



OWNER'S MANUAL

LIBERTY 4 PTV

with CRX EFI Engine

10213731-A



OWNER'S MANUAL

LIBERTY 4 PTV

w/ Gas CRX EFI Engine

Model Year 2027+

CONTACT INFORMATION

E-Z-GO

1451 Marvin Griffin Road

Augusta, Georgia, USA 30906-3852

North America:

1-800-774-3946 Technical Assistance and Warranty

1-888-438-3946 Service Parts

001-706-798-4311 International

www.ezgo.com

Thank you for purchasing this vehicle. Before driving your new vehicle, read this owner's manual to familiarize yourself with safe driving practices, operation, features and controls.

This manual contains instructions for minor maintenance only. Information about major repairs can be found in the service manual. Your dealer has thorough knowledge of your vehicle and wants your total satisfaction with your purchase. We recommend you return to your dealership for all of your service needs during, and after the warranty period.

Repair or replacement parts can be purchased from your dealer or through the manufacturer's parts and accessories department.

These are original instructions as defined by 2006/42/EC.

The manufacturer maintains the right to change the design of the vehicle without responsibility to make the changes on units purchased before changes were made. The information in this manual can change without notice.

All information in this owner's manual is based on the latest product information at the time of publication. Due to constant improvements in the design and quality of production components, some discrepancies may be found between your vehicle and the information presented in this publication. The content in this publication is intended for reference use only. The manufacturer is not liable for omissions or inaccuracies. Any reprinting or reuse of the content in this publication, whether whole or in part, is expressly prohibited.

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INTRODUCTION

The following symbols appear throughout this manual and on vehicle labels. Your safety is involved when these symbols are used. Become familiar with their meanings before reading the manual.



DANGER indicates a hazardous situation that, if not avoided, will result in death or serious injury.



WARNING indicates a hazardous situation that, if not avoided, could result in death or serious injury.



CAUTION indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.



NOTICE provides key information by clarifying instructions.

(S) The PROHIBITION SAFETY SIGN indicates an action NOT to take in order to avoid hazard.

0 The MANDATORY ACTION SIGN indicates an action that NEEDS to be taken to avoid a hazard.



Failure to comply with the warnings in this manual can result in severe injury or death.

Read this entire manual carefully before operating this vehicle. Do not attempt to operate this vehicle until you have thorough knowledge of the controls and features.

Regular inspections and maintenance, along with good operating techniques, will help ensure your safe enjoyment of the capabilities and reliability of this vehicle.

This vehicle was designed and manufactured in the United States of America (USA). The standards and specifications in the following information originate in the USA unless otherwise indicated.

When servicing motors, all adjustments and replacement components must be per original vehicle specifications to maintain the USA Federal and State emission certification applicable at the time of manufacture.

MANUFACTURER'S INTENDED USE

This vehicle is designed and manufactured for *off* road use only. Use on public streets, roads or highways is illegal in most areas and increases the risk of an accident involving other vehicles and people. This vehicle does not meet FMVSS (Federal Motor Vehicle Safety Standards) for public street, road, or highway use.

Check all laws and regulations before choosing an area to operate your vehicle.

WARRANTY AND REGISTRATION

Register your vehicle at www.ezgo.com.

A literature package is included with the purchase of a new vehicle. The package contains the following items:

- Vehicle Warranty Statement
- EPA and California Emission Control Warranty Statement (EVAP emission)
- PTV Safety Brochure

Use Original Equipment Manufacturer (OEM) approved parts to keep the vehicle warranty effective.

Tampering with or adjusting the governor to allow the vehicle to operate above factory specifications will void the vehicle warranty.

All information, including coverage, limitations, exclusions and how to obtain warranty service is included in the literature package with the purchase of the vehicle. It can also be obtained from your dealer.

EXHAUST EMISSIONS

The exhaust emissions of this vehicle's engine complies with regulations set forth by the Environmental Protection Agency (EPA) of the United States of America (USA) at time of manufacture. Significant fines could result from modifications or tampering with the engine, fuel, ignition, or air intake systems. Refer to the warranty statements provided with the vehicle for all information.

BATTERY PROLONGED STORAGE

Batteries discharge over time. The rate of discharge changes according to the ambient temperature, the age and condition of the batteries.

Completely charged batteries will not freeze in winter temperatures unless the temperature is less than -75°F (-60°C).

BATTERY DISPOSAL

Lead-acid batteries are recyclable. Return discarded batteries to distributor, manufacturer or lead smelter for recycling. For neutralized spills, put any residue in acid-resistant containers with absorbent material such as sand. Dispose in accordance with local, state and federal regulations for acid and lead compounds. Contact local or state environmental authorized people for the disposal information.

SERVICE AND PARTS MANUALS

The following manuals can be purchased through a dealer:

- service manual
- parts manual

SERIAL NUMBER AND PIN LOCATIONS

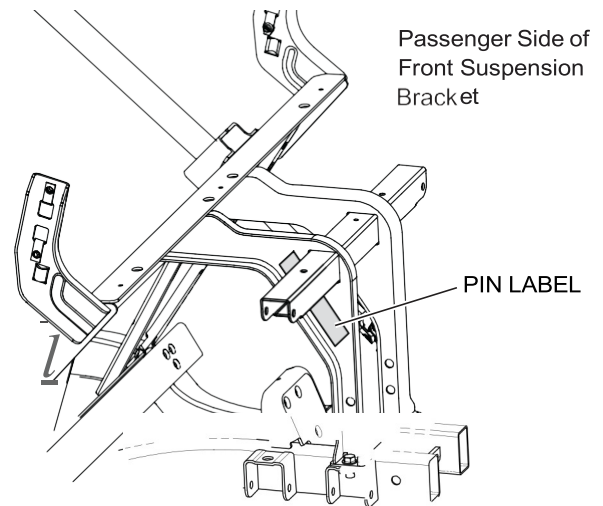
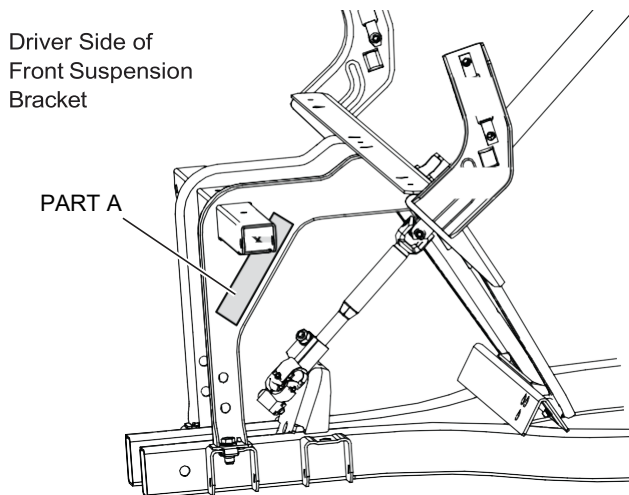
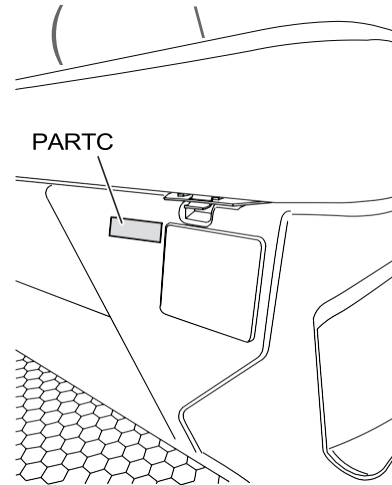
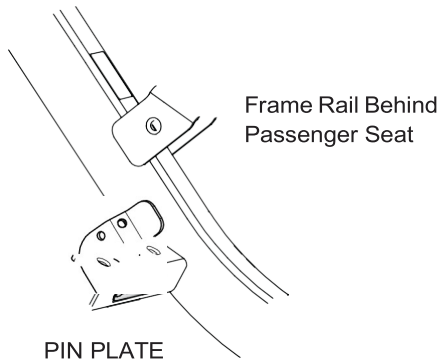
Design changes occur on a continuous basis. To order the correct components for the vehicle, the serial number or PIN and manufacture date are required.

PART A

MOOEL	
DATE CODE	
SERIAL No.	
Bar Code	
GVW Lb/ kg Lb/kg V/Ball Norm Power Hp/ kw	

PART C

SERIAL No.	
Bar Code	



Record the vehicle identification numbers in the spaces provided below. These identification numbers are required when ordering parts from the manufacturer.

Vehicle Serial Number

Vehicle PIN



SAFETY

For questions about your vehicle or the material in this manual, see the contact information on page i or the back of this publication.

MODIFICATIONS - GOVERNMENTAL AND INDUSTRY STANDARDS

Certain replacement parts can be used independently and/or in combination with other accessories to modify this vehicle to permit the vehicle to operate at or in excess of 20 mph. When this vehicle is modified in any way by the Distributor, Dealer or customer to operate at or in excess of 20 mph (32 kph) on public streets or roads, UNDER FEDERAL LAW the modified product will be a Low Speed Vehicle (LSV) subject to the strictures and requirements of Federal Motor Vehicle Safety Standard 571.500. In these instances, pursuant to Federal law the Distributor or Dealer MUST equip the product with headlights, rear lights, turn signals, seat belts, top, horn and all other modifications for LSVs mandated in FMVSS 571.500, and affix a Vehicle Identification Number to the product in accordance with the requirements of FMVSS 571.565. Pursuant to FMVSS 571.500, and in accordance with the State laws applicable in the places of sale and use of the product, the Distributor, Dealer or customer modifying the vehicle also will be the Final Vehicle Manufacturer for the LSV, and required to title or register the vehicle as mandated by State law.

Information on FMVSS 571.500 is found at Title 49 of the Code of Federal Regulations, section 571.500. For information on-line, go to www.ecfr.gov.

The manufacturer will NOT approve Distributor, Dealer or customer changes that change a vehicle into a Low Speed Vehicle (LSV).

This vehicle meets the current applicable standard for safety and performance requirements.

OWNER RESPONSIBILITY

Improper use, maintenance, or modification of this vehicle can lead to serious injury or death.

Require proper use of your vehicle. Do not allow anyone to operate your vehicle or ride as a passenger unless they are properly instructed and you are sure they are willing to ride responsibly. To prevent unauthorized use, always remove the key fob from the vehicle when not in use.

For questions about the vehicle or the material in this manual, see the contact information on page 1 or the back of this publication.

Unauthorized Use

This vehicle is for adult use only. Anyone below the age of 16 is not permitted to operate the vehicle.



Anyone who does not have a valid driver's license is not permitted to operate the vehicle.

Operator must fit the vehicle. Be sure the operator is able to:

- sit with their back against the seat
- adjust the seat belt to fit properly (if equipped)
- have both feet flat on the floor and reach pedals
- have both hands on the steering wheel



Operating without Instruction



Operation of this vehicle without proper instruction increases the risk of an accident. The operator must understand how to operate the vehicle correctly in different situations and on different types of roads.

All operators must read and understand the owner's manual and all warning and instruction labels before operating the vehicle.

Alcohol or Drugs



Operation of the vehicle during or after consuming alcohol or drugs can adversely affect operator judgment, reaction time, balance and perception.

Never drink alcohol or use drugs or medications before or during operation of the vehicle.

Passengers

It is the responsibility of the owner and/or operator to make sure passengers meet the qualifications required to ride in the vehicle.

All passengers must fit the vehicle. Passengers must be able to:

- sit with their back against the seat
- adjust the seat belt to fit properly (if equipped)
- have both feet flat on the floor



Do not allow children who need child safety seats or booster seats to ride in the vehicle. The vehicle is not designed to restrain automotive child safety seats.

For additional safety and operational information, see DRIVING WITH PASSENGERS on page 36.

SEAT BELTS (IF EQUIPPED)



Riding in this vehicle without wearing the seat belt increases the risk of serious injury in the event of an accident or sudden stop.



All occupants must wear seat belts at all times. Always make sure seat belts are secured for operator and all passengers before operating. See SEAT BELTS (IF EQUIPPED) on page 33 for complete safety and operation information.

Unrestrained occupants can be thrown off or fall from a moving vehicle.

Every person must be properly seated and belted in their own seat. Two people must never be belted into a single seat belt.

CUSTOMIZABLE RGB LED LIGHTS (IF EQUIPPED)

Multi-color and flashing LED lights offer a variety of accent lighting modes for personalized customization. Use of these lights while operating the vehicle on public roads is prohibited by law. Thoroughly read the information below prior to operation.



This vehicle has customizable co/or-changing/flashing exterior lighting. Use of these lights while operating on public roads may violate state and/or local laws.

In certain areas, this is punishable as a misdemeanor offense, resulting in fines and other penalties.

Color-changing/flashing modes are for off-road, show or private use only.

Only use white or amber light in steady mode at the front of the vehicle when operating on public roads.

Jurisdictional

In most jurisdictions, the following are illegal for civilian use while driving and are prohibited on any non-emergency vehicle while driving:

- flashing
- strobing
- animated lights (including RGB, flow series or chasing LEDs)

Blue, red or green lights are reserved exclusively for:

- law enforcement (blue)
- fire and EMS (red)
- volunteer firefighters (green, with restrictions)

These lights can not be used in a moving vehicle on public roads, even if they are part of decorative or aftermarket lighting kits.

Permitted Use

Color-changing/flashing modes can be used when:

- vehicle is parked
- at car shows
- on private property

Potential Penalties

Violation of these laws can result in a misdemeanor offense, including:

- fines
- points on license
- vehicle inspection failure
- equipment confiscation

MAXIMUM WEIGHT CAPACITY

⚠ WARNING *Exceeding weight capacities can cause loss of vehicle control and possible injury or death.*

	LIBERTY 4
Maximum Vehicle Weight Capacity	800 lb (363 kg)
Maximum Load Deck Capacity	300 lb (136 kg)

Do not exceed the maximum vehicle weight capacity (includes weight of operator, passengers, cargo, accessories, and trailer tongue weight).

TIRE PRESSURE

⚠ WARNING *Improper or uneven tire pressure can cause loss of vehicle control and possible injury or death.*

Maintaining correct tire inflation pressure is essential for safe vehicle operation. Inflation pressure can vary within the recommended range to suit the condition of the terrain.

TIRE PRESSURE RANGE	TERRAIN CONDITION	RECOMMENDATION
18-22 psi (124-152 kPa)	Hard surfaces or pavement	Inflate to higher pressure within the range; never exceed maximum pressure indicated.
	Soft terrain or turf	Inflate to lower pressure within the range to reduce potential damage to the terrain or turf.

OPERATOR SAFETY

Safe and responsible use of this vehicle is necessary to prevent dangerous conditions for the operator, passengers and other people within the area of operation. This section of the manual provides information on safe operation of the vehicle. Make sure to read, understand and comply with all of this information to decrease the risk of personal injury or death.



WARNING

Failure to operate this vehicle as instructed can cause collision, loss of control or rollover resulting in severe injury or death. Follow all safety warnings in this manual. See the OPERATION section beginning on page 31 for operating procedures and additional safety information.

- Read this entire manual and all product labels carefully. Follow the safety information and operating procedures described.
- Operate the vehicle responsibly to prevent dangerous conditions for all occupants and people in the area of operation.
- Seatbelts (if equipped) should be worn by all occupants at all times. Always make sure seat belts are secured for operator and all passengers before operating. SEAT BELTS (IF EQUIPPED) on page 33.
- Do not drive with passengers until you have a minimum of two hours driving experience on this vehicle.
- Keep feet, legs, hands, and arms inside the vehicle at all times.
- The driver must keep both hands on the steering wheel and feet on the floor or pedals.
- Inspect the vehicle before each use to make sure it is in safe operating condition. Perform the DAILY INSPECTION on page 32.
- A damaged vehicle or a vehicle that is not functioning properly is dangerous and must not be operated until repairs are made.
- Always have the vehicle checked by an authorized dealer if it is involved in an accident.
- Remove the key from the vehicle when it is not in use to prevent accidental starting or unauthorized use by unqualified drivers.
- Do not drive on excessively steep hills. Drive slowly and deliberately. Use the brake to limit speed and maintain control. Sudden braking or turning can cause loss of vehicle control. Drive straight down hills; do not drive across hills.
- Operate only in approved areas. Follow all applicable safety rules for the area.
- Before driving in reverse, make sure the area behind the vehicle is clear. Accelerate slowly and avoid making sharp turns.
- Make sure the direction selector is in the correct position before pressing the accelerator pedal.
- Decrease speed before and during turns.
- Decrease speed when driving on wet or slippery surfaces.
- Bring the vehicle to a complete stop before moving the direction selector.
- Do not exceed cargo or vehicle weight capacities. Do not exceed occupant capacity. See VEHICLE SPECIFICATIONS on page 61 for the vehicle load and seat capacity.
- If there is a risk of lightning, leave the vehicle and look for a safe location to wait until the lightning has stopped.



