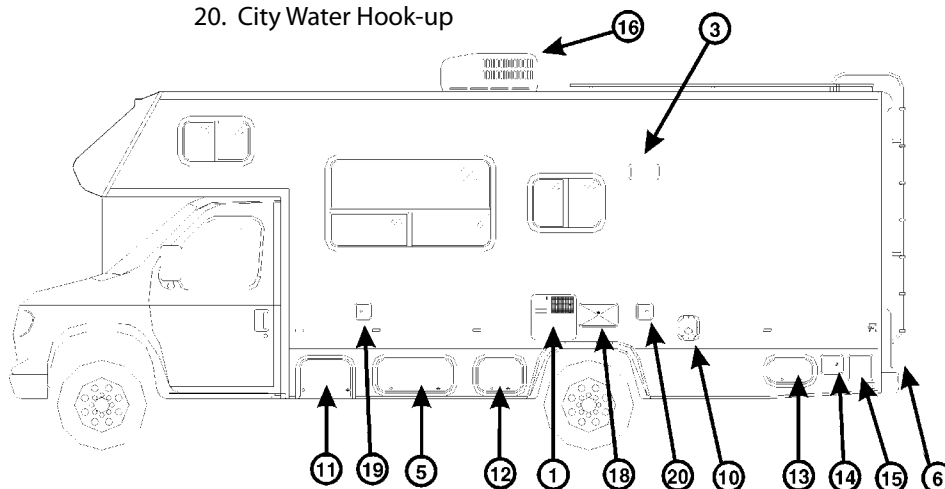
1.7 EXTERIOR FEATURE IDENTIFICATION (Typical)

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



EXTERIOR IDENTIFICATION (RIGHT SIDE)

- | | |
|----------------------------------|-------------------------------|
| 1. Water Heater Service Access * | 11. Battery Compartment |
| 2. Refrigerator Service Access | 12. Storage Compartment |
| 3. Range Hood Vent | 13. Holding Tank Drain Valves |
| 4. Porch Light | 14. Sewer Hose Storage |
| 5. Generator Compartment | 15. Shore Power Hookup |
| 6. Spare Tire | 16. Roof Air Conditioner |
| 7. Propane Tank | 17. Exterior 120 Volt Plug in |
| 8. Entrance Step | 18. Exterior Shower |
| 9. Furnace Service Access * | 19. Fresh Water Tank Filler |
| 10. Fuel Tank Filler | 20. City Water Hook-up |



EXTERIOR IDENTIFICATION (LEFT SIDE)

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) in the U.S., or in Canada contact Transport Canada (DOT) and report your concern.

The NHTSA or DOT 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 1-888-327-4236 (TTY: 1-800-424-9153) or by writing to: NHTSA, 400 Seventh St, S.W., Washington, DC 20590 or website: <http://www.safercar.gov>. 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 engineers and 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 the motorhome one of the finest motorhomes on the road today:

1. Passenger Comfort

- a. Roof mounted, 13,500 BTU air conditioner. Available with the air conditioner is a heat pump to supplement the forced air furnace.
- 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. 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. Vinyl/Foam ceiling headliner for warmth and noise reduction.
- g. Electronic ignition water heater with motor-aid.

2. Unit Protection

- a. Composite all-weather exterior finish. Easy to maintain. Will not rust or pit.
- b. Seamless FRP one piece roof sheathing 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. Enclosed to protect against road damage. (on most systems)
- f. Simplified manual water winterization system complete with water heater bypass.
- g. Ultraviolet stabilized exterior components to resist fading and deterioration.
- h. All exposed metal components are undercoated to prevent rust. Optional rust protection available.

CLASS B+ & C MOTORHOME


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 from 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 a safe 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. An untrained or uninformed operator exposes 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. When occupied while driving, each must be locked in the forward facing direction. Each driver and 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 sleeping, cooking, bathroom, or living areas.
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.
8. **Always exercise extreme care and caution when climbing onto and walking on the roof.**

CLASS B+ & C MOTORHOME

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 roads or soft surfaces. When towing a vehicle or trailer allow for extra starting and stopping time. See Section 3.1.3 for vehicle or trailer towing.
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 fuel tank, generator fuel tank or LP gas tank.
2. Extinguish all pilot lights before refuelling.
3. Do not fill the LP gas 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 the bubbles. Close valve on tank and latch all covers, caps and doors after filling system.
7. Do not connect natural gas 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 to provide access to master valve to gas system. Open access allows emergency workers to close master valve if an emergency occurs.



WARNING

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 or diesel 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

Certain building products such as particleboard, fiberboard, and hardwood plywood are manufactured with an adhesive containing urea-formaldehyde. These products emit a small quantity of formaldehyde into the air. Other products contain formaldehyde or urea-formaldehyde resins, such as some carpets, draperies, upholstery, fabrics, deodorizers, cosmetics, and permanent-press fabrics. Formaldehyde is also a by-product of combustion and is produced by cigarettes and gas appliances.

WARNING: FORMALDEHYDE LEVELS IN THE INDOOR AIR CAN CAUSE TEMPORARY EYE AND RESPIRATORY IRRITATION AND MAY AGGRAVATE RESPIRATORY CONDITIONS OR ALLERGIES. Elderly persons and young children as well as anyone with a history of asthma, allergins, or lung problems may be at greater risk.

The concentration of formaldehyde in the indoor air depends on the quantity and emission rates of all emitting products in the structure compared to the volume of indoor air and the fresh air ventilation rate. Reduced ventilation may allow formaldehyde and other contaminants to accumulate in the indoor air. To reduce indoor contaminants open vents, windows, and doors or operate the air conditioner.

NOTE:

All materials used meet or exceed all current carb regulations.

2.6 LP GAS LEAKS

1. Check your RV unit for gas leaks annually before you start using it for the season.
2. If you smell gas shut off the gas supply imediatly. Do not operate electrical switches. Air out the unit and have the gas system checked before using again.
3. Use soapy water to check for leaks and watch for bubbles. Do not use an open flame.
4. Correct or repair leak(s) before using appliances or vehicle again.

A warning label has been placed in the vehicle near the range area.



WARNING

IF YOU SMELL GAS

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

CLASS B+ & C MOTORHOME

2.7 ALARMS

1. Refer to the alarm Manual(s) in the Owner's information Package for more detailed information.
2. 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.
3. **LP Gas Alarm:**
 - a. Sounds whenever there is an unsafe amount of gas in the vehicle.
 - b. Follow instructions on safety sign and air out vehicle to silence alarm.
 - c. Have a qualified service man find the leak and correct the problem before using unit again.
4. **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 man 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.
5. **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.

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 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.

1. Tie, strap or secure all tables, chairs and other furniture before travelling.
2. Close, latch or lock all doors, panels and gates before travelling.
3. Stow all luggage or similar cargo inside your RV.
4. Stow all cooking, serving, eating and other loose components before moving.
5. 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.

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 are hot. Steam or hot fluid can be released. Check coolant level in the 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 types of tires can affect handling characteristics. Replace with the same size, type and load rating.
5. Do not go under a vehicle with the key in the ignition.
6. Do not go under a vehicle without the emergency brake engaged.

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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).

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 Canada or U.S. Department of Transport Sticker located on the driver door post.

The (GVWR) Gross Vehicle Weight Rating, is the maximum permissible weight of the motorhome. The GVWR is equal to or greater than the sum of the unloaded vehicle weight plus the net carrying capacity.

The (UVW) Unloaded Vehicle Weight is the weight of the motorhome as built at the factory. It includes full fuel, engine oil and coolants. The UVW does not include cargo, fresh water, LP Gas, Occupants, or dealer installed options. The (NCC) Net Carrying Capacity, is the maximum weight of all occupants including the driver, personal belongings, food, fresh water, LP Gas, Tools, Dealer Installed Accessories, etc., that can be carried by this motorhome. (NCC is equal to or less than the GVWR minus UVW).

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

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

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

Compare the gross vehicle weight 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 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
Do not overload Baggage Compartments
Total Vehicle Load Not to Exceed The Maximum GVWR/GAWR/GCWR Of The Chassis.

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3.1.3 TRAILER / VEHICLE TOWING

Towing a vehicle or trailer places extra demands on your driving skills and affects the handling, durability, performance and economy of your motorhome.

The factory installed towing hitch is rated as a medium duty Class III hitch. The maximum hitch or tongue weight should not exceed 500 lb. The maximum trailer or towed vehicle weight should not exceed 5000 lb. Refer to the hitch label.

The combined weight of the motorhome and the towed unit should not exceed the Gross Combined Weight Rating (GCWR). Also, the combined weight of the motorhome and towed unit hitch weight 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.

CAUTION

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

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.

Make sure your towed unit is equipped and connected to your motorhome with the proper brake system that meets the applicable state or provincial regulations. Many states require a separate braking system on towed vehicles or trailers with a loaded weight of more than 1,500 pounds (680 Kg). For your safety it is recommended that a separate functional brake system be used on any towed vehicle or trailer. Your motorhome is equipped with additional wiring with electrical power for a brake controlling device. See your RV dealer for additional equipment and towing information. Also see your towed vehicle owners guide for further information.

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



TRAILER HITCH



WARNING

For safety towing and vehicle handling, maintain proper vehicle and trailer weight distribution.

The total weight of the motorhome and the vehicle towed must not exceed the GCVW rating as stated on the Vehicle Certification label.

3.1.4 PARKING, LEVELLING AND BLOCKING

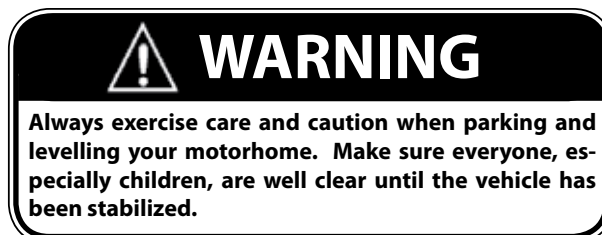


PARKING

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.

Use manual levelling jacks or 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.



CLASS B+ & C MOTORHOME

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 manufacturer for details on the standard automotive, steering column, transmission and instrument cluster controls, lights and gauges.

