



OWNER'S MANUAL

++ ELiTE Lithium

LIBERTY PTV

with IntelliBrake™ Technology

10102011-A



OWNER'S MANUAL

LIBERTY PTV ELiTE

LIBERTY 4

LIBERTY 4F

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

WELCOME

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.



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



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.

Industry Safety Standards

As manufactured, this vehicle meets or exceeds ANSI/OPEi Z-135 Personal Transport Vehicles and its top speed is set at 19.5 mph (31 kph). In the factory configuration, it is intended to be used on designated roadways, or within closed communities where permitted by law or by regulatory authority rules.

Some vehicles have been designed so that certain authorized service professionals are capable of altering the vehicle's maximum level-ground speed. These vehicles do not meet State or Federal LSV (Low Speed Vehicle) requirements and cannot be used on public roadways of any kind if any combination of modifications or speed settings increases the vehicle's maximum level-ground speed over 20 mph (32 kph).

WARRANTY AND REGISTRATION

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.

Register your new vehicle at www.ezgo.com.

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

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

INTRODUCTION

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.

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

Vehicle Serial Number

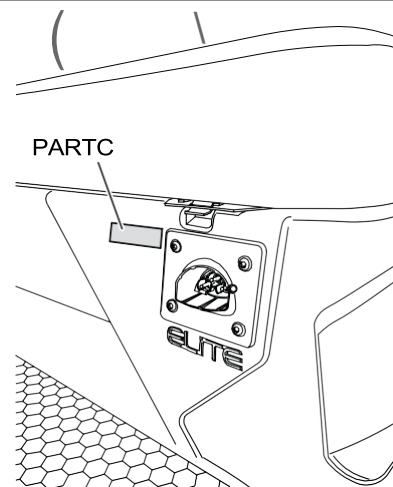
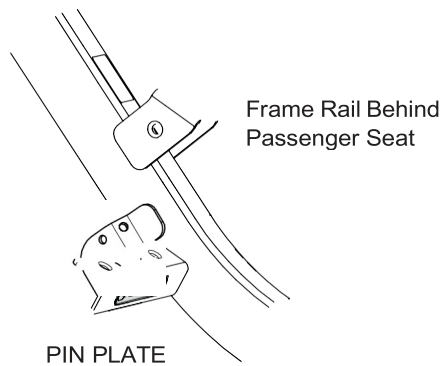
Vehicle PIN

PART A

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

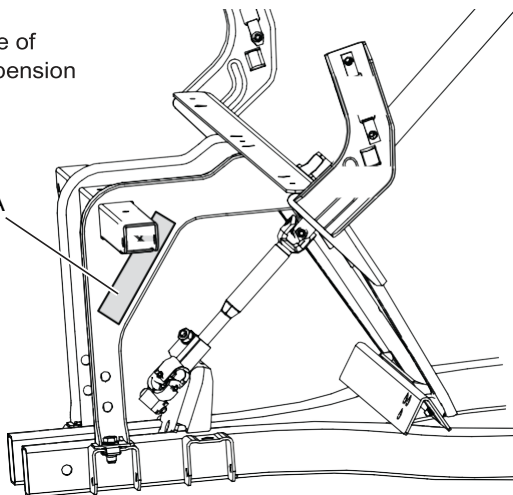
PARTC

SERIAL No.
Bar Code



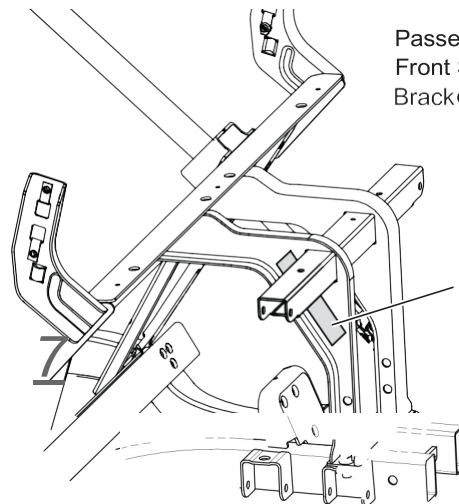
Driver Side of
Front Suspension
Bracket

PART A



Passenger Side of
Front Suspension
Bracket

PIN LABEL



SERVICE AND PARTS MANUALS

The following manuals can be purchased through a dealer:

- service manual
- parts manual

RADIO COMPLIANCE

Vehicle may be equipped with one or more of the following radio equipment:

IntelliScreen™ (10" Display Screen) and Soundbar

IDENTIFICATION	MANUFACTURER	FCCID	IC
SEI-CPAA101 Screen	SoundExtreme Inc.	2BADE-SEICPAA101	30122-SEICPAA101
SEI-EXSE2801OEM Soundbar	SoundExtreme Inc.	2BADE-EXSE2801OEM	30122-EXSE2801OEM

LED Controller

IDENTIFICATION	MANUFACTURER	FCCID	IC
SEISELEDZ4 LED Controller	SoundExtreme Inc.	2BADE-SELEDZ4OEM	30122-SELEDZ4OEM

Key Fob System

IDENTIFICATION	MANUFACTURER	FCCID	IC
ECU	Marquardt	IYZZE1-ZE1	
Key Fob	Marquardt	IYZZK1-ZK1	2701A-ZK1

Wireless Charger

IDENTIFICATION	MANUFACTURER	FCCID	IC
Wireless Charger	Scanstrut LTD	2APUP-SC-CW-GT	28360-SCCWGT

U.S.A. FCC RADIO COMPLIANCE

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

Changes or modifications made to this equipment not expressly approved by E-Z-GO may void the FCC authorization to operate this equipment.

Radiofrequency radiation exposure Information:

The radiated output power of the device is far below the FCC radio frequency exposure limits. Nevertheless, the device shall be used in such a manner that the potential for human contact during normal operation is minimized.

