

Pleasure-Way

2018 LEXOR TS/FL

Ram ProMaster



OWNER'S MANUAL

WARNING

WARNING

IT IS NOT SAFE TO USE COOKING APPLIANCES FOR COMFORT HEATING.
Cooking appliances must be used at full rated capacities.

Before Operation:
Open overhead vent or fan or electric fan.
Close all doors.

FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.
Unlike homes, the amount of oxygen supply is limited due to the size of the Pleasure-Way vehicle, and proper ventilation when using the cooking appliances avoids dangers of asphyxiation. It is especially important that cooking appliances not be used for comfort heating, as the danger of asphyxiation is greater when the appliance is used for long periods of time.

WARNING

DO NOT FILL CONTAINER (S) TO MORE THAN 80 PERCENT OF CAPACITY. FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.
Overfilling the propane container can result in uncontrolled propane flow, which can cause fire or explosion. A properly filled propane container approximates 80 percent of its volume as liquid propane.

DANGER

IF YOU SMELL PROPANE:

Extinguish any open flames, pilot lights and smoking materials.
Use no touch electrical switches.
Shut off the propane supply at the container valve(s) or propane supply connection.
Close doors and windows including the garage.
Leave the area until the odor clears.
Place the propane tank with reference to leakage on a level surface with both wheels up.
Failure to comply could result in explosion, fire, death or serious injury.

WARNING

Propane cylinders shall not be placed or stored inside the vehicle. Propane cylinders are equipped with safety devices that relieve excessive pressure by discharging propane to the atmosphere.

FAILURE TO COMPLY COULD RESULT IN DEATH OR SERIOUS INJURY.

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WARRANTY / POLICIES

CUSTOMER RESPONSIBILITY

It is important you read and understand the information provided to you in the package containing all the manuals and information pertaining to your Pleasure-Way Motorhome.

Familiarize yourself with the applicable warranties. You are responsible for ensuring the procedures for obtaining warranty repairs are followed properly. It is your responsibility and obligation to return your motorhome to your authorized Pleasure-Way dealership for warranty service repairs.

As the owner of the Motorhome, you are responsible for regular and proper maintenance performed in accordance with the Pleasure-Way and OEM manuals provided. Regular and proper maintenance will help prevent conditions arising from neglect that are not covered under warranty.

WHAT THIS LIMITED WARRANTY COVERS

Pleasure-Way Industries Ltd. warrants the specified new 2018 Motorhome free from defects in material and craftsmanship on portions manufactured by Pleasure-Way Industries Ltd. under normal use and service. Pleasure-Way Industries Ltd. obligation, under this limited warranty, shall be limited to 60 months / 30,000 miles / 100,000 kilometers (whichever comes first) after the date of purchase by the first retail purchaser from an Authorized Pleasure-Way Dealer. Warranty shall be fulfilled by an Authorized Pleasure-Way Dealer or Authorized Pleasure-Way service facility.

This Pleasure-Way Warranty is non-transferable to subsequent owners.

WHAT THIS LIMITED WARRANTY DOES NOT COVER

(This limited warranty shall not apply to the following):

- A Motorhome that has been altered outside our factory in any way means, in our sole opinion and discretion, to affect its stability, operation or reliability.
- Deterioration due to wear and/or exposure, including but not limited to rust, corrosion, oxidation and cosmetic blemishes.
- A Motorhome that, in our sole opinion and discretion, has been subjected to misuse, negligence, or accident.
- A Motorhome that has been declared a total loss by an insurance company, or a motorhome title indicates it is designated as "salvage", "junk", "rebuilt" or a word of similar impact.
- The automotive chassis is covered by its own manufacturer's warranty, including but not limited to: power train, engine, drive train, frame and axles. To learn more about the specific automotive chassis not covered under the Pleasure-Way Warranty please contact your authorized selling dealer. Pleasure-Way Industries Ltd. or review your Motorhome lease or Rental Vehicle monthly package information provided with the coach.
- Appliances and components covered by their own manufacturer's warranties, including but not limited to the microwave, refrigerator, stove, heater, television, generator and roof air conditioning. To learn more about specific component parts or appliances not covered under the Pleasure-Way warranty please contact your selling dealer. Pleasure-Way Industries or review your warranty package information provided with the coach.
- Unauthorized repairs, alterations or modifications.
- Routine maintenance.
- Items that are missing as designed but which you are unhappy with because of the design or function.
- Damages caused by, but not limited to: hail, tornadoes, lightning, floods, earthquakes, hurricanes, fire, rain, and all other environmental conditions, which include but are not limited to: fire, gas, gas leaks, chemicals, oils, salts, road hazards, stone chips, infestations, rodents and/or acts of God.
- Defects or repairs required, as an example but not limited to: improper loading, food distribution, accident, collision, vandalism, abuse, neglect, improper maintenance, rust or corrosion.

- Goods damaged while stored in exterior storage compartments. Exterior storage compartments may not be moisture free due to weather and humidity conditions. It is advised that you store items accordingly.
- Condensation and the results of condensation including, but not limited to, water damage and the growth of mildew or mold. Mold and mildew are natural growths given certain environmental conditions and are not covered by the terms of this warranty.
- Failure of the coach and/or chassis resulting in incidental damages, such as but not limited to: goods stored both inside and outside the coach; loss of use and equipment of Motorhome; inconvenience; cost of rental vehicle; cost of accommodations; travel expenses; towing; meals; and other miscellaneous incidental expenses. Some states do not allow exclusions or limitation of incidental or consequential damages, so the above limitations or exclusion may or may not apply to you.
- Damage caused by the failure to seek and obtain repairs in a timely manner.
- Damage caused by the failure to use reasonable efforts to mitigate damage caused by defects.
- Damages caused by the failure to comply with the instructions set forth in the owner's manual.
- Goods damaged while stored in exterior storage compartments. Exterior storage compartments may not be moisture free due to weather and humidity conditions. It is advised that you store items accordingly.
- Condensation and the results of condensation including, but not limited to, water damage and the growth of mildew or mold. Mold and mildew are natural growths given certain environmental conditions and are not covered by the terms of this warranty.
- Failure of the coach and/or chassis resulting in incidental damages, such as but not limited to: goods stored both inside and outside the coach; loss of use and equipment of Motorhome; inconvenience; cost of rental vehicle; cost of accommodations; travel expenses; towing; meals; and other miscellaneous incidental expenses. Some states do not allow exclusions or limitation of incidental or consequential damages, so the above limitations or exclusion may or may not apply to you.

THE CONDITIONS OF THIS LIMITED WARRANTY SHALL NOT APPLY TO DEGENERATION DUE TO WEAR AND TEAR AND EXPOSURE AFTER THESE LIMITATIONS

FOR NINETY (90) DAYS from the original retail purchase date:

- Adjustments to compartment door hinges, light bulbs, fuses, remote and smoke detector batteries.

FOR ONE (1) YEAR from the original retail date purchase date or 12,000 miles / 20,000 kilometers (whichever comes first), by the original retail purchaser from an Authorized Pleasure-Way Dealer:

- All seat, curtain, door panel and wall fabrics used in the coach.
 - Window seals and caulking.
 - Exterior power cable hatch.
 - City water fill.
 - Propane light.
 - Exterior cable TV outlet.
 - Carpet.
 - Linoleum.
 - Black and gray water termination valves.
 - Exterior caulking.
 - Painted plastic exterior body molding and bumpers.
- Painting exterior including magnifies the original equipment manufacturer condition of the plastic molding. Some conditions of the plastic, such as but not limited to, body attachment points and texture may be more visible when painted. These are considered normal.

FOR TWO (2) YEARS or 24,000 miles or 40,000 kilometers (whichever comes first) by the original retail purchaser from an Authorized Pleasure-Way Dealer:

- Urethane/RP fabrics.
- Floor used in cabins.

FOR THREE (3) YEARS or 36,000 miles or 60,000 kilometers (whichever comes first) by the original retail purchaser from an Authorized Pleasure-Way Dealer:

- Exterior painted surfaces.

This warranty is expressly in lieu of all other warranties, expressed or implied, and all other obligations or liabilities for alleged representation or negligence. Pleasure-Way Industries Ltd. neither assumes nor authorizes any other person to assume for us any liability in connection with the use of our Motorhomes other than as agreed above.

All correspondence should be directed to the named Pleasure-Way dealer from whom the Motorhome was purchased and must specify the serial number and date of purchase of Motorhome in question.

Pleasure-Way Industries Ltd. reserves the right to make changes in Motorhomes built and/or sold by it at any time without incurring any obligations to make the same or similar changes in Motorhomes previously built and/or sold by Pleasure-Way Industries Ltd.

For emergency repairs while traveling, you may elect to deal with non-authorized RV service facilities; however, all warranty repairs must be pre-authorized by Pleasure-Way. Pleasure-Way will, at its option, replace or repair free of charge any defective part, including labor. The purchaser shall notify their authorized Pleasure-Way Dealer within the warranty period.

If you obtain warranty repairs from a non-authorized RV service facility without a Pleasure-Way pre-authorization, it is at Pleasure-Way's sole discretion whether or not to reimburse the claim.

In the event that this Motorhome is used for commercial or rental fleet purposes, the warranty coverage shall be limited to one (1) year (12,000 miles / 20,000 km (whichever comes first)) from the date of original purchase.

OBTAINING WARRANTY REPAIRS

To obtain warranty repairs, you must contact your authorized Pleasure-Way dealer and schedule an appointment. It is best if you have a written list of defects or items in need of repair. As the owner, you are solely responsible for the maintenance of the motorhome as required or recommended by the owner's manual and associated costs of that maintenance. Repairs necessitated by failure to maintain the Motorhome as required or recommended are not covered by warranty.

NOTE: Pleasure-Way does not control the scheduling of service work at authorized or independent dealerships. You may encounter some delay in scheduling or completion of work.

WARRANTY POLICIES

Warranty repairs must be made in the five year or 60,000 miles / 100,000 kilometers (whichever comes first) limited warranty.

Pleasure-Way warranty registration cards must be on file before any claims will be processed. Claims made without warranty registration cards will be rejected until proof of ownership can be established.

Pleasure-Way Industries Ltd. will not reimburse any claims for work done on any components or appliances that are covered under their respective manufacturer's warranties. These warranties must be claimed through the manufacturer of the appliance or component. Examples include but are not limited to: refrigerator, microwave, roof air conditioning, water pump, furnace, TV, etc.

All warranty work required to be done on the chassis must be taken to an authorized Ford, Mercedes-Benz, Chrysler or Chevrolet dealership depending on your chassis make and processed through their warranty procedures. Pleasure-Way Industries Ltd. will not reimburse any claims regarding the chassis. Pleasure-Way Industries Ltd. will pay for the removal and installation of motorhome components only if absolutely necessary to perform chassis warranty repairs. Pleasure-Way Industries Ltd. will not reimburse any costs for the removal and installation of these components if it is out of the warranty period; non-warranty repairs and/or routine maintenance or service.

FIRE EXTINGUISHER

A fire extinguisher is installed on the left-hand side of the front of the main entrance door for ease of accessibility from the interior of the vehicle.