4.2 DASH RADIO

AM/FM/CD/MP3 Sirius Ready Player in dash with wireless remote and auxiliary input.



DASH RADIO (SONY).

AM/FM/CD/DVD/TOM-TOM navigation system/BlueTooth/Rearview Camera. (Optional)

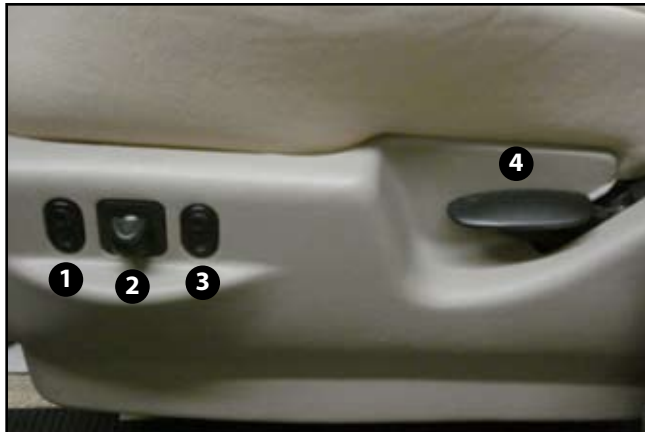


DASH RADIO (ECLIPSE).

Refer to the manual provided in the operator's information package for operating instructions.

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4.3 DRIVER'S/PASSENGER'S POWER SEAT CONTROLS



SEAT CONTROLS (TYPICAL)

1. **Front Of Seat Height:**
This spring loaded to centre switch sets the height of the front of seat. Depress the upper portion and hold the switch to raise the front of the seat. Depress the lower portion and hold to lower the front of the seat.
2. **Forward-Back Position:**
This spring loaded to centre switch sets the position of the drivers seat. Push the switch forward and hold to move the seat forward. Push the switch rearward and hold to move the seat back. Pull the switch up to raise the seat and down to lower.
3. **Back Of Seat Height:**
This spring loaded to centre switch sets the height of the back of the seat. Depress the upper portion and hold to raise the rear of the seat. Depress the lower portion and hold to lower the back of the seat.
4. **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

4.4 SEAT/SHOULDER BELTS

The driver and passenger seats are equipped with lap/shoulder belts. Every occupant must be seated in an approved seat 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.



LAP/SHOULDER BELT

4.4.1 LAP/SHOULDER BELTS:

The driver and passenger seats are equipped with a combination lap and shoulder belt for maximum restraint.

- a. Sit in the seat.
- b. 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.
- 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 lap portion of the safety belt system low on the torso to distribute the load across the hip/pelvis area.
- e. Slide the shoulder strap so it lays diagonally across the chest and shoulder area. Do not lay it against the neck.
- f. 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.

4.4.2 LAP BELTS:

The Sofa or the Dinette seat are equipped with lap belts. Never travel in a seat that is not equipped with a lap belt.

- a. Sit in the seat.
- 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.



DINETTE LAP BELTS

4.4.3 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.

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4.4.4 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 systems 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.

4.5 ENTRY DOOR

The entry doorway (either left or right) wall 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. **Electric Step:**
This 2 position rocker switch controls the power to the electric step. For detailed operating instructions see the Owner's Information package.
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 or the light must be turned on.
4. **Bag 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.



ENTRY SWITCH PANEL

4.6 LIGHT SWITCHES

Many rocker 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.



CEILING



WALL

4.7 COMFORT CONTROL CENTER (DIGITAL/ANALOG, DIGITAL SHOWN)

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.

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. For more information see the Operating Instructions in the Owner's Information Package.

The control functions include:

1. The Power Switch:

Move the power switch right to switch it 'on' and to the left to switch it 'off'.

2. Mode Selector Button:

This push button switch controls the selection of the furnace, air conditioner or the heat strip. Depress the switch momentarily to select the desired system operating mode. Depress the switch again momentarily to move to the next selection. The mode selected will show in the Liquid Crystal Display.

3. Fan Speeds:

This push button switch controls the settings for fan speed. 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:

These push buttons raise or lower the selected system temperature. Continue to depress the switch momentarily to change the temperature to the desired setting. The selected temperature will show in the Liquid Crystal Display.

5. Zone Selector Button:

This push button switch selects the individual zones and stages for the system if your vehicle is equipped with more than one zone. Depress the switch momentarily to select the desired zone. The selected zone will show in the Liquid Crystal Display.



THERMOSTAT

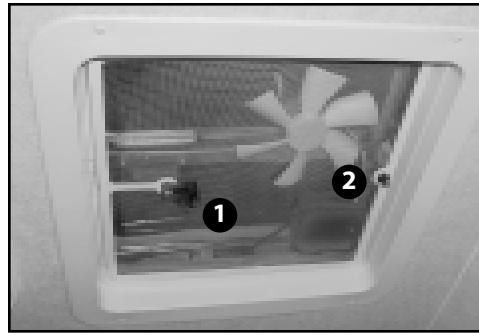
CLASS B+ & C MOTORHOME

4.8 POWER ROOF VENT

4.8.1 POWER VENTS

The motorhome is equipped with a powered roof vent. Use the vent fan in conjunction with an open window to provide a flow of fresh air into the unit.

1. **Vent Hood Control:** Turn the knob to raise or lower the vent hood to the desired position
2. **Fan Control:** Depress this push button switch to turn on the fan and depress it again to turn it off again.

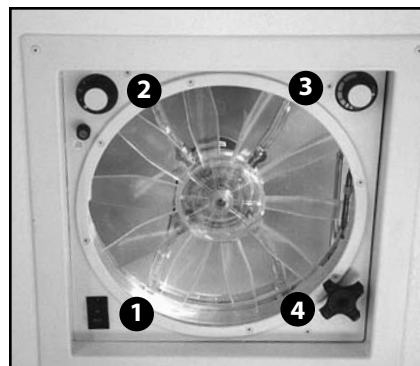


POWERED ROOF VENT

4.8.2 THERMOSTATICALLY CONTROLLED FAN (Optional)

Use these control switches:

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.
3. **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'.
4. **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.



**THERMOSTATICALLY
CONTROLLED (OPTIONAL)**

4.8.3 REAR AUXILIARY HEATER

Your motorhome may be equipped with a rear auxiliary heater. The function of this heater is to provide heat to the rear of the coach while the engine is running. It will also provide heat to the holding tank compartments to help prevent freeze up. Pull knob for heat and adjust fan speed by the control located on dash.



4.9 WATER SYSTEM

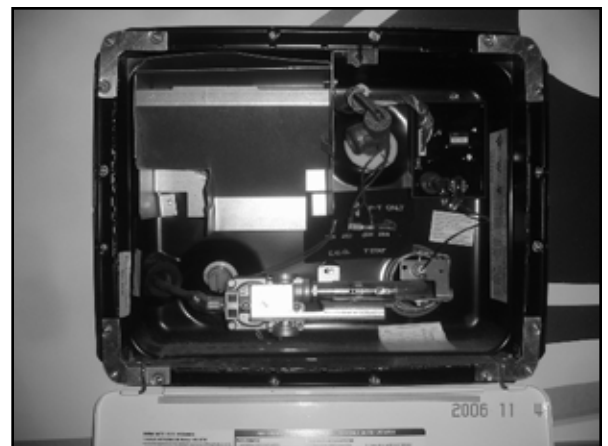
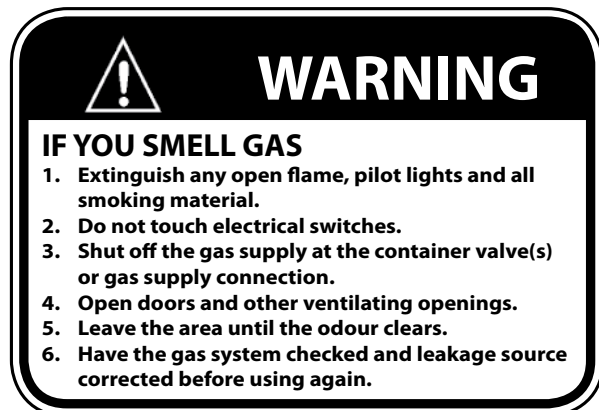
The motorhome water and plumbing system consists of a fresh, grey and black water system plus a water heater. See Section 12 for operating instructions. Be sure to review, understand and follow all operating instructions for the system.

4.9.1 WATER HEATER

The water heater is designed to operate using LP gas or 120-volt electricity. See the operating instructions in the Owner's Information Package for details.

Caution

Both electric and gas power sources require water in the tank before starting to heat water or the element or tank will burn out.



WATER HEATER

CLASS B+ & C MOTORHOME

4.9.2 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 Section 17 for details on winterizing procedure for cold temperature storage.

WATER HEATER BYPASS VALVE



1. NORMAL POSITION 2. BYPASS POSITION

4.9.3 WATER PUMP

The water system is equipped with a 12-volt pump that pressurizes the system and moves water to where it is required. The water pump rocker switch is located on the Monitor panel. Depress the top of the rocker switch to turn the pump on and the bottom of the switch to turn it off.

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.

4.9.4 WATER SYSTEM ACCESS

The water system is accessed on the driver's side of the motorhome. Park this side next to the campground utilities for ease of hook-up.

1. **Fresh water tank fill:**
 - a. Connect the water hose to the tank fill fitting and open the supply water tap.
 - b. Turn the tank fill selector valve to fill the fresh water tank. When the tank is full turn it back to normal use.



2. **Auxiliary Shower:**
 - a. **Hot Water:**

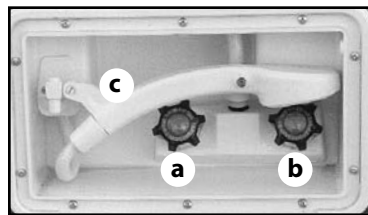
This standard water tap controls the flow of hot water to the shower head. Turn clockwise to turn off and counterclockwise to turn on.
 - b. **Cold Water:**

This standard water tap controls the flow of cold water to the shower head. Turn clockwise to turn off and counterclockwise to turn on.
 - c. **Shower Head:**

This standard flexible hose shower system is mounted in the compartment. Turn the handle and lift the head to use it. Turn the collar on the head to restrict the water flow for use as a water saver.

d. **Shut-Off Valves:**

There are 2 shut-off valves located behind the exterior shower accessible from the inside of the unit. Turn clockwise to shut off the water supply and turn counterclockwise to open it.