Additional information about safety is included throughout this manual or can be obtained from your dealer.

Before Operating

Perform the DAILY INSPECTION on page 32 before each use to ensure the vehicle is in safe operating condition. Failure to inspect and confirm that the vehicle is safe to operate increases the risk of an accident.

Load Operation

The weight of cargo and occupants affects vehicle operation. Carefully calculate how the vehicle is loaded and how to safely operate it. Follow the instructions in this manual for loading guidelines and tire pressure.

Do not exceed vehicle weight capacities specified on page 15. As passenger weight increases, cargo weight needs to be adjusted to ensure the maximum weight capacity is not exceeded.

Tire pressure must be adjusted to accommodate the load being carried. See Tire Pressure on page 15 for specifications.

Drive slowly and carefully to maintain control of the vehicle if driving under any of the following conditions:

- passenger and/or cargo exceeds half the maximum weight capacity
- driving over obstacles
- towing
- climbing a hill

Reverse Operation

Make sure the area behind the vehicle is clear before operating in reverse. When clear and safe to operate in reverse, accelerate slowly and avoid making sharp turns.

Refer to DRIVING IN REVERSE on page 37 for operational information.

Damaged Vehicle

Driving a damaged vehicle is not safe. If the vehicle has been involved in any type of accident, have it inspected by a qualified service dealer to verify that it is safe for operation.

Maximum Speed

Maximum speed operation increases the risk of loss of control.

- Always drive at a speed that is appropriate for the terrain, visibility, operating conditions, and your skill and experience level.
- Use the brake to limit speed and maintain control of the vehicle.

Different Surfaces

Driving the vehicle on different surface types can affect handling characteristics of the vehicle. When driving on a dirt road, loose surface, or wet grass, the distance required to stop the vehicles will increase.

Public Roads

Driving this vehicle on public streets, roads or highways could result in a collision with another vehicle. Never drive this vehicle on any public street, road, or highway, including dirt and gravel roads, unless they are designated for off road use. Most areas prohibit the operation of this vehicle on public streets, roads or highways, and can result in traffic violations and fines.

Turning

Improper or careless turning can cause loss of traction, loss of control, accident, or rollover.

- Do not turn quickly or at sharp angles.
- Do not turn at high speeds.
- Practice turning at slow speeds before attempting to turn at faster speeds.

Uphill Operation

Do not drive up hills that are too steep for the vehicle or your driving abilities. Loss of vehicle control can result from driving up hills incorrectly.

Refer to DRIVING UPHILL on page 36 operational information.

Stalling on a Hill

A rollover can result from stalling or rolling backward while climbing a hill. Drive uphill at a constant speed. See procedure on page 37 for maintaining control of your vehicle if it stalls on a hill.

Downhill Operation

Use the brake to limit speed and maintain control. Loss of vehicle control or rollover can result from driving downhill incorrectly.

Refer to DRIVING DOWNHILL on page 37 for operational information.

Tires

Operating the vehicle with incorrect tires or incorrect/uneven tire pressure can cause loss of control or an accident. Always use the size and type of tires specified for the vehicle.

See VEHICLE SPECIFICATIONS on page 61 for tire type and size.

Always maintain correct and even tire pressure as specified. See Tire Pressure on page 15.

Slippery Terrain

Driving on rough, wet, or loose terrain increases the risk of loss of traction or control and accident or rollover. Drive slowly and use correct turning procedures when operating on slippery surfaces.

Refer to SLIPPERY SURFACES on page 36 for operational information.

FUEL HANDLING GUIDELINES

Gasoline is flammable and can be explosive in some conditions. Use the following guidelines when handling fuel:

- Always use caution when handling gasoline.
- Refuel in a well-ventilated area.
- Turn off the engine before refueling.
- Use an approved gasoline container to store fuel.
- Remove portable gasoline containers from the vehicle and place on the ground before filling to prevent ignition caused by electrical static discharge.
- Do not smoke or allow open flames or sparks in or near the area where refueling is done or where gasoline is stored.
- Do not overfill the tank. Do not fill the tank neck.
- If any gasoline contacts skin, immediately wash with soap and water. If any gasoline gets on clothing, change immediately.

For refueling procedure, refer to FUEL on page 20.

CARBON MONOXIDE EXPOSURE

Carbon monoxide is an odorless gas that is formed as a natural part of the combustion of hydrocarbon fuels.

Carbon monoxide is poisonous, and can cause loss of consciousness or death in a short period of time. Never start the engine or allow it to run in an enclosed area.

If you experience any of the following symptoms, stop the engine and get fresh air immediately:

- dizziness
- intense headache
- weakness and sleepiness
- vomiting
- muscular twitching
- throbbing in temples

Operate this vehicle outdoors or in well-ventilated areas only.

HOT EXHAUST SYSTEMS

Exhaust system components are very hot during and after use. To avoid burn injuries, do not touch hot exhaust system components. Hot components can also cause a fire. Keep combustible materials away from the exhaust system. Check for buildup around the exhaust system after driving through high and dry grass.

VEHICLE LIFTING

- The vehicle must be on a firm and level surface.
- Be constantly aware that the vehicle is not stable during the lifting process.
- Make sure the vehicle is stable on jack stands before getting underneath.
- Never get under a vehicle while it is on a jack only.
- Put wheel chocks in front of and behind the wheels that are not being lifted.
- Do not allow anyone on the vehicle when it's being lifted or on jack stands.

Refer to LIFTING THE VEHICLE on page 44 for procedures and additional safety information.

VEHICLE MODIFICATION

WARNING Removing components from the vehicle can change the designed handling characteristics and present a significant safety risk.

- Do not install accessories not approved by the manufacturer.
- Do not modify the vehicle to increase speed or power.

Any modifications or installation of accessories not approved by the manufacturer can create a safety hazard and increase the risk of injury.

The warranty will be terminated if the vehicle is modified to increase vehicle speed or power.

The warranty may be terminated if original (or equivalent) replacement parts are not installed on the vehicle.

If the vehicle has been modified in any way, familiarize yourself with the function and effect on the handling characteristics of the vehicle.

MAINTENANCE SAFETY

Routine and scheduled maintenance is necessary to keep the vehicle in safe and reliable condition. This section provides safety information for performing maintenance. Read, understand and comply with all of this information to decrease the risk of personal injury or death.

WARNING Serious injury or death can occur if you do not follow the instructions and procedures provided.

- Read this entire manual and all product labels carefully. Follow the procedures and comply with the safety information in this manual while performing vehicle service or maintenance.
- Use the tools shown in the tool list and wear the specified safety equipment when performing vehicle service or maintenance.
- Remove all jewelry before servicing the vehicle.
- Do not allow loose clothing or hair to contact the moving parts.
- Do not touch hot objects.
- The drive wheels must be lifted and the vehicle supported on jack stands before performing any service to the powertrain while the engine is in operation.
- Use wheel chocks and support the vehicle on jack stands. NEVER get under a vehicle that is supported by a jack. Lift the vehicle following the instructions. See LIFTING THE VEHICLE on page 30.
- When servicing the vehicle, always wear eye protection. Be careful when working around batteries, using solvents, or compressed air.
- Use insulated tools within the battery area to prevent sparks or battery explosion.
- To prevent the risk of battery explosion, keep all flammable materials, open flames or sparks away from the battery.
- Hydrogen gas is produced as a battery is charged. Charge the battery only in well-ventilated areas.
- Maintain constant awareness that some components are heavy, spring loaded, corrosive, explosive, can cause high amperage, or get extremely hot. Battery acid and hydrogen gas can cause bodily injury. Keep your hands, face, feet, and body away from any area that can expose them to injury in the event that an unexpected situation occurs.
- After making repairs or performing maintenance, test the vehicle in a safe area that is free from vehicle and person traffic.



SAFETY LABELS

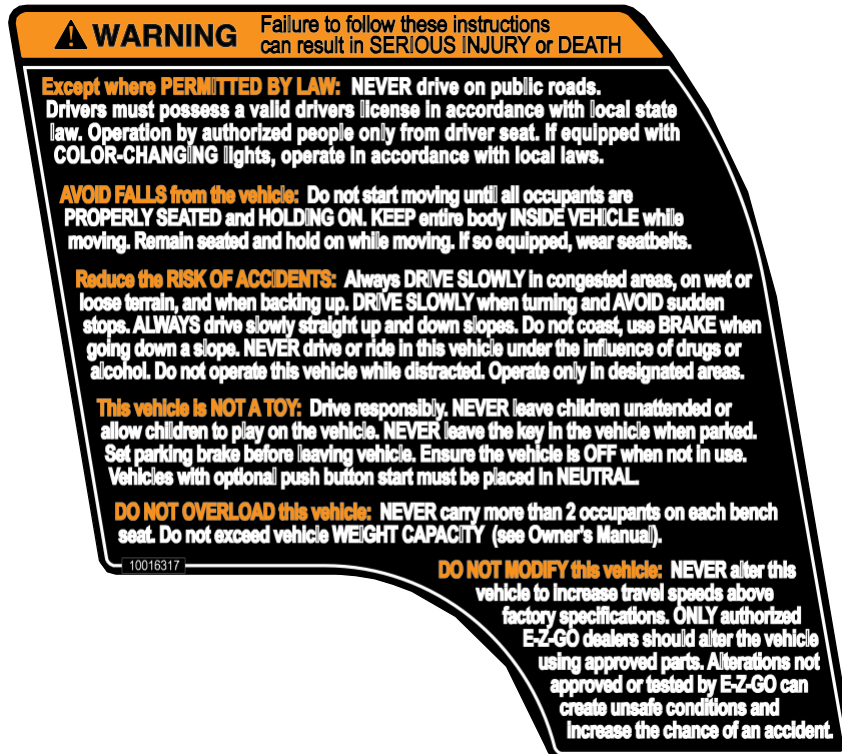
Safety and warning labels are on the vehicle for your protection. Read carefully and comply with all instructions on the labels. If any label shown in this manual is different from the label on your vehicle, always follow the instructions on the vehicle label.

If a label comes *off* or becomes illegible, contact your dealer for a replacement. Label part numbers are provided here, printed on the label, or can be obtained from your dealer.

OPERATION

Located on the dash panel.

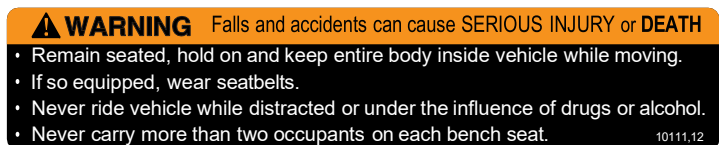
P/N 10016317



REAR OCCUPANT SAFETY

Located on the rear-facing seat handrail.

P/N 10171512



PATENT NOTICE

Located inside the driver's side dash storage compartment.

P/N 10005569

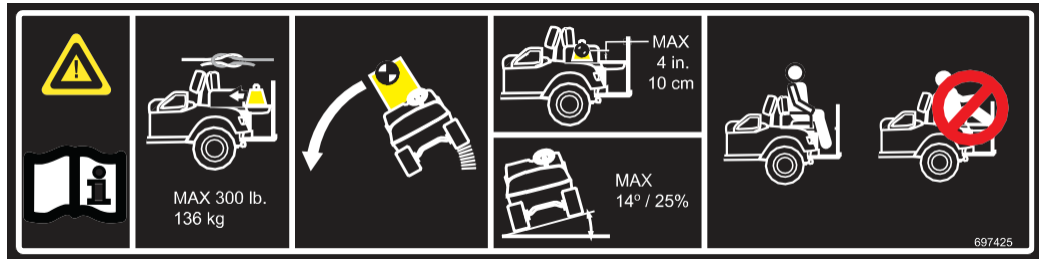


SAFETY LABELS

FLIP SEAT / LOAD DECK WARNING

Located on the rear-facing seat.

P/N 697425



NEGATIVE GROUND LABEL-CE

Located on the seat frame.

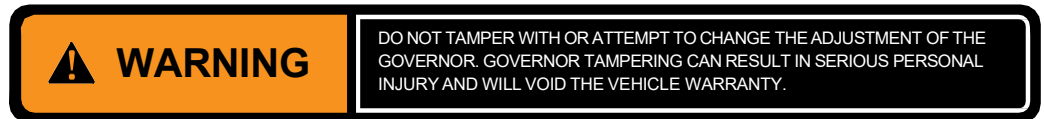
P/N 28203G01



GOVERNOR WARNING

Located on the governor bracket.

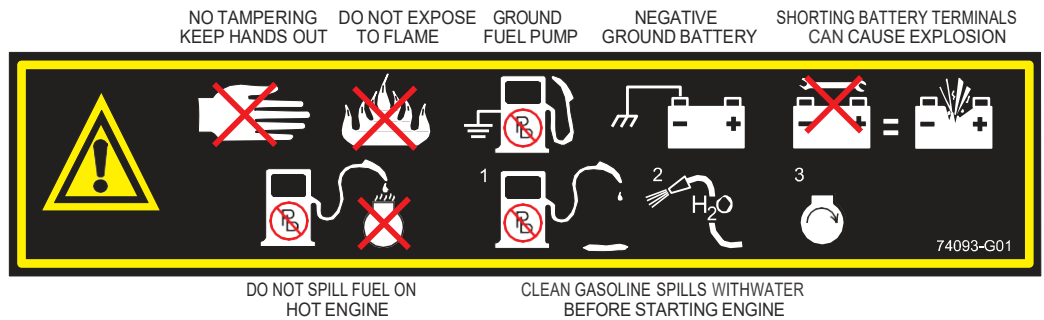
P/N 608527



ENGINE WARNING

Located under the front seat.

P/N 74093G01



PINCH WARNING

Located on the rear-facing seat.

P/N 651671



HOT SURFACE

Located on the engine.

P/N 75696G01



EMISSIONS CONTROL LABEL

Located on the engine.

P/N 10170668

EMISSION CONTROL INFORMATION	
THIS ENGINE MEETS U.S. EPA EXH/EV PREQS FOR C::J MODEL YEAR.	
EXH FAMILY: a=====a	DISPLACEMENT: 401 cm ³
EVAP FAMILY:  — — — — 	EMISSION COMPLIANCE PERIOD: 1000 HOURS
EMISSION CONTROL SYSTEM: ECM TBI HO2S TWC	
TEXTRON	
DATE OF MANUFACTURE: C::J	
.isPECIALIZED VEHICLES	10170668

REFLECTORS**Front (x2) - Yellow**

P/N 10104941

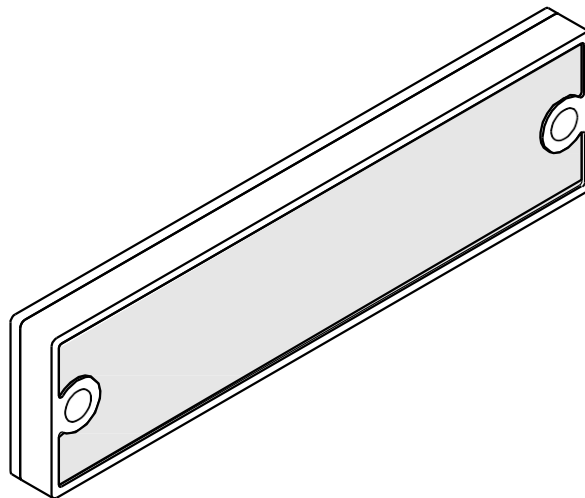
Located on each side of the front cowl.

Rear (x4) - Red

P/N 10104944

Located on:

- each side of the rear-facing seat
- the rear seat foot rest.





FEATURES AND CONTROLS

- Items not designated as "IF EQUIPPED" are standard features and controls on base model vehicles.
- Items designated as "IF EQUIPPED" are features and controls on vehicles with one of the premium packages.