WARNING: This fire extinguisher is a type ABC, which will extinguish flammable liquids, electrical fires, and trash, wood and paper fires. You should inspect the extinguisher at least once a month according to the manufacturer's instructions.



LP/CARBON MONOXIDE DETECTOR

A liquid propane (LP) / carbon monoxide (CO) gas detector is located near the floor level behind the driver's side ottoman. This detector will detect liquid propane gas, carbon monoxide and other gases that are heavier than air. The detector is powered by three coin cell batteries and will only operate when the TV unit battery disconnect switch is ON.

The detector should be tested after each time your vehicle has been in storage, before each trip, and weekly while the vehicle is in use. The test procedure should be performed in accordance to manufacturer's instructions. Do not block air circulation in the area where the detector is located.

NOTE: The LP/CO detector will sound to indicate a low coach battery voltage.



GENERATOR

When launching a boat or other form of watercraft with your Macquarie Way motorhome, it is important to not overuse the generator. Please refer to the generator owner's / operating manual for proper use and maintenance information. The generator is located behind the rear wall, between the frame rails. The generator access door faces the rear of the vehicle.



SAFETY

For your safety while travelling with your Macquarie Way motorhome, we have provided safety components throughout the vehicle. In order for your vehicle to maintain the safest possible condition, these components must be tested and maintained on a regular basis, according to the detailed manufacturer's operating instructions.

OCCUPANT AND CARGO CARRYING CAPACITY

The Tire and Loading Information label, found on the driver side door pillar, states the OGC of your motorhome. This figure states the maximum allowable weight of all occupants (including the driver), plus the weight of all food, tools, fuel, fresh water (if any), and personal belongings. The tongue weight of a towed trailer also counts as cargo. If you are travelling with water in your holding tank, weight can be calculated by using this rate: 1 kg / or 0.1 lb/gal.

The OGC of your motorhome was calculated by adding the weight of the full LP fuel tank, the full vehicle fuel tank, and the dry weight of the motorhome (as shipped from the factory) and subtracting that number from the Gross Vehicle Weight Rating (GVWR).

NOTE: All US units include a second OGC label on the inside of the passenger door.

TIRE AND LOADING INFORMATION RENSEIGNEMENTS SUR LES PNEUS ET LE CHARGEMENT				
Seating Capacity: 10	Passenger Capacity: 10	Passenger Capacity: 10	Passenger Capacity: 10	Passenger Capacity: 10
The combined weight of occupants and cargo should never exceed _____.				
WEIGHT	SIZE	LOAD LIMIT	LOAD LIMIT	LOAD LIMIT
FRONT				
REAR				
SPARE (if equipped)				

SMOKE DETECTOR

A smoke detector is located on the ceiling of your unit near the front. Smoke detectors may give you a warning of fire and smoke, but only if used and maintained in accordance to the manufacturer's instructions.

- This device should be tested after each time your vehicle has been in storage, before each trip, and at least once each week during your travels.
- Do not block air circulation in the area where the smoke detector is located.
- Ensure you connect the battery inside the detector upon receiving your new unit. (If your battery is not inside the unit.)
- Install a fully charged fresh battery at least once a year.



FUELING

When you are refueling your fuel tank, it is important to ensure that you are refueling your motorhome safely. To ensure that the pilot lights have been extinguished as well as any appliances in your vehicle have been shut off. Ensure the appliances are shut off so ignition will not activate.

WARNING: Even with the main LP valve shut off there is enough LP gas in the lines for the pilot lights to continue to burn.



FILLING THE LP GAS FUEL CYLINDER

The propane tank valve must be closed and all appliances and appliances, along with tank gauges, must be turned OFF during refueling of the motor fuel and/or the propane fuel tank. Only qualified personnel should refill your propane tank. Do not refill the propane tank to more than 80% of its capacity. Gas will appear at the breather valve at 80%. To reduce the danger of fire and/or explosion, do not store gasoline or other flammable liquids inside your vehicle.

NOTE: When the tank reaches 80%, the LP gauge on the coach control panel will read 70%.

WARNING: Ensure the propane system valve is fully shut when the vehicle is in motion. It is not safe to travel while propane appliances are in use. The propane switch is located in the driver side utility center.



APPLIANCES

It is not safe to use cooking appliances to heat the interior of the coach due to the danger of carbon monoxide. It is recommended that you read all of the appliance owner's / operating manuals prior to using the appliances.



TV

When the vehicle is in motion, it is necessary to have the flat screen television locked into travel position to prevent damage to the flat screen, bracket and to the speakers.



GFCI OUTLET

A ground fault circuit interrupter (GFCI) 110-volt receptacle located on the driver side off-road provides protection against line-to-ground electrical shock hazards that could be harmful or even fatal. The outlets that are on the circuit are the exterior, kitchen and rear bench receptacles. The GFCI receptacle must be tested at least once a month in accordance with the manufacturer's instructions.

Location of GFCI for the microwave and fridge:
Lever T3- In the cabinet above the Blu-ray player
Lever FL- In the closet



VEHICLE GROUND CLEARANCE

Your motorhome is equipped with lifters to help tanks, waste tanks, plumbing lines, propane lines and other RV related items. Please be careful when driving your motorhome on uneven or poorly maintained roadways.



SEAT BELTS

Only forward facing seats equipped with factory installed seat belts are to be occupied while the vehicle is in motion. All passengers must be seated in these seats only. Seat belts must be fastened while the vehicle is in motion.



EMERGENCY ESCAPE

If you need to make an emergency escape from the interior of your motorhome, use the interior door handle available on all doors.



MOTORHOME EXTERIOR

MOTORHOME DIMENSIONS AND CAPACITIES

Your motorhome is larger than your standard van or automobile, so please be careful when entering or departing garages, driveways, etc.



3.6 litre Pentastar V6 featuring 263 HP / 260 LB FT Torque
5 Speed Transmission
159" Wheel Base
2150 lbs Towing Capacity

CHASSIS PAINT CODE

Prestige Silver paint Code: P52

DIMENSIONS

Length (bumper to bumper)	95' 11" 29' 11"	6375 cm
Length (bumper to Hitch Receiver)	25' 12" 25' 11.25"	6394 cm
Height with AC	111.4" 9' 3.5"	2828 cm
Width with mirrors extended	96.5" 8' 2.5"	2450 cm
Width (excluding mirrors)	84.5" 7' 0.5"	2148 cm
Towing Capacity	2150 lbs	975 kg

CAPACITIES

Age	31 US gal	90 litres	119.8 pounds
Fresh Water / Potable Water	32.6 US gal	119.2 litres	128 pounds
Gray Water (Sink / Shower)	30.4 US gal	114.2 litres	122 pounds
Black Water (Toilet)	12 US gal	45.4 litres	100 pounds
Liquid Propane (LPG) (at 60%)	4.7 US gal	18 litres	29 pounds

WEIGHT

CHASSIS SPECS

GVAW	7350 lbs	4224 kg
GCVW	11,500 lbs	5215 kg
GSAW Front	4620 lbs	2100 kg
GSAW Rear	5880 lbs	2430 kg
Time (full)	17.25" / 250.16 ft	
Ratio (full)	16.5:1	
Tire Pressure Front	65 psi	450 kPa
Tire Pressure Rear	80 psi	550 kPa
Tire Pressure Spare	80 psi	550 kPa

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TIRE AND LOADING INFORMATION

The tire and load capacity information is located on the driver side door pillar. On this label you will find your tire size as well as cold tire pressure rating. Also found on this label is the seating capacity along with the occupant and cargo carrying capacity of your motorhome. Please refer to your specific label for accurate information.



PROPANE FILL, BREATHER VALVE AND BBQ QUICK CONNECT

The fill valve and breather valve allow the on board propane tank to be filled. Once filled, disconnect from the breather valve. The tank is filled to 60%. The interior gas grill needs 100%.



SEWER DUMP COMPARTMENT

Located on the driver side running board, the storage compartment is located behind the driver's door entrance step. This compartment gives easy access to the gray and black dump handles, as well as the sewer connector. The sewer hose connection is to the right hand side of the black water dump handle, mounted below the driver side running board.



UTILITY CENTER

Located in the middle of the driver side main wall panel, the compartment contains four main components used in your RV.

1. shore power hook-up
2. coach TV hook-up
3. prewired city water hook-up
4. LP electric valve switch



WATER HEATER VENT / ACCESS DOOR

Located mid-body the driver side, which the fridge is in, this vent gives you access to the exterior venting component of the water heater.

During regular use the OFF/ON switch on the left in the RV position, the water heater will not come on when the water is being used or when the water is being recirculated in either mode. Turn the water heater OFF when the motorhome is in storage.

NOTE: Keep this vent clear from all obstructions.



APPLIANCES	MANUFACTURER	MODEL
Refrigerator	DAIICHI	DAIICHI 2800
Large 4-Door Fridge	DAIICHI	DAIICHI 2800
Convection Microwave	DAIICHI	DAIICHI 2800
A/C Conditioner	DAIICHI	DAIICHI 2800
A/C Conditioner (over)	DAIICHI	DAIICHI 2800
Coin Top	DAIICHI	DAIICHI 2800
Water Pump	DAIICHI	DAIICHI 2800
Water Heater	DAIICHI	DAIICHI 2800
Toilet	DAIICHI	DAIICHI 2800
Propane	DAIICHI	DAIICHI 2800
Air Conditioning	DAIICHI	DAIICHI 2800
Lighting	DAIICHI	DAIICHI 2800
Radio	DAIICHI	DAIICHI 2800
TV	DAIICHI	DAIICHI 2800
Refrigerator	DAIICHI	DAIICHI 2800
Convection Microwave	DAIICHI	DAIICHI 2800
A/C Conditioner	DAIICHI	DAIICHI 2800
A/C Conditioner (over)	DAIICHI	DAIICHI 2800
Coin Top	DAIICHI	DAIICHI 2800
Water Pump	DAIICHI	DAIICHI 2800
Water Heater	DAIICHI	DAIICHI 2800
Toilet	DAIICHI	DAIICHI 2800
Propane	DAIICHI	DAIICHI 2800
Air Conditioning	DAIICHI	DAIICHI 2800
Lighting	DAIICHI	DAIICHI 2800
Radio	DAIICHI	DAIICHI 2800
TV	DAIICHI	DAIICHI 2800

NOTE: All measurements and capacities are approximations. Every effort has been made to be as accurate as possible.

PLEASE NOTE:

Appliances and options may change without notice and some appliances and equipment may be optional. Due to Pleasure-Way's policy of continuous improvement, Pleasure-Way Industries Ltd. reserves the right to make product changes at any time without incurring obligation.

The chassis manufacturer may make mechanical and option changes without Pleasure-Way Industries Ltd. incurring any obligation.

Pleasure-Way Industries Ltd. cannot be held responsible for changes made to an appliance supplied by another distributor or manufacturer.

Pleasure-Way Industries Ltd. cannot be held responsible for dealer installed options.