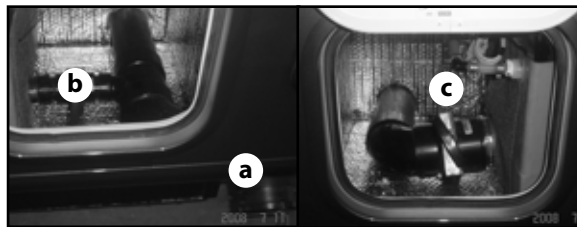


EXTERIOR SHOWER



SHUT-OFF VALVES

3. **Holding tank discharge valves:**



WASTE DISCHARGE TERMINATION VALVES

a. **Discharge Fitting:**

This fitting carries the discharge from the grey and black water tanks. Connect the sewer hose to the fitting and route into an approved sanitary disposal system. Install dust cap when the discharge hose is removed.

b. **Grey Water tank drain valve:**

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

c. **Black Water tank drain valve:**

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

4. **Black Water Tank Flush kit:**

Use the tank flush fitting to flush out the black water tank after it has been emptied.

Connect the water hose to the tank flush fitting. Make sure the black water tank discharge valve is open before opening the supply water tap. After the tank rinse is completed turn off the water supply tap. Remove the water hose and close the black water tank discharge valve.



BLACK TANK FLUSH FITTING

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5. Fresh Water Tank Drain Valve:

This valve drains the fresh water tank. Turn clockwise to close and counterclockwise to open. Always close valves before filling the fresh water tank. (Location will vary)



LOW POINT DRAIN VALVES

4.10 SYSTEM MONITOR

A system monitor is located above the entrance 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.

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.

- | | | |
|----------------------------|----------------------------|-----------------------|
| a. Coach Battery | c. Grey Water Tank | e. LP Gas Tank |
| b. Fresh Water Tank | d. Black Water 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.

4.11 CONVERTER

Refer to the Owner's Information Package for operating instructions.

Each motorhome is equipped with a converter and charging system to maintain the charge in the battery, using shore power or generator as a power source. The converter is automatically activated when 120-volt power is available.

4.12 REAR VIEW MONITOR (OPTIONAL)

A 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. Refer to the camera/monitor system manual in the Owner's Information Package for detailed operating instructions.

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.



REAR VIEW CAMERA

2. **Monitor:**

The monitor is mounted so it is visible to the driver to assist in backing up or driving.



REAR VIEW MONITOR

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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 frame).
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 pre-trip 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 and could become entangled in the moving parts.
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 LP gas container. An overfilled LP gas container will cause the gas regulator to fail, and may result in problems with LP gas components. Turn off LP gas valve on LP container. Make sure all LP gas controls are turned off (Furnace, Water Heater, Oven, Fridge). Check for LP gas leaks regularly using soapy water.



11. Check that sewer connections are properly stored and all external compartments and filler openings 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 12.2.2 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 shorepower cord.
17. Check that the fire extinguisher is in good condition and fully charged.

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5.2 EMERGENCY EQUIPMENT CHECKLIST

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 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. Fully retract and lock vehicle levelling legs (if so equipped).
4. 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.
5. Securely close and lock all doors to prevent intruders and minimize the chance of a door coming open in an accident.
6. Adjust the rearview mirrors to provide the best rearward visibility.
7. Set the drivers seat to provide the desired leg to pedal spacing for your personal comfort.
8. 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.
9. 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 in the Owner's Information Package 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 run a corner and to change lanes. When going underneath a bridge or similar overhang you must be aware of your maximum height. (Measurement must include the air conditioner plus 6 inches. Height may vary depending on chassis, make, suspension and air conditioner).

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 radiator 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 for climbing the hill.

5.6 DRIVING SAFETY TIPS

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 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.
7. Gas and smoke detectors should not be obstructed and should be in working order at all times.
8. Keep a well stocked first aid kit handy.
9. Keep a tool box handy.
10. Check tires 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. 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.
2. Know the height and width of your motorhome. Make adequate allowance for clearance.
3. 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.
4. When towing a vehicle or trailer make sure the combined weight of the towed vehicle or trailer does not exceed the GCWR as stated on the vehicle certification label. See section 3.2 for additional towing information.
5. There are legal restrictions in some jurisdictions regarding vehicles with LP gas containers driving through highway tunnels. Check your route carefully as you travel.
6. 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.
7. Conserve water especially when showering. The holding tanks have a limited capacity.
8. Dump sewage only at approved dumping sites.
9. Store all liquids in plastic containers with tight seals.
10. Watch the levels in your holding tanks. Dump regularly to avoid unnecessary build-up and potential odour. 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.
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.

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5.8 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 so that you will not be caught unaware if and when there is a sudden change in the weather.
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.
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.

5.9 QUICK LOADING CHECKLIST

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 Policy

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:**

CLASS B+ & C MOTORHOME

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 with 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 fully 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. If it loses pressure, the dry chemical cannot be discharged effectively. If the pointer does not indicate in the green, replace the extinguisher immediately. Record the inspection date on the tag provided.
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. Aim at the base of the fire while pressing down the top lever, spraying the entire base area.
 - d. After the fire is out, watch for "flashback".
 - 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.



FIRE EXTINGUISHER

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6.2 EMERGENCY ESCAPE

The motorhome is designed with an alternate emergency exit via a window in the bedroom and front cab doors.

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).
- 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.
- Do not release or open the emergency exits while the vehicle is in motion.



EMERGENCY EXIT LATCHES

6.3 ALARMS

The motorhome is equipped with an LP Gas, CO and smoke alarm as standard safety equipment. Refer to the alarm manual(s) in the Owner's Information Package 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.

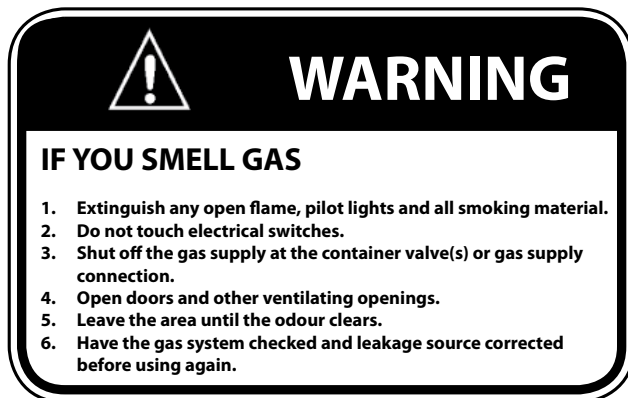
6.3.1 LP GAS ALARM

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

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



LP GAS MONITOR



6.3.2 COMBINATION SMOKE & CARBON MONOXIDE ALARM

This alarm is located on the ceiling in the coach and sounds whenever there is an unsafe amount of carbon monoxide or smoke in the vehicle. Refer to the User's Manual in the Owner's Information Package for complete operating and maintenance instructions. This alarm features separate sensors to detect smoke and Carbon monoxide; the two alarm systems work independently. It is powered by three 'AA' batteries. Slide the access door open to replace the batteries.



⚠ WARNING

Carbon Monoxide gas is an odorless and colorless gas that is lethal to people. Do not breathe in any exhaust, heating or cooking fumes to prevent asphyxiation.

CAUTION

This Combination Smoke/Carbon Monoxide Alarm has two separate alarms. This CO sensor is designed to detect Carbon Monoxide gas from any source; it is not designed to detect any other gases. It will only indicate the presence of carbon monoxide gas at the sensor. Carbon monoxide gas may be present in other areas. The Smoke Alarm will only indicate the presence of smoke that reaches the sensor. The smoke sensor is not designed to sense gas, heat or flames.

WARNING:

This Smoke/CO alarm cannot operate without working batteries. Removing the batteries for any reason, or failing to replace the batteries at the end of their service life, removes your protection. Test the alarm once a week. If it fails to test correctly, have it replaced immediately!

If the **SMOKE ALARM** sounds:

- a. 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. Smoke alarms are not perfect and do not respond in all situations. The best safe-guard is fire prevention.

If the **CARBON MONOXIDE** alarm sounds and the CO red light is flashing:

- a. Move everyone to a source of fresh air.
DO NOT remove the batteries.
- b. Turn off all fuel burning devices.
- c. 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.

CLASS B+ & C MOTORHOME

7 TRAVELLING

The 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

Your motorhome is equipped with exterior compartments for carrying or storing baggage or luggage. Do not exceed baggage area loading or weight capacity and do not exceed vehicle GVWR. Always secure your cargo and keep the compartment locked when traveling.



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 Gross Combined Weight Rating (GCWR) 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.

CLASS B+ & C MOTORHOME

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 belted seating positions 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.



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.



LAP/SHOULDER BELT



DINETTE LAP BELTS

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.

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.

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.



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.

7.7 MIRRORS

Whether your vehicle is equipped with standard or heated remote mirrors, always check the adjustment on your mirrors for maximum rear visibility before driving. See chassis manufacturer's owner's manual for further information.



MIRRORS

CLASS B+ & C MOTORHOME

7.8 REFUELLING

WARNING

Modern fuel systems may cause pressure to build up in the fuel tank during hot weather. It may happen under certain conditions, that a bit of fuel may spray from the spout when the fuel cap is removed suddenly, causing a possible hazard.

WARNING

Do not smoke when refuelling. Keep flames, sparks and smoking material away from fuel or flammable fumes.

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.



FUEL CAP

CAUTION

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

IMPORTANT

Be sure to use the proper fuel. Errors in the fuel type can be hazardous and can create costly repairs.

3. **Fuel Tank Capacity: Refer to the chassis manual.**

4. **Fuel Types:**

Auxiliary generators draw their fuel from the main engine gasoline tank. The fuel pick-up tube is shorter than the engine pick-up tube. This prevents the vehicle fuel tank from being completely emptied on site.