NOTICE

Additional 12V accessories must be connected to the DC to DC converter.

KEY SWITCH

NOTICE

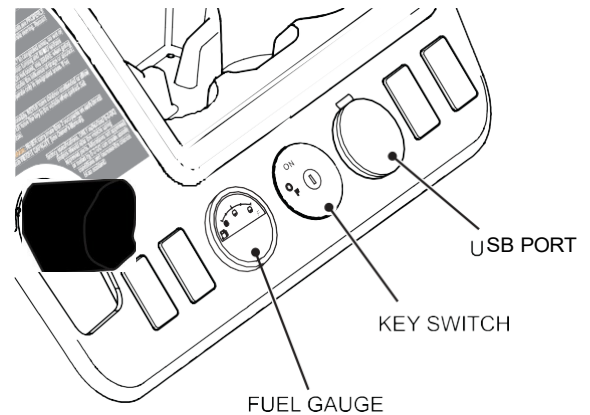
Some accessories continue to operate with the key switch in the OFF position. Leaving these accessories activated after the vehicle is shut down can cause battery discharge.

The key switch is a two-position switch.

- OFF; vehicle is disabled.
- ON; activates vehicle electronics and accessory power.

FUEL GAUGE WITH LOW OIL PRESSURE INDICATOR

The fuel gauge indicates the amount of gasoline in the fuel tank. F indicates a full tank and E indicates an empty fuel tank. The fuel gauge has a low oil pressure indicator. A low engine oil pressure condition is shown with a red indicator light.



USB PORT

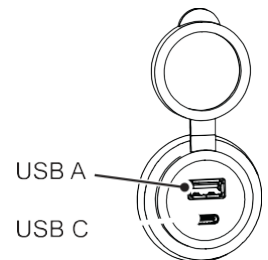
NOTICE

Excessive use of accessories that are connected to the USB port can cause battery discharge.

The USB port supports both Type-A and Type-C charging cables. Both ports are operational when the vehicle is powered on.

USB Port - Screen Interface (If Equipped)

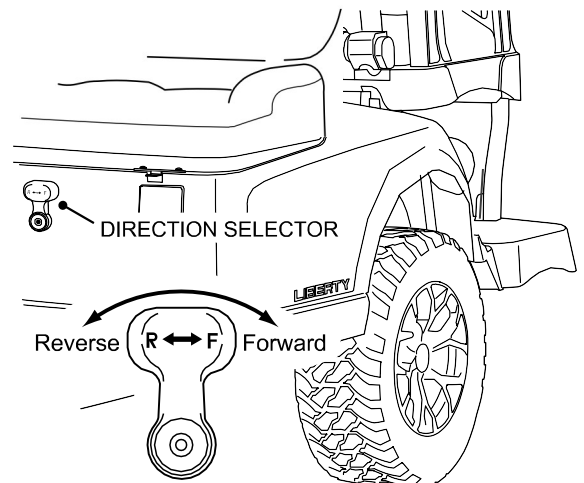
Some models are equipped with optional USB ports that allow Type-A devices to connect and interface with the display screen.



DIRECTION SELECTOR

The direction selector is on the seat panel and allows the operator to select F (forward) or R (reverse) to control the direction of travel.

The direction selector has a reverse warning buzzer that activates when in the R position.



WIRELESS CHARGER (IF EQUIPPED)



Do not attempt to use a phone that is on the wireless charger while the vehicle is in motion.

The wireless charging pad allows users to power up devices anytime the vehicle is on.

STEERING WHEEL

The steering wheel allows the driver to control the direction of travel.

CUP HOLDERS

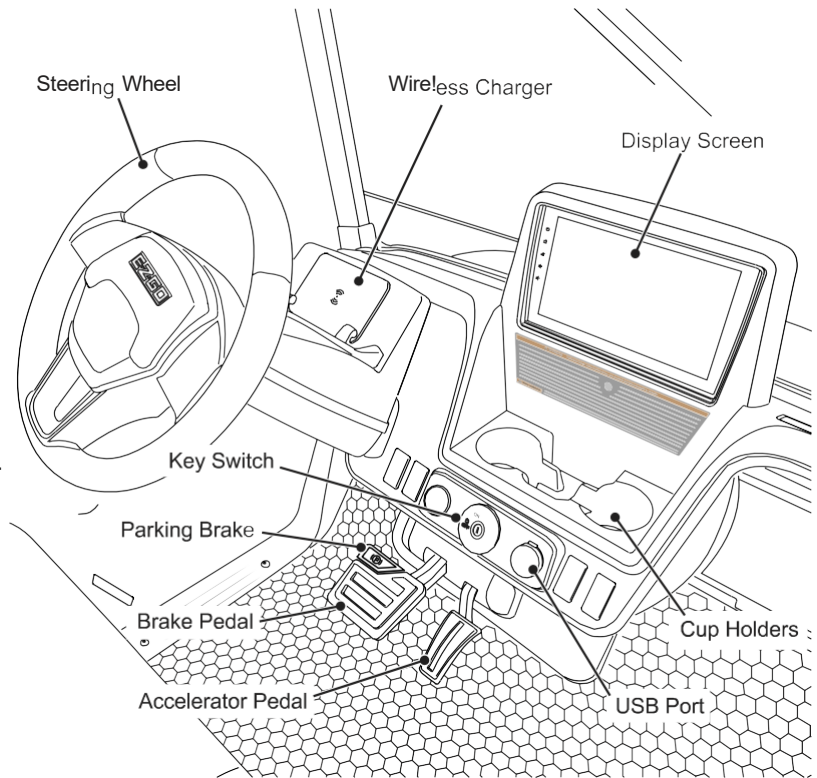
The vehicle has a center cup holder integrated in the dash that will accommodate two or four beverage containers.

There are also cup holders for rear passengers.

DISPLAY SCREEN (IF EQUIPPED)

The integrated touchscreen centralizes speed, music, and diagnostics with PIN-code access for security.

Refer to the display screen User Guide for in-depth capabilities and operation.



ACCELERATOR PEDAL



Accidental movement of the accelerator pedal can cause the vehicle to suddenly move and cause severe injury or death.

The accelerator pedal is the right pedal on the floorboard. It activates the engine and controls acceleration of the vehicle. Pressure applied to the accelerator pedal increases vehicle speed.

BRAKE / PARKING BRAKE PEDAL

The combination brake and parking brake pedal is located on the left side of the floorboard.

The brake pedal controls the vehicle's braking function. Press the pedal to slow the vehicle or bring it to a complete stop.

The foot-operated parking brake is integrated into the upper-left corner of the brake pedal. To engage the parking brake, press the parking brake section of the pedal until it locks into place. This prevents unintended vehicle movement while parked.

The parking brake can be released in two ways:

- **Recommended method:** Quickly press and release the lower brake pedal.
- **Automatic release feature:** If the key switch is in the ON position, pressing the accelerator pedal will automatically release the parking brake.

The automatic release feature is designed to help prevent driving with the parking brake engaged. However, releasing the parking brake by pressing the accelerator pedal is not recommended, as it can cause the vehicle to move unexpectedly if the system is powered on.

PREMIUM SWITCH

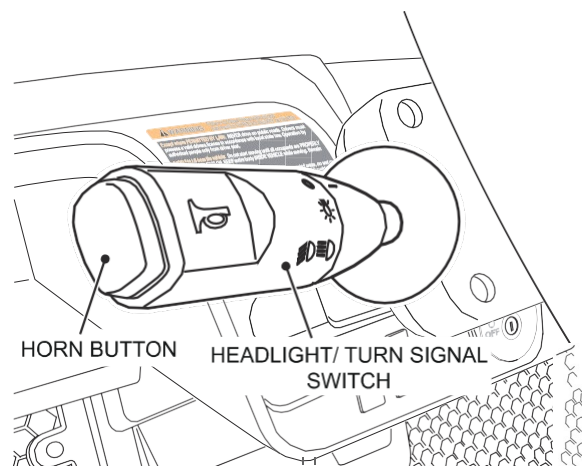
The premium switch is mounted to the steering column. The switch includes a rotating light switch, horn button, and self canceling turn signal.

Horn

The button on the end of the switch activates the horn.

Turn Signal

- When stalk is pushed up, the right turn signal is activated.
- When stalk is pushed down, the left turn signal is activated.
- Self cancellation occurs when the turn is complete. To manually cancel the turn signal, push again in the same direction.



Lights

- If equipped with accent lights, they are activated when the stalk is rotated forward one position.
- The headlights are activated when the stalk is rotated to the second position.
- The high beams are activated when the switch is pulled towards the driver.
- The low beams are activated when the switch is pulled towards the driver again.
- The lights are off with the stalk rotated to the O position.

LED HEADLIGHTS AND TAILLIGHTS

The vehicle has integrated LED headlights and taillights for optimal visibility in low-light conditions.

Optional customizable headlights have multiple accent modes for complete customization. See CUSTOMIZABLE RGB LED LIGHTS (IF EQUIPPED) on page 14 for safety information.

SEAT BELTS (IF EQUIPPED)

The vehicle may be equipped with 3-point lap and shoulder seat belts for all seating positions. Seat belts must be worn by all occupants at all times. See SEAT BELTS (IF EQUIPPED) on page 33 for operation and safety information.

PREMIUM SEATS (IF EQUIPPED)

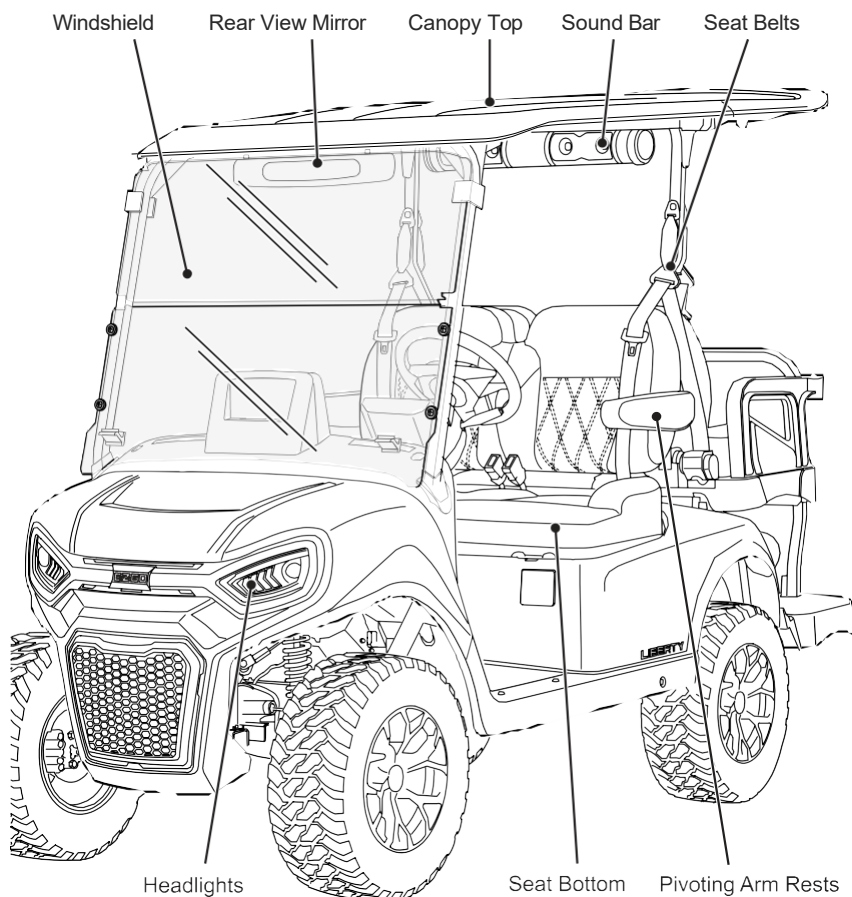
Vehicles may be equipped with premium seating with pivoting arm rests. Pivot the arm rests to the upright position to enter and exit the vehicle. The arm rests must remain in the lowered position when the vehicle is in operation.

SEAT BOTTOM

The bench seats are designed for two occupants each.

To access components underneath, raise arm-rest to the upright position, and use the strap in the center of the seat to pivot the seat bottom forward. To remove the seat from the vehicle, pivot and lift it up to disengage the seat latches.

The rear-facing seat can be converted to a flat load deck by lifting and rotating rearward. See STORAGE on page 28.



CANOPY TOP AND WINDSHIELD

⚠ WARNING *The canopy top does not provide protection from rollover or falling objects.*
The windshield does not provide protection from tree branches or moving objects.

⚠ CAUTION *To prevent damage to the vehicle, do not hold on to the canopy top struts.*

The canopy top and windshield provide some protection from the elements, but do not keep the operator and passengers dry in heavy rain.

The canopy top is not designed to provide rollover protection. In addition, the canopy top does not protect against falling objects, nor does the windshield protect against flying objects and tree limbs.

REARVIEW MIRROR

The rearview mirror is mounted on the front OPS cross tube and is adjustable for optimum visibility to surroundings during operation.

Adjust mirror before each use for clear rear and side views. Be sure to check blind spots before merging or operating in reverse.

⚠ WARNING *Displayed images may be closer or further than they appear. Always check around and behind the vehicle when parking or backing. Failure to use properly may result in injury, death or damage to vehicle.*

SOUND BAR (IF EQUIPPED)

The premium sound bar is weatherproof and delivers high-quality sound.

BACKUP CAMERA (IF EQUIPPED)

The backup camera can be used for reversing and parking. It automatically activates when the direction selector is shifted into the R position and displays on the IntelliScreen™.

⚠ WARNING *Displayed images may be closer or further than they appear. The camera does not display people, objects or vehicles outside the camera field of view. Always check around and behind the vehicle when parking or backing. Failure to use properly may result in injury, death or damage to vehicle.*

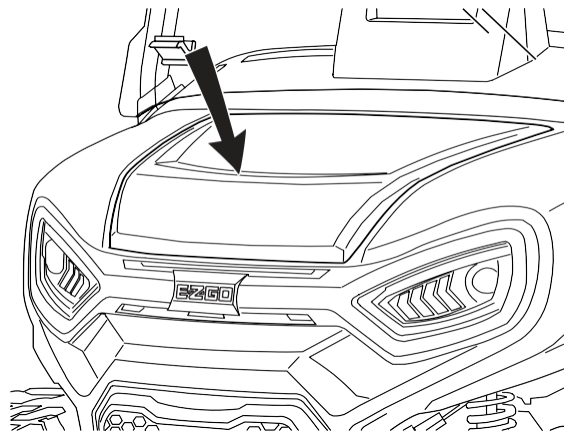
STORAGE

Front Cowl Storage

The front cowl storage compartment can be accessed by pressing down and releasing quickly on the hood (area indicated). Close by pressing down firmly at the indicated area to latch the hood in place.

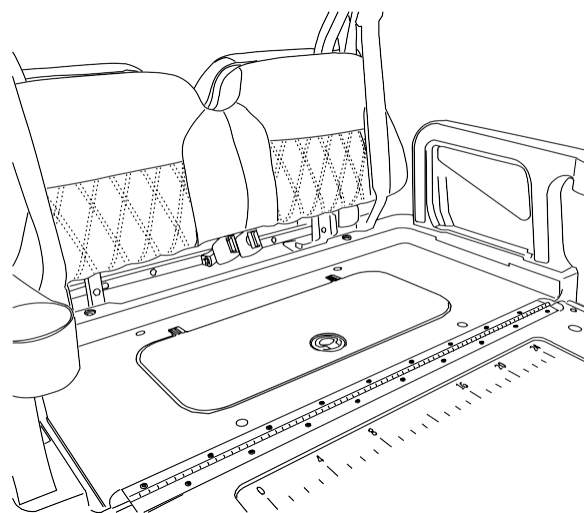
Glove Boxes

The lockable glove boxes on each side of the dash provides storage space for small items.



Load Deck Storage

The Liberty 4 is equipped with a lidded storage compartment under the rear-facing seat. Pivot the seat to the load deck position for accessibility.