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EXTERIOR SHOWER

Located beside the vehicle fuel filler door, this compartment contains a retractable shower head and hot and cold water taps. When whitewatering your motorhome be sure to winterize this tap and the shower head.



FRIDGE VENTS

Located immediately on the driver side of the vehicle, these fridge vent screens house the back side of the fridge. Its electrical connections and propane system. Keep these vents free and clear from debris.



FRESH WATER HOLDING TANK FILL

Located behind the passenger side door, this compartment allows you to fill the fresh water holding tank. It also contains a vent tube for your fresh water holding tank.



FURNACE VENT

Located in front of the driver side door where next to the engine heater, this vent gives off the exhaust of the furnace.



NOTE: Ensure this vent is free and clear of obstructions at all times.

EXTERIOR 110-VOLT PLUG

Located on the passenger side panel (near the rear wheel) this plug will only function if power is supplied through the inverter generator to give power. The plug is controlled by the OFF button on the driver side button.



PORCH LIGHT

Located above the entry door. Control for the porch light is on the touch screen control panel. Touch the PORCH Light button to toggle ON or OFF. This button can be seen on the HOME screen in the LIGHTING page.



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TV ANTENNA

Located beside the awning on the passenger side near the front of the motorhome. The antenna is a dome style antenna designed to receive digital signals. The antenna control is located inside the cabinet above the Blu-ray player. It features a search option for finding in the best reception possible. Antenna should turn off if you are connected to park cable.

(For more information see page 49)



NON-CAPPED SEWER VENT PIPES

These vent pipes are sealed and connected directly to the black and gray water tanks. Located on the passenger side above the kitchen area, on the driver side above the bathroom.



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POWER AWNING

Please refer to the installation/operating instructions for further information.

The awning is located on the passenger side of the motorhome. This is a 13 foot 11 inch electric awning controlled by the switches located on the touch screen control panel. The 12 volt battery disconnect switch must be in the OFF position to operate the awning. Touch the mechanical symbol at the bottom of the touch screen control panel. Press and hold the EXTEND button to extend the awning. Press and hold the RETRACT button to retract the awning. The awning is a rigid roll up supporting awning with a retract sensor that will automatically retract the awning in windy conditions. The awning is equipped with a LED light strip located on the exterior rail of the awning. This light strip is controlled on the lighting page of the touch screen control panel.

CAUTION: Never leave the awning extended when you are away from your motorhome. The sensor sensor will retract in windy conditions, however a sudden large gust of wind may not trigger the awnings retract feature before damage occurs.

NOTE: The awning will not operate if the vehicle ignition is in the on position.

AIR CONDITIONER

Your vehicle is equipped with the 13,000 BTU air conditioner. Controls for the air conditioner are located on the HOME page touch screen control panel. (For more information see page 48)



SOLAR PANEL PACKAGE

Your vehicle can be equipped with 45 to 225 watt solar panels. The solar panels are located over the driver's door and behind the rooftop AC unit. (For more information see page 47)



FAN LIGHT VENT PAN

This fan vent is located on the roof of the motorhome. It is a 13 inch fan vent with a light. The controls for the fan are located on the touch screen control panel. (For more information see page 45)



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MAINTAINING YOUR MOTORHOME

It is recommended that you regularly maintain your Pleasure-Way motorhome in order to get the maximum benefit from your unit. The life and performance of each component depends upon proper use, operation and maintenance. With a regular maintenance schedule you should be able to avoid any components that may need attention, allowing you to have many years and miles of trouble-free traveling.

NOTE: Please refer to your Pleasure-Way motorhome owner's manual for chassis mechanical maintenance.

HELPFUL HINTS

To maintain your exterior painted fiberglass and metal surfaces we suggest you thoroughly clean and wax these pieces regularly. All fiberglass surfaces are painted with automotive paint.

When storing your Pleasure-Way motorhome it is recommended that you park the vehicle on a level surface. Avoid parking in a front end down position as rain or snow may collect in the air conditioner area, allowing moisture to enter the vehicle through the air conditioner. Damage to the motorhome as a result of incorrect parking will not be covered under warranty.

When storing your Pleasure-Way motorhome, ensure all holding tanks are emptied and flushed, the water system is completely drained, including the water heater. The LP gas valve is turned off the 12 volt battery disconnect is switched to the OFF position, and all electrical appliances are turned off.

When storing your Pleasure-Way motorhome it is recommended that you run your vehicle engine once a month to allow the engine starting battery to recharge and the vehicle fluids to flow through the engine. Please refer to your vehicle operator's manual for more details.

It is recommended that you run your generator (if equipped) for four under load each month. This will allow the system to maintain fresh fuel, the engine to be lubricated and the electrical components to avoid moisture build up.



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ULTRALEATHER CLEANING AND CARE

(Information taken from the Ultrafabrics website.)

Courtesy fabrics are engineered to be long-lasting, with surfaces that maintain their top-quality look and feeling after application. To keep any of our materials looking their best, we do recommend regular care and cleaning, especially to keep dirt from accumulating. Below is a general outline to help keep your fabrics looking their best.

TIPS

- Clean with soap and water or alcohol-based cleaners.
- Soften soiling (e.g., stains, dirt, water, etc.) by gently scrubbing with a soft, non-abrasive brush or sponge.
- For stubborn stains, use the stain remover (if applicable) as soon as possible.
- Higher alcohol solution is used with water.

INDOOR/OUTDOOR FABRIC CARE INSTRUCTIONS

(Information taken from the Ultrafabrics website.)

- All upholstery should be kept clean and free of dirt, oil, grease, and other stains.
- For indoor materials, surfaces should be cleaned with a mild detergent, water, or other cleaning agent (if available) and rinsed with clean water.
- The frequency of cleaning will vary greatly depending upon the local outdoor environment in which the product is used.
- Cleaners should not be used on the colored or solid white vinyls as the cleaners will cause color fading.
- All of our high-quality LP products perform best when they are paired with the proper care, maintenance, and cleaning. Failure to do so may result in a voided warranty between the fabric and foam and/or the vinyl and foam. And a note, proper care is not a guarantee.



ULTRALEATHER PRO STAIN CARE

Restaurant & Food Service	Ketchup, Mayo, Mustard,** Coffee, Red Wine, Tea
Healthcare	Blood, Urine, Bedrine
Contract & High Traffic Areas	Highlight Pen Ink**

Clean with soap and water, or an alcohol-based cleaner.

This information is not a guarantee. Please use all cleaning and disinfecting agents safely and as instructed.

For tough stains, clean using isopropyl rubbing alcohol. Please surface with water and dry. Prompt attention is important for successful removal of any stain.

A variety of clothing and accessories may contain dyes that could transfer to lighter colors, depending upon variations in temperature and humidity. Dye transfer is difficult to control, not always fully preventable, and may be irreversible.

TRAVEL PREPARATION

BEFORE YOU LEAVE

Prior to heading off on your adventure, you should always check to ensure that:

- The LP gas is turned OFF at the main valve.
- The black and gray waste water tanks are empty with the dump flaps closed.
- All electrical bonds and exterior hoses are stored back to their respective compartments.
- Chassis fluid levels are at recommended levels.
- Chassis tire pressure levels are at recommended levels.
- Chassis exterior lighting is functional.
- All exterior components are secure and locked.
- The refrigerator power switch is changed to 12-volt.
- All interior compartments and drawers are closed and latched.
- All interior cup holders are secure in their place.
- The furnace control switch is off.
- The TV swing-out is locked into the closed position, and
- The site is left in better condition than when you arrived.



UPON ARRIVAL AT YOUR SITE

Once you arrive at your site, please ensure that:

- Your motorhome is parked in a well-ventilated area. Your components will perform optimally when outside air on the fresh air inlet is well-ventilated and well-ventilated according to the label.
- All exterior vents are clear from obstructions.
- The black and gray waste tank valves are closed.
- The AC power cord is selected to the vehicle and to the site's power source (230 volt 20 amp).
- You lock the fresh water line to the city connection or fill the fresh water tank and connect to your site's water source.
- The LP gas valve is turned ON.
- The refrigerator is set to 12-volt.
- The furnace control switch is turned ON.

WHILE IN MOTION

While in motion, set refrigerator to operate in DC mode. Use of any other appliance is not recommended while the motorhome is in motion.

Always wear your seat belt when the vehicle is in motion. Only forward-facing seats are equipped with seat belts.

WARNING: Do not use LP appliances while the vehicle is in motion.

MOTORHOME SYSTEMS

LIQUID PROPANE GAS SYSTEM

LP appliances are: Propane, Cooktop, Water Heater and Furnace.

Your motorhome is equipped with a Liquid Propane (LP) gas system that provides a fuel source for the appliances which are designed to use this gas for operation. The storage tank is located under the kitchen counter behind the kitchen island. Access to the LP tank and regulator is found under the vehicle. The regulator is on the passenger-side propane tank bracket.

An LP gas regulator must always be installed with the manufacturer's label facing downward. Regulators that do not in compliance have a non-venting gas with a protective cover. Make sure that the regulator is rated downward and that the cover is kept in place to minimize heat discharge. Incorrect installation of the regulator can result in excessive gas pressure, causing fire or explosion. The main propane shut-off switch is located in the driver's side utility center.

The pressure fill, breather valve and BBO quick connect are located on the driver's side rear exterior corner of the vehicle. The breather valve must be open to fill the propane tank. Liquid will appear through the breather valve when the tank is 80% full. The propane gauge is located inside your coach, under the kitchen counter panel. The gauge will indicate full at 10.0 when the LP tank is 80% full.

NOTE: Your LP gas appliances may not light on the first try. There may be air in the LP gas lines that will absorb as the gas pressurizes the lines.

IF YOU SMELL GAS:

1. Extinguish any open flames, pilot lights and smoking materials.
2. Do not touch any electrical switches.
3. Shut off the gas supply at the tank valve or gas supply disconnect.
4. Open all the doors and other ventilating apertures.
5. Leave the area until the odor clears and you are sure there is no further risk to you or others.
6. Have the gas system checked and leakage sources 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. LP gas containers are equipped with safety devices that relieve excessive pressure by discharging gas into the atmosphere.

WARNING: It is not safe to use cooking appliances for comfort heating. Cooking appliances used inside the vehicle operation. Unlike homes, the amount of oxygen supply in the unit is limited due to the size of the vehicle. Proper ventilation when using the cooking appliances will avoid the dangers of asphyxiation, explosion and CO poisoning.

WARNING: Do not use portable fuel burning equipment including wood and charcoal grills and stoves inside the motorhome. The use of this equipment inside the recreational vehicle may cause fire or asphyxiation.

WARNING: Do not place the cooktop cover on the stove when the cooktop is lit, or when the burner knobs are in the ON position. Allow the cooktop to cool before closing the glass cover.

LP FILL VALVE & LP BLEEDER VALVE

The bleeder valve is used to vacate the LP tank when filling. The fill valve is located by the yellow hose.

Only fill the LP tank to 80% capacity. Filling will appear when the breather valve at 8.0.

WARNING: DO NOT FILL LP CONTAINER TO MORE THAN 80% CAPACITY. Overfilling the LP gas container can result in uncontrolled gas flow, which can cause a fire or explosion. A properly filled container will contain approximately 80% of its volume of LP gas.