8 EMERGENCIES WHILE DRIVING

The 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. Refer to the chassis manual for details and location of this switch. 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 down the vehicle gradually and pull off to the side of the road. 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.

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



SPARE TIRE

Remove spare tire from its storage position. 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.

CLASS B+ & C MOTORHOME

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.

2. **Jump Starting:**

Open the hood and connect the jumper cables to the battery posts. Always connect positive to positive and negative to the frame. You can use the coach battery if it is fully charged and the jumper cables are long enough. Open compartment and slide out battery tray to access batteries.

3. **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.



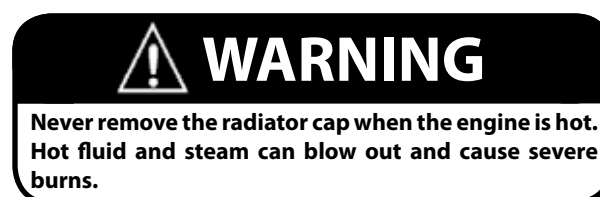
BATTERY



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, from the radiator or at the water pump. 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.



9 HOME USE

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

9.1 PARKING

1. Parking

The motorhome requires more stopping distance and parking space than an automobile. Always remember that the unit is longer, wider, higher and heavier 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. 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.

- 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

Your motorhome must be level for some appliances to function properly.

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 levelling jacks your vehicle could roll off the jacks or cause undue pressure on the jacks.

- Inspect the area where the motorhome will be parked. Select if possible an area that has a firm prepared surface. Most campgrounds provide this type of parking area for motorhomes.
- Select an area that is level or as near to level as possible.
- Use a carpenters level on the floor to determine where to place blocks to level the frame.
- Level from side to side first. Place planks under the low side and drive the motorhome forward until the tires are resting on the planks. Check that the frame is level from side-to-side. Add or remove blocking as required to level the frame.
- Place chocks in front of and behind the tires to prevent motorhome movement.
- Check that the frame is not twisted by checking that all doors, drawers, etc. open and close easily. Adjust blocking to eliminate twisting.
- Attach and connect all utilities as appropriate.
- Reverse the above procedure when preparing to leave.

Your vehicle may be equipped with a powered levelling system. See Operating Instructions in the Owner Information Package for further information.



LEVELING JACK TOUCH PAD

CLASS B+ & C MOTORHOME

9.3 SLIDE OUT ROOM

The motorhome may be equipped with one or more expandable slide out room(s) to provide more living area for the occupants. See the Operating Instructions in the Owner's Information Package for detailed operating instructions.

9.3.1 SLIDE OUT ROOM OPERATION

Follow the procedure when using slide out room:

1. Ensure that the motorhome is properly levelled and supported with stabilizing jacks.

IMPORTANT

If the unit is not properly levelled before extending the room, the slide out mechanism may bind and be damaged.

2. Note: The Slide Out room is powered by a 12-volt motor. Ensure that the batteries are fully charged when operating the slide out controls.
3. **Before operating slide out:**



- a. If this is the first time you are operating the slide out, review the instructions that you received from your dealer at the time of delivery.
- b. Level the motorhome following the instructions in Section 9.2 on Levelling Your Motorhome.
- c. Make sure there is adequate space beside your motorhome for the slide out room to be extended.
- d. Remove the travel lock before activating the slide out room controls; longer slide rooms may have 2 travel locks.



TRAVEL LOCKS (TYPICAL)

- 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.
- g. Make sure all people stand clear before operating the slide out room controls.

4. **To Extend the slide-out room:**

Be sure that there are no obstructions inside or outside the Motorhome that would prevent easy operation.

- a) **Slide Control:** Press and hold the control switch until room is fully extended. Make sure it is fully extended so that all weather seals will be in their proper alignment. Release the control switch when the room is fully extended



SLIDE CONTROL SWITCH

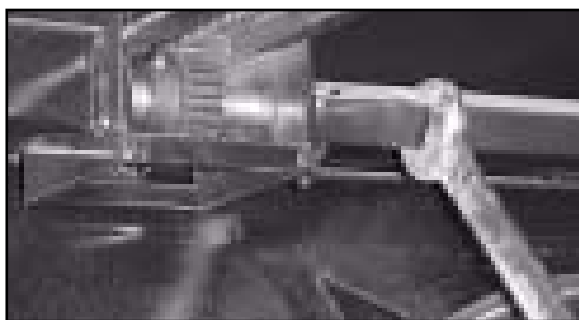
5. **To Retract the slide-out room:**
Be sure that there are no obstructions inside or outside the Motorhome that would prevent easy operation.
 - a) **Slide control:** Press and hold the control switch until the room is back in place so that all weather seals will be in their proper alignment. Release the control switch when the room is fully retracted.
6. **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.
7. **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.

9.3.2 SLIDE OUT ROOM EMERGENCY OPERATION

The slide out room can be manually retracted in case of system failure. Before operating be sure travel locks are removed and the path is clear.

IMPORTANT
Remove travel locks before operating slideout.

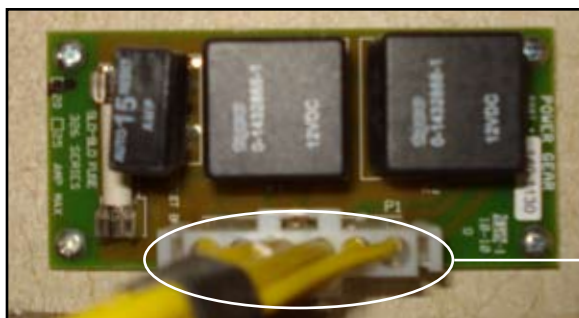
1. Ensure the battery disconnect is in the "off" position.
2. Find the slide out control module located in the lower galley area and unplug the wire harness connected to it.
3. Locate the slide out motor (in baggage compartment, under floor, below bed) and rotate the brake release lever counter clockwise by about 1/8 of a turn to the "release" position.
4. Moving the Slide Box:
 - a. For dual ram systems use a 1" wrench on the connecting shaft to move the slide box in.
 - b. For single ram systems use a 3/4" wrench or socket on the adapter stud located directly beside the motor.
 - c. For a faster process, the slide out room can also be manually moved in at this time by 2 or more individuals pushing against the outside of the slide box.
5. Return the motor brake lever to the "engage" position to lock the room in the closed position.
6. Install travel locks.



POWER GEAR MANUAL OPERATION DUAL RAM SYSTEM



SLIDE OUT MOTOR TYP



SLIDE OUT CTRL MODULE - UNDER LOWER GALLEY

CLASS B+ & C MOTORHOME

9.4 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 window 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 our motorhome. Do not hang wet towels and swim wear inside the motorhome to dry.

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 separates the two battery systems to prevent the engine batteries from being drawn down when parked and the coach system is in use.

The 12 volt system operates only through the 12 volt batteries. The batteries are being charged when the unit is plugged in and the charge circuit is switched on.

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

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 charger charges the coach batteries which provides 12v power. All equipment that normally is powered through the battery system is then powered through the converter preventing drain on the batteries.

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

1. Roof Air Conditioner
2. Refrigerator (when set to 120 volt)
3. Microwave Oven
4. All 120 Volt Electrical Outlets

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.



SHORELINE STORAGE



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. Your motorhome is equipped with a 30-amp shoreline service.

CLASS B+ & C MOTORHOME

10.1.2 POWER CONTROL CENTER

This panel contains the fuses for the 12 volt system, circuit breakers for the 120 volt system and the converter that changes 120 volt power into 12 volt AC. Each system handles different circuits in the motorhome.

Refer to Converter and control panel Manuals in the Owner's Information Package for more information.

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' again. If a breaker "trips" again and again, this could mean that there is a short in the wiring or in the equipment and both should be checked and serviced.

There is a single 30 Amp main breaker which protects the entire electrical system. This breaker should be checked first if the entire electrical system will not function on shore power.



POWER CONVERTER PANEL



120 VOLT CIRCUIT BREAKERS AND 12V FUSES

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 severe 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 check and repair the electrical system before using it again. Depending on the floor plan in your vehicle, you will find a GFCI outlet in the bathroom and outside receptacle.



GFCI OUTLET (TYPICAL)



WARNING

The GFCI will not eliminate completely 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.

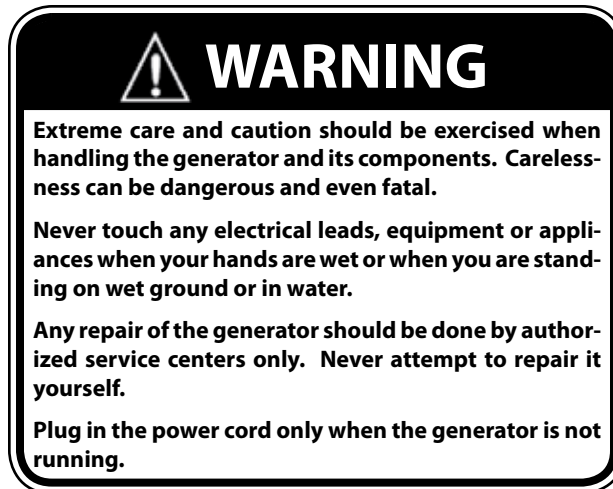
10.2 AUXILIARY 120 VOLT GENERATOR (OPT)

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



10.2.1 GENERATOR SAFETY

1. Electrical:



2. Asphyxiation:



- 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.
- 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.

CLASS B+ & C MOTORHOME

10.2.2 GENERATOR REFUELING

Auxiliary generators draw their fuel from the main engine fuel tank. The fuel pick-up tube is shorter than the engine pick-up tube. This prevents the vehicle fuel tank from being completely emptied on site.

IMPORTANT

Be sure to use the proper fuel. Errors in the fuel type can be hazardous and can create costly repairs.



WARNING

**Do not smoke when refuelling.
Keep flames, sparks and smoking material away
from fuel or flammable fumes.**

10.2.3 GENERATOR OPERATION

Refer to the Generator operation and maintenance information in the Owner's Information Package

1. Controls:

The generator switch is located in the Monitor Panel in the overhead cabinet. The generator starter draws current from the coach batteries.