CANADA RADIO COMPLIANCE

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s). Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference, including interference that may cause undesired operation of the device.

L'émetteur/recepteur exempt de licence contenu dans le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

EU (EUROPEAN COMMUNITY) RADIO COMPLIANCE

Hereby, SoundExtreme Inc declares that the radio equipment type SEI-EXSE2801 and SEI-CPAA 101 is in compliance with Directive 2014/53/EU.



The EU declaration of conformity for radio items available on CE models can be accessed by scanning the QR code or going to <https://productdocs.txtsv.com>.

SAFETY

OWNER RESPONSIBILITY

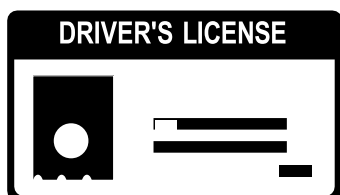
Improper use, maintenance, or modification of this vehicle can lead to serious injury or death.

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 or 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
- have both feet flat on the floor and reach pedals
- have both hands on the steering wheel
- activate the seat switch



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
- 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 38.

SEAT BELTS (IF EQUIPPED)



WARNING

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 36 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.

SEAT SWITCH (IF EQUIPPED)

The switch is located under the driver's seat cushion and is activated by pressure (weight of operator). When the operator exits the vehicle, the lack of pressure triggers the switch to interrupt the circuit and shutdown vehicle power.

The seat switch:

- ensures the vehicle only operates when someone is sitting in the seat
- stops vehicle operation if the driver leaves the seat
- prevents the vehicle's power system from starting if no one is in the driver's seat

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.



WARNING

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	LIBERTY 4F
Maximum Vehicle Weight Capacity	800 lb. (363 kg)	800 lb (363 kg)
Maximum Load Deck Capacity	300 lb. (136 kg)	N/A

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 33 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.

- Seat belts (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 36.
- 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 34.
- 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 or key fob 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 57 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 34 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 14. 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 39 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.

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 38 operational information.

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 39 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 57 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 38 for operational information.

BATTERY CHARGING

Charging should be performed when ambient temperatures are between 40°F and 110°F (4°C and 42°C). The battery module may be charged or topped off after every use. See BATTERY CHARGING on page 54.

BATTERY DISPOSAL

See BATTERY DISPOSAL on page 56 for disposal of batteries that have been removed from service.

BATTERY SAFETY INFORMATION

Make sure batteries are properly connected:

- red positive (+) cable to positive (+) battery post
- black negative(-) terminal to negative(-) battery post

WARNING

Batteries that have been submerged or flooded can cause damage including leaks, fire, and explosion. If batteries have been submerged or flooded:

- **do not charge the vehicle until battery has been replaced**
- **remove vehicle from service**
- **park vehicle outdoors, at least 15 feet away from structures or other vehicles**

Do not open the battery module. If the battery module is opened, electrical shock, explosion, or fire can occur. The battery module is not serviceable and must be replaced if it fails or becomes damaged.

In the event the vehicle is affected by fire:

- 1. Evacuate immediately- remove all persons from the affected area.**
- 2. Call Emergency Services - dial 911 or your local emergency number.**
- 3. Do not re-enter- stay out of the area until cleared by emergency personnel.**

Refer to LITHIUM-ION BATTERY MODULE SAFE OPERATION on page 53 for additional operation and safety information.

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 45 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 entire manual and all product labels carefully. Follow the procedures and comply with the safety information while performing service or maintenance.
- Use specified tools and safety equipment when performing vehicle maintenance.
- Remove all jewelry.
- Do not allow loose clothing or hair to contact moving parts.
- Do not touch hot objects.
- If lifting is required, follow the procedures and safety information on page 45.
- Lift drive wheels off the ground and support the vehicle on jack stands before performing any service to the powertrain when the motor is in operation.
- Make sure the vehicle is stable on jack stands before getting underneath.
- Never get under a vehicle while it is on a jack only.
- Wear eye protection.
- Wear a face shield when working around battery packs.
- Be careful when working around battery packs, using solvents, or compressed air.
- Use insulated tools within the battery area to prevent blowing the internal BMS fuse.
- To prevent risk of battery explosion, keep all flammable materials, open flames or sparks away from the battery packs.
- Be constantly aware that some components are heavy, spring loaded, corrosive, explosive, can cause high amperage or get extremely hot.
- Keep hands, face, feet and body away from any area that can expose them to injury if an unexpected situation occurs.
- After service is complete, test the vehicle in an area that is free from vehicle and pedestrian 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.

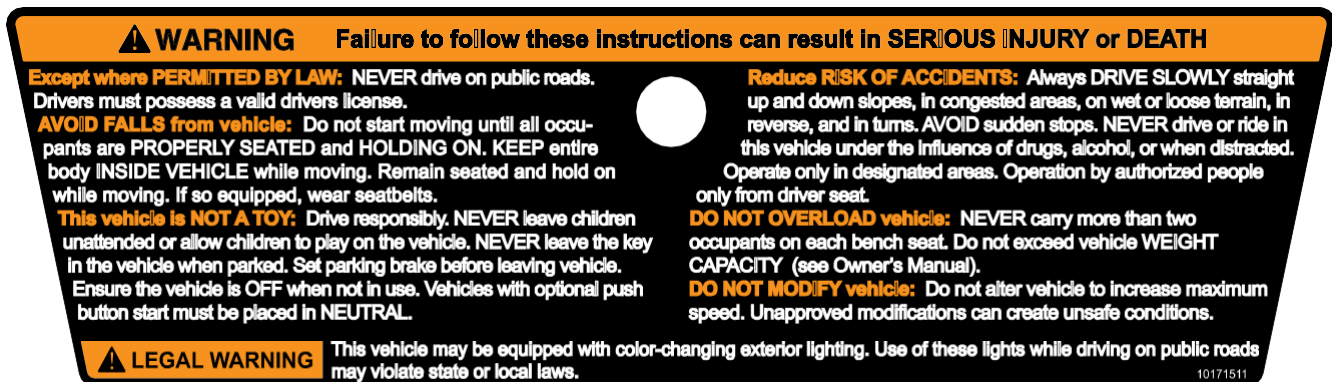
P/N 10016317



OPERATION - VEHICLES WITH OPTIONAL INTELLISCREEN™

Located below the IntelliScreen™ display.