BBO QUICK CONNECT

The BBO quick connect is already connected to the LP system. It is equipped with a shut-off valve and a safety handle. The quick connect is equipped with a pressure relief valve that is supplied from the onboard LP tank. The BBO quick connect works with the standard full-flow quick connect fitting. You will need a BBO that is set up for a low pressure LP reduce.

BASIC OPERATION:

1. Ensure the fill valve is in the UP position.
2. Remove the yellow cap and ensure the fitting is clean.
3. Pull the handle of quick connect back and insert the male quick connect fitting.
4. Push the male fitting until the handle (push forward) locking the fitting into the open.
5. Connect your BBO.
6. Turn the shut-off valve ON to allow propane to flow to the connected BBO.
7. Ensure the main LP meter on the body center is ON.

NOTE: Propane will only flow from the BBO quick connect when there is a hose connected. This is a safety feature of this component. The shut valve must be in the OFF position to release the hose from the quick connect.



LP TANK GAUGE

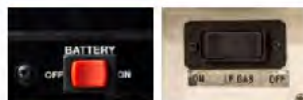
The gauge indicates how full the LP tank is. The LP gauge is located on the tank with a reading unit that sends levels to the touch screen control panels.



HOW TO USE THE LP APPLIANCES

Turn ON the 12 volt battery disconnect switch (located below the entrance touch screen control panel).

Turn ON the LP electric valve (located in the driver side utility center).



COOKTOP

Please refer to the manufacturer's operating instructions for further information.

The vehicle is equipped with a two-burner flush mount cooktop located in the kitchen counter top.

1. Lift the glass cover.
2. Turn the piezoelectric burner knob to ignite (turn on) position and hold the button in. This allows propane to flow to the selected burner. Hold the button for a couple of seconds before pressing the igniter.
3. Depress the middle ignition spark knob several times until the flames go out.
4. Turn the burner knob to adjust the flame to the appropriate heat setting.
5. When you have finished using the cook top, turn the burner knob to the OFF position to stop the burner to cool before moving the cook top cover.



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WATER HEATER

Please refer to the manufacturer's operating instructions for further information.

TRUMA AQUASOL® COMFORT PLUS (W/ FURNACE)
The water heater is located under the middle row of the furnace vent. You will have to remove the access panel (located under lines in a junction box) to access the heater. The heater is located under the floor in the middle of the vehicle. The heater is located under the floor in the middle of the vehicle.

The Truma Aquasol® Comfort Plus water heater is a hybrid water heater that combines the instant hot water source with a 3.5 US gal water tank and a recirculation system to provide a continuous flow of hot water.

BALEND OPERATIONS

1. Turn on the 12 volt battery disconnect switch.
2. Turn on the LP gas switch.
3. Turn on the water heater switch (located in the driver side utility center).
4. Turn the water heater switch to ECO mode or COMFORT mode (see the Truma manual to determine which is right for you).
5. Start the water flow on hot at a medium flow and adjust for the desired temperature.



WATER HEATER BYPASS VALVES

OPEN: The furnace is parallel to the water line.
CLOSED: The furnace is 90 degrees to the water line.

SUMMER MODE

OPEN the bypass valve on the red line (hot water), plus the green water and white line (cold water).
CLOSED the bypass valve that connects the blue line from the bottom to the red line from the top.



WINTER MODE

CLOSE the bypass valve on the red line (hot water), the blue line (cold water) and white line (cold water).
OPEN the bypass valve that connects the blue line from the bottom to the red line from the top.

NOTE: See the winterizing instructions in this manual for water storage information.

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FURNACE

Please refer to the manufacturer's operating instructions for further information.

Your vehicle is equipped with a 16,000 BTU Atomic LP gas Automatic Furnace. The furnace is located near the floor below the fridge. The thermostat control is located on the touch screen control panels.

1. Ensure that there is propane supplied to the coach.
2. Ensure there is 12V power to the system.
3. Turn on the FURN button on the touch screen control panel and set the desired temperature.
4. The furnace fan will come on, the fan will auto ignite and cycle through the fan and heating process. The furnace will maintain the desired temperature.
5. The furnace RESET button is located under the driver side platform cushion, below the furnace cover.

NOTE: The A/C fan may come on when the furnace engages. Set the thermostat in the FAN MODE to AUTOMATIC in order to prevent this from happening.



REFRIGERATOR

Please refer to the manufacturer's operating instructions for further information.

Your vehicle is equipped with a Domestic 13.5 way fridge / freezer (LP gas, AC & DC).

1. To turn the fridge on, use the mode dial to select your power source (PG, Gas, DC), then select your door mode (off, closed, etc) may vary slightly with each model and model year.
2. DC or 12 volt is used for the fridge and should only be used while the vehicle is in motion or for short stops less than 2 hours.
3. The pressure is manually set. (Follow the Danisco instructions located inside the fridge door).
4. The fridge is equipped with a travel and storage lock.

NOTE: For the best cooling results your vehicle should be level and the exterior refrigerator vents free from obstructions.



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FRESH WATER SYSTEM

The water system built into your motor home provides hot and cold water to the system's fixtures. A 12VDC self-priming pump draws pressurized water from the fresh water tank to all cold faucets and the water heater. An automatic pressure switch located in the water pump maintains a positive line pressure between 20 to 30 psi. The fresh water tank is located underneath the floor in the vehicle. The black water tank is located above the floor directly under the toilet.



FRESH WATER FILL AND DRAIN

To fill the fresh water tank, use the gravity water fill located on the passenger side of the van behind the sliding door. First, check the water fill cap with a clean white cloth; then place the water hose into the fill. Turn on the water to medium flow. There are two ways of knowing when your water tank is full: (1) by checking the monitor panel located inside your coach, (2) when water flows out through the gravity fill.



NOTE: If you notice water running out from underneath the van, check the drain tap located on the side of the fresh water tank to ensure the valve is closed. This tap is there to help you drain your fresh water tank.

FRESH WATER SYSTEM DRAINS

The fresh water tank drain is located under the passenger side running board, just under the sliding door. This drain is connected directly to your fresh water tank and will allow you to drain the fresh water tank when the vehicle is not in use. The vehicle is also equipped with low point drain valves. These valves allow you to drain all the fresh water lines in the vehicle. The low point drain line located below the passenger side running board near the fresh water tank. To use these drains ensure all water taps and the toilet valve are in an open position.



WASTE SYSTEM

The Reverse-Flow Low is equipped with a Reverse-Flow Low.

A black water tank is located below the toilet and above the front of the vehicle. Only the toilet water and solid waste enter this tank. This tank is approximately 12 x 5 gal / 15 L.

A gray water tank is located on the driver side of the vehicle. This tank holds wastewater from the sinks and the shower. This tank is approximately 20 US gal / 75 L.



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DRAINING THE WASTE HOLDING TANKS

Open the sewer compartment door on the driver side. This will expose the power civic outlet. Press in the black and gray dump valve handles to ensure the valves are closed. Remove the back termination cap.

1. Locate the sewer hose in the compartment under the running board, next to the dump outlet. Connect the sewer hose to the drain outlet, and cut the opposite end into an appropriate sewer dump outlet.

NOTE: Dump your black water first to allow your gray water to flush the black water through the hose.

2. Open the termination valve on the black water holding tank (black handle). Once the tank is empty, open the valve for the gray water holding tank (gray handle). A gordon hose may be left running into the toilet with the valve open to further rinse the tank and sewer hose.

3. Close the termination valves and replace the cap. Rinse and recheck your sewer hose back in its compartment.

4. Deodorize the empty tank by adding one US gal. of water mixed with commercial holding tank deodorizer to the tank.

NOTE: If the black water holding tank is allowed to overfill, the overflow may back up through the toilet drain. If the gray water tank is allowed to overflow, the overflow may back up through the shower drain.

NOTE: If you are using a sewer hookup in a RV park, keep the valves closed until the holding tank is at least partially full, then drain. The large quantity of waste flow will provide more effective drainage and reduce tank stoppages.

NOTE: Before using your black water holding tank, deodorize it by adding one US gal of water mixed with commercial tank deodorizer through the toilet.



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KITCHEN FAUCET (Fishes) (Q107/137-C113)

With the faucet handle turned off, the faucet may continue to drip for a short period of time or when the vehicle is motion. Water is retained in the faucet spout.



TOILET

Please refer to the manufacturer's operating instructions for further information.

Toilet Troubleshooting

If water keeps running in the bowl:

- Check to see if the float valve is all the way up. Sticking may be caused by foreign material or the waste valve diaphragm at the bottom of the toilet bowl. If the problem persists, you may need to replace the waste valve.

If the toilet leaks and there is water on the floor:

- If the leak is at the back of the toilet, check the water supply line connection and refer to the manufacturer's installation instructions.
- If the leak is at the toilet flange area (where the toilet mounts to the floor), check the toilet flange nuts and tighten them if necessary.

After flush pressure:

- The lever must be held fully down during the flush. An adequate 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 rate should be at least 10 liters/2.5 US gal per minute to ensure an adequate flush.



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CITY WATER CONNECTION

The city water connection is located in the driver side utility center. The city water connection is a convenience for you when you have access to an outside, pressurized water source. The city water system bypasses the fresh water holding tank and feeds the water directly so that you will not have to use the water pump. When hooking up the city water connection you should make sure that the water pump switch is turned OFF and that all water faucets are CLOSED.

1. Open the driver side utility center.
2. Remove the cap from the city water connection.
3. Attach (a garden hose to the connection using a rubber washer to ensure the fitting is tight).
4. Turn the water source on to medium pressure.
5. Check for leaks at the city water connection, as you may have to re-tighten the connection.

To disconnect the city water system, first turn off the water source, then open a faucet to relieve some of the pressure in the line, and then unhook the water line.



NOTE: It is advisable to use a water pressure regulator because excessive pressure may result in water line damage.

WATER PUMP AND TROUBLE SHOOTING

Located in the cabinet below the kitchen sink, the water pump has a removable filter that should be checked regularly.

The inline flow filter is located on the inlet side of the water pump. If the pump will not prime, ensure:

- there is water in the holding tank;
- that the battery is not run down;
- the water lines are tightly connected to the pump and to the filter;
- there are no leaks at the inlet fitting and filter (if air is being into these fittings, tighten fittings or apply clamps as necessary);
- the inline flow filter is clean.

If the water pressure drops, ensure that:

- the toilet operators are clean;
- there is water in the holding tank;
- the battery is not run down;
- the faucets and connections are free of leaks.

If the pump runs when there is no apparent demand for water, ensure that:

- there is water in the holding tank;
- all faucets and fixtures are shut off and not leaking;
- the water lines are free of leaks.



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WINTERIZING

WINTERIZING THE WATER SYSTEM

1. Drain the fresh water tank by opening the drain tap on the fresh water tank.
2. Drain and flush the black and gray water holding tanks.



3. Open the interior access panel under the fridge to access the back of the Truma water heater and the bypass valves.
4. Turn the bypass valves on the top red line, bottom blue line and the white center line to the closed position. (The handle to disengage when it is turned 90 degrees to the water line.)