GENERATOR CONTROL

2. Starting:

- See Generator Manufacturer's Manual for specific instructions.
IMPORTANT Check the oil level regularly during frequent use of the generator.
- The Motorhome is equipped with an automatic transfer switch which will switch to the generator power as soon as the Generator is running.
- Disconnect all electrical loads. (Turn off all lights, appliances, equipment, etc.).
- Press the top portion of the generator button, hold until engine is running, then release.
- Wait for the engine to run smoothly before turning on the 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 bottom portion of the generator button and hold until engine comes to a complete stop.

10.2.4 AUTOMATIC POWER TRANSFER SWITCH

This motorhome is equipped with an automatic power transfer switch that transfers the 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 switch 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 switch automatically switches away from the generator to the shoreline. If you wish to use the generator only, unplug the shoreline power cord.

10.3 12 VOLT DC SYSTEM

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

1. The Chassis Automotive battery.
2. The Auxiliary or Coach battery.

10.3.1 AUTOMOTIVE BATTERY

It is 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, and the battery disconnect switch be turned to the "off" position.

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 and the engine started.

10.3.2 COACH BATTERY(S)

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, refrigerator, 120-volt generator starter, water pump, furnace fan, interior lights, holding tank and water level gauges, etc.. These batteries may be used to jump start your engine in case the automotive battery is dead. Refer to "Jump Starting" in this case.

This battery is a "deep cycle" RV battery 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.

BATTERY LOCATION



CHASSIS AUTOMOTIVE BATTERY UNDER FRONT ENGINE HOOD.



COACH BATTERIES USUALLY IN AN EXTERIOR COMPARTMENT; COULD ALSO BE UNDER ENTRY STEP.

CLASS B+ & C MOTORHOME

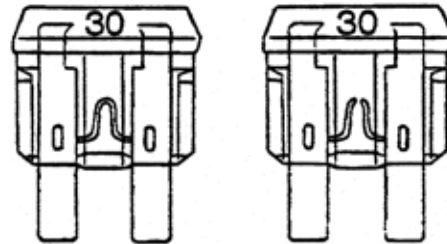
10.3.3 12 VOLT COACH FUSES

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 dinette.



FUSE PANEL



GOOD

BLOWN

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.

4. Additional maintenance suggestions:

- 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.
- Keep the battery and terminals clean. Accumulations of acid film and dirt may permit current to flow between the terminals and discharge the battery.



- 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 indicates the level of charge in your coach or auxiliary batteries. Depress the Battery switch and read the appropriate scale.



BATTERY CONDITION METER

10.3.6 BATTERY DISCONNECT

Your unit will be equipped with a battery disconnect switch located near the entrance door. Turn switch to the "on" position for normal operation and to the "off" position when not in use for extended periods of time.



DISCONNECT

CLASS B+ & C MOTORHOME

10.3.7 INVERTER (ENTERTAINMENT CENTER)

Your unit may be equipped with an inverter. This inverter takes its power from the coach volt batteries and inverts it to 120 volt A/C power. It is designed to accommodate smaller loads such as TV's and entertainment systems. When you are not connected to shore power and the inverter is switched on, these components will be energized. The inverter is not equipped with an internal 12 volt charger. See the Inverter owner's manual for operating instructions.

Attention: The inverter is not intended for appliances using more than the wattage specified. This could result in damage to the appliance or the Inverter. Extended use of the inverted receptacles will drain your batteries.



INVERTER CONTROL

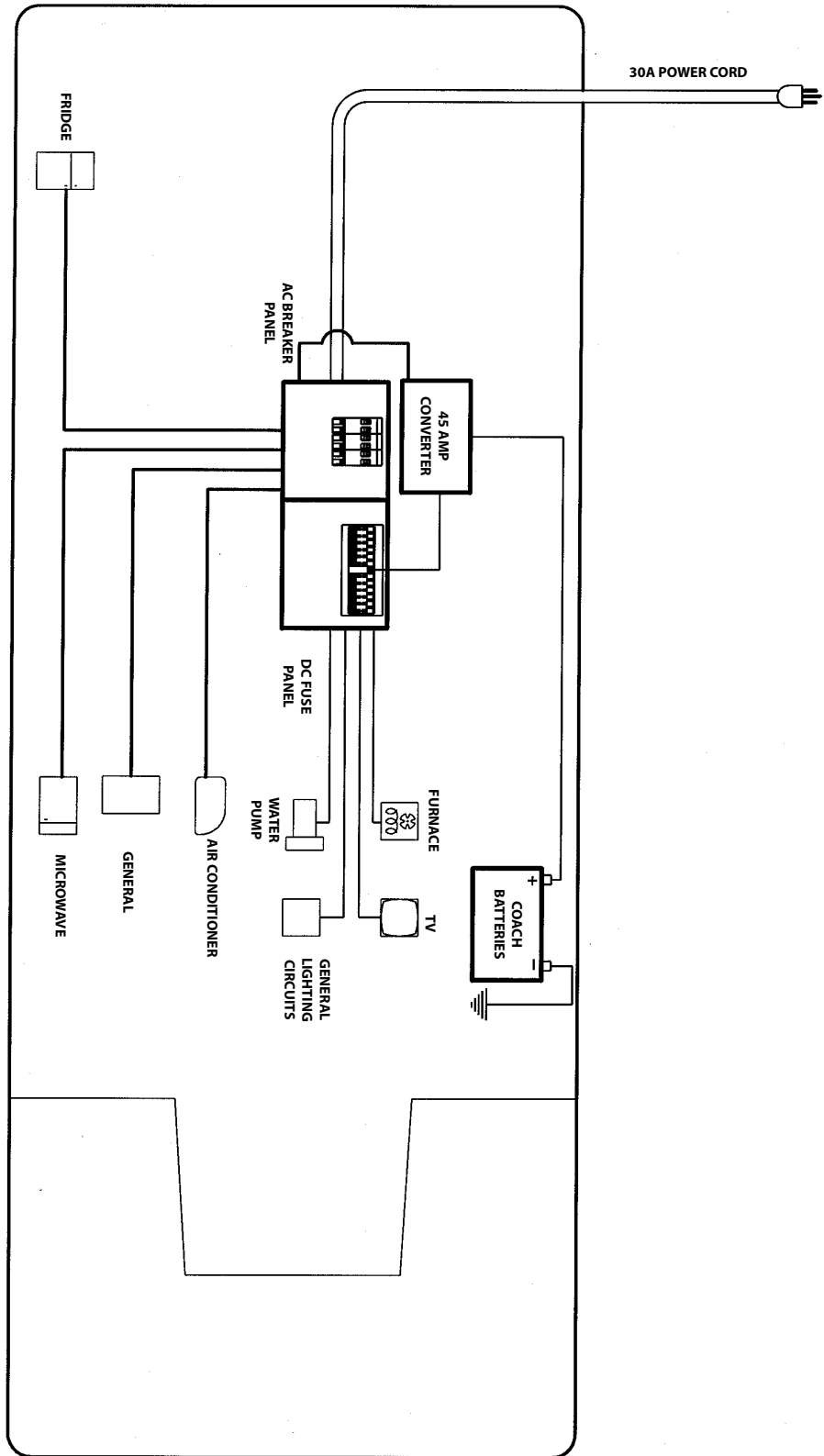
10.4 TRAILER WIRING CONNECTOR

Your motorhome is ready for trailer or car towing. It has a wiring connector plug at the back for quick hook-up. If you intend to tow a trailer with electric brakes a brake controller is required. This can be installed by your dealer.



TRAILER WIRING CONNECTOR

10.5 TYPICAL ELECTRICAL SCHEMATICS



CLASS B+ & C MOTORHOME

10.6 FUSE PANELS

10.6.1 COACH FUSE PANEL

The coach fuse panel is located in the distribution panel on the end of the Galley cabinet. See the label on the face of the fuse panel for fuse size and function identification.



DISTRIBUTION PANEL



120V CIRCUIT BREAKERS AND 12V COACH FUSES

10.6.2 CHASSIS FUSE PANEL

See the Chassis Manufacturer's Owner's Manual in the Owner Information Package to identify the fuse or circuit breaker location, size and function.

10.6.3 B.I.R.D. (BI-DIRECTIONAL ISOLATOR RELAY DELAY)

The Bi-Directional Isolator Relay Delay constantly senses the voltage on the coach and chassis batteries. If either voltage is above 13.3 volts, which indicates the batteries are being charged, the control closes the isolator relay. This parallels the batteries, charging them both. If the ignition is OFF and the voltage falls below 12.8 volts for approximately five seconds, the relay will open to prevent the coach loads from discharging the chassis battery. When the voltage goes back above 13.3 volts, the relay will close again.

If the ignition is ON and the voltage falls below 12.0 volts for approximately five seconds, the relay will open to prevent the coach loads from overloading the alternator and discharging the chassis battery. When the voltage on the chassis goes back above 13.3 volts, the relay will close again. Allowing the batteries to stay connected together to a lower voltage helps charge a heavily discharged coach more quickly with the varying output of the alternator.

A lockout lead is provided to prevent conflicts if both the converter/genset and the alternator are trying to charge the batteries at the same time.



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

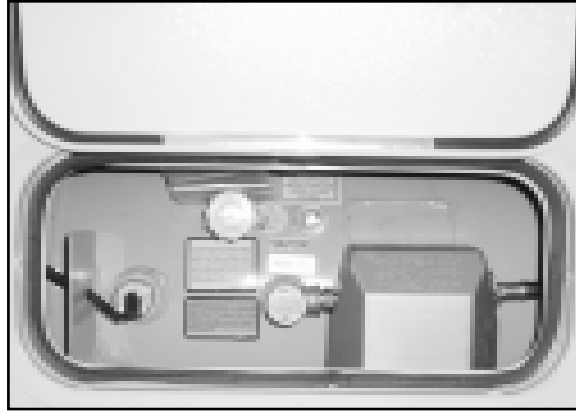
Butane burns at a much higher temperature than propane but will not change from a liquid to a gas at temperatures below 32 degrees F or 0 degrees C. Propane, on the other hand, burns at a lower temperature and will continue to convert from a liquid to a gas at temperatures as low as -40 degrees F or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

LP dealers will normally handle 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.