REAR-FACING SEAT AND LOAD DECK

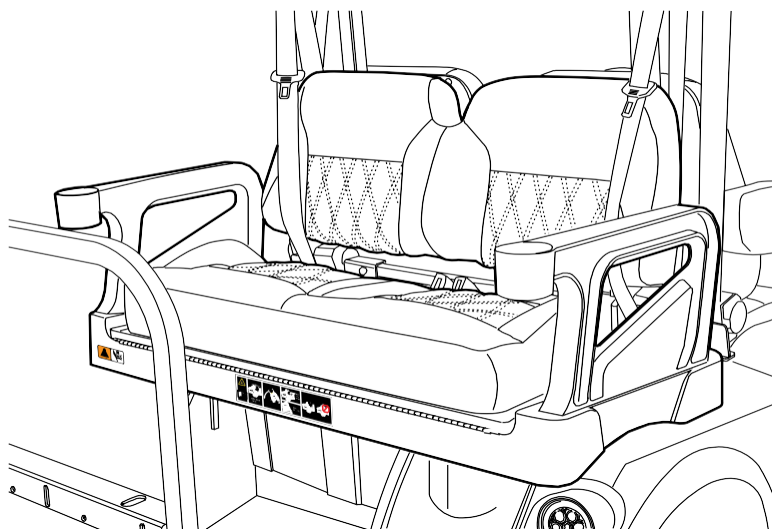
WARNING *Do not allow passengers to ride on the load deck. Severe injury or death could result if the vehicle is involved in an accident or if the vehicle makes a sudden change in direction.*

To prevent the risk of tipping the vehicle, occupants must fill the forward facing seat prior to filling the rear facing seat.

The rear facing seat will accommodate two passengers, one on each side of the seat. Passengers must remain seated while the vehicle is in motion. Hand holds are provided, one on each side of the seat and one mounted to the footrest in the center.

Fold the seat bottom towards the rear of the vehicle to convert to the load deck. When using the load deck, always:

- Place the load as far forward as possible.
- Secure the load on the load deck to prevent the load from moving.
- Make sure the center of gravity is less than 4 inches (10 cm) above the load deck.
- Do not exceed the load capacity of the load deck. The maximum capacity of the load deck is 300 lb (136 kg).



Load Deck Storage

The vehicle is equipped with a lidded storage area under the rear-facing seat (see page 29). Pivot the seat bottom rearward to the load deck position for accessibility.

FUEL TANK CAP

WARNING *Always make sure the fuel cap is reinstalled after filling the tank. Do not operate the vehicle without the fuel cap correctly installed and tightened.*

The fuel cap is located under the seat on the passenger side of the vehicle.

See FUEL on page 18 for fueling information.



OPERATION

NOTICE

Some accessories continue to operate when vehicle power is off. Leaving these accessories activated can cause battery discharge.

SAFETY

WARNING

Failure to operate the vehicle correctly can result in a collision, loss of control, accident or roll-over, and cause serious injury or death. Follow all operation procedures in this section of the manual. Read and comply with all safety warnings in the safety section of this owner's manual. This is a light-duty vehicle; it is NOT an All Terrain Vehicle (ATV).

BEFORE INITIAL USE

To prepare the new vehicle for operation, complete the following:

- Check for possible leaks that may have developed during shipment of the vehicle.
- Charge the battery.
- Fill the tank with the correct fuel.
- Perform the following pre-ride inspection.
- Burnish brake pads using the following procedure.

Burnishing Brakes

Brake pads must be burnished to achieve full braking effectiveness. Braking distance will be extended until the brake pads are properly burnished.

WARNING

Do not attempt sudden stops or put yourself in a situation where a sudden stop might be required until the brake pads are properly burnished.

This procedure must be performed on a level, paved surface in a safe area with little to no loose gravel or other hazardous environmental conditions.

Use the following procedure to properly burnish the brakes:

1. Drive forward at a minimum of 14 mph and quickly stop the vehicle. Do not lock the brakes or cause the vehicle to skid.
2. Check that the area behind the vehicle is clear and change the direction selector to R. Accelerate to a maximum speed of 6 mph and quickly stop the vehicle without locking the brakes.
3. Alternate between the forward and reverse procedure ten times to complete the procedure.

DAILY INSPECTION

To decrease the risk of an accident, inspect and verify that the vehicle is in safe operating condition before each use. Check the items in the table to help ensure safe and reliable operation.



Item	Remark	Page
Seat Belts (if equipped)	Check for proper operation. Inspect for damage, including cuts, wear, fraying or stiffness.	33
Brake System/Pedal Travel	Check for proper operation.	54
Parking Brake	Ensure vehicle does not roll when the parking brake is engaged.	
Front Suspension	Inspect. Lubricate if necessary. Check for loose or missing hardware.	
Rear Suspension	Inspect. Lubricate if necessary. Check for loose or missing hardware.	
Steering	Check for smooth and free operation.	
Tires	Check condition and pressure.	46
Wheel Hardware	Check for loose or missing hardware.	
Frame Hardware	Check for loose or missing hardware.	
Fuel and engine oil	Check for correct levels.	35
Fluid Leakage	Inspect vehicle for leaks.	
Switches	Check operation.	
Reverse Warning Alarm	Check operation.	
Air filter	Inspect; clean or replace if necessary.	39
Headlights	Check operation.	48
Brake Light / Tail Lights	Check operation.	48

ENGINE RUN-IN

Correct operation of the engine during the run-in period is essential to the performance, reliability, and life of the engine.

The engine break-in period is:

- the first 25 operating hours of a new engine
- the first 25 operating hours of an engine that has been completely disassembled

During these run-in periods, operate the vehicle in the following manner:

- Avoid high engine speeds.
- Avoid long periods of idle time.
- Avoid long operating times at low engine speed.
- Avoid long operating times at the same engine speed.
- Avoid long operating times with a full load.
- Vary the engine speed during operation.
- Apply quick bursts of acceleration after the engine has warmed up.

ENGINE WARMUP

When the engine is cold, follow the engine run-in procedure for the first few minutes to allow the engine to warm up.

FUEL

Refer to FUEL HANDLING GUIDELINES on page 9 for more information regarding handling and storage of fuel.

WARNING

Refuel only in well-ventilated areas.

Do not add fuel near open flame or electrical items that can cause a spark.

@Wear eye protection to protect from splashed fuel and fuel vapors.



Never use cigarettes in or near the area where refueling is done or fuel is stored.

Inspect the fuel cap, tank, and other components for leaks or damage that can cause a hazardous condition.

Do not overfill the tank. Do not fill the tank neck.

Never operate the vehicle with the fuel tank cap removed.

NOTICE

Oxygenated or reformulated gasoline is mixed with alcohols or ethers. Excessive amounts of these blends can damage the fuel system or cause performance problems. If any performance problems occur, use gasoline with a lower percentage of alcohol or ether.

Use clean, regular grade unleaded fuel. An Ethanol blend of no more than 10% is acceptable.

1. Remove the fuel refill cap that is located under the forward facing seat.
2. Fill the tank with clean, automotive grade gasoline. See the following chart for requirements.

FUEL		NOTES
Grade requirement	Regular 87 octane	High altitude or heavy use/load applications can benefit from higher octane gasoline.
Ethanol content	10% maximum permissible	Exceeding the maximum permissible ethanol concentration can deteriorate the engine fuel system and starting performance.
Methanol content	Not permissible	The use of fuels containing methanol is not permissible.

3. Replace the cap when refueling is complete.

SEAT BELTS (IF EQUIPPED)

WARNING

All occupants must wear seat belts at all times. Always make sure the seat belts are secured for operator and all passengers before operating.

Riding in this vehicle without wearing a seat belt increases the risk of serious injury in the event of an accident or sudden stop.

Before each operation, inspect seat belts for proper operation and signs of damage including cuts, wear, fraying or stiffness.

Position the seat belt as low as possible across hips. If the belt is too high on the waist, the possibility of being injured in an accident increases.



WARNING

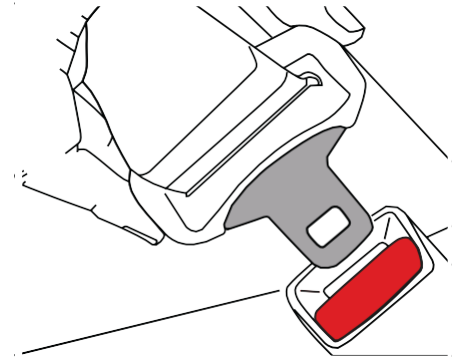
Do not allow children who need child safety seats or booster seats to ride in the vehicle. The vehicle is not designed to restrain automotive child safety seats.



OPERATION

Proper Use of the Seat Belt

1. Insert the metal tab into the locking buckle. There is an audible click when the tab locks into the buckle. Make sure the belt is properly locked and that the belt is not twisted.
2. With the belt positioned as low as possible across the hips, pull the loose end to a snug fit.
3. Press the red button to release.



STARTING AND STOPPING THE VEHICLE

WARNING *Unintentional roll-back of the vehicle could cause severe personal injury or vehicle damage. To reduce the possibility of vehicle roll-back, keep the brake fully pressed until the engine has started.*

WARNING Avoid full throttle starts and fast acceleration until the engine has warmed up.

Always start the engine outdoors or in a well-ventilated space.

1. Sit in the driver's seat.
2. If equipped with seat belts, secure across hips.
3. Press and hold the brake pedal.
4. Insert the key and turn the key switch to the ON position.
5. Move the direction selector to the appropriate position.



NOTICE When the direction selector is moved to the reverse position, a warning alarm will activate to indicate that the vehicle is ready to run in reverse.

6. Slowly press the accelerator pedal to start the engine.
7. When the accelerator pedal is released, the ignition circuit is de-energized and the engine stops. To stop the vehicle more quickly, press the brake pedal.
8. Engage the parking brake, turn the key switch to the OFF position, and remove the key from the switch before exiting the vehicle.

Starting on a Hill

WARNING *Unintentional roll-back of the vehicle could cause severe personal injury or vehicle damage. To reduce the possibility of vehicle roll-back, keep the brake fully pressed until the engine has started.*

Turn the key switch to the off position and remove it when exiting the vehicle to prevent accidental starting or unauthorized use.

CAUTION *To decrease the risk of permanent damage to the drive train, do not allow roll-back when starting the vehicle on a hill. Do not use the accelerator and engine to hold the vehicle at a stop on a hill.*

1. Press the brake pedal with your left foot and keep pressure on the pedal to prevent the vehicle from rolling back.
2. Press the accelerator pedal with your right foot as you release the brake pedal.
3. Press the accelerator pedal with gradual and steady pressure until the vehicle reaches the desired speed.

ACCELERATING

NOTICE

Practice acceleration and deceleration to become familiar with the vehicle's handling characteristics.

WARNING

Accidental movement of the accelerator pedal can cause the vehicle to suddenly move and cause severe injury or death.

Make sure the key switch is in the OFF position and the parking brake is engaged any time the vehicle is parked.

1. Move the key switch to the ON position and the direction selector to the desired direction.
2. Apply slow, steady pressure to the accelerator pedal to increase vehicle speed. The engine will stop running when the accelerator pedal is released.

BRAKING

NOTICE

Practice slowing and stopping using the brake to become familiar with the vehicle's handling characteristics.

WARNING

When carrying cargo or towing a trailer, the weight of the load will increase the braking distance required to slow or stop the vehicle. Not allowing for increased braking distance under load can cause an accident or injury.

1. Release the accelerator pedal completely.
2. Press the brake pedal to slow the vehicle speed or stop the vehicle completely.
3. Practice slowing and stopping using the brake to become familiar with the controls.

DRIVING PROCEDURE

1. Perform the pre-ride inspection. See page 32.
2. Sit in the driver's seat.
3. If equipped with seat belts, secure across hips.
4. Check surroundings and determine the path of travel.
5. Release the parking brake.
6. Insert the key and turn the key switch to the ON position.
7. Move the direction selector to the appropriate position.
8. With both hands on the steering wheel, release the brake and immediately start to apply gradual and steady pressure to the accelerator pedal.
9. Practice maneuvering the vehicle using the accelerator and brake pedals. Drive slowly and cautiously until you are comfortable with the controls.
10. Do not drive with a passenger until you have at least two hours of experience driving the vehicle.



Coasting

WARNING

Vehicle speed can increase quickly when driving downhill. Allowing the vehicle to coast downhill at high speeds can cause a loss of control and result in severe injury or death. Limit the vehicle speed by pressing the brake.

Do not allow the vehicle to coast at speeds that are above the maximum recommended speed. Apply constant brake pressure when descending a hill to control the speed of the vehicle.

OPERATION

DRIVING WITH PASSENGERS

- All passengers must fit the vehicle. Passengers must be able to:
 - sit with their back against the seat
 - adjust the seat belt to fit properly
 - have both feet flat on the floor
- If equipped with seat belts, make sure all passengers have seat belts secured across hips before the vehicle begins operation.
- Do not allow more than three passengers in the vehicle.
- Do not allow a passenger to ride anywhere on the vehicle except the passenger seats.
- Do not drive with a passenger until you have at least two hours of experience driving this vehicle.
- Travel at speeds appropriate for your skills, your passenger's skills and the operating conditions. Avoid unexpected or aggressive maneuvers that could cause discomfort or injury to a passenger.
- Since handling characteristics can change with the added weight of passenger(s), allow more time and distance for braking.



SLIPPERY SURFACES



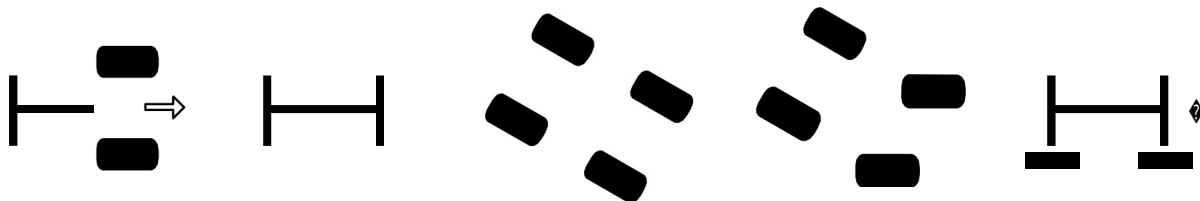
Skidding or sliding can cause loss of vehicle control.

Skidding or sliding can cause rollover if tires have lost traction, then regain traction suddenly.

When operating on slippery surfaces, drive at reduced speed to maintain control of the vehicle.

When operating in conditions such as ice, water, loose gravel, or freezing temperatures, follow these guidelines:

- Do not operate on excessively rough, slippery, or loose terrain.
- Slow down before entering potentially slippery areas.
- Maintain a high level of alertness.
- Carefully evaluate the path of travel and avoid quick, sharp turns.
- Correct a skid by turning the steering wheel in the direction of the skid. *Never apply the brakes during a skid.*



DRIVING UPHILL

When driving up a hill, follow these guidelines:

When driving up a hill, follow these guidelines:

- Drive straight up the hill.
- Avoid excessively steep hills.
- Keep both feet on the floor or a pedal.
- Check the terrain before driving up a hill. Do not try to climb hills that have excessively slippery or loose surfaces.
- Drive at a steady rate of acceleration and speed.
- Do not drive over the crest of a hill at high speeds. An obstacle, sharp drop, another person, or another vehicle could be on the other side of the hill.
- Do not attempt to drive up a hill that is beyond your skill level.

Stalling On A Hill

A rollover can result from stalling or rolling backward while climbing a hill. Drive uphill at a constant speed.

If the vehicle completely stalls while climbing a hill:

1. Apply the brakes.
2. Verify that the area behind the vehicle is clear.
3. Move the direction selector to the R (reverse) position.
4. Use steady brake pressure to control the speed, and allow the vehicle to slowly roll straight downhill.

If the vehicle begins to roll downhill:

1. Do not press the accelerator.
2. Apply the brakes gradually until the vehicle fully stops.
3. Verify that the area behind the vehicle is clear.
4. Move the direction selector to the R (reverse) position.
5. Use steady brake pressure to control the speed, and allow the vehicle to slowly roll straight downhill.