P/N 10171511



SAFETY LABELS

REAR OCCUPANT SAFETY

Liberty 4F - Located on the seat panel in front of the rear passenger seat.

Liberty 4 - Located on the rear-facing seat handrail.

P/N 10171512

PATENT NOTICE

Located inside the driver's side dash storage compartment.

P/N 10005569

⚠ WARNING Falls and accidents can cause **SERIOUS INJURY** or **DEATH**

- Remain seated, hold on and keep entire body inside vehicle while moving.
- If so equipped, wear seatbelts.
- Never ride vehicle while distracted or under the influence of drugs or alcohol.
- Never carry more than two occupants on each bench seat.

10171512

PATENT NOTICE10005569

This product or components thereof may be covered by one or more patents or pending applications

See patents.txtsv.com for details.

Lt. WARNING CANCER AND REPRODUCTIVE HARM

For more information, go to P65Warning.ca.gov/passenger-vehicle

TOWING INSTRUCTIONS

Located under the controller cover.

P/N 609694

⚠ WARNING Failure to follow these instructions can result in **SERIOUS INJURY** or **DEATH**

THIS PROCEDURE SHOULD ONLY BE TO CLEAR VEHICLE FROM AN UNSAFE AREA AND BE PERFORMED ONLY BY QUALIFIED TRAINED PERSONNEL

In Case Of Total Power Loss And The 'Run-tow' Switch DOES NOT Release The Brake To Move The Vehicle:

- Turn the ignition key to the 'OFF' position and 'chock' tires to prevent inadvertent movement.
- Identify the 'Auxiliary Power' line (3) and remove the Weather Pack Seal (4) from the connector.
- Identify the 'Primary Power' line (1) connector and disconnect the line (2).
- Connect 'Auxiliary Power' line (3) to 'Primary Power' line (1) which will release the brake. **THIS WILL CAUSE THE VEHICLE TO MOVE IMMEDIATELY IF NOT ON LEVEL GROUND.**
- Move vehicle to desired location and park it properly on level ground, chock tires, **IMMEDIATELY DISCONNECT 'AUXILIARY POWER' AND RECONNECT 'PRIMARY POWER' (1, 2) FOR SAFETY AND TO AVOID BATTERY DRAIN.**

Position the vehicle on a level surface. Do not attempt to tow the vehicle without proper equipment. 609

RUN / TOW SWITCH OPERATION

Located on the controller cover.

P/N 612594

⚠ WARNING

- **DO NOT** alter or tamper with this unit. Unauthorized modifications can result in **SERIOUS INJURY** or damage to the vehicle and will void the warranty.
- To disable electrical system, turn key switch to 'OFF' and remove battery wires.
- **ALWAYS** turn key to 'OFF' before disconnecting or reconnecting battery wires. **ELECTRICAL ARC or BATTERY EXPLOSION** can occur if key is not in the 'OFF' position.
- **WAIT 30 seconds** after reconnecting batteries **BEFORE** turning key switch to 'REVERSE', 'FORWARD' or 'NEUTRAL' positions.

TOWING - Always select 'TOW' position before towing

TOW ← ○ → **RUN STORAGE**



612594

MAINTENANCE/TOWING

Located on the controller cover.

P/N 10180207

⚠ WARNING Failure to follow these instructions can result in SERIOUS INJURY or DEATH

IF VEHICLE IS INOPERABLE AND NEEDS TO BE MOVED:

- Turn the gear position to N and chock wheels to prevent inadvertent movement.
- Flip the run-tow switch to the TOW position and move the vehicle to the desired location. Park on level ground and chock the wheels immediately.
- Turn the vehicle off. Perform required service procedures following all safety guidelines and procedures as outlined in the vehicle service manual.

IN CASE OF TOTAL POWER LOSS AND THE RUN-TOW SWITCH DOES NOT RELEASE THE BRAKE, DO THE FOLLOWING TO RELEASE THE BRAKE AND MOVE THE VEHICLE:

- Remove this plastic cover by removing three plastic fasteners – see illustrations below.
- Instructions for releasing the emergency brake are under this panel.

Push center of fastener with vehicle key. When center is depressed, lift fastener to remove.



To reuse fastener, push center stem up, then install fastener through shield into hole.



To secure fastener in place, press down on center stem until flush with head of fastener.



10180207

GEN 3 BATTERY COMPOSITE LABEL

P/N 10186350

Located on the battery composite module.