CLASS B+ & C MOTORHOME

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 leaking into the motorhome.




TANK LOCATION

11.5 LP TANK CAPACITY

For tank capacities see spec sheet. Capacities may vary per floorplan.

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.

Filling should always be done by a qualified service attendant.

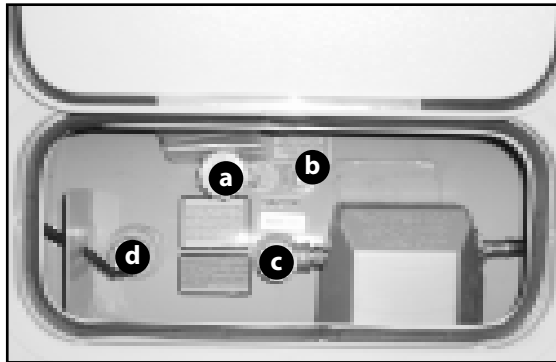
LP gas stations are found in all parts of the country. Check the Yellow pages in your telephone book if you have trouble finding a station. Look under "Gas-Liquefied Petroleum-Bottled and Bulk" or "Propane".

The tank is permanently mounted to the motorhome frame. Therefore the vehicle must be taken to a fuelling station to be filled. Simply open the baggage door, and fill the container via the fill-in valve as indicated on the container.

Shut off all pilot lights and the control valve on the LP gas container when filling the container. 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, 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.

LP GAS FILLER

**a. Fill b. Overflow valve c. Vapor Outlet
d. Level Gauge**

IMPORTANT

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

**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. Always have methyl alcohol added to your container 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.

CLASS B+ & C MOTORHOME

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.

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 underneath 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 results from 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.



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.



REGULATOR


11.10 LP GAS LEAKS

If you 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 gas supply at the container valve(s) or gas supply connection.
4. Open doors and other ventilating openings.
5. Leave the area until the odour clears.
6. Have the gas system checked and leakage source corrected before using again.


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 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.



LP GAS DETECTOR

CLASS B+ & C MOTORHOME

12 WATER/PLUMBING SYSTEM

Your motorhome is designed with a fresh water, grey water and black water tank 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.

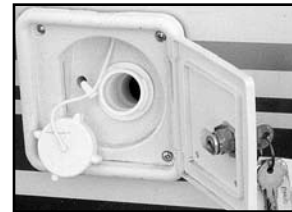
The water system provides full service similar to the system used in your home. A 12-volt self-priming pump draws water from the fresh water storage tank to all cold faucets and the water heater. An automatic pressure switch, located in the water pump maintains a positive line pressure. All fresh water components and fittings are accessible from the drivers side of the motorhome.

12.1.1 FRESH WATER TANK FILLING PROCEDURE

Your motorhome will be equipped with one of the following systems:

1. Gravity fill Water Supply:

- a. Set pump switch to the off position.
- b. Open gravity fill fitting compartment.
- c. Insert funnel or hose into intake.
- d. Add required amount of fresh, clean water. Do not overfill.
- e. Close fitting and lock compartment.



**GRAVITY FILL
WATER INLET**

2. Pressure fill water supply.

- a. Connect the water hose to the city water inlet connection.
- b. Set the water pump switch to the 'OFF' position.
- c. Turn the systems valve to the 'Tank Fill' position.
- d. Turn on the water supply.
- e. 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 overflow.
- f. Turn the systems valve back to normal position.
- g. Turn the water pump switch 'ON' and the system is ready to use.



**WATER FILL
SELECTOR VALVE (Fill
Position)**

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.

12.1.3 WATER PUMP SWITCH

The water pump switch is located on the Monitor Panel in the overhead cabinet 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.

It is recommended that the pump switch be turned off and the city water supply tap closed whenever leaving the motorhome for any period of time.

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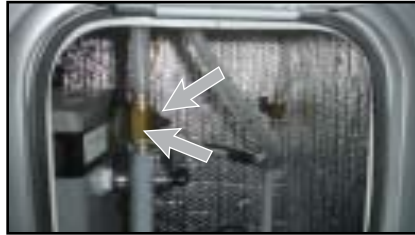
12.1.4 WATER PUMP FILTER

Before water can enter the various outlets in your motorhome it has to flow through a water filter. This filter is located between the fresh water tank and the water pump. Check the water filter periodically and clean or replace it at least annually to assure a clean supply of water.

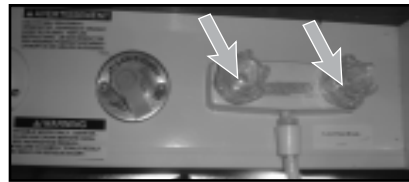
12.1.5 WATER SYSTEM DRAINS

The water system is designed with low point drain valves for draining the system. Open both valves and open all taps inside the unit to completely drain the system.

LOW POINT DRAIN VALVES



**INSIDE HOLDING TANK
COMPARTMENT**



**INSIDE WATER SYSTEM
COMPARTMENT**

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.
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 TROUBLESHOOTING

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 DISINFECT WATER TANK

1. It is recommended that fresh water systems be disinfected:

- a. When the system is new and has not been used before.
- b. When it's been in storage for a long period of time.
- c. In case it has become contaminated.

2. Disinfection instructions:

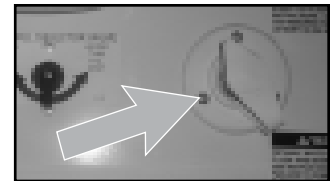
- a. Pour about one cup household bleach (1/4 cup per 15 gallons of water capacity) into an empty garden hose and hook up the hose to the city water connection.
- b. Fill the tank with fresh water. Run water from each faucet, hot and cold, until you detect a chlorine odour.
- c. Leave this solution in 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.
- d. 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 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. Turn the water selector valve to city water.
- c. Turn on external water supply.



WATER CONNECTION

IMPORTANT

After connecting to the external water supply, open the faucets 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 use to allow water to enter the hot water heater. Water from the external supply is prevented from entering the fresh water tank by means of a check-valve in the water pump.

WATER HEATER BYPASS VALVE



NORMAL POSITION



BY-PASS POSITION

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.
- 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 black water waste holding tank.

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IMPORTANT

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

12.2.3 DUMPING HOLDING TANKS

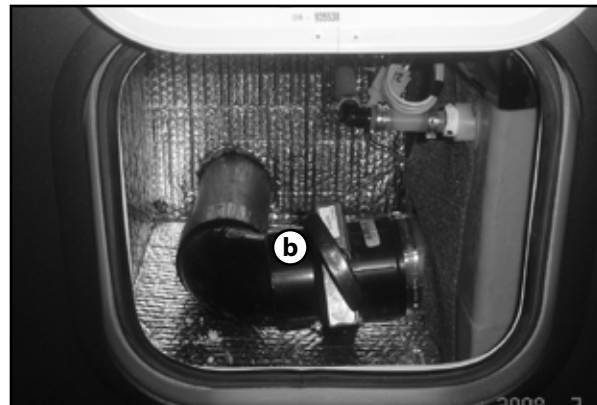
Your motorhome may be equipped with a macerator used for dumping the holding tanks which is operated by a switch. See instructions in the Owner's Information Package.



MACERATOR



DRAINAGE SYSTEM SWITCH



When dumping holding tanks:

1. Remove drain hose from storage compartment.
2. Remove dust cap from drain outlet 'a'. Attach drain hose securely.
3. Place the other end of the hose in sewer opening. Make sure hose is lying flat.
4. Open black water valve 'b' (located in the passenger side compartment) with a quick pull. Move hose about gently to ensure flow of waste materials. When the tank is empty close the valve.
5. Open grey water valve. Close when the tank is empty.

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 from inside the drain hose.

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.

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

12.2.4 BLACK TANK RINSE

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.

1. Open the black tank drain valve.
2. Attach the water hose to the tank flush fitting 'a' and open the water supply valve. Make sure the black water tank drain valve is open when using the black tank rinse system.

CAUTION
Always open the black water tank discharge valve before supplying water to this fitting.

3. Close the water supply valve and remove the hose.
4. Close the black tank drain valve.



DRAINAGE 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) and the drain cap tightly in place when travelling to permit use of the system when 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.

12.2.6 USING ON-SITE SEWER HOOK-UPS

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

However, make sure 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.

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 help to dislodge the wastes and allow the tank to be drained in the normal manner.

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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.



TANK LEVEL INDICATORS

12.3 PLUMBING SYSTEM OPERATION

12.3.1 WATER HEATER

The motorhome is equipped with a 6 gallon water heater. The water may be heated in one of three ways:

1. With an LP gas burner.
2. With a 120-volt heating element (optional)
3. With an automotive engine heater while driving. (optional)



1. **LP Gas Operation:**
 - a. To ignite the heater, set the waterheater switch located on the monitor panel.
2. **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.

IMPORTANT

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

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.