TRAVERSING HILLSIDES



WARNING *Traversing a hillside is not recommended. Improper procedure can cause a loss of control or a rollover. Avoid crossing the side of a hill unless absolutely necessary. If traversing a hillside is unavoidable, check the terrain and determine if it can be accomplished safely. Do not proceed if the terrain is beyond the vehicle or driver's ability.*

If traversing a hillside is unavoidable, follow these guidelines:

- Drive slowly.
- Use extreme caution.
- Avoid crossing the side of a hill that has a slippery surface.
- Avoid crossing the side of a steep hill.
- When traversing a hillside that has soft terrain, it may be necessary to steer slightly uphill to keep the vehicle traveling in a straight line.
- If you feel that you are losing control of the vehicle, steer downhill if possible to regain control.

DRIVING DOWNHILL



WARNING *When carrying cargo or towing a trailer, the weight of the load will increase the braking distance required to slow or stop the vehicle. Not allowing for increased braking distance under a load can cause an accident or injury.*

When driving down a hill, follow these guidelines:

- Avoid excessively steep hills.
- Check the terrain carefully before descending any hill.
- Never drive down hills with excessively slippery or loose surfaces.
- Drive slowly.
- Drive straight down the hill. Avoid descending the hill at an angle that could cause the vehicle to lean sharply to one side.
- Apply light and constant pressure to the brakes to maintain slow speed and control of the vehicle.

DRIVING IN REVERSE

When driving in reverse, follow these guidelines:

- Check that the area behind the vehicle is clear of obstacles and people.
- Check left and right fields of vision before driving in reverse.
- Do not back down a steep hill.
- Drive in reverse slowly.

OPERATION

- Press the brakes lightly for stopping.
- Accelerate slow and steady.
- Avoid turning at sharp angles.

PARKING THE VEHICLE

WARNING

When parking the vehicle inside a garage or structure, the space must be well ventilated. Park the vehicle away from any source of flame or sparks, including any appliance with a pilot light.

Park the vehicle on a flat surface if possible. If parking on an incline is unavoidable, be sure to chock the wheels to keep the vehicle from rolling.

1. Press the brake to stop the vehicle.
2. Engage the parking brake.
3. Turn the key switch to the OFF position.
4. Remove the key from the key switch to prevent unauthorized use.
5. If parking on an incline, chock the wheels on the downhill end.

BATTERY

NOTICE

Heavy use of accessories or leaving accessories turned on when the vehicle is not being used can drain the battery and leave insufficient reserve to start the vehicle.

The vehicle uses a starter/generator to start the engine and charge the battery. The engine does not idle; so the battery does not charge while the vehicle is stopped.

Factory accessories are disabled when the key is turned off, but some aftermarket accessories may continue to pull power even when the key is off. For absolute prevention of battery drain from accessories, make sure that both the key is in the OFF position and all accessories are turned off any time the vehicle is stopped.

The generator can supply up to 35 amps. Operation of all accessories can cause the discharge of the battery even if the engine is running and the generator is operating. Discharging the battery is known as deep cycling. The battery is not a deep cycle model. It is a starting battery. Multiple deep cycling causes early failure of the battery.

If the battery discharges, charge it with a 12-volt charger that is rated at 10 amps or less and according to the instructions supplied by the manufacturer of the charger.

HAULING CARGO ON THE LOAD DECK

⚠ WARNING *Hauling cargo incorrectly can alter vehicle handling characteristics and cause loss of control, brake instability, and possibly lead to serious injury or death.*

Never exceed the maximum weight capacity of the vehicle. The total load (operator, passenger, accessories, cargo and load on hitch) must never exceed the maximum weight capacity of the vehicle. See the chart in Maximum Weight Capacity on page 39.

Position the load as far forward, and as low as possible in the load deck.

Secure all loads before operating. Unsecured loads can shift and create unstable operating conditions.

Operating the vehicle with passengers on the load deck can result in severe injury or death. Never allow a passenger to ride on the load deck. Passengers must always ride seated in a passenger seat.

Drive slowly and carefully.

Operate only with stable and safely arranged loads. When handling loads that are impossible to center on the load deck, make sure the load is secured as tightly as possible and operate the vehicle with extra caution.

Reduce speed and allow greater distances for braking when hauling cargo.

Heavy loads affect braking and handling characteristics. Use extra caution when applying brakes with a heavily loaded vehicle. Avoid terrain or situations that may require reverse downhill travel.

Use extra caution when operating with loads that extend over the load deck sides. Stability and maneuverability can be affected and increase risk of rollover.

Never fill a gas container on the load deck. Static discharge can ignite gasoline vapor and cause an explosion.

When filling a gas container, always put the container on the ground before filling. Do not fill the container sitting on the load deck. Static electricity is built up during the fueling process and can discharge, causing the gasoline vapor to ignite.

This vehicle is designed to carry or tow specific capacities. Read and comply with the load distribution warnings on the warning label affixed to the load deck. The total load (operator, passenger, accessories, cargo and load on hitch) must never exceed the maximum weight capacity of the vehicle.

Maximum Weight Capacity

⚠ WARNING *Exceeding weight capacities can cause loss of vehicle control and possible injury or death.*

	LIBERTY 4
Maximum Vehicle Weight Capacity	800 lb (363 kg)
Maximum Load Deck Capacity	300 lb (136 kg)

- Do not exceed the maximum cargo load capacity.
- Do not exceed the maximum vehicle weight capacity (includes weight of operator, passenger, cargo and accessories).

Flip Seat/Load Deck Operation

NOTICE *To prevent damage to the rear seat, remove any accessories that are installed on the hand rail before you pivot the seat bottom/load deck.*

Pivot the seat bottom toward the rear of vehicle to access the load deck. When using the load deck, follow the rules below:

- Place the load on the load deck as far forward as possible.
- Secure the load on the load deck to prevent movement.
- The center of gravity of the load must be less than 4 inches (10 cm) above the load deck.
- Do not exceed the load capacity of the load deck. The maximum capacity of the load deck is 300 lb (136 kg).



VEHICLE MAINTENANCE

MAINTENANCE SAFETY



WARNING

To prevent serious injury or death, follow the procedures and comply with the safety information in this manual while performing vehicle service or maintenance.

Use the tools shown in the tool list and wear the specified safety equipment when performing vehicle service or maintenance.

Remove all jewelry before you service the vehicle.

Do not allow loose clothing or hair to contact the moving parts.

Do not touch hot objects.

The drive wheels must be lifted and supported on jack stands before performing any service to the powertrain while the motor is in operation.

Chock the wheels and support the vehicle with jack stands. NEVER get under a vehicle that is supported by a jack alone. Lift the vehicle according to the manufacturers instructions.



When servicing the vehicle, always wear eye protection. Be careful when working around batteries, using solvents, or compressed air.

Use insulated tools within the battery area to prevent sparks or battery explosion.

Maintain constant awareness that some components are heavy, spring loaded, corrosive, explosive, can cause high amperage, or get extremely hot. Battery acid and hydrogen gas can cause bodily injury. Keep hands, face, feet and body away from any area that can expose them to injury if an unexpected situation occurs.

After performing maintenance, test the vehicle in a safe area that is free from vehicle and person traffic.

NOTICE

To decrease the risk of engine damage, do not operate the vehicle at full throttle for more than 5 seconds if the drive wheels are lifted off the ground.

SCHEDULED MAINTENANCE

Consistent inspection, adjustment, and lubrication of some components are necessary to maintain the vehicle so that it remains in safe and reliable condition. Refer to the SCHEDULED MAINTENANCE CHART on page 42 for detailed requirements.

Inspect, clean, lubricate, adjust, and replace parts as necessary. Use manufacturer or equivalent replacement parts.

Record the maintenance items performed along with details in the MAINTENANCE LOG beginning on page 65.

NOTICE

Service and adjustments are important for safe and reliable vehicle operation. If not familiar with safe service and adjustment procedures, have a certified dealer perform the operation.

Initial Service Requirements

Perform the additional inspection or maintenance at the initial service interval indicated, in addition to regular intervals. See SCHEDULED MAINTENANCE CHART on page 42. The initial service is required for optimum performance and reliability.

- engine oil and filter
- starter/generator belt

Severe Use Conditions

Vehicles subjected to heavy or severe use must be inspected and serviced more frequently than those of normal use patterns. The following conditions are considered severe use:

- frequent or prolonged use in a dusty environment
- frequent use in mud, water or sand
- prolonged low speed operation
- short trips in cold weather
- prolonged heavy load operation

SCHEDULED MAINTENANCE CHART

Perform all services at the maintenance interval reached first.

S -Indicates operations that need to be performed on vehicles subjected to severe use.

E -Indicates emission-related services (Failure to do this maintenance will not void the emissions warranty but may affect emissions).

D -Indicates services that must be performed by an authorized dealer.

Item	Interval (perform at interval that comes first)		Remarks	Page
	Hours	Calendar		
Steering	Pre-ride		Check for smooth and free operation.	
Front suspension	Pre-ride		Inspect. Check for leaks and loose or missing hardware.	
Rear suspension	Pre-ride		Inspect. Check for leaks and loose or missing hardware.	
Tires	Pre-ride		Check condition and pressure.	46
Wheel lug nuts	Pre-ride		Check for loose or missing.	47
Accelerator	Pre-ride		Check for smooth operation.	
Brake system	Pre-ride		Check for proper operation.	54
Frame hardware	Pre-ride		Check for loose or missing.	
Fuel and engine oil level	Pre-ride		Check for correct level.	44
Air filter	Pre-ride		Inspect. Clean as needed.	52
Headlights and taillights	Pre-ride		Check operation. Replace bulbs as needed.	48
Reverse warning alarm	Pre-ride		Check operation.	
Switches	Pre-ride		Check operation.	
Fluid leakages	Pre-ride		Inspect entire vehicle for leaks	
CVT belt	Pre-ride		Check condition.	
Engine oil and filter	Initial Service		Replace oil and filter at first 50 hours of operation.	49
Starter/generator belt	Initial Service		Check between first 15 and 20 hours.	
Wheels	Weekly		Check condition of rims, missing or loose lug nuts.	47
S E Air filter	Weekly		Inspect. Clean as needed.	52
S Cooling fan	Weekly		Check for build-up of dirt inside blower housing and fins; clean as necessary.	
S Engine oil	Weekly		Check level; add as necessary.	49
Starter/generator belt	Weekly		Check condition.	
S Brake pads	10	Monthly	Inspect. Replace as needed.	
Parking brake	20	Monthly	Conduct brake performance test; adjust as necessary	
Controller	20	Monthly	Check operation of controller braking force.	
Wiring	20	Monthly	Inspect for loose connections, broken or missing insulation.	
Direction selector	20	Monthly	Inspect attachment and mechanism; adjust as necessary.	
Steering	20	Monthly	Check for excess play, loose or missing hardware.	
S Tie rods	20	Monthly	Check for excess play, bent rods, loose or missing hardware.	
Engine	20	Monthly	Check for unusual noise, vibration, acceleration, oil leaks.	
Rear axle	20	Monthly	Check for leakage; add oil as required.	
Throttle/governor linkage	50	3 Months	Check operation and governed speed.	
E Fuel system	50	3 Months	Check for leakage at tank, cap, lines, filters, pump, fuel rail.	

Item		Interval (perform at interval that comes first)		Remarks	Page
		Hours	Calendar		
	Parking brake	50	3 Months	Inspect linkage rods, latch arm, catch bracket. Lubricate with light oil (Do not lubricate cables or brake latch).	
S	Engine electrical system	50	3 Months	Check coil/spark plug wires for cracks or loose connections.	
S	Rear suspension	50	3 Months	Inspect shocks for leaks, worn bushings, loose or missing hardware.	
S	Front suspension	50	3 Months	Inspect strut for leaks. Check hubs and kingpins, for excessive play, worn bushings, loose or missing hardware.	
	Front wheel alignment	50	3 Months	Inspect for unusual tire wear; align if necessary.	
S	Battery	125	6 Months	Inspect terminals. Clean as needed.	56
	King pins	125	6 Months	Check for excessive play and tightness of retaining nuts.	
	Rear axle	125	6 Months	Check for unusual noise, loose or missing hardware.	
S E	Air filter	125	6 Months	Inspect; clean as necessary.	
	CVT belt	125	6 Months	Inspect for cracks, fraying and excessive wear.	
	Direction selector	125	6 Months	Check for wear and smooth movement; lubricate shaft with light oil if necessary.	
	Steering	125	6 Months	Inspect bellows and pinion seal for damage and leakage.	
	Rack end ball joint	125	6 Months	Check for noise and loose or missing hardware.	
S	Air Filter	250	Yearly	Replace.	
S	Oil filter	250	Yearly	Replace (with oil change).	
S	Engine oil	250	Yearly	Replace. See RECOMMENDED LUBRICANTS AND FLUIDS on page 44 for type and capacity.	44
S	Rear axle	250-300	Yearly	Check fluid level; add if required.	
S	Front wheel bearings	250-300	Yearly	Check and adjust as necessary.	
S	Brakes	250-300	Yearly	Clean and adjust. Check brake shoe linings; replace if necessary.	
S	Muffler/exhaust system	250-300	Yearly	Check hardware. Inspect for leaks at head and muffler gaskets.	
	Valves - intake/exhaust	250-300	Yearly	Check cold.	
S E	Spark plug	250	Yearly	Replace and gap new.	53
	Cylinder head and piston	500	5 years	Remove carbon.	
	Cylinder head and piston	500	5 years	Check valve seats for carbon buildup; clean if necessary.	
	Rear axle	500	5 years	Replace fluid.	

RECOMMENDED LUBRICANTS AND FLUIDS

Check and lubricate all components at the intervals shown in the SCHEDULED MAINTENANCE CHART beginning on page 42.

Item	Capacity	Lubricants/Fluids		Notes
Engine oil	1.3 qt. (1.25 L)	10W-30	Light duty use engines	See page 49.
		10W-30	Heavy duty use in air temperatures below 40° F (4° C)	
		10W-40	Heavy duty use in air temperatures above 40° F (4° C) after 100 hour break-in period	
Fuel	6.0 gal. (22.7 L)	Unleaded; 87 octane min 10% ethanol content max.		See page 33.
Rear axle oil	51 oz. (1.5 L)	MOBIL 424		
Rear axle friction modifier	2 oz. (60 ml)			

REPLACEMENT OF MAINTENANCE ITEMS

These items or their equivalents can be purchased through an authorized dealer, directly from your dealer or any other qualified source.

Item	Part Number
Oil Filter	607454
Air Filter	28463801
Spark Plug (NGK BPR2ES)	607462
Starter/Generator Belt	2641481
Clutch Belt	618630
15A Fuse	636455813
10A Fuse	636455812
Fuel Pump Relay	663593
LED Headlight Assembly	651411803
Turn Signal Bulb	619102
LED Taillight	10014910
5A	636455810
20A	636455814
Accessory Relay	603282

LIFTING THE VEHICLE

⚠ WARNING *Read and comply with all of the following warnings and lifting procedures to prevent the possibility of the vehicle falling and causing serious injury or death.*

For some maintenance procedures, it is necessary to lift the vehicle. Comply with the following warnings and follow the lifting procedure to ensure the safety of you, your vehicle and surroundings.

⚠ WARNING *The vehicle must be on a firm and level surface for lifting.*

Remain constantly aware that the vehicle is not stable during the lifting process.

Place the jack and jack stands only in the areas indicated in the following illustration.

Do not get under a vehicle until it's stability on the jack stands is verified; never get under a vehicle while it is on a jack alone.

Put wheel chocks in front and behind all wheels that are not being lifted.



Do not allow anyone to remain or get on the vehicle at any time during the lifting process or when the vehicle is lifted.

When performing any service to the drive train, lift the drive wheels off the ground.