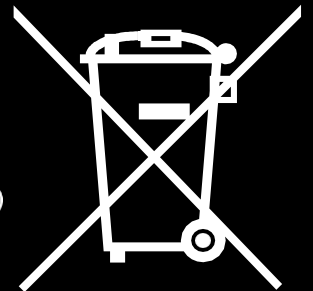
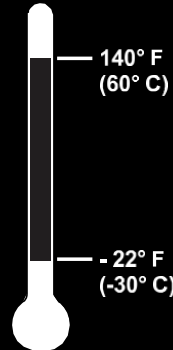
Composite Module-4857

RECHARGEABLE LITHIUM ION BATTERY

SAMSUNG SDI



- Voltage : 50.82 V
- Max Voltage : 58.1 V
- Min. Capacity : 54.85 Ah
- Typ. Capacity : 56.55 Ah
- Energy : 2,787 Wh
- Weight : 21.6 kg

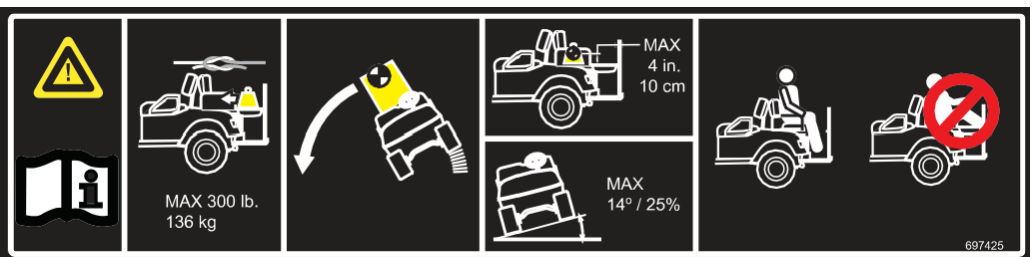


CELL MADE IN KOREA, MODULE ASSEMBLED IN VIETNAM
Yen Phong 1 Industrial Park, Yen Trung Commune, Bac Ninh Province, Viet Nam

FLIP SEAT / LOAD DECK WARNING – LIBERTY 4

Located on the rear-facing seat.

P/N 697425



697425

PINCH WARNING – LIBERTY 4

Located on the rear-facing seat.

P/N 651671



SAFETY LABELS

REFLECTORS

Front (x2) - Yellow

P/N 10104941

Located on each side of the front cowl.

Rear (x4) - Red

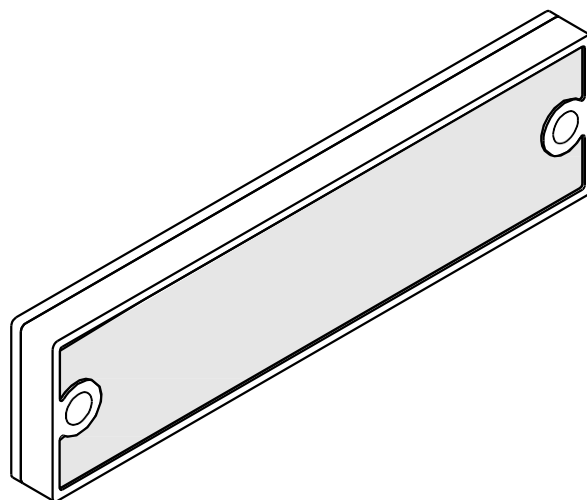
P/N 10104944

Liberty 4F - Located on:

- each side of the rear trunk
- back of the rear trunk

Liberty 4 - 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 / DIRECTION SELECTOR

CAUTION

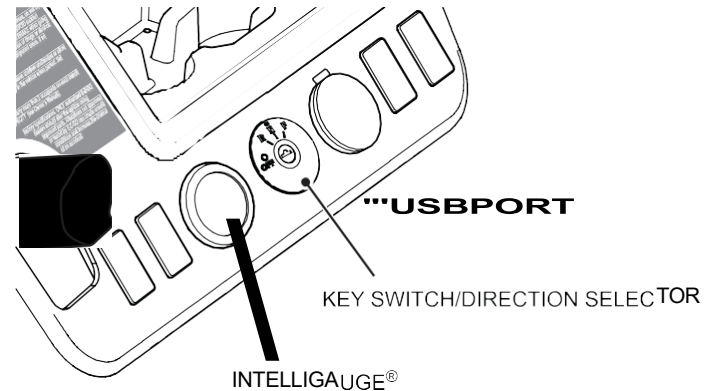
To decrease the risk of component damage, bring the vehicle to a complete stop before moving the key switch.

NOTICE

Some factory installed accessories continue to operate with the key switch in the OFF position. Leaving these accessories activated when the vehicle is shut down will cause battery discharge.

The key switch/direction selector is a four-position switch.

- OFF - vehicle is disabled.
- ON/N - activates vehicle electronics and accessory power.
- R - allows the vehicle to be driven in reverse and activates the reverse warning indicator.
- F - allows the vehicle to be driven in the forward direction.



INTELLIGAUGE®

The IntelliGauge® performs a variety of advanced functions. Refer to the IntelliGauge® user's guide for further information.

USB PORT

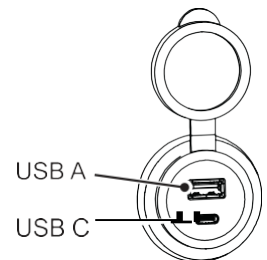
NOTICE

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.



INTELLISCREEN™ (IF EQUIPPED)

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

Refer to the IntelliScreen™ User Guide for in-depth capabilities and operation.

START/ STOP SWITCH (IF EQUIPPED)