Open the valve that is located where the blue line coming up from the bottom and the red line coming down from the top are connected.

5. Open the exterior door to the Truma water heater. Turn the electrical switch to the OFF position. Open the water heater drain by lifting the black latch on the top of the yellow main drain lever. Lower the drain lever until the water filter opens.



6. With the filter removed, inspect and clean the water filter. Inspect the "O" rings on the filter as found on page 16 of the Truma water heater manual. Remove the filter for winter.

NOTE: It is advised that you follow the Truma recommendations for descaling of the water heater. These instructions can be found on page 17/21 of the Truma water heater manual.



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7. Remove the water line from the inlet side of the water pump (this is the clear plastic line going into the water pump filter). Connect a suction hose to the inlet side of the water pump and place the other end in a container of clean water. RV antifreeze. Turn on the pump. This will pump non-toxic, RV antifreeze through all of your fresh water lines.

NOTE: Siphon hose consists of 40' of 1/2" clear tubing with a fitting to attach to the water pump. The fitting can be purchased through an RV dealer.

8. Open the kitchen, exterior shower and bathroom faucet one at a time allowing the antifreeze to flow through both the hot and the cold sides. Open the toilet valve and allow antifreeze to flow into the toilet bowl. Turn off the water pump and allow the siphon hose. Refill the original fresh water supply fitting.
9. Pour 1 cup of non-toxic, RV antifreeze down each drain (kitchen sink, bathroom sink and shower drain). Open the low point drain valve to the white water line for water heater regeneration. The low point drains are located above the fresh water tank drain.

OPTIONAL WINTERIZING FOR Milder CLIMATES

Ensure the water filter for the Truma water heater is removed for winter.

Follow steps above #1-9

10. Open all three low point drain valves in the location listed above.
11. Connect a blowout valve to the city water inlet. Connect a compressed air source.
12. Open each tap (bathroom, kitchen, exterior shower and toilet) both hot and cold. Allow the air to blow the remaining water out of the taps and valves. Fully drain the system - leave all taps, the toilet valve and drain valves in an open position.
13. Pour 1 cup of non-toxic, RV antifreeze down each drain.



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LIVING AREA ELECTRICAL SYSTEM

The motorhome living area electrical system is designed for convenience. It is capable of supplying the vehicle with at least two sources of power: 12 volt DC power and 110-120 volt AC power. The 12 volt coach battery supplies power to the interior components (except the roof air conditioner and fridge while set on AC) for short-term use. The 12 volt or DC power supplies an AC 110-120 volt current to the interior plug outlets, the entertainment centers and the microwave through the 2000 watt Pure-sine wave inverter.

The coach battery is charged when the engine is running and the red key disconnect switch is in the ON position or when you are connected to a 110-120 volt power source (shore power or generator) with the 12 volt battery disconnect switch in the OFF position. Your vehicle may also be equipped with solar panels. These solar panels will charge the coach battery if the red key disconnect switch is in the OFF position. For long term use, your vehicle may be powered by plugging into a 110-120 volt external power source with the supplied 25 foot power cable. The 25 foot power cable supplied with your coach must be connected and locked to your coach and then to a 110-120 volt power source (a 50 amp outlet is recommended). This will supply 110-120 volt power throughout the interior and supply power through a power converter to all 12 volt components. Do not run the air conditioner unless you are plugged into a minimum 20 amp power source.

Your motorhome is equipped with a 110-120 / 12 volt 45 amp power converter. The charging portion of the converter is specific to the lithium batteries. The converter function is to take part of the 110-120 volt current, that is received when the motorhome is plugged into an external power source or the generator is running, and convert it to DC or 12 volt power. Your motorhome is also equipped with a 2000 watt Pure-sine wave inverter. The Pure-sine wave inverter takes the 12 volt or DC power from your batteries and inverts it to 110-120 volt AC power. The inverter will enable you to use your 110-120 volt plug outlets, entertainment center and microwave even when a shore power source or generator source is unavailable. This power source will be limited by the state of charge of your batteries and by the amount of current drawn by each appliance. The inverter has a built in transfer switch that allows the 110-120 volt power to bypass the inverter and power the 110-120 volt plug outlets, entertainment center and microwave directly, when the motorhome is plugged into a shore power source or running on the generator.

NOTE: All dash components including the in dash radio and front map lights are powered through the starting (chassis) battery. Prolonged use of these items when the vehicle is not running will deplete the engine starting battery.

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WINTER STORAGE ELECTRICAL

1. Fully charge the engine starting and coach batteries.
2. Turn OFF the storage line disconnect switch (red key).
3. Turn OFF the 12 volt battery disconnect switch on the bottom of the entrance coach screen control panel.
4. It is recommended that you start and run your vehicle for a short period of time each month.
5. It is recommended that you start and/or your generator under load for at least a 15 hour period.
6. It is recommended that the fridge door be left slightly open to allow air to circulate through the fridge cabinet during a storage period.
7. It is recommended that the vehicle be driven or moved forward or backward, if possible, to avoid flat spotting of the vehicle tires.
8. The lithium batteries should not be charged if the interior of the coach is below freezing (32 F or 0 C).

EXERCISING THE GENERATOR IN WINTER WITHOUT CHARGING THE COACH BATTERIES

1. Turn ON the 12 volt battery disconnect switch on the entry coach screen control panel.
2. Start the generator by selecting GEN START on the touch screen control panel.
3. Once the generator is running, manually open the generator door. Once the status light turns green, the generator is generating power into the 110V and disconnect breaker below the driver side accordion cushion. This breaker directs the storage current from the coach battery to the lithium batteries.



WINTER USE

We recommend that the water system not be used when the outside temperature drops below the freezing point. You should ensure that your unit is completely winterized by that time. If it is necessary to use the water system, we suggest that you bring containers of fresh water with you and add non-toxic, RV antifreeze to the grey and black water holding tanks.

NOTE: Keep in mind that as you add more water to the holding tanks the antifreeze will dilute beyond the recommended amount and may start to freeze earlier at cold temperatures. Do not use the exterior shower.

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12 VOLT OR DC EQUIPMENT

Touch screen control panel
Water pump
Solar controller
12V stage
Subgenerator (when set to OFF)
Water heater
Fridge
Auxiliary power
Interior and exterior coach lights
TV antenna
12V / 120V selector
Generator start
Power outlets
Entertainment center
Power window

AC 110-120 VOLT POWER

The 25 foot, 50 amp power cord is provided with your vehicle. To activate all power circuits, connect and lock the power cord to your coach in the driver side utility center and to an adequate 110-120 volt power source. The power cord connections are rated for 30 amp, 110-120 volts. Most RV parks are equipped with 30 amp outlets. Remember to always attach the power cord to your coach first, and then to the power source.

NOTE: The male end of the power cord is a 30 amp style plug, therefore, you may require an adapter to convert the plug into a 15 amp style plug or a 50 amp style plug.

WARNING: Ensure the power source for your vehicle is a 110V AC power source. A higher voltage or lower voltage outlet could do damage to your coach.

AUTOMATIC TRANSFER SWITCH

Please refer to the manufacturer's operating instructions for further information.

The automatic transfer switch is located under the rear sofa on the passenger side wall panel. To access the transfer switch, open the passenger rear door of the vehicle. The automatic transfer switch will only allow your coach to get power from one source, either the generator or the shore power cord. This is a safety feature of this vehicle.

110-120 VOLT OR AC EQUIPMENT

TV and Blu-ray player when on a generator or shore power source
110V plug outlets (when a generator or shore power source is used)
Microwave when on a generator or shore power source
Refrigerator or AC
Air conditioning



NOTE: Connect and lock the power cord to your coach first and then the external power source.



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INVERTER

Please refer to the main features operating instructions for further information.

Your vehicle is equipped with the Kenwood Freedom 30 2000 watt Pure-sine Wave inverter located below the passenger side entrance cushion. The inverter provides 12 volt DC power inverter to 110, 120 volt AC power for the microwave, entertainment center and all AC outlets in and outside the coach. The inverter will be inhibited by the state of charge of the coach batteries and amperage draw from individual appliances.

Ensure all venting for the inverter is kept clear of obstructions. The Pure-sine Wave inverter has a thermal limiter switch built into it so that if you are on shore power or generator power it bypasses the inverter. The inverter will draw 6 amps of DC power if it is turned on and no load is being drawn from the inverter. If no load is on the inverter it will turn itself off after 25 hours of continuous operation.

The inverter is powered by the large red wire in the battery compartment. There is also a 250 amp main fuse in the system to protect the wire and the coach.

INVERTER DISPLAY / CONTROL PANEL

This control panel is located on the kitchen counter, above the sink.

This control panel will turn the inverter ON or OFF. The 12 volt battery disconnect switch or charge line disconnect switch do not turn the inverter ON or OFF. Always make the inverter as in the OFF position when not in use. The inverter can draw 6 amps from your battery if left in the ON position while not in use.

When plugged into shore power or running the generator, the inverter will turn OFF and this indicator on the control panel will be green.

NOTE: To turn the inverter ON or OFF you must press and hold the power button on the inverter control panel for at least 1 second.



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DC BREAKERS FOR THE CONVERTER/CHARGER AND GENERATOR

These breakers are located next to the DC load center. Remove the cover panel to access the breakers. The 150 amp disconnect breaker protects the converter/charger input to the coach batteries. The 150 amp breaker will disconnect coach battery input to the DC load center. The 100 amp generator breaker disconnects the coach battery input to the generator for the generator/stationary generator fuel pump.



12 VOLT BATTERY DISCONNECT

The 12 volt battery disconnect switch is located by the main entrance door on the coach screen control panel. The disconnect switch will stop all 12 volt power supplied to your appliances from the coach batteries.

NOTE: If your vehicle is going to be parked and not in use for longer than a 48 hour period, turn the switch to the OFF position as the LP/GC detector is hard wired into the coach batteries and will eventually drain the batteries.



CHARGE LINE DISCONNECT

The charge line disconnect switch (red key) is located above the battery box, access is through the driver's side rear door.

The charge line disconnect switch (red key) controls the charge from the engine alternator and solar panels to the coach batteries. When the switch is ON, the coach batteries will charge from the engine alternator and solar panels. When the switch is OFF, the coach batteries will NOT charge from the engine alternator and solar panels. This disconnect switch is used for stopping the age and freezing problems. This switch should be used during battery recharging.

ON Position: red key is locked into the switch.

OFF Position: red key can be removed from the switch.



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AC ELECTRICAL DISTRIBUTION PANEL

The Freedom-Way floor is equipped with an AC distribution panel that houses the breakers for the 110, 120 volt system. The distribution panel is located on the driver side entrance level floor. The breakers act like a standard breaker, you must unplug the breaker, it must all be unplugged before you can reset the breaker.