Tools

- jack
- jack stands (4)
- wheel chocks

Lifting Front

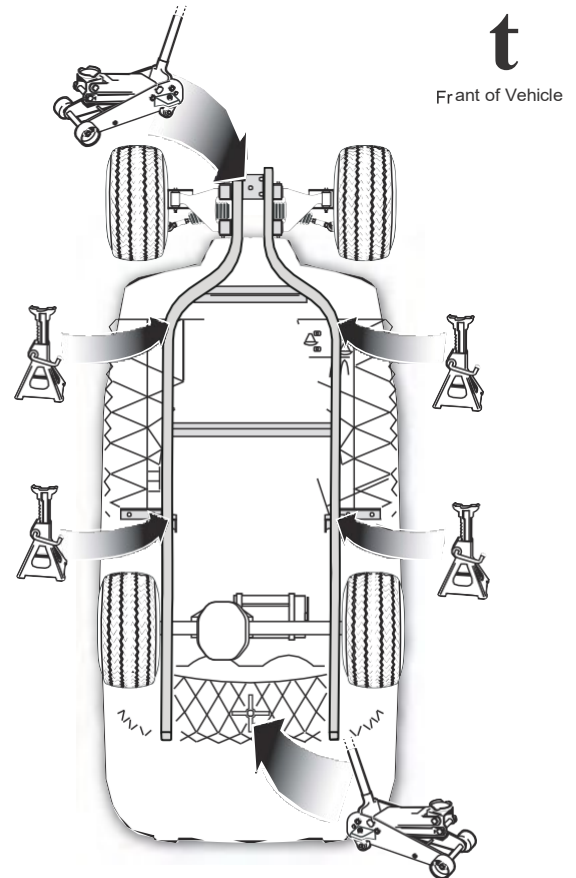
1. Chock the rear wheels to keep the vehicle from rolling backward.
2. Put a jack under the center of the front axle.
3. Raise the vehicle with the jack.
4. Install jack stands under the front frame cross member as shown.
5. Lower the vehicle until it rests on the jack stands.
6. Remove the jack.
7. Confirm that the vehicle is stable on the jack stands before proceeding with any service.

Lifting Rear

1. Chock the front wheels to keep the vehicle from rolling forward.
2. Put a jack under the center of the rear frame cross member.
3. Raise the vehicle with the jack.
4. Install jack stands under each end of the rear axle.
5. Lower the vehicle until it rests on the jack stands.
6. Remove the jack.
7. Confirm that the vehicle is stable on the jack stands before proceeding with any service.

Lowering Vehicle

1. Make sure chocks are still in place on any wheels that remain on the ground.
2. Put the jack in the same location that was used to raise the vehicle.
3. Raise the vehicle enough to remove the jack stands. Remove the jack stands from underneath the vehicle.
4. Slowly lower the vehicle to the ground and remove the jack.



VEHICLE CLEANING AND CARE

Keeping your vehicle clean is not only beneficial to its appearance but can also help extend the life of various components.

Washing the Vehicle

NOTICE

Do not use a pressure washer to wash the vehicle. High water pressure can damage components.

Some products, including insect repellents and chemicals, will damage plastic surfaces. Do not allow these types of products to contact the vehicle.

- Do not use a pressure washer to clean the vehicle.
- Use an automotive type cleaner or mild soap to wash the vehicle. Harsh cleaners can scratch the finish.
- Use clean or new cloths and pads for washing. Reused cloths and pads can contain dirt particles that will scratch the finish.
- Use a sponge or soft brush and a soap/water solution to clean the vinyl seats. Rinse with clean water.
- Use an automotive type wash cloth to wash the body of the vehicle. To prevent the soap from drying on the vehicle, rinse with clean water frequently.
- Clean the windshield with water and a clean cloth. Remove small scratches with a plastic polish.

VEHICLE MAINTENANCE

- Clean the bottom of the vehicle where mud or dirt can collect. Loosen any packed sediment to help with removal. Be careful not to damage the paint.
- Dry the vehicle with a chamois before the water dries to prevent water spots.

Polishing the Vehicle

- Do not use medium to heavy duty compounds on the finish. Use wax that is for clear coat automotive finishes only. Do not apply wax or polish to matte finish surfaces.
- Use clean or new cloths and pads for polishing. Old or reused cloths and pads can contain dirt particles that will scratch the finish.

TIRES

Follow the tire maintenance procedures as instructed in this manual and on the labels on the vehicle.

Always use the approved size and type of replacement tires. See Vehicle Specifications for the proper tire type and size.

WARNING *Worn, improperly inflated, improper sized, or incorrectly installed tires will affect vehicle handling and could cause an accident resulting in severe injury or death.*

Inflate all tires to the same pressure. Operating with unequal or incorrect pressure can adversely affect steering and handling and could cause an accident resulting in severe injury or death.

To decrease the risk of tire explosion, do not exceed the tire inflation rating on the tire sidewall. Make sure the tires are properly inflated at all times of operation. See Tire Pressure on page 46

To decrease the risk of tire explosion, inflate small amounts of air into the tire at intervals to allow the bead to seat properly. Because of the low volume of the small tires, over inflation can occur in seconds. Never exceed the tire inflation pressure rating on the tire sidewall when seating a bead. Protect your face and eyes when you remove a valve core.

When you remove the wheels, use only sockets made for impact wrenches to decrease the risk of injury by a broken socket.

Do not use tires with a low rated pressure. Do not use tires that have a recommended tire inflation pressure less than the tire inflation pressure recommended in the owner's manual.

Do not over inflate the tires. Excess pressure can cause the tire to separate from the wheel or cause a tire explosion.

Tire Pressure

Maintaining correct tire inflation pressure is essential for safe vehicle operation. You can vary the inflation pressure, within the recommended range to suit the condition of the terrain.

TIRE PRESSURE RANGE	TERRAIN CONDITIONS	RECOMMENDATION
18 - 22 psi (124 - 152 kpa)	hard surfaces or pavement	Inflate to higher pressure within the range; never exceed maximum pressure indicated.
	soft terrain or turf	Inflate to lower pressure within the range to reduce potential damage to the terrain or turf.

Tire Repair

Tools

- lug wrench, 3/4"
- impact socket, 3/4"
- impact wrench
- torque wrench, ft.lbs.

NOTICE

Tire plug tools and plugs are available at automotive outlets. The tire does not have to be removed from the wheel to install the tire plug.

Use a tire plug to repair small holes in the tread part of the tire. For large holes or holes/cuts in the tire sidewall, the tire must be replaced.

1. Remove the wheel from the vehicle. See Wheel Removal on page 47
2. Locate the leak in the tire.
 - a. If the tire is very low or flat, fully inflate the tire.
 - b. Brush soapy water over the surface of the tire. Air bubbles will be visible where the air is leaking from the tire.
 - c. Mark the hole with chalk.
3. Install the plug according to the manufacturer's instructions.
4. Install the wheel on the vehicle. See Wheel Installation on page 47
5. Fully inflate the tire. See Tire Pressure on page 46

Tire Replacement

Tire replacement requires a tire mounting machine, and must be done by a qualified tire center or an authorized dealer.

WHEELS

WARNING Worn, improperly inflated, improper sized, or incorrectly installed tires will affect vehicle handling and could cause an accident resulting in severe injury or death.

WARNING The wheel spacers and wheel bolts provided must not be modified in any manner. Assemble per instructions. Confirm adapters or spacers are sitting flush after assembly and properly torque wheel bolts and lugs. Not properly torquing or inspecting could result in vibration, wheel loss, serious injury, or death.

CAUTION To decrease the risk of component damage, do not tighten the lug nuts to more than the torque specified below.

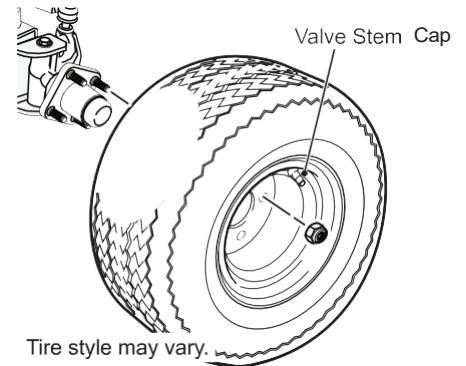
Check the lug nuts for tightness at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 42.

Wheel Removal

Tools

- lug wrench, 3/4"
- impact socket, 3/4"
- impact wrench
- torque wrench, ft.lbs.

1. Lift the vehicle. See LIFTING THE VEHICLE on page 44
2. Remove the lug nuts.
3. Remove the tire from the vehicle.



Wheel Installation

Lug Nut Torque	SO - 85 ft.lbs. (68- 115 Nm)
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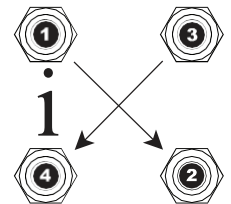
NOTICE

To decrease the risk of component damage, do not tighten the lug nuts to more than the specified torque.

Always install lug nuts using a cross sequence pattern to ensure the even seating of the wheel against the hub.

1. Install the wheel on the hub with lug nuts. Make sure the valve stem is to the outside.
2. Finger tighten the lug nuts.
3. Using the cross tightening pattern shown to the right, tighten the lug nuts to 50 - 85 ft.lbs. (68 - 115 Nm). Tighten in increments of 20 ft. lbs. (27 Nm).

Lug Nut Tightening Pattern



LIGHTS

Clean the lights frequently to maximize visibility.

 **WARNING**

Do not operate vehicle at night or in low light if any lights are not properly and fully functioning. Poor lighting reduces visibility that could cause an accident resulting in severe injury or death.

Headlights

The headlights are completely sealed units integrated into the vehicle's design. In the unlikely event that a single component fails, the entire headlight housing must be replaced. Contact your dealer for assistance.

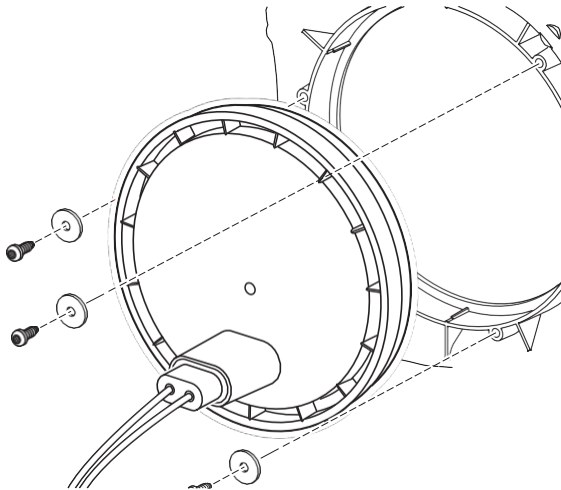
Tail Light/Brake Light Replacement

NOTICE

Removing the rear wheel from the vehicle will allow easy access to the hardware that secures the tail light lens in the bezel, but is not required. Refer to Wheel Removal on page 47 for procedure.

1. Disconnect the tail light harness from the lens.
2. Remove the three screws from the back of the lens that secures it to the bezel.
3. Press the lens out of the bezel by pushing on the back of the assembly.
4. With the connector oriented at the bottom, press the new tail light assembly into the bezel
5. Re-install the hardware and tighten to:

I Lens Hardware	4 - 6 in.lbs (0.45 - 0.68 Nm)
-----------------	-------------------------------
6. Connect the harness to the lens.



FUSE REPLACEMENT

The fuse block is under the driver seat.

NOTICE

Have the vehicle inspected by an authorized dealer if fuses continue to blow after they have been replaced.

1. Lift the seat bottom to access the fuses.
2. Remove the old fuse and replace with a new fuse of the same type and size.
3. Fuses are available from a local Distributor, an authorized Branch, or the Service Parts Department.

6	REV BUZZ(15A)	5	5	OPT ACC	3	2(86)	1(30)
						FUEL PUMP RELAY	
12	ENG MAIN(15A)	11	10	OPT ACC	9	8(87)	7(85)
18(86)		17(30)		USB(5A)		12V/HORN(20A)	
	ACCESSORY RELAY		16		15	14	13
24(87)		23(85)	22	TURN SIG(15A)	21	BRAKE SW(15A)	19

FOUR CYCLE ENGINE

The engine is an air cooled, 4-stroke, OHV, single cylinder gasoline engine. It has a pressure fed lubrication positive displacement oil pump with a cartridge type full flow oil filter and a counter rotating balance shaft.

NOTICE

The engine uses more oil during the first hours of operation, than after the internal parts are run-in. As the run-in process occurs, oil use will gradually decrease until it stabilize.

Engine Specifications

Engine Model.....	EFIA-1
Type.....	Four cycle, OHV
Number of Cylinders.....	1
Displacement.....	401 cc
Rated Horsepower.....	13.5 hp
Spark Plug Type.....	NGK BPR2ES
Spark Plug Gap.....	.028" - .031" (.70 - .80 mm)
Cooling.....	Forced Air Cooled
Oil Filter.....	Cartridge Type Full Flow Filter
Oil Pump.....	Positive Displacement Pump

CHECK THE OIL LEVEL

Check the engine oil at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 42.

Tools

- funnel
- clean lint-free cloth

WARNING *Wear protective gloves to prevent scalding from hot engine oil.*

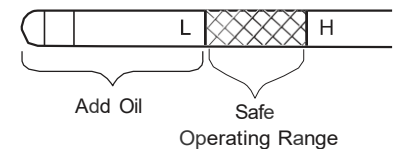
Check the engine oil level when the engine is warm and the vehicle parked on level surface.

1. Turn key switch to the OFF position and engage the parking brake.
2. Allow oil to drain into crankcase.
3. Wipe the top of the engine clean with a cloth to remove debris that could fall in the engine.
4. Remove the dipstick and wipe off the entire length with a clean lint-free cloth.
5. To get an accurate level reading, wipe oil from the dipstick and insert back into the opening.
6. Remove the dipstick again and check the level. The oil level must be in the area between Land H (in the crosshatch) on the dipstick.
7. The engine can be operated safely as long as oil is within the safe operating range as indicated on the dipstick.

NOTICE

The lack of oil or low oil level can damage the engine. Do not operate vehicle if oil level is below the safe area indicated on the dipstick.

8. If the oil level is below the L line, add engine oil into the dipstick hole until the level is between Land H.

**NOTICE**

Excessive oil can damage the engine. Oil expands as it gets hot, so do not overfill.

9. If the oil level is above the H line, pump out the excessive oil with a siphon pump.
10. Replace the dipstick.

NOTICE

The oil dipstick/fill cap must be in place before operating the engine. Failure to install the dipstick/fill cap will result in oil contamination or oil being discharged into the engine compartment.

See **RECOMMENDED LUBRICANTS AND FLUIDS** on page 44 for oil capacity and grade. The use of an incorrect grade of engine oil can damage the engine. Always use the recommended grade. Do not mix engine oils of different grades or viscosity.

Do not overfill. Excessive oil can damage the engine. Add oil in small quantities with repeated level checks.

11. When the level is correct, replace the dipstick.

CHANGE THE ENGINE OIL

Change the engine oil at the initial service and then intervals indicated in the SCHEDULED MAINTENANCE CHART on page 42.

Tools

- ratchet
- socket, 19 mm
- Extension, 8"
- universal strap wrench
- funnel
- drain pan

NOTICE

See **RECOMMENDED LUBRICANTS AND FLUIDS** on page 44 for oil capacity and grade. The use of an incorrect grade of engine oil can damage the engine. Always use the recommended grade. Do not mix engine oils of different grades or viscosity.

Do not overfill the oil tank. Excessive oil can damage the engine. Add oil in small quantities with repeated level checks.

If vehicle is to be stored over winter months, it can be stored with old oil left in engine. The oil should be changed as part of spring maintenance to remove any moisture that has accumulated during storage.

Remove the Engine Oil

CAUTION

Wear protective gloves to prevent scalding from hot engine oil.

Change the engine oil when the engine is warm and the vehicle is parked on a level surface.

1. Turn the key to OFF and engage the parking brake.
2. Wipe the top of the engine clean with a cloth to remove debris that could fall in the engine.
3. Remove the oil fill cap.
4. Place a drain pan under the oil drain plug at the rear of the engine base.
5. Remove the drain plug and allow the oil to completely drain into the pan.



NOTICE

At the first oil change, small metal chips and lint may be found. This is normal, resulting from the break-in period. Inspect the filter at every oil change. The presence of large metal chips could indicate possible damage to the engine.

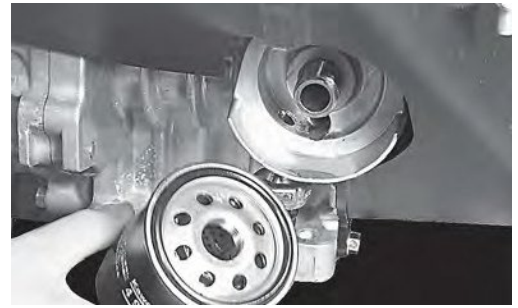
6. Before installing the drain plug, clean the area around the drain hole with a lint free cloth
7. Inspect the drain plug and o-ring for damage; replace if necessary.
8. Tighten the drain plug to 62 in. lbs. (7 Nm) torque.