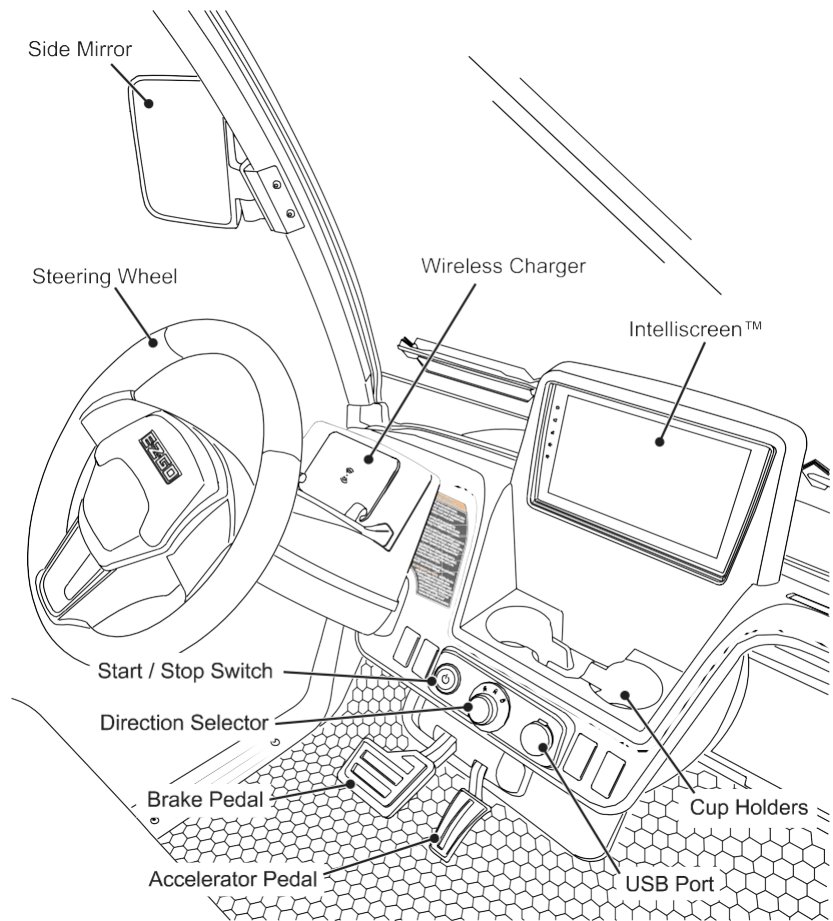
The push-button start/stop (or keyless) system allows the driver to start and stop the vehicle's power system with the push button rather than turning a physical key.

Required for operation:

- momentary press of switch
- operator seated in driver's seat
- key fob inside vehicle

Key Fob

The key fob must be located inside the vehicle in order for the push-button start feature to function.



If the key fob battery is dead, change it as soon as possible. A dead key fob can temporarily be used to energize the start / stop switch. See Dead Key Fob (If Equipped) on page 37 for procedure.

Seat Switch

Located under the driver's seat, this pressure-sensitive switch is a safety feature that allows operation of the vehicle only when an operator presence is detected.

The seat switch prevents vehicle operation in the absence of an operator; however, it still allows the vehicle to be powered on.

DIRECTION SELECTOR (IF EQUIPPED)

The direction selector is a three-position switch.

- **R** - allows the vehicle to be driven in reverse and activates the reverse warning indicator.
- **N** - vehicle operation is disabled; however, with the key fob inside the vehicle, pressing the power button enables accessory (ACC) power.
- **D** - allows the vehicle to be driven in the forward direction.

WIRELESS CHARGER (IF EQUIPPED)

⚠ WARNING 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.

SIDE MIRRORS (IF EQUIPPED)

The side mirrors are adjustable for optimum visibility to surroundings during operation.

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

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

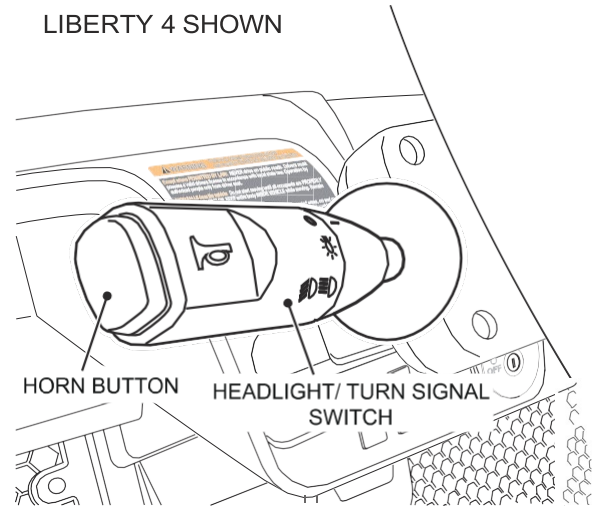
The button on the end of the switch activates the horn.

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.



BRAKE PEDAL

The brake pedal is the left pedal on the floorboard and controls braking function.

The brake pedal allows the operator to slow the speed or bring the vehicle to a complete stop by pressing the pedal.

ACCELERATOR PEDAL

The accelerator pedal is the right pedal on the floorboard. It activates the electric motor and controls the acceleration of the vehicle.

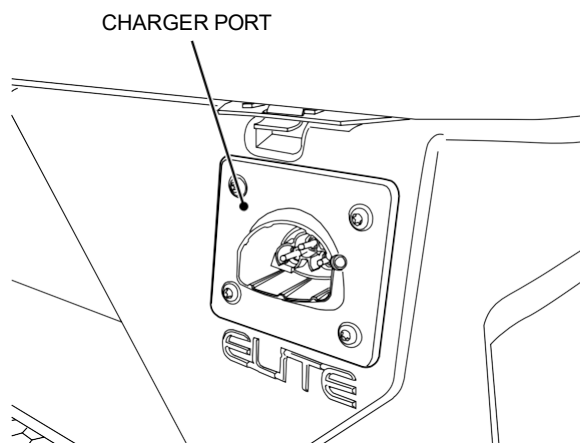
Pressure applied to the accelerator pedal increases vehicle speed.

PARKING BRAKE

The vehicle is equipped with an electronic parking brake (IntelliBrake™) that is activated when the vehicle is stopped. The parking brake releases when the vehicle is in the D/F or R position and the accelerator pedal is pressed.

BATTERY CHARGER PORT

The battery charger port is located on the panel below the driver's seat. The port connects the vehicle to a power source to recharge battery packs.