1. 20 Amp Inverter Input
2. 25 Amp Air Conditioner
3. 15 Amp Converter
4. 15 Amp Fridge (GFCI Protected)
5. 40 Amp Electric PUMP
6. 20 Amp Inverter Output
7. 15 Amp Microwave/Generator/Over (GFCI Protected)
8. 15 Amp All Appliances (GFCI Protected)

GFCI OUTLETS

A ground fault circuit interrupter (GFCI) is a device designed to protect the user from electric shock hazards that could be harmful or even fatal. The outlets that are on this circuit are the exterior, kitchen and rear panel receptacles. The GFCI receptacle must be tested at least once a month to ensure proper operation of the GFCI's mechanism.

The GFCI for the microwave and fridge are located:
TS - In the cabinet above the Blu-ray player.
FL - In the closet.

NOTE: The circuits must be powered to test or reset the GFCI. Check the GFCI for the individual appliances or plug outlets if the appliance is not operational.



DC LOAD CENTER

This load center is located in the cabinet below the driver side entrance cushion. The DC load center controls all the multiple wiring systems and switch panels. This load center contains receptacle breakers for the various components.

Press the white or black center button to reset the breakers.



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CONVERTER/CHARGER AND OUTPUT FUSES

Please refer to the main features operating instructions for further information.

Progressive Dynamics Lithium Converter/Charger model 91454.

This converter/charger is only to be used with the lithium batteries. The lithium batteries charge at a high amperage rate and the converter is designed for this purpose.

It is located under the power sub on the passenger side access to the converter/charger is through the passenger side rear door of the vehicle. Remove the floor plate battery cover and pull the panel covered panel of the top near the battery box. The top is for 30 amp 30 amp 30 amp 30 amp.

The converter takes 110 volt power and converts it to operate the 12 volt system. The converter will be plugged into shore power or operating off of the generator. The converter is plugged into a 110 volt power outlet under the power sub. The converter also has a battery charger built in that is specific to lithium battery charging. The battery charger only charges the lithium coach batteries.

NOTE: The converter fuses will blow if the coach battery is hooked up with reverse polarity.

NOTE: The Freedom-Way converter will only operate once the converter reaches a designated temperature.

WARNING: Do not work on the converter with the vehicle running, generator running or the vehicle plugged into shore power. Ensure the charge line disconnect is off.

TOUCH SCREEN CONTROL PANEL

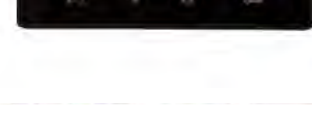
Please refer to the main features operating instructions for further information.

The Freedom-Way floor is equipped with four touch screen control panels. They are located on the kitchen control panel near the entrance and above the entertainment center in the rear lounge/living area. Both touch screen control panels control the living area functions of the vehicle home.

Display Screen Menu Symbols

The menu buttons are located at the bottom of the screen. There are four main buttons: Home, Back, Forward, and Stop. Home: Lights, Media/Entertainment, Settings.

Touch a menu symbol to display the screen that you want to see.



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Lights

By touching and holding the LIGHTS button, the interior lights will brighten and dim. (Only buttons with arrows next to the light bulb icon are capable of dimming.)

Real Time Loss/Gain Meter

This meter gives you the ampere draw of the components that you are using at any given time.

It takes into consideration gain from the solar panel and other items that may be charging your batteries. See touch screen for a detailed view for more details.

Battery Meter

The battery voltage is for the coach batteries. The battery voltage will vary depending on the load being drawn and the state of charge. For example when the motorhome is being used with the inverter the voltage will drop and then return to a normal reading once the motorhome is shut off.

TROUBLE SHOOTING THE DC/12 VOLT SYSTEM

1. Ensure the 12 volt battery disconnect is in the ON position.
2. Ensure there is 15 volt output from the battery output (check battery voltage or start the vehicle engine).
3. Ensure the converter/charger is plugged into the wall outlet.
4. Ensure the 30 amp fuses on the converter/charger are good.
5. Ensure the converter/charger breaker is not tripped in the AC breaker panel.
6. To reset the motorhome control system for the coach (this will reset all systems and controls), unplug the system from shore power or pull the generator disconnect switch (disconnect switch OFF) and a 15-20 volt electrical outlet. You may have to repeat this procedure several times. (Always ensure that you disconnect your power cord before starting the generator.)



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CHASSIS BATTERY

Please refer to the manufacturer's operating manual for the correct information.

The chassis (engine starting) battery is located below the driver's foot board in the utility area of the vehicle. The chassis battery has a built-in battery disconnect switch.

Battery Separator

A battery separator is installed to allow both the chassis and coach batteries to be charged when the engine is running, but will not allow the chassis battery to discharge when there is a demand from the living area system. The coach batteries are automatically charged whenever the vehicle engine is running, and the chassis battery disconnect switch is in the ON position. The battery separator will only allow the chassis battery to charge at a slower rate when you are using living area appliances or conditioning, etc.

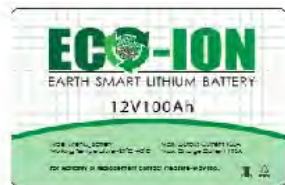
The battery separator is located under the bench and requires no regular maintenance.

NOTE: The chassis battery is only charged through the alternator when the engine is running.



COACH BATTERIES

ECO-ION EARTH SMART LITHIUM IRON PHOSPHATE (LiFePO₄) 12 volt 100 Ah (Note: some are equipped with two coach batteries located under the seat only. These Eco-Ion Earth Smart batteries consist of cells using lithium iron phosphate (LiFePO₄) chemistry. Lithium iron phosphate battery chemistry is one of the safest on the market today. Lithium batteries are different from lead-acid batteries. A lithium battery's voltage is more consistent and stable during charging, while voltage for a lead-acid battery decreases. A lithium battery can last 1000+ life cycle charge capability (measured as 50% depth of discharge) and will last 10+ years. Lithium batteries power level will not drop off and it will last longer. But a lead-acid battery's power level drops off abruptly.



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TROUBLE SHOOTING THE AC POWER

1. Ensure you have a reliable power source to plug your shore power into. Ensure your power cord is properly attached to your motorhome. Test the shore power outlet with a plug tester. Ensure your shore power is properly plugged into the motorhome.
2. Ensure the 30 amp GFCI breaker is not tripped. Press the TEST button and then reset the GFCI.
3. Insure the breakers in your distribution panel have not been tripped.

If you have power from shore power (separate grid), but not from your generator:

4. Ensure the breaker in the generator circuit is tripped.

If you have power from your generator, but not from shore power:

5. Check your shore power cables.

6. Turn on your generator transfer switch in the main panel. Make sure the transfer switch is in the correct position. If the transfer switch is in the correct position, the generator should be working properly.

Method 1: GFI the generator. Wait for power in your coach to be fully engaged by the generator and then flip the generator. Now plug your power cord into a 110-120 volt electrical outlet. You may have to repeat this procedure several times. (Always ensure that you disconnect your power cord before starting the generator.)

Method 2: GFI the generator and unplug your motorhome from shore power. Locate and open the automatic transfer switch. Move the transfer switch back and forth making sure they are fully engaged. Check for flicking between the transfer switch.

NOTE: If an individual appliance is not working ensure that the appliance is plugged in, check the breaker and GFCI for the individual appliance.



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Access to the coach battery is through the rear door. The batteries are located under the power cord.

1. Remove the Eco-Ion power panel (this panel is held by magnets).
2. Turn the battery covers and fold down the battery door.

WARNING: Do not work on the batteries with the vehicle running, generator running or the vehicle plugged into shore power.

BATTERY MANAGEMENT SYSTEM

The Eco-Ion Earth Smart batteries feature a built-in battery management system (BMS). The BMS automatically provides:

- Over-voltage protection
- Low-voltage protection
- Cell balancing
- Over-charge protection
- Temperature protection

CHARGING

The charging system is controlled with a converter that provides power to the coach batteries. Both Eco-Ion lithium batteries are rated with 150 amp hours for the protection of your coach and the battery system. These lines are located on top of the battery and end at the charging source.

There are three charging sources for the coach batteries:

ENGINE ALTERNATOR

The engine alternator will charge the coach batteries when the engine is disconnected (not running) in the ON position and the engine is running. The charging source is provided by two 150 amp hours located above the battery bank.

SOLAR PANELS (optional feature)

The solar panels will charge the coach batteries through the power control unit when the charge line disconnect (located in the ON position). This is a plug and play system and is a 30 amp hour located next to the charge line disconnect.

CONVERTER/CHARGER (for shore power and generator)

The converter/charger will charge the coach batteries when the motorhome is connected to a 110-120 volt power source (shore power) or when the generator is running. The 12 volt battery disconnect switch is located in the ON position. The charging source is provided by the 150 amp hour disconnect breaker and a 150 amp hour located above the batteries (located opposite).



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Touch **MANUAL SET UP** for a more in-depth set of choices.

Start Triggers:

Touch **LOW BATTERY VOLTAGE** or **HVAC** leads to turn on the required triggers for **AUTO GEN START**. The button will light up if it is activated.

Touch the **QUIET TIME** button to set the parameters/settings. By using the + and - buttons you can change the settings.

Stopping:

By using the + and - buttons you can change the settings of battery voltage, delay if the generator fails to start and number of restart tries.

Running:

By using the + and - buttons you can change the settings you can set the parameters for run time of the generator. This applies the HVAC setting.

Stopping:

By using the + and - buttons you can change the settings you can set the voltage parameters and the amount of time the battery remains at that voltage before the generator will shut off. This applies to the low battery voltage setting.

If both the **LOW BATTERY VOLTAGE** and the **HVAC** buttons are activated, whichever one needs the most run time to acquire the desired result will override the other setting.

NOTE: The Automatic Generator Start for use of the HVAC system (Air Conditioning or Heating). The application must be selected on the main screen, the temperature must be selected and set on the main screen and the fan on the main screen should be set to Fan Auto.



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MICROWAVE

Please refer to the manufacturer's operating instructions for further information.

Your microwave/convection oven operates off of 110 volt AC power only. To use your microwave you must be plugged into shore power, have the generator running, or use the 100A shore inverter.

NOTE: You will not be able to run your microwave oven at the same time as your rooftop air conditioner if you are running on generator power.

SOLAR PANEL PACKAGE

Please refer to the manufacturer's operating instructions for further information.

Your vehicle can be equipped with a 45-amp to 285 watt Canadian solar panel package located in the center of the roof. The On Prime solar panel charge controller is located on the side of the panel facing the rear of the coach.

The solar controller shows BATTERY VOLTAGE, CHARGE, and SOLAR AMPS. To shut it through the load, press the 2 button. The solar charge controller should be set to AGM batteries as this is the closest charge cycle to the lithium charge system. The solar panels will charge the coach batteries even when the battery disconnect is in the OFF position.

To prevent the solar panels from charging coach batteries you must turn OFF the charge line disconnect (red key).

NOTE: Ensure the solar panels are clean for optimal charging output.

CAUTION: To ensure your solar panels are not active when servicing the batteries it is advised to cover the solar panels.

CAUTION: Turn OFF the charge line disconnect if the vehicle is going to be in storage for a period of time or in sustained freezing conditions without internet heat.