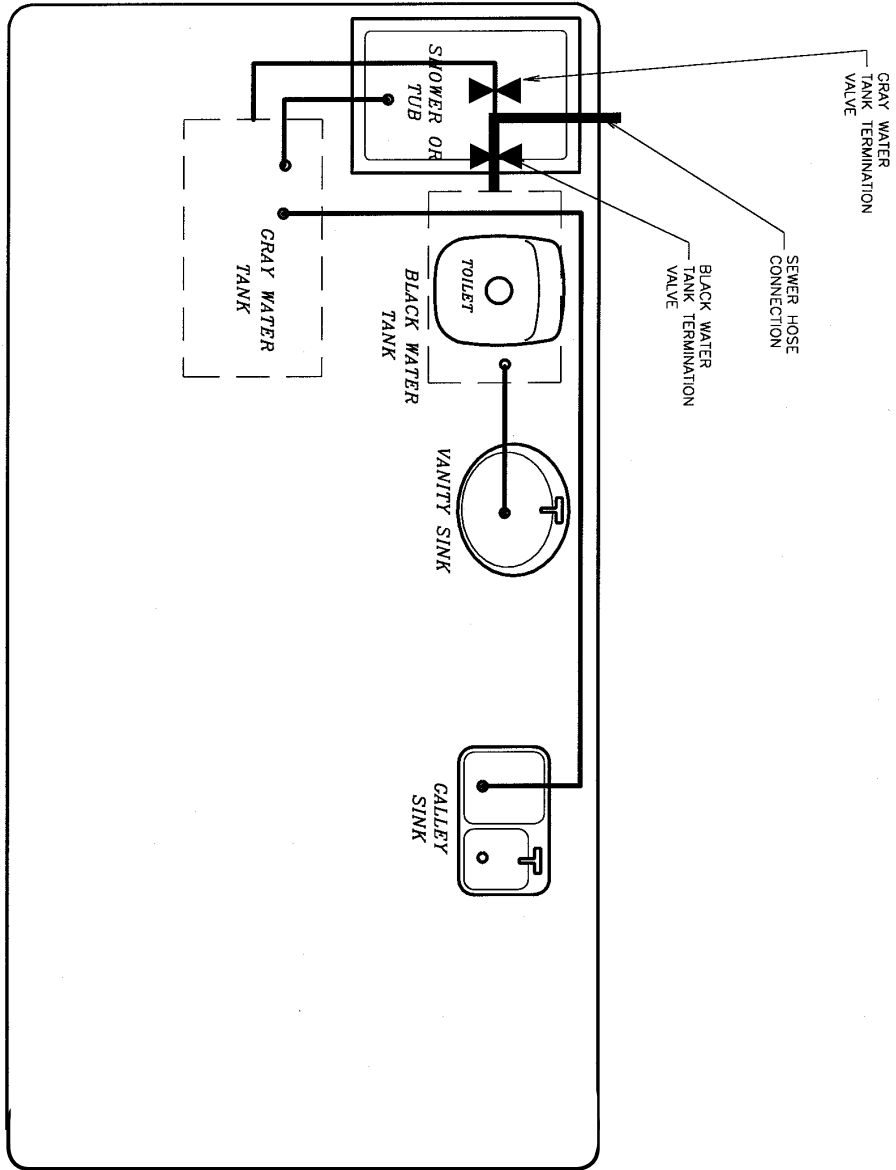
12.4 PLUMBING SPECIFICATIONS

12.4.1 TANK CAPACITIES

See spec sheet. Capacities may vary per floorplan.

CLASS B+ & C MOTORHOME

12.4.2 TYPICAL PLUMBING SCHEMATICS 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 more than a couple of degrees for extended periods of time, permanent damage could be done to the refrigerator. See owner's manual.



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.

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.



1. **Master ON/OFF Switch:**

This push button switch controls the power to the refrigerator. Depress the push button switch once to turn the refrigerator on and depress it again to turn it off.

2. **Mode 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 mode indicator light 'A' will come on. The refrigerator will select its own source of power giving priority to 120-volt electrical power. Depress the switch again to select the Gas mode and the LP system will provide power for the refrigerator. If the burner fails to ignite the check light 'B' will come on. Refer to the instructions in the information package for more details.

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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.



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.



RANGE COOK TOP

13.2.1 LIGHTING BURNERS

To Light The Range:

1. Turn the burner control knob to "LITE".
2. 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.



13.2.2 LIGHTING OVEN PILOT

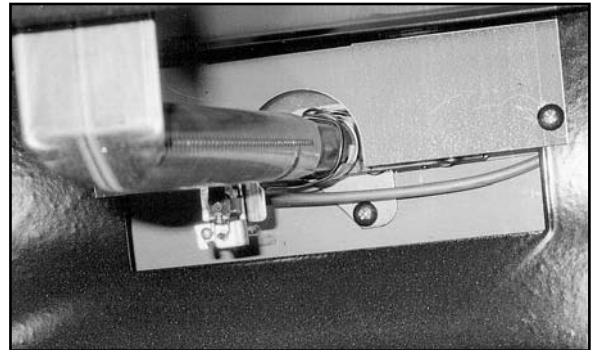
1. Make sure all range and oven control knobs are in the off position.
2. Press and turn the oven control knob to the pilot on position. This opens the gas flow to the oven pilot.
3. Open the oven door and light oven pilot. You will notice a small flame at the oven element.

IMPORTANT

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



KNOB



PILOT LIGHT

13.2.3 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.

13.2.4 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.

13.2.5 RANGE HOOD

The 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.

13.2.6 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 the grates may cause the porcelain enamel to crack and chip.
5. Any time the range/oven is in operation, a window should be open and the power range hood fan should be operating to help ensure proper ventilation.

CLASS B+ & C MOTORHOME

13.3 MICROWAVE OVEN

For complete instructions, refer to the Operating Instructions in the Owner's Information Package.

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. **Fresh Water:**
Indicates the amount of fresh water in the fresh water tank.
3. **Grey Water:**
Indicates the amount of waste in the grey water holding tank.
4. **Black Water:**
Indicates the amount of waste in the black water holding tank.
5. **LPG:**
Indicates the level of propane in the propane tank.



MONITOR PANEL

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

- A. Water pump power switch.

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.

13.5 WATER HEATER BY-PASS VALVE

See section 17.2 for cold weather storage instructions.



HOT WATER TANK BYPASS VALVE

13.6 LP GAS FURNACE

The furnace is controlled by the thermostat located in the hallway or galley area. See section 4.7 for the operating instructions. The furnace has no pilot light but is ignited by a direct spark ignition system. No manual lighting is required.

The 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. For more information see the Operating Instructions in the Owner's Information Package.



THERMOSTAT

CAUTION:
Make sure furnace outlets are not blocked by bedding, clothes, cargo, etc.

13.7 ROOF AIR CONDITIONER

The roof air conditioner is controlled by the thermostat located in the hallway or galley area. See section 4.7 for the operating instructions. The 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. For more information see the Operating Instructions in the Owner's Information Package.

1. **Maintenance:**
It is recommended that the filters be cleaned 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:**
 - a. Remove the filters by pressing the 2 retainer clips and remove the plastic grill. The filter is kept in place by the 4 corner pins.
 - b. Remove filters and wash them in warm soapy water. If they are excessively dirty, replace them with new filters.
 - c. Reinstall the plastic grill. Make sure the corner pins hold the filter in place.



AIR CONDITIONER

CLASS B+ & C MOTORHOME

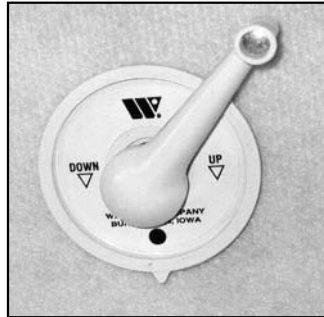
13.8 TV ANTENNA

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.

1. To raise the antenna turn the elevating crank (clockwise) in "UP" direction about 13 turns or until resistance is noticed.
2. To rotate the antenna make sure the antenna is in the "UP" position. Pull down the ceiling plate and rotate for best picture.
3. 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 until resistance is noted. Antenna is now locked in travel position.

CAUTION:

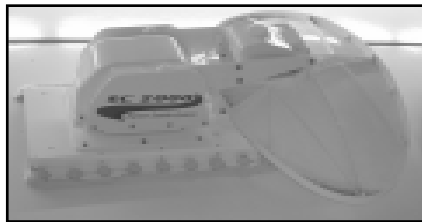
Always lower and store antenna before driving.



ANTENNA

13.9 SATELLITE DISH

Satellite operating instructions may vary depending on the manufacturer. See the operating instructions in the Owner's Information Package.



SATELLITE DISH

13.10 DC-AC ELECTRICAL VOLTAGE CONVERTER

See the instruction manual in your Owner's Information package for details.



CONVERTER

13.11 SLEEPING FACILITIES



1. **Bedroom:**
Standard sleeping facilities with a bed are located at the rear of the coach.
2. **Dinette:**
The dinette also can be converted into a bed:
 - a. Remove cushions.

DINETTE/BED



U-LOUNGE (SITTING POSITION)



DINETTE (BED POSITION)

- b. Twist the table lift lock, and push table down so that the edge of the table rests on seat edge supports.
- c. Arrange cushions to form a bed, placing larger cushions in the center.
- d. To convert back to a dinette, reverse the above instructions.

13.12 SEATS

To move the chairs forward or backward, use the lever located on the front of the chair beneath the skirt. To swivel the chairs, pull on the lever located under the frame on the right hand side.

CAUTION
These chairs are not equipped with seatbelts and are not approved for use while travelling.



CHAIRS (TYPICAL)



EURO RECLINER TRAVEL LOCK



TABLE LIFT LOCK

CLASS B+ & C MOTORHOME

13.13 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 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.



SEAT/SHOULDER BELT

13.14 FRESH WATER TOILET

Refer to the Toilet manufacturer's instructions in the Owner's Information Package for more detailed information.

When the foot pedal is depressed 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. Press the foot pedal down and hold during the flush.
- b. Release the foot pedal. A small amount of water should remain in the bowl.
- c. If you wish to add more water to the bowl, push the pedal down part way and hold until you have the desired level of water.

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. 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.



TOILET

13.15 ELECTRIC STEP

See step Owner's Manual in the Owner's Information Package for detailed operating instructions .

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. **Ignition Safety System:**

When the ignition switch is turned on, step will activate with door movement, regardless of door switch position. Periodic maintenance including lubrication and cleaning are necessary to keep the step functioning properly.



STEP

13.16 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 out at the bottom.



SCREEN WINDOWS

CLASS B+ & C MOTORHOME

13.17 REARSUSPENSION AIR SYSTEM

Your motorhome is equipped with an air assist suspension system that can be pressurized to provide the desired ride. Use an air hose and accurate pressure gauge to pressurize the system. A filler valve stem is located on each side of the motorhome next to the wheel well or in the fuel filler shroud. Never operate at less than 20 psi or more than 100 psi. For an average load start with 50 psi, a higher pressure gives a stiffer ride.

VALVE STEM (TYPICAL)



IN WHEEL SKIRT



IN FUEL FILLER SHROUD

13.18 REMOTE FOR REAR SUSPENSION AIR SYSTEM

Your vehicle may be equipped with a remote air bag assist rear suspension. See operating instructions in the Owner Information Package for further information.