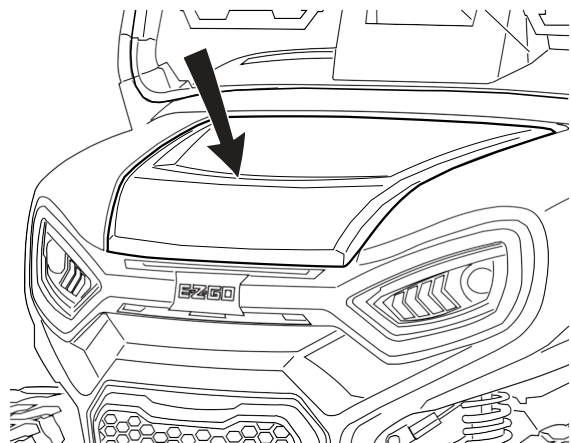
STORAGE

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.

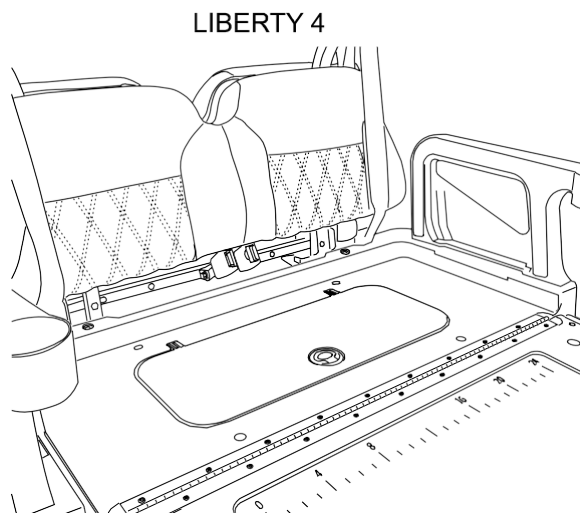
Glove Boxes

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



Load Deck Storage - Liberty 4

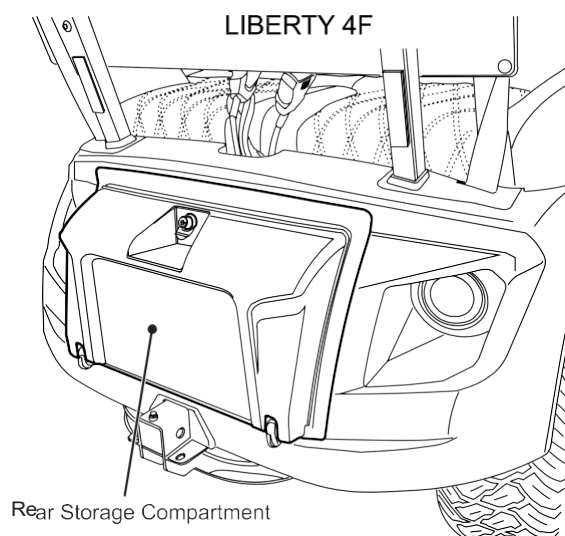
The Liberty 4 is equipped with a lidded storage compartment under the rear-facing seat. Pivot the seat to the load deck position for accessibility.



Rear Storage Compartments - Liberty 4F

Liberty 4F models have additional storage:

- lockable storage in trunk
- under the rear seat (not shown)
- by the rear passengers feet (not shown)



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 36 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.

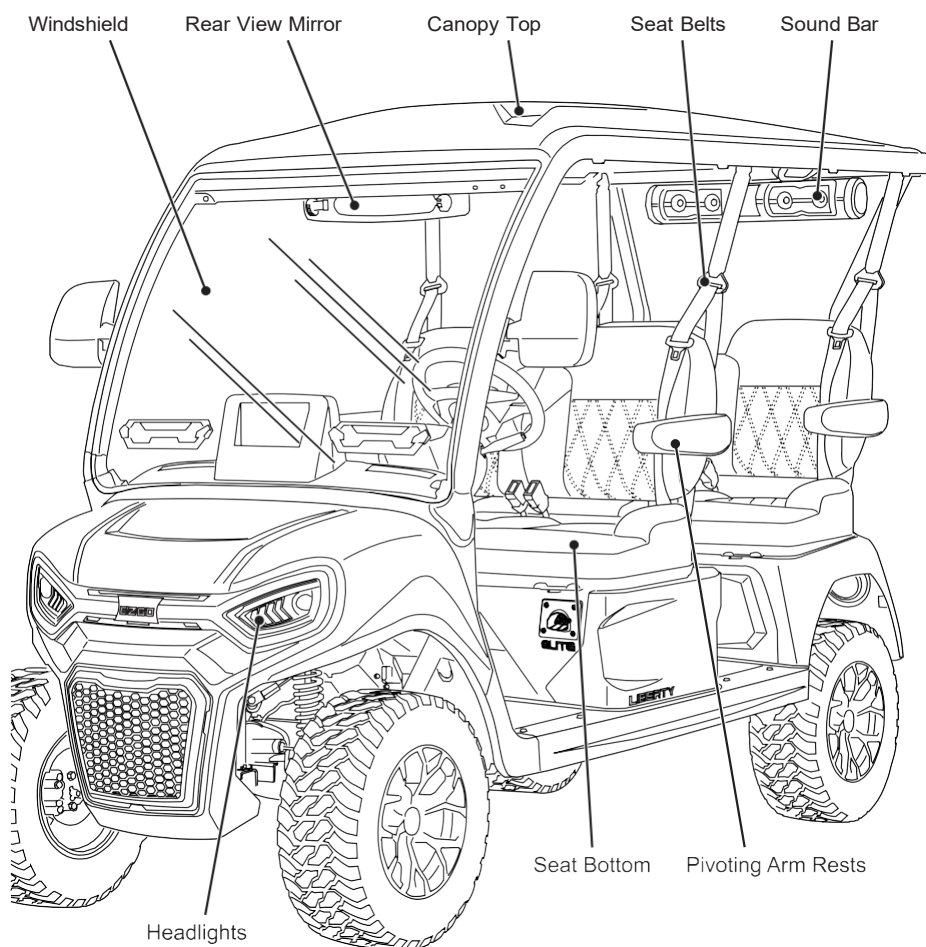
SEAT BOTTOM

The bench seats are designed for two occupants each.