Change the Oil Filter

1. Clean the area around filter.
2. Place a drain pan below the oil filter.
3. Remove the filter from the engine and allow the oil to drain.
4. If the filter o-ring remains on the engine surface, remove it and discard it along with the filter.



5. Inspect the new oil filter for any defects.
6. Apply engine oil to the oil filter a-ring.
7. Install the oil filter onto the engine until the a-ring contacts the mounting surface of the engine. Turn the filter 2/3 to 3/4 rotations by HAND(S).



Refill Oil

NOTICE

See **RECOMMENDED LUBRICANTS AND FLUIDS** on page 44 for oil capacity and grade. The use of an incorrect grade of engine oil can damage the engine. Always use the recommended grade. Do not mix engine oils of different grades or viscosity.

Engine oil must be high quality oil that meets or exceeds API SF, SG, CC standards.

Do not overfill. Excessive oil can damage the engine. Add oil in small quantities with repeated level checks.

1. To allow for possible residual oil left in the engine, add slightly less than the rated engine capacity (**RECOMMENDED LUBRICANTS AND FLUIDS** on page 44) into the fill hole.
2. Check the oil level on the dipstick. The oil should be slightly below the H level and within the crosshatch to allow for expansion.
3. Add oil in small quantities with repeated level checks to make sure you are not overfilling the engine.
4. When the level is correct, replace the dipstick.
5. As a final check, check the oil level again with the vehicle on level ground.

Oil increases in volume when warm. The H mark on the dipstick is calibrated for an engine at operating temperature. When the engine is cold, the oil will be below the full mark. The engine can be operated safely as long as the oil is within the safe operating range as indicated on the dipstick. Do not operate the vehicle if the oil level is below the safe area indicated on the dipstick.

STARTER/GENERATOR BELT

Check the starter/generator belt at the initial service and then intervals indicated in the **SCHEDULED MAINTENANCE CHART** on page 42.

Tools

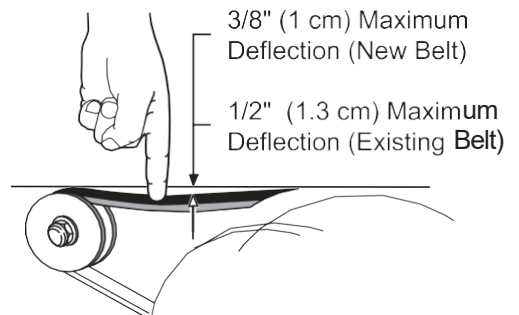
- Belt Tension Gauge
- Wrench, 3/4"
- Wrench, 9/16"
- Ratchet
- Socket, 3/4"

CAUTION *Never allow the tension to exceed 160 lbs. (73 kg) while installing the belt. At the time of installation, the belt must not be rolled over the installed edges of the starter/generator or drive clutch pulleys. Excessive stretch in the belt can cause cord failure.*

NOTICE

A loose belt can cause audible vibration and squeal.

1. New belt:
 - a. Tighten a new starter/generator belt to 25 - 30 lbs. (110 - 130 N) tension when a gauge is applied half way between the two pulleys.
 - b. A new belt may be checked manually. A maximum deflection of 3/8" (10 mm) is acceptable.
2. Existing belt:
 - a. Tighten an existing belt to 17 - 18 lbs. (75 - 80 N) tension using the same technique.
 - b. Inspect for cracks or wear. A maximum deflection of 1/2" (13 mm) is acceptable.



Adjusting the Belt

1. Loosen the starter/generator pivot bolt.
2. While holding the lower adjusting nut with a wrench, loosen the upper jam nut with another wrench. Move the lower nut up or down the adjustment bolt until the correct belt tension is achieved.
3. Hold the lower nut in place and tighten the upper jam nut against it.
4. Tighten the starter/generator pivot bolt.

AIR INTAKE AND COOLING FINS



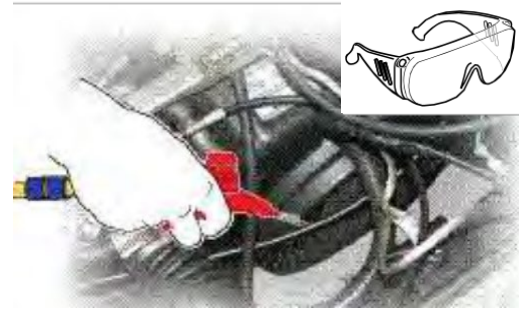
Keep the engine cooling components clean to reduce the risk of overheating and the possible ignition of accumulated debris.

Dirt and debris can clog the engine air cooling system. Allow the engine to cool and use the following guidelines after every off-road use:

- Check for a build up of dirt and debris in the air intake and cooling fins.
- Clean the areas shown to prevent engine damage.
- Make sure the linkages, springs and controls are clean.
- Make sure the area around the muffler is free of any combustible material.

Regular maintenance of the cooling system is required to ensure an adequate supply of air to the cooling fins. Compressed air can be used for routine cooling system maintenance.

Clean the cooling system at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 42.



REAR AXLE

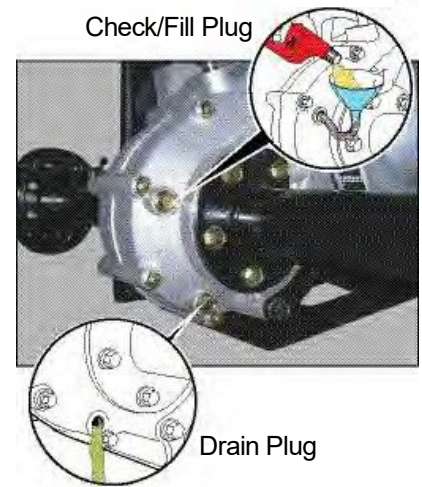
The rear axle has an oil level check/fill plug located on the driver side at the rear of the housing. Unless leakage of axle oil is evident, an annual check is sufficient.

Change the axle oil at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 42. The drain plug is located at the bottom of the rear axle housing.

Checking the Axle Oil Level

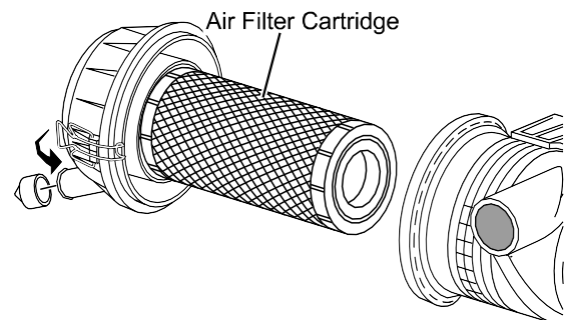
Tools

- Socket, 13 mm
 - Ratchet
 - Funnel
1. Clean the area around the check/fill plug.
 2. Remove the plug. The correct axle oil level is **just** below the bottom of the threaded hole.
 3. If axle oil is low, slowly add oil with a pump until it starts to seep from the check/fill hole. Install the plug.



AIR FILTER

Inspect and replace the air filter cartridge at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 42.



NOTICE

The filter is a dry filter. Do not apply oil.

1. Unlatch the cover to access the air filter cartridge.
2. Remove the filter from the housing.
3. Inspect the cartridge.
4. A lightly soiled filter can be cleaned by tapping out dust. Do not use compressed air on the filter. If the filter is heavily soiled, it must be replaced.

CAUTION Using compressed air to clean the filter cartridge will damage the filter which can cause engine damage.

5. Reinstall or replace the filter, making sure it is fully seated in the housing.
6. Replace the housing and secure with the latches on the air cleaner cover.

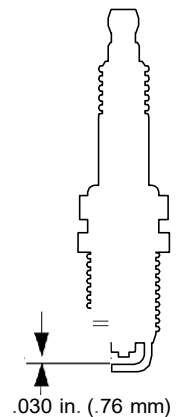
SPARK PLUG**Tools**

- spark plug socket, 13/16"
- torque wrench, ft. lbs
- ratchet
- feeler gauge
- anti-seize compound

CAUTION Do not over tighten the spark plug. Over tightening the plug can cause damage to the aluminum cylinder head threads.

1. Remove the spark plug when the engine is cold.
2. Inspect and replace the spark plug at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 42.

INSPECT	CONDITION OF SPARK PLUG	ACTION
Electrode	Sooty	Clean carefully with a wire brush.
	Worn or damaged	Replace spark plug.
Condition of plug	Fouled (indicated by a wet, black appearance) possibly caused by:	
	• dirty air filter element or other restrictions in the air intake system	Clean air system. Replace spark plug.
	• incorrectly adjusted valves	Adjust valves. Replace spark plug.
	spark plug wire in poor condition	Repair or replace wire. Replace spark plug.
	poor fuel quality	Change fuel. Replace spark plug.
Porcelain insulator	Visible cracks	Replace spark plug.
Gap	Correct gap (see illustration at right)	Reinstall spark plug.
	Incorrect gap (see illustration at right)	Adjust to correct measurement.



3. Apply a light coat of anti-seize compound to the spark plug threads.
4. Tighten to 16 ft. lbs. (22 Nm) torque.

MALFUNCTION INDICATOR LIGHT (MIL)

The EFI system uses Diagnostic Trouble Codes to report issues. Both active and stored faults are reported by the Engine Control Module (ECM).

- **Active Faults** - These are faults that have been triggered since the key switch was last turned to the ON position.
- **Stored Faults** - These are faults that are no longer active. These faults have not been triggered since the key switch was last turned to the ON position. They were active at one time but were stored when the key switch was turned to the OFF position sometime in the past.

These faults can be read from the MIL located on the rear of the vehicle's seat frame. The MIL can be viewed through the opening between the rear of the center console and the refresher unit. A series of flashes indicates each fault code. A description of how to read codes from the MIL is detailed below. More information about each fault can be obtained from a service technician with the proper equipment.

Follow the below procedure to read active and stored vehicle faults from the MIL:

1. Lock the vehicle's direction selector in Neutral.
2. View the MIL by lifting the front seat bottom.
3. Turn the key switch to the ON position.
4. Observe the sequence of flashes. Each code is separated by five seconds of solid illumination.
 - a. Single-digit fault codes display as a sequence of one-second flashes, with the number of flashes matching the code value (e.g. 8 flashes for MIL code 8).
 - b. Double-digit fault codes display as a combination of 0.3-second flashes for the tens place and 1-second flashes for the ones place.
 - c. Active faults are displayed first, then stored faults are displayed.
 - d. Active faults are displayed whether the engine is running or not. Stored faults only display when the engine is not running.

If there are no active or stored faults, the MIL will illuminate continuously (no flashes) to demonstrate functionality.

The ECM will enter sleep mode after 60 minutes of inactivity. If the key switch is in the ON position and the MIL is not illuminated, press and release the accelerator pedal to wake the system and reveal any active fault codes.

MIL Flash Code	Fault	Recovery Steps
	Temp Sensor Disconnected/ Failure	1. Check that the sensor is connected. 2. If connected, contact an authorized service rep.
2	Throttle Position Sensor Failure	1. Contact an authorized service rep.
4	O ₂ Sensor Disconnected / Failure	1. Check that the sensor is connected. 2. If connected, contact an authorized service rep.
5	High Battery Voltage	1. Verify battery voltage is between 10-16 VDC. 2. If voltage is over 16 VDC, contact an authorized service rep.
5	Low Battery Voltage	1. Verify battery voltage is between 10-16 VDC. 2. If the voltage is below 10 VDC, replace the battery. 3. If the fault persists, contact an authorized service rep.
SOLID	Safeties Active	1. Press and release the accelerator pedal. 2. If the fault is still present while the accelerator pedal is pressed, contact an authorized service rep.
8	Engine Running Rich/ Lean	1. Verify that the air filter is not clogged. 2. If the fault persists, contact an authorized service rep.
22	Limp Home	1. Contact an authorized service rep.

BRAKES



WARNING Always inspect the pedal travel before operating a vehicle to confirm some brake function is present.

All driving brake tests must be done in a safe location with regard for the safety of all personnel.

NOTICE

Over time, a subtle loss of performance may take place. It is, therefore, important to establish the standard with a new vehicle.

Test and service the brake system at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 42.

Periodic Brake Test

NOTICE

You must have enough space to accelerate to maximum speed before engaging the parking brake. Use a marker to indicate the predetermined line to engage the parking brake that you will use for the performance test.

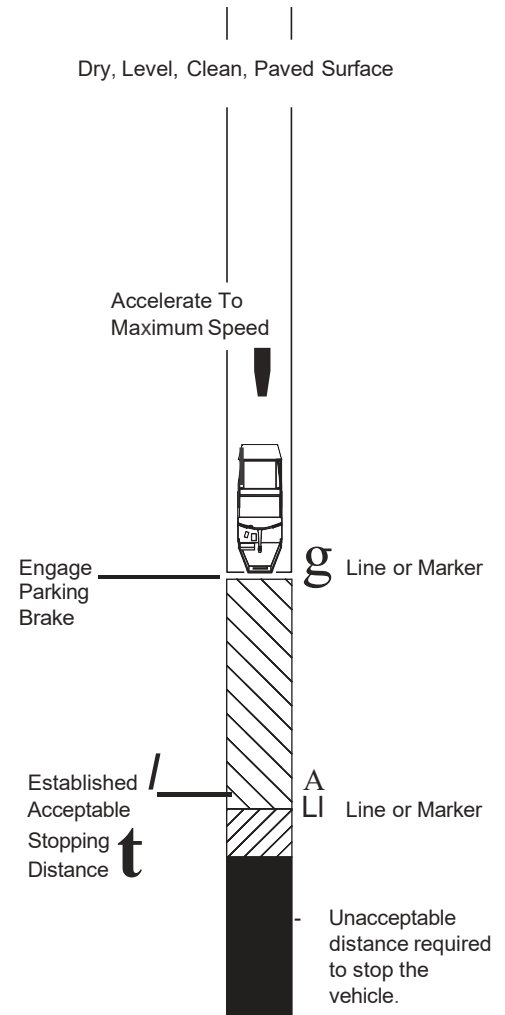
The Periodic Brake Test must be performed initially and regularly as an evaluation of your vehicle's brake system performance. It is a method of identifying a subtle loss of braking performance over time.

Establish the 'acceptable stopping distance' when your vehicle is new and the brakes are at their peak of performance. As your vehicle is used, a subtle loss of braking performance may be detected, so it is important to establish the standard with a new vehicle.

Actual stopping distances are influenced by weather conditions, terrain, road surface condition, vehicle weight and speed. No specific braking distance can be reliably specified, so it is important to establish a base to test with.

The test is conducted by engaging the park brake instead of the brake pedal to eliminate different pedal pressures, to include affects of linkage mis-adjustment and provide a more accurate test.

1. On a dry, level, clean, paved surface, accelerate the vehicle to maximum speed.
2. Engage the parking brake at the predetermined and marked line.
3. Mark the line where the vehicle comes to a complete stop.
4. If the vehicle stops in a significantly greater distance than the established distance in future tests, or pulls to one side, it should be tested again.
5. If the vehicle fails the second test, discontinue use until it can be inspected and determined safe for operation by a qualified mechanic.



BATTERY

The vehicle has a sealed battery, which requires no maintenance except to keep it corrosion-free, and to test for functionality.

The sealed battery is filled with electrolyte and sealed at the factory. Never pry the seal strip off, or add fluid to the battery.

Inspect the battery terminals at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 42. Clean and tighten as needed.

⚠ WARNING *Use insulated wrenches to prevent direct contact of a wrench with the battery terminals. Direct contact of a bare wrench with battery terminals can cause an explosion resulting in severe injury or death.*

To prevent the risk of battery explosion, keep all flammable materials, open flames or sparks away from the batteries.

⚠ CAUTION *The electrolyte in a battery is an acid solution which can cause burns to the skin and eyes. Completely clean all electrolyte spills that contact the body and eyes with clear water. Contact a physician immediately.*

Neutralize electrolyte spills with a solution of 2 teaspoons (10 ml) sodium bicarbonate (baking soda) mixed in 1 quart (1 liter) of water. Clean with water.

Battery Cleaning

⚠ CAUTION *To decrease the risk of damage to the vehicle or floor, neutralize any acid before you spray the battery with water.*

Always wear eye protection when cleaning the battery.