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 probably 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. **Flooring:**

a) **Carpet:**

See the information package for the manufacturer's care guide on how to clean soil, dirt and stains from the floor.

b) **Linoleum:**

Sweep or Vacuum regularly and wipe with a damp cloth or mop.

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 clear water will take care of most stains. Any major cleaning problems should be done by professional cleaners. Cushion covers should not be removed and dry cleaned. They are stain guard protected.

CLASS B+ & C MOTORHOME

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 clean 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. **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 most materials will probably shrink by about five percent even when cleaned professionally.

6. **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.

7. **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.

8. **Laminate Counter Tops:**

Refer to the manual provided in the owner's information package.

9. **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.

10. **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.

11. **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.

12. **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.

13. 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.

14. 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. Toilet:

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

15. 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.

CLASS B+ & C MOTORHOME

15 MOTORHOME MAINTENANCE

15.1 CHASSIS CUSTOMER SERVICE

Chassis service is a concern for every vehicle owner. Ford Motor Company has recognized this and has developed a nationwide network of Ford Service Centers. Each service center has the facilities, technicians, equipment and part availability to properly service your motorhome chassis. If you need immediate service and a Ford Service Center is not nearby, a Ford-based Service Representative is available to assist you by calling:

Ford US	1-800-392-3673
Ford Can	1-800-565-3673

15.2 ENGINE ACCESS

There are two means of access to the engine:

1. Front vehicle hood.
2. Under console between driver and passenger seats.

15.2.1 ENGINE HOOD

Unlatch and raise hood to access engine. With the hood open you can access the following:

1. Windshield Washer Fluid
2. Engine Oil Filler Pipe
3. Transmission Dipstick and Fill Tube
4. Engine Oil Dipstick
5. Brake Fluid Reservoir
6. Power Steering Reservoir
7. Engine Coolant Overflow Tank
8. Power Distribution Box

Refer to chassis owner's manual for specific locations.



ENGINE SERVICE ACCESS

CLASS B+ & C MOTORHOME

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.

15.4 AC AND OIL COOLERS

Cooling capacity is provided at the front of the vehicle for the oil coolers and air conditioner condensers. Keep all the coolers clean. Access them by opening the front hood. Keep the cooler and A/C condenser fins clear and free from debris like bugs, for maximum cooling efficiency.

15.5 TIRES

Make sure to keep tires at the proper level of inflation. Low pressure will cause poor handling as well as excessive 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.

See the vehicle certification label for information on recommended tires and air pressure requirements.

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. Check generator motor for oil leaks.
5. Park motorhome as level as possible, end to end and side to side.
6. Ensure that batteries are fully charged, then disconnect both the main and auxiliary batteries. For maximum battery life recharge monthly.
7. If exposed to road salts, the exterior and underside should be thoroughly washed and flushed.
8. Remove all perishables and anything which may freeze (canned goods, medicine, etc.). Leave the refrigerator door open. Be sure controls are turned off.
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 in section 17-2.
10. Remove the water purifier filter and put it where it will not freeze.
11. Turn off LP gas tank valve.
12. Turn off all appliance valves and thermostats.
13. Turn battery disconnect switch to "off" position. (10.3.6)

CLASS B+ & C MOTORHOME

17 WINTERIZATION

17.1 COLD TEMPERATURE OPERATION

Although your motorhome is designed to withstand colder 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 -40 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.

17.1.6 EXTERIOR SHOWER

The exterior shower is not designed for cold temperature operation. You must protect the exterior shower taps from freezing when the motorhome is used in cold temperatures as follows:

1. Winterize the fresh water lines as you would for cold temperature storage (Section 17.2).
2. Close the shut-off valves located near the exterior shower.
3. Dewinterize the rest of the fresh water system.
4. Do not use the exterior shower in cold temperatures.

CLASS B+ & C MOTORHOME

17.2 COLD TEMPERATURE STORAGE

17.2.1 WATER SYSTEM WINTERIZATION

1. Drain the fresh water tank.
2. Turn off the water pump.
3. Drain the water heater using the drain/relief valve located at the water heater.
4. Turn the hot water tank bypass valve to the bypass position.
5. Place the suction hose attached to the antifreeze by-pass valve into a jug of potable antifreeze.



ANTI-FREEZE BYPASS VALVE



HOT WATER TANK BYPASS VALVE

6. Turn on the pump.
7. Open the hot water faucet furthest from the pump. When anti-freeze appears let about a cup run down the drain, to winterize the trap. Do this on all faucets, hot and cold. Do not forget the toilet, shower and exterior shower.
8. Turn off the pump.
9. Open an interior faucet to relieve the system pressure. Remove the city water connection cap. Carefully remove the screen and press the valve inside the inlet with your finger tip until anti-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 on the pump.
3. Open the water faucet furthest away from the water tank. Run the water until clear water appears. Shut off the faucet. Do this to all hot and cold water faucets throughout the unit.
4. Turn the winterization valve to the normal position to fill the water heater with water.

CAUTION

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

18 WARRANTY POLICY

TRIPLE E RECREATIONAL VEHICLES & LEISURE TRAVEL VANS WARRANTY POLICY (Effective October 1, 2010)

1. BASIC COVERAGE

A. Coach Warranty:

TWO YEAR LIMITED COACH WARRANTY - Triple E Recreational Vehicles (hereafter known as Triple E RV) warrants that all parts manufactured by Triple E RV to be free from defects in material and workmanship for a period of twenty four (24) months or 24,000 miles/40,000 kilometers, whichever occurs first, after the date of purchase by the original retail purchaser from an authorized dealer. Obligation under this warranty 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 for the coach warranty is transferable to a second owner upon written request to Triple E RV within 30 days of the coach resale date.

B. Structural Warranty:

THREE YEAR LIMITED STRUCTURAL WARRANTY - Triple E RV warrants to the first retail purchaser from an authorized dealer that the structural components of the Triple E RV designed and fabricated part of our product will be free of substantial structural defects in material and workmanship for a period for 36 months 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.

“Structural components” shall include the main steel frame and all steel members welded to it, the studs and framing in the walls, the roof rafters and the fiberglass unibody (Serenity & Libero). All other items are covered by the coach warranty. On motor homes and vans where the chassis or van is designed and built by one of our suppliers, a separate warranty is provided by the chassis manufacturer and is the only warranty available for the chassis and the components that they provide. Triple E RV warrants our connections to their chassis.

C. Component Warranty:

TRIPLE E RV partners with suppliers to provide components for our products. Each of these suppliers offers warranty (and in some cases warranty extensions) for their components that are separate from any warranty offered by the Triple E RV limited warranty and constitutes the only warranty for these components. It is the retail customers responsibility to complete and mail the warranty registration cards supplied by these companies to be eligible for available warranty. These cards can be found in the owner’s packet in the unit. Contact information for many of our component suppliers is listed in Attachment A.

D. Chassis Warranty:

Chassis and all components supplied on the chassis as we receive it are covered under separate warranty by the original chassis manufacturer, i.e. Ford, Freightliner, General Motors, Mercedes-Benz. Triple E RV is responsible for certain modifications made to the chassis that are required to adapt our floor plans to the chassis. Please contact us for details about our responsibilities before beginning repairs.

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. The warranty will not apply if the unit has been in a rental pool.

CLASS B+ & C MOTORHOME

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. All Triple E RV products are NOT intended for occupation during extremely cold weather. Damage caused by such use is NOT covered by warranty. 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, mold, 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 (including but not limited to 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, taxi or air 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. 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

This warranty is the only express warranty made by us applicable to this motorhome or trailer. 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.

The limited two year coach warranty shall not be considered as part of the separate structural warranty provided with the recreational vehicle and shall terminate on the second year anniversary date of the first retail purchase.

This warranty is applicable to units sold and used in Canada and the United States. Warranty is not available for units sold or exported outside of Canada and the United States.

It may become necessary for you (the retail owner) to have warranty work done at a site other than an authorized Triple E RV/Leisure Travel Van 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 facility is qualified to do such repair work. The repair center must call the Triple E RV Warranty Dept at our Toll Free number 1-877-992-9906 for authorization before beginning repairs.

Tow Vehicle Disclaimer:

Triple E RV customers using our towable product are solely responsible for the selection and proper use of tow vehicles. All customers should consult with a motor vehicle manufacturer or dealer concerning the purchase and use of suitable tow vehicles for our products. Triple E RV further disclaims any liability with respect to damages which may be incurred by an owner of our towable product as a result of the operation, use or misuse of a tow vehicle.

Triple E RV's warranties do not cover damage to the recreational vehicle or tow vehicle as a result of the operation, use or misuse of the tow vehicle.

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.

Attachment A – Component Supplier Listing

The warranty for all components supplied to us for our product are extended through the specific component manufacturer only. Consult your Owner's package for details and claim procedures for the warranties on these components as they do differ between suppliers and are subject to change without prior notification. The terms of these are as specified in each of the specific manufacturer's brochures.

In cases where the component supplier unfairly disputes your claim or you believe that your claim has been treated unfairly, contact the Triple E RV warranty department and we will assist you in presenting your information to our supplier for reconsideration. This assistance is provided as a service only on your behalf and shall not indemnify Triple E RV.

Triple E will not provide a free warranty replacement or credit for defective product if the component supplier in question has suspended operations or become insolvent. If this rare situation were to occur, Triple E will offer a suitable substitute alternative product at a preferred price. Please note that the replacement part may require reconfiguration to fit into the specific vehicle. Triple E can not be held responsible for these reconfiguration costs.

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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19 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.

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**MOTORIZED
MAINTENANCE CHART**

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 CHART

CM = must be done by Certified Mechanic

	PRE-TRIP	WEEKLY	MONTHLY	3 MONTHS	6 MONTHS	ANNUALLY	AS NECESSARY	AS REQUIRED BY COMPONENT MFG.
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								

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**MOTORIZED
MAINTENANCE CHART**

CM = must be done by Certified Mechanic

	PRE-TRIP	WEEKLY	MONTHLY	3 MONTHS	6 MONTHS	ANNUALLY	AS NECESSARY	AS REQUIRED BY COMPONENT MFG.
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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