To access components underneath the seat, raise the armrest 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.

Liberty 4

The rear-facing seat can be converted to a flat load deck by lifting and rotating rearward. See REAR-FACING SEAT AND LOAD DECK (LIBERTY 4) on page 31.



WINDSHIELD

The full polycarbonate windshield features integrated vents that promote airflow and help reduce fogging during vehicle operation. The vents can be opened or closed to adjust air circulation as needed. On vehicles equipped with the optional split windshield, the upper section can be folded down for increased ventilation.

Clean windshield with non-abrasive materials to maintain maximum visibility.

OPS / CANOPY TOP (IF EQUIPPED)

The Occupant Protective Structure (OPS) is compliant with SAE J2358. The OPS is a structural enclosure designed for the protection of occupants to minimize the possibility of serious injury resulting from accidental upsets.

CAUTION To prevent damage to the vehicle, do not hold on to the canopy top struts while the vehicle is moving.

The canopy top (part of the OPS) enhances the riding experience. The canopy top provides some protection from the elements, but does not keep occupants dry from heavy rain or provide protection from storms.

WARNING If there is a risk of lightning, leave the vehicle and look for a safe location to wait until the lightning has stopped.

The canopy top does not provide protection from roll-over or falling objects.

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.

REAR-FACING SEAT AND LOAD DECK (LIBERTY 4)

⚠ 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.

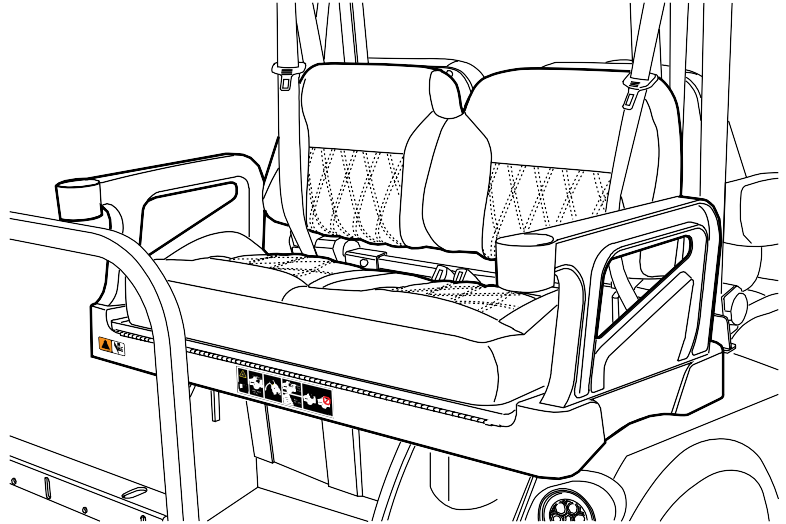
The rear facing seat will accommodate two passengers, one on each side of the seat. Passengers must remain seated while the vehicle is in motion. Hand holds are provided, one on each side of the seat and one mounted to the footrest in the center.

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 28). Pivot the seat bottom rearward to the load deck position for accessibility.



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 your new vehicle for operation, check for possible leaks that may have developed during shipment of the vehicle.

⚠ WARNING

Never charge a vehicle near flammable materials, open flame, or sparks. Never charge a vehicle near gas water heaters or furnaces.

- Check for possible leaks that may have developed during shipment of the vehicle.
- Charge the batteries fully. See BATTERY CHARGING on page 54.
- Perform the daily inspection shown on page 34.
- 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.	36
Batteries	Check charge level.	55
Brake System/Pedal Travel	Check for proper operation.	50
Parking Brake (e-brake)	Ensure vehicle will not roll when vehicle power is off.	
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.	47
Wheel Hardware	Check for loose or missing hardware.	
Frame Hardware	Check for loose or missing hardware.	
Fluid Leakage	Inspect vehicle for leaks.	
Switches	Check operation.	
Headlights	Check operation.	48
Brake Light/ Tail Lights	Check operation.	48

BATTERY CHARGER OPERATION

The charger should be operated in accordance with the charger manufacturer's instructions. Always place the charger outside the vehicle before and during the charging cycle (does not apply to on-board charger). Never charge the battery pack in a hazardous environment.

⚠ DANGER ***Risk of electric shock. Connect the charger power cord to an outlet that is correctly installed and connected to an electrical ground according to all codes and regulations. A grounded outlet is necessary to decrease the risk of electric shock- do not use ground adapters or replace the plug. Do not touch parts of output connector or battery terminals that do not have insulation.***

Disconnect the AC plug before you make or break the connections to a battery that is charging. Do not open or disassemble the charger. Do not operate the charger if the AC cord is damaged. Any repair work performed on the charger must be done by qualified personnel only.

Refer to the appropriate APPENDIX for the charger manufacturer User's Guide for operating instructions, maintenance instructions and troubleshooting instructions.

The battery charger will test the temperature of the battery pack. If the temperature is too hot or too cold the charger will shutdown. If the battery pack temperature is within the safe to charge range the charger will operate.

Off Board Charger

The off board or portable charger must have a dedicated 15 amp AC circuit. The charger should be placed in an area that permits good air flow around and under the charger. Read and follow the operation instructions supplied by the manufacturer with the charger.

1. Park the vehicle and shut off power by pressing the start/stop button or turning the key switch to OFF.
2. Plug the charger cord into the charge receptacle on the vehicle.
3. Unplug and properly store the cord when the charging cycle is complete.

The battery charger will test the temperature of the battery pack. If the temperature is too hot or too cold, the charger will shut down. If the battery pack temperature is within the safe to charge range, the charger will operate.