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MOTORHOME INTERIOR

INTERIOR COCKPIT MAP LIGHT

Please refer to the vehicle manual for further information.

This is the floor ProMaster map light system. The cockpit map lights operate off the chassis/engine starting battery.

COOKTOP

The vehicle is equipped with a two-burner built-in cooktop located in the kitchen countertop.

(for more information see page 71)

FURNACE

Your vehicle is equipped with a 16,000 BTU forced LP gas Automatic Furnace. The furnace is located near the furnace to the fridge. The thermostat control is located above the interior TV.

(for more information see page 72)

REFRIGERATOR

Your vehicle is equipped with a Dometic three-way fridge/freezer (LP gas, AC & DC).

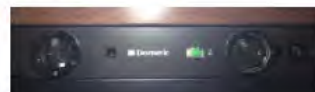
(for more information see page 73)

WATER HEATER

The water heater is located under the fridge or closet, next to the furnace vent.

(for more information see page 75)

(for wintering instructions see page 76)



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FAN-TASTIC VENT[®] FAN

Please refer to the manufacturer's operating instructions for further information.

This fan's unit is located in the roof-top near the shower/dryer and above the bathroom door, in the bathroom area of the interior. This fan will assist in exhausting the odors and steam from the bathroom and cooking area. This fan is equipped with a rain sensor. The controls for the fan are located on the mechanical page of the touch screen control panel.

The controls for the fan are located on the touch panel on the left side of the touch screen. To use the fan, touch the FAN button. The fan will operate at the speed of the fan.

Touch the FAN button to start the fan.

This fan is an exhaust fan used to draw air out of the coach. The fan is also controlled by the thermostat. Ensure the thermostat of the fan motor is set to the fan mode. To operate, touch the + and - buttons to increase/decrease the speed of the fan.

NOTE: The fan is equipped with a rain sensor so the fan cannot be operated when it is raining. The fan cannot be operated when the fan lid is closed.

AIR CONDITIONER

Please refer to the manufacturer's operating instructions for further information.

Your vehicle is equipped with two 11,000 BTU low profile Dometic air conditioners. From the ground to the top of the vehicle, the air conditioner is 11,000 BTU. This air conditioner provides you with a cool, dry environment. To ensure you have the best climate control, please refer to the operating instructions.

The controls for the air conditioner are located on the touch screen. To use the air conditioner, touch the A/C button. The air conditioner will operate at the speed of the fan. To operate, touch the + and - buttons to increase/decrease the speed of the fan. To ensure you have the best climate control, please refer to the operating instructions.

NOTE: When running the A/C in high heat or high humidity it is recommended the fan speed be set to HIGH. This will help avoid condensation freeze-up.



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USB CHARGING PORT

Your motorhome is equipped with USB charging ports. The driver and passenger side rear station each feature a USB charging port. The Lexia PL also features a charging port behind the driver seat in the front lounge area.

Each charging port features 2 USB slots that will fit a USB Type A connector. The 12 volt battery disconnect switch must be ON to power the USB ports. The USB ports are protected by a resettable breaker found on the DC Load Center.

TV & BLU RAY

This motorhome is equipped with TV and Blu-ray/DVD components. You will find these located in the entertainment center. These two components are powered by a 110 volt power source (inverter, shore power or generator).

BASIC BLU RAY OPERATION:

For the TV, Blu ray or Antenna, additional information can be obtained through the appliance owner manual.

COMPONENTS:

- 24" Flat Screen Monitor
- Blu-ray / DVD player
- Antenna with booster

NOTE: When traveling the TV should be stowed in the locked position.

NOTE: Your Blu-ray player is a player only as it will not record. To play a CD or MP3 the TV flat screen must be in the ON position.

12 VOLT OR DC OPERATION

The inverter will be used if you are not plugged into shore power or running the generator.

- Turn the inverter ON. Ensure the TV and Blu ray player are plugged into the wall outlet located above the Blu-ray player in the cabinet.
- Turn the antenna booster ON by pressing the black button on the antenna booster. Press the search button.
- Turn the TV ON and select CTV-TV using the input button on your TV or remote.
- Using the menu button select - TV > Channels > Scan Channel. This will bring in all local air channels.



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TABLE

- Remove the table and table leg from the front closed.
- Insert the T end of the table pole into the table base.
- Turn the table pole lock wedge until it is tight and locked into place.
- Press the table down onto the table pole.



JACK AND JACK TOOLS

The jack and jack tools are located under the power sofa on the driver side. Access is through the rear doors. Under the side locker straps that are holding the tool bag to the floor and remove the tool bag. This tool bag contains the jack and all necessary tools for its removal. It also contains the tow hook.

NOTE: See the Ram ProMaster owner's manual for jacking points and user instructions.

NOTE: There is no spare tire included with this vehicle. For your convenience a flat repair kit that includes 'sealant' liquid and an air compressor has been provided in the front seat canteen pocket.



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- For Cable TV connect a cable extension cord from the cable hook up in the component compartment to the park cable outlet. Turn the TV antenna booster OFF. Follow step (4) for auto programming.
- For Blu ray operation turn ON the Blu ray player. Using the source button on the TV or TV remote, select HDMI 1, insert a DVD or Blu-ray disc and allow the disc to load and press play.

120 VOLT OR A/C OPERATION

When using generator or shore power switch the inverter OFF. Use the same programming procedures as the 12 volt operation.

NOTE: To save power while watching TV ensure the Blu-ray player is switched OFF. Only turn your Blu-ray player on when in use.

BED LAYOUT

- To recline the sofa, press the mechanical page button on the bottom of the touch screen control panel. (Lower and hold the EXTEND button until the sofa reclines into the desired position).
- Remove the bed boards from the closet.
- Place the two bed boards on the extension rails.
- Place the extension brackets between the seat cushions to complete the bed make up.



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TIRE SAFETY



The following information has been sequenced from the NHTSA website.

EVERYTHING RIDES ON IT

Studies of tire safety show that maintaining proper tire pressure, observing tire and vehicle load limits (not carrying more weight in your vehicle than your tires or vehicle can safely handle), avoiding road hazards, and inspecting tires for cuts, slashes, and other irregularities are the most important things you can do to avoid tire failure, such as tread separation or blowout and flat tires. These actions, along with other safe and maintenance activities, also:

- Improve vehicle handling
- Help protect you and others from avoidable breakdowns and accidents
- Improve fuel economy
- Increase the life of your tires
- This booklet presents a comprehensive overview of tire safety, including information on the following topics:
- Basic tire maintenance
- Uniform Tire Quality Grading System
- Fundamental characteristics of tires
- Tire safety tips

Use this information to make tire safety a regular part of your vehicle maintenance routine. Recognize that the tire you spend is minimal compared with the inconvenience and safety consequences of a flat tire or other tire failure.

SAFETY FIRST- BASIC TIRE MAINTENANCE

Properly maintained tires improve the steering, stopping, traction, and load-carrying capability of your vehicle. Under-inflated tires and overinflated vehicles are a major cause of tire failure.

Therefore, as mentioned above, to avoid flat tires and other types of tire failure, you should maintain proper tire pressure, observe tire and vehicle load limits, avoid road hazards, and regularly inspect your tires.

FINDING YOUR VEHICLE'S RECOMMENDED TIRE PRESSURE AND LOAD LIMITS

Tire information placards and vehicle certification labels contain information on tires and load limits. These labels indicate the vehicle manufacturer's information on including:

- Recommended tire size
- Recommended tire inflation pressure
- Vehicle capacity weight (VCW-the maximum occupant and cargo weight a vehicle is designed to carry)
- Front and rear gross axle weight ratings (GAWR-the maximum weight the axle systems are designed to carry)

Both placards and certification labels are permanently attached to the vehicle door edge, door post, glove box door, or inside of the trunk lid. You can also find the recommended tire pressure and load limit for your vehicle in the vehicle owner's manual.

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UNDERSTANDING TIRE PRESSURE AND LOAD LIMITS

Tire inflation pressure is the level of air in the tire that provides it with load-carrying capacity and affects the overall performance of the vehicle. The tire inflation pressure is a number that indicates the amount of air pressure measured in pounds per square inch (psi)—a tire requires to be properly inflated. (You will also find this number on the vehicle information placard expressed in kilopascals (kPa), which is the metric measure used internationally.)

Manufacturers of passenger vehicles and light trucks determine this number based on the vehicle's design load limit, that is, the greatest amount of weight a vehicle can safely carry and the vehicle's tire size. The proper tire pressure for your vehicle is referred to as the "recommended cold inflation pressure." (As you will read below, it is difficult to obtain the recommended tire pressure if your tires are not cold.)

Because tires are designed to be used on more than one type of vehicle, tire manufacturers list the "maximum permissible inflation pressure" on the tire placard. This number is the maximum amount of air pressure that should ever be put in the tire under normal driving conditions.

CHECKING TIRE PRESSURE

It is important to check your vehicle's tire pressure at least once a month for the following reasons:

Most tires may naturally lose air over time.

Tires can lose air suddenly if you drive over a pothole or other object or if you strike the curb when parking.

With most all tires, it is usually not possible to determine underinflation by visual inspection.

For convenience, purchase a tire pressure gauge to keep in your vehicle. Gauges can be purchased at tire dealerships, auto supply stores, and other retail outlets.

The recommended tire inflation pressure that vehicle manufacturers provide reflects the proper psi when a tire is cold. The term cold does not relate to the outside temperature. Rather, a cold tire is one that has not been driven on for at least three hours. When you drive, your tires get warmer, causing the air pressure within them to increase. Therefore, to get an accurate tire pressure reading, you must measure tire pressure when the tires are cold or compensate for the extra pressure in warm tires.

STEPS FOR MAINTAINING PROPER TIRE PRESSURE

1. Locate the recommended tire pressure on the vehicle's tire information placard, certification label, or in the owner's manual.
2. Release the tire pressure of all tires.
3. If the tire pressure is too high in any of the tires, slowly release air by gently pressing on the tire valve stem with the edge of your tire gauge until you get to the correct pressure.
4. If the tire pressure is too low, note the difference between the measured tire pressure and the correct tire pressure. These "missing" pounds of pressure are what you will need to add.
5. At a service station, add the missing pounds of air pressure to each tire that is under-inflated.
6. Check all the tires to make sure they have the same air pressure except in cases in which the front and rear tires are supposed to have different amounts of pressure.

If you have been driving your vehicle and think that a tire is under-inflated, fill it to the recommended cold inflation pressure indicated on your vehicle's tire information placard or certification label. While your tire may still be slightly under-inflated due to the extra pounds of pressure in the warm tire, it is safer to drive with air pressure that is slightly lower than the vehicle manufacturer's recommended cold inflation pressure than to drive with a significantly under-inflated tire. Since this is a temporary fix, don't forget to recheck and adjust the tire's pressure when you can obtain a cold reading.

TIRE SIZE

To maintain tire safety, purchase new tires that are the same size as the vehicle's original tires or another size recommended by the manufacturer. Look at the tire information placard, the owner's manual, or the sidewall of the tire you are replacing to find this information. If you have any doubt about the correct size to choose, consult with the tire dealer.