NOTICE

To decrease the risk of damage to the electrical components surrounding the battery while cleaning, do not use a pressure washer.

1. Remove corrosion with a wire brush.
2. Wash the top and sides of the battery with a solution of:
 - 1 tsp. (5 ml) baking soda
 - 1 cup (236 ml) water
3. Wash all metal components near the battery.
4. Rinse with tap water and dry with shop towels.
5. After the battery is clean and dry, coat with a commercially available battery terminal spray.

Battery Charging

⚠ WARNING *Hydrogen gas is produced as batteries are charged. Charge batteries only in well-ventilated areas.*

Do not overcharge the battery. Overcharging the battery can cause overheating and possible explosion, resulting in severe injury or death.

NOTICE

Use a battery charger that is designed for charging sealed batteries.

Keep battery fully charged.

Heavy use of accessories can drain the battery and leave insufficient charge to start the vehicle.

The sealed battery is a 12 V starter battery that supplies power to the starter and accessories. A starter starts the engine and an internal generator charges the battery while the engine is running. Due to heavy use of accessories, the battery can become discharged even if the engine is running and the generator is operating.

It is important to keep the battery fully charged. Since the battery is sealed, a voltmeter or multimeter is required to check voltage.

1. Check the battery voltage with a voltmeter or multimeter.
 - If the voltage measured is 12.8 V or higher, the battery is fully charged and requires no further action.
 - If the voltage measured is less than 12.8 V, recharge the battery.

2. Charge the battery with a charger designed for sealed batteries. Follow the instructions supplied from the manufacturer of the charger.

Discharged Battery

⚠ WARNING *To decrease the risk of severe injury or death from accidental movement, do not use jumper cables to start a vehicle.*

The vehicle has a starter/generator and does not idle. When you start the engine, the starter/generator functions as a starter and with the engine running, it functions as a generator.

The generator can keep the battery charged with short run times, but the generator **will** not charge a discharged battery.

When the engine starts, the clutches engage and cause the vehicle to move making jump starting both dangerous and impractical.

If the battery has discharged, charge it with a 12-volt charger that is rated at 10 amps or less and according to the instructions supplied by the manufacturer of the charger.

Battery Disposal

Return used batteries to the manufacturer or lead smelter for recycling purposes. For neutralized spills, put any residue in acid-resistant containers with absorbent material such as sand. Dispose in accordance with state and federal regulations for acid and lead compounds. Contact authorized environmental agencies for information about disposal.

Battery Storage

NOTICE A battery will self-discharge over time. The rate of discharge varies depending on the ambient temperature, age, and condition of the battery. Check the battery each month during storage and charge as needed to maintain a full charge.

A full charge will prevent the battery from freezing in winter conditions.

If the vehicle is going to be out of operation for three (3) months or longer, do the following:

1. Remove the battery from the vehicle.
2. Make sure the battery is fully charged.
3. Store it out of the sun, in a cool, dry place.
4. Check the battery voltage each month during storage and recharge as needed to maintain a full charge.

TRANSPORTING THE VEHICLE

⚠ WARNING *Do not ride or allow other people on a vehicle being transported on a trailer or being towed with another vehicle.*

Hauling the Vehicle

⚠ WARNING *Loose cargo or vehicle components can fly off when the vehicle is being transported. Secure or remove all cargo. Inspect the vehicle for loose components prior to transport.*

Do not allow anyone to ride in a vehicle being transported on a trailer.

Remove the canopy top and windshield before transporting a vehicle on a trailer.

- If the vehicle is being hauled on an open trailer or truck at highway speeds, the canopy top must be removed.
 - The rated capacity of the hauling trailer or truck must be more than the weight of the vehicle and load plus 1000 lbs. (454 kg). See VEHICLE SPECIFICATIONS starting on page 41 for the weight of the vehicle.
1. Drive the vehicle onto the trailer or truck.
 2. Engage the parking brake. Leave the direction selector in F (forward).
 3. Turn the key switch to the OFF position.
 4. To prevent the loss of the key, remove it from the key switch.
 5. Make sure the fuel cap is tight.
 6. Make sure the seats are secured.
 7. Secure the vehicle to the trailer or truck with tie downs, straps or ropes.

Towing the Vehicle

WARNING

Only tow the vehicle for recovery purposes. Ensure brakes and steering are operable.

Always have a person driving the vehicle to steer and operate brakes when it is being towed.

Do not tow the vehicle above 5 mph (8 kph).

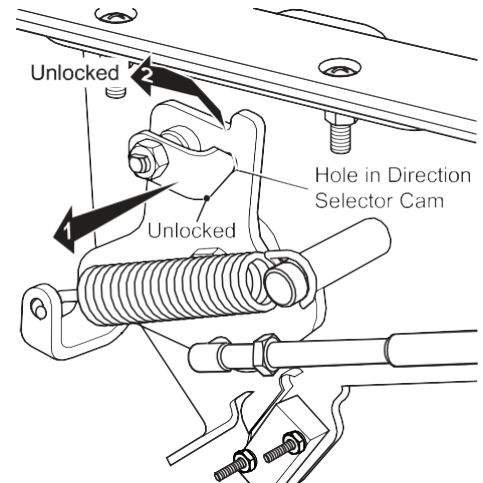
Failure to abide by these instructions could cause harm to vehicle and persons involved.

1. Turn the key switch to OFF.

NOTICE

The direction selector has a neutral lock to prevent the driven clutch from turning the rear wheels when the vehicle is being towed by another vehicle.

2. Lock the direction selector with the neutral lock to ensure the direction selector remains locked in the neutral position.
 - a. Lift the seat to access the neutral lock.
 - b. Pull out and rotate the neutral lock pin handle so that the pointed portion of the handle is to the side of the direction selector cam.
 - c. Move the direction selector toward the area between F and R. During that motion the pin will snap into the hole in the direction selector mounting bracket, preventing movement.
When in this position, the direction selector remains locked in the neutral position.
3. Attach the vehicle to the towing vehicle with a tow bar that is approved by the manufacturer.
4. Release the parking brake if it is engaged.
5. After the vehicle has been towed, unlock the direction selector.
 - a. Pull the neutral lock pin handle out.
 - b. Rotate until the pointed portion of the handle fits into the hole in the direction selector cam.



VEHICLE STORAGE

Storing a vehicle for 30 days or more requires proper preparation to prevent a build-up of varnish and gum in the fuel system, and corrosion in the engine. The following procedure will prepare the vehicle for storage:

Store your vehicle in an area that is well ventilated. Cover the vehicle. Covers designed specifically for vehicles are recommended because they allow enough ventilation to prevent condensation and corrosion.

WARNING

Store the vehicle in a clean, dry area. Do not store in an area with a stove, furnace, water heater, or other appliance that uses a pilot light, or has a device that can create a spark.

Do not handle fuel in an area that is not adequately ventilated. Do not smoke near the fuel tank or refuel near open flame or electrical items which could produce a spark.

When refueling, inspect the fuel cap for leaks or breaks that could result in fuel spillage.

Always wear safety glasses while refueling to prevent possible eye injury from gasoline or gasoline vapor.

Keep hands, clothing and jewelry away from moving parts. Use caution not to contact hot objects. Raise the rear of the vehicle and support on jack stands before attempting to run the engine.

NOTICE

The vehicle can be stored with the old oil left in the engine. The oil must be changed when the vehicle is removed from storage, before resuming operation. This removes condensation that may have accumulated in the crankcase.

Do not leave the parking brake engaged during the storage period. Use wheel chocks to prevent the vehicle from rolling.

1. Clean the vehicle. See VEHICLE CLEANING AND CARE on page 45.
2. Turn the key switch to the OFF position and put the direction selector in the NEUTRAL position.
3. Chock the wheels to prevent the vehicle from rolling. Do not engage the parking brake.
4. Perform all required routine maintenance indicated in the SCHEDULED MAINTENANCE CHART on page 42.
5. Fully inflate the tires. See Tire Pressure on page 46.
6. Add fuel stabilizer (4 oz. for a full tank of fuel) to the fuel and install the cap securely.
7. Remove the spark plug and pour approximately 1/2 oz. (15 ml) of SAE 10 - 30 weight oil or fogging oil into the cylinder.
8. Rotate the crankshaft by hand several times, and reinstall the spark plug.

Remove from Storage

1. Change the oil.
2. Check the spark plug for tightness. Tighten if necessary.
3. Check all items in the daily pre-ride inspection. See DAILY INSPECTION on page 32.
4. Lubricate according to the SCHEDULED MAINTENANCE CHART on page 42.

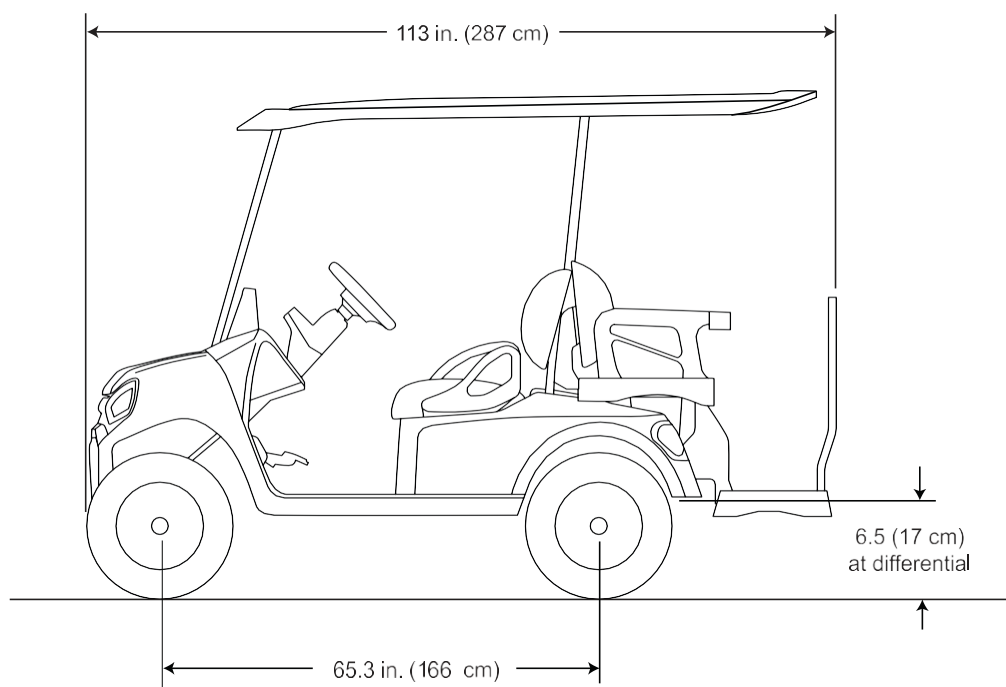
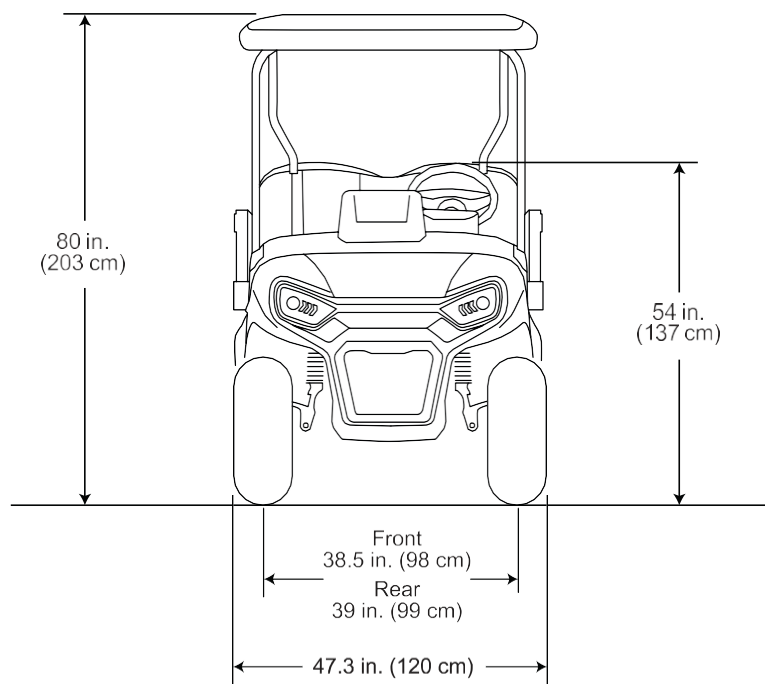


VEHICLE SPECIFICATIONS

SPECIFICATIONS

LIBERTY 4

Overall Length	113 in (287 cm)
Overall Width	47.3 (120 cm)
Overall Height (No Canopy)	54 in (137 cm) (Top of steering wheel)
Overall Height (With Canopy)	80 in (203 cm)
Wheel Base	65.3 in (166 cm)
Front Wheel Track	38.5 in (98 cm)
Rear Wheel Track	39.0 in (99 cm)
Ground Clearance (at Differential)	6.5 in (17 cm)
Dash / IP Storage Capacity	926 in ³ (15,174 cm ³)
Engine	Textron 4-Cycle 24.5 in ³ (401 cc)
Valvetrain	Single Cylinder OHV
Horsepower (kW)	13.5 hp (10.1 kW) Exceeds SAE J1940 Standard
Cooling System	Air Cooled
Balancer	Internal Counter Rotating Balance Shaft
Ignition	Electronic Inductive Spark
Electrical System	Internal Starter / Generator; Solid State Regulator
Battery	One, 12-Volt Maintenance-Free
Key or Pedal Start	Pedal
Air Cleaner	Industrial Rated Dry Cartridge
Lubrication	Pressurized Oil System
Oil Filter	Spin On
Fuel System	Closed-loop Electronic Fuel Injection
Fuel Pump Operating Pressure	43.5 psi (3 bar)
Max Fuel Volume	5.82 Gallon (22.0 L)
Drive Train	Continuously Variable Transmission (CVT)
Transaxle	Differential with helical gears
Gear Selection	Forward - Reverse
Rear Axle Ratio	11.47:1 (Forward) 14.35:1 (Reverse)
Seating Capacity	4 Person
Dry Weight	1132 lb (513 kg) (without battery)
Curb Weight	1192 lb (541 kg)
Maximum Vehicle Weight Capacity	800 lb (363 kg)
Maximum Load Deck Weight Capacity	300 lb (136 kg)
Outside Clearance Circle	33.4 ft (10.2 m)
Turning Radius	16.7ft (5.1 m)
Speed (Level Ground)	19 mph± 0.5 mph (31 kph± 0.80 kph)
Towing Capacity	N/A
Steering	Double-ended Rack and Pinion
Front Suspension	Independent A-Arm coil over shock absorbers
Rear Suspension	Leaf Springs with Hydraulic Shock Absorbers
Brakes	Dual Rear Wheel Mechanical Self-adjusting Drum
Parking Brake	Self-compensating, single point engagement
Front and Rear Tires	23X10-12
Frame	Welded Steel with DuraShield™ Powder Coat
Body and Finish	Injection Molded TPO
Noise (1-meter pass-by)	Sound pressure; continued A-weighted equal to or less than 70 db(A)
Vibration, WBV	Highest RMS value of weighted acceleration is less than 2.5 m/s ² .
	The uncertainty of measurement is 0.98 m/s ² .
Vibration, HAV	Highest RMS value of weighted acceleration is less than 2.5 mis ² .
	The uncertainty of measurement is 0.98 mis ² .
Measurement methods were applied per the ISO 2631 and ISO 5349 standards under conditions of typical vehicle surfaces.	
Some items shown may be optional equipment	





MAINTENANCE LOG

RECORDS

Record periodic maintenance in the following maintenance log.

[illegible]

**E-Z-GO**

1451 Marvin Griffin Road
Augusta, Georgia 30906 - 3852
USA

CONTACT INFORMATION**North America:**

Technical Assistance & Warranty:
Phone: 1-800-774-3946
Service Parts Phone:
1-888-GET-E-Z-GO (1-888-438-3946)

International:

Phone: 001-706-798-4311

California Proposition 65**WARNING**

The Engine Exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects or other reproductive harm.

Parts Manuals and Service Manuals are available from a local Distributor, an authorized Branch, Genuine E-Z-GO Parts & Accessories Department or at www.shopezgo.com.

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