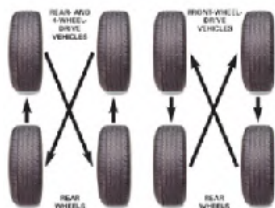
TIRE TREAD

The tire tread provides the gripping action and traction that prevent your vehicle from slipping or sliding, especially when the road is wet or icy. In general, tires are not safe and should be replaced when the tread is worn down to 1/16 of an inch. Tires have built-in treadwear indicators that let you know when it is time to replace your tires. These indicators are raised sections spaced intermittently in the bottom of the tread grooves. When they appear "even" with the outside of the tread, it is time to replace your tires. Another method for checking tread depth is to place a penny in the tread with Lincoln's head upside down and facing you. If you can see the top of Lincoln's head, you are ready for new tires.

TIRE BALANCE AND WHEEL ALIGNMENT

To avoid vibration or shaking of the vehicle when it drives, the tires must be properly balanced. This balance is achieved by positioning weights on the wheel to counterbalance heavy spots on the wheel-and-tire assembly. A wheel alignment adjusts the angles of the wheels so that they are positioned correctly relative to the vehicle's frame. This adjustment maximizes the life of your tires and prevents your car from veering to the right or left when driving on a straight, level road. These adjustments require special equipment and should be performed by a qualified technician.

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A Tire Rotation Example

For maximum mileage, rotate your tires every 5,000 miles. Follow correct rotation patterns.

TIRE ROTATION

Rotating tires from front to back and from side to side can reduce irregular wear (for vehicles that have tires that are all the same size). Look in your owner's manual for information on how frequently the tires on your vehicle should be rotated and the best pattern for rotation.

TIRE REPAIR

The proper repair of a punctured tire requires a plug for the hole and a patch for the area inside the tire that surrounds the puncture hole. Punctures through the tread can be repaired if they are not too large, but punctures to the sidewall should not be repaired. Tires must be removed from the rim to be properly inspected before being plugged and patched.

TIRE FUNDAMENTALS

Federal law requires tire manufacturers to place standardized information on the sidewall of all tires. This information identifies and describes the fundamental characteristics of the tire and also provides a tire identification number for safety standard certification and in case of a recall.

UNIFORM TIRE QUALITY GRADING SYSTEM (UTQG)

To help consumers compare a passenger car tire's treadwear rate, traction performance, and temperature resistance, the federal government requires tire manufacturers to grade tires in these three areas. This grading system, known as the Uniform Tire Quality Grading System, provides guidelines for making relative comparisons when purchasing new tires. You also can use this information to inquire about the quality of tires placed on new vehicles.

Although this rating system is very helpful when buying new tires, it is not a safety rating or guarantee of how well a tire will perform or how long it will last. Other factors such as personal driving style, type of car, quality of the roads, and tire maintenance habits have a significant influence on your tire's performance and longevity.

Treadwear grades are an indication of a tire's relative wear rate. The higher the treadwear number is, the longer it should last for the tread to wear down. For example, a tire grade of 400 should wear twice as long as a tire grade of 200.

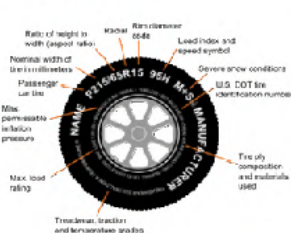
Traction grades are an indication of a tire's ability to stop on wet pavement. A higher graded tire should allow you to stop your car on wet roads in a shorter distance than a tire with a lower grade. Traction is graded from highest to lowest as "AA," "A," "B," and "C."

Temperature grades are an indication of a tire's resistance to heat. Sustained high temperature (for example, driving long distances in hot weather), can cause a tire to deteriorate, leading to blowouts and tread separation. From highest to lowest, a tire's resistance to heat is graded as "A," "B," or "C."

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INFORMATION ON PASSENGER VEHICLE TIRES

Please refer to the diagram below.



P The "P" indicates the tire is for passenger vehicles.

Next Number

This three-digit number gives the width in millimeters of the tire from its inner edge to sidewall edge. In general, the larger the number, the wider the tire.

Next Number

The two-digit number, known as the aspect ratio, gives the tire's ratio of height to width. Numbers of 70 or lower indicate a stiffer sidewall for improved steering response and better overall handling on dry pavement.

R

The "R" stands for radial. Radial ply construction of tires has been the industry standard for the past 20 years.

Next Number

The two-digit number is the wheel or rim diameter in inches. If you change your wheel size, you will have to purchase new tires to match the new wheel diameter.

Next Number

This two- or three-digit number is the tire's load index. It is a measurement of how much weight each tire can support. You may find this information in your owner's manual. If not, contact a local tire dealer. Note: You may not find this information on all tires because it is not required by law.

M+S

The "M+S" or "M/S" indicates that the tire has some mud and snow capability. Most radial tires have these markings; hence, they have some mud and snow capability.

Speed Rating

The speed rating denotes the speed at which a tire is designed to be driven for extended periods of time. The ratings range from 59 miles per hour (mph) to 185 mph. These ratings are listed below. Note: You may not find this information on all tires because it is not required by law.

Letter Rating	Speed Rating
A	149 mph
B	140 mph
C	130 mph
D	120 mph
E	110 mph
F	100 mph
G	90 mph
H	80 mph
I	75 mph

For tires with a maximum speed capability over 149 mph, tire manufacturers sometimes use the letters ZR. For those with a maximum speed capability over 185 mph, the manufacturers always use the letters ZR.

U.S. DOT Tire Identification Number

This begins with the letters "DOT" and indicates that the tire meets all federal standards. The next two numbers or letters are the plant code where it was manufactured, and the last four numbers represent the week and year the tire was built. For example, the numbers 3197 means the 31st week of 1997. The other numbers are marketing codes used at the manufacturer's discretion. This information is used to contact consumers if a tire defect requires a recall.

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The number of plies indicates the number of layers of rubber-coated fabric in the tire. In general, the greater the number of plies, the more weight a tire can support. Tire manufacturers also must indicate the materials in the tire, which include steel, nylon, polyester, and others.

This number indicates the maximum load in kilograms and pounds that can be carried by the fire.

This number is the greatest amount of air pressure that should ever be put in the tire under normal driving conditions.

This number indicates the tire's wear rate. The higher the treadwear number is, the longer it should take for the tread to wear down. For example, a tire graded 100 should last twice as long as a tire graded 200.

This letter indicates a tire's ability to stop on wet pavement. A higher graded tire should allow you to stop your car on wet roads in a shorter distance than a tire with a lower grade. Traction is graded from highest to lowest as "A", "A", "B", and "C".

This letter indicates a tire's resistance to heat. The temperature grade is for a tire that is inflated properly and not overloaded. Excessive speed, underinflation or excessive loading, either separately or in combination, can cause heat build-up and possible tire failure. From highest to lowest, a tire's resistance to heat is graded as "W," "B," or "C."

[illegible]

The *LT⁺ indicates the tire is for light trucks.

This information indicates the maximum load and tire pressure when the tire is used as a dual, that is, when four tires are put on each rear axle (a total of six or more tires on the vehicle).

This information indicates the maximum load and tire pressure when the tire is used as a single.

This information identifies the tire's load-carrying capabilities and its inflation limits.

In some heavy snow areas, local governments may require true snow tires, those with very deeply cut tread. These tires should only be used in pairs or placed on all four wheels. Make sure you purchase snow tires that are the same size and construction type as the other tires on your vehicle.

LEADING BLADES TO BLADE	50° / 427mm
NO. OF INTER-LEADING SPACES	10° / 20° / 2000mm
THICKNESS	7.5 / 1.5 mm
APPROX. WEIGHT	0.2 kg / 200mm
W. BLADES TO INTER-LEADING	0.1° / 140mm
FRONT BLADE TANK CAPACITY	20 LBS 2oz / 19.1 L
CHRY BLADE TANK CAPACITY	20 LBS 2oz / 19.1 L
BACK BLADE TANK CAPACITY	40 US Oz / 4.5 L
IF BLADE TANK IS PLACED TO OTHER SIDE	40 US Oz / 4.5 L
WHEEL TYPE	GRABBER
WHEEL CONSTRUCTION	27 LBS 10oz / 19.1 L
TORQUE CAPACITY	5,000 LBS
CLIMBING SPEED	70° / 1000mm / 10" Long
DRIVING SPEED	20° / 1000mm / 10" Long
SLIDING SPEED	24° / 1000mm / 10" Long

PAUL ROSS LOSTER UNIVERSITY, LA	BASIC LIMITED WARRANTY - coverage for 3 years or 36,000 miles AVAILABLE PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles AVAILABLE PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles
PAUL ROSS LOSTER UNIVERSITY, CALIFORNIA	BASIC LIMITED WARRANTY - coverage 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles
PAUL ROSS LOSTER UNIVERSITY, TEXAS	BASIC LIMITED WARRANTY - coverage 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles
PAUL ROSS LOSTER UNIVERSITY, VIRGINIA	BASIC LIMITED WARRANTY - coverage 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles
PAUL ROSS LOSTER UNIVERSITY, WISCONSIN	BASIC LIMITED WARRANTY - coverage 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles
PAUL ROSS LOSTER UNIVERSITY, WYOMING	BASIC LIMITED WARRANTY - coverage 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles PREMIUM PAUL ROSS LOSTER - coverage for 3 years or 36,000 miles

MPG	5,000 (S) / 4,241 (D)
MPG CITY	11,660 (S) / 5,714 (D)
30 CITY/MPG HIGHWAY	2,361 (S) HIGH (S) (D)
MPG HIGHWAY	250 (D)
TORQUE (LBS-FT)	249 (S) 182 (L) 450 (S) 240 (D)
WHEELBASE	103"
TRAILER BRAKE	AIR OPERATED
REAR LIFT POSITION	5/2 (DOWN) 7 (UP) 7 (DOWN)
FUEL TANK (GALLONS CAPACITY)	60 (GAL) (S) 65 (GAL) (D)
100% DIESEL FUEL CAP	50
CHARGED AIR CONDITIONING	YES
POWER WINDOW, DOOR LOCKS, MIRRORS	YES
EXHAUST (DIESEL PARTICLE FILTER)	YES
3 BRAKING MODES	REGULATORY
STEERING (POWER) / POWER STEERING	YES
STEERING (STEERING) (4 WHEEL)	DISC BRAKES WITH ABS
STABILITY AND TRACTION CONTROL	ELECTRONIC STABILITY CONTROL
TIRE PRESSURE MONITORING	YES
TIRES (21" TUBES)	275/70R17 (S) / 275/70R17 (D)
CRUISE CONTROL (S) / CRUISE CONTROL (D)	220 (S) 210 (D) (S) (D)
AUTOMATIC DRIVER ASSISTANCE	YES
PI DASH NAVIGATION (S) / PI DASH NAVIGATION (D)	YES
REAR VIEW CAMERA (S) / REAR VIEW CAMERA (D)	YES
AUXILIARY (S) / AUXILIARY (D) (S) / AUXILIARY (D)	YES

DATE PURCHASED:

[illegible]