On Board Charger

The on board charger (if equipped) is located under the front seat. It is wired directly to the batteries.

1. Park the vehicle and shut off power by pressing the start/stop button or turning the key switch to OFF.
2. Plug the charger cord into a dedicated 15 amp AC outlet to activate the charger.
3. Unplug and properly store the cord when the charging cycle is complete.

PERFORMANCE FEATURES

NOTICE

The vehicle operates when the run/tow switch is in the RUN position.

The controller monitors and regulates the speed of the motor.

Speed Control

WARNING

The speed control system is not an alternative for the brake. Use the brake to control speed and decrease the risk of injury.

Speed control system vehicles are equipped with a regenerative motor control system.

Example: If all of the following events occur:

- the vehicle is being driven down a slope
- the vehicle attempts to exceed the specified top speed with the accelerator pedal pressed or released

The regenerative brake will limit the speed of the vehicle to the specified top speed but the warning beeper will not activate. When the regenerative braking system is activated by this sequence of occurrences, the motor generates power which is returned to the batteries.

If the operator tries to override the electronic brake feature by moving the direction selector to another position, the vehicle rapidly decelerates.

Pedal-Up Braking

Pedal-Up Braking is regenerative braking that occurs when the accelerator pedal is released while the vehicle is moving.

Example: If both of the following events occur:

- The vehicle is being driven down a slope
- The accelerator pedal is released

The Pedal-Up Braking feature decreases speed until the vehicle stops or the accelerator is applied. The warning beeper will not activate. When Pedal-Up Braking is activated by this sequence of occurrences, the motor generates power which is returned to the batteries.

High Pedal Disable Feature

High Pedal Disable prevents acceleration if vehicle power is on and the accelerator or brake are pressed. To reset the controller after a High Pedal Disable, place both feet on the floor, then press the accelerator.

OPERATION

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.



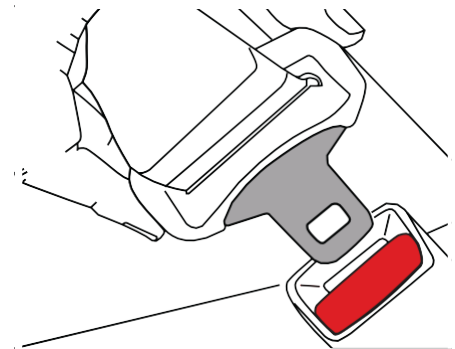
WARNING

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.



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

NOTICE

Some vehicles are equipped with a seat switch that allows operation or tow of the vehicle only when the operator is properly seated. If the operator stands or leaves the seat during operation, the vehicle will stop. If the vehicle is shut down by the switch, the operator will need to reset the direction selector to N before pressing the accelerator.

All vehicles have an *interlock system* that disables the controller and prevents operation or towing of the vehicle while the charger is connected. Remove the charger plug from the receptacle and correctly store the cable before moving the vehicle.

1. Sit in the driver's seat.
2. If equipped with seat belts, secure across hips.
3. Press and hold the brake pedal.
4. Power on the vehicle by pressing the start/stop button or turning the key switch to ON. Turn the direction selector to the desired direction of travel.
5. Slowly press the accelerator pedal to start the motor.
6. When the accelerator pedal is released, the motor decreases the speed of the vehicle. To stop the vehicle more quickly, press the brake pedal.
7. Park the vehicle and shut off power by pressing the start/stop button or turning the key switch to OFF. Remove the key fob or key from vehicle.



Using Accessories in Parked Vehicle

To use accessories when the vehicle is parked, place the direction selector in the N position, and leave the vehicle power on.

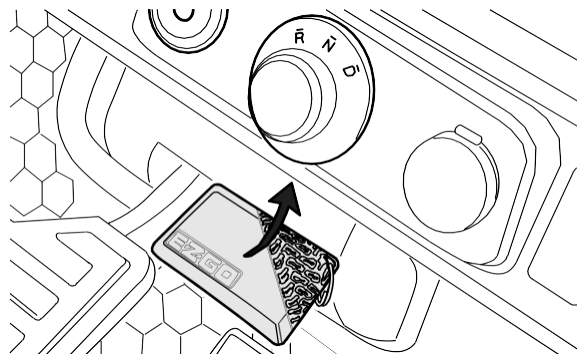
Dead Key Fob (If Equipped)

NOTICE

If the key fob is not functioning properly, change the battery as quickly as possible.

If the key fob battery is dead, it can be temporarily used to energize the start/ stop switch:

- hold the fob against the dash directly under the direction selector knob
- quickly press the start/ stop button



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 vehicle is off any time the vehicle is parked.

1. Power on the vehicle by pressing the start/stop button or turning the key switch to ON. Turn the direction selector to the desired direction of travel.
2. Apply slow, steady pressure to the accelerator pedal to gradually increase vehicle speed.
3. Release the accelerator pedal to decrease vehicle speed.

BRAKING

NOTICE

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

WARNING

If 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 vehicle speed or stop the vehicle completely.
3. Practice slowing and stopping using the brake to become familiar with the controls.

Coasting

The vehicle has a braking feature (pedal-up) that decreases speed when the accelerator pedal is released. The feature continues to decrease speed until the vehicle stops. If needed, press brake to decrease speed or stop quickly.

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.

DRIVING PROCEDURE

1. Perform the pre-ride inspection. See page 34.
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. Press the brake pedal.
6. Power on the vehicle by pressing the start/stop button or turning the key switch to ON. Turn the direction selector to the desired direction of travel.
7. With both hands on the steering wheel, release the brake and immediately apply gradual and steady pressure to the accelerator pedal.



NOTICE

Use only your right foot for both the accelerator and brake, keeping your heel on the floor while resting your left foot on the floorboard for stability and to prevent simultaneous pressing of pedals.

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
- All passengers must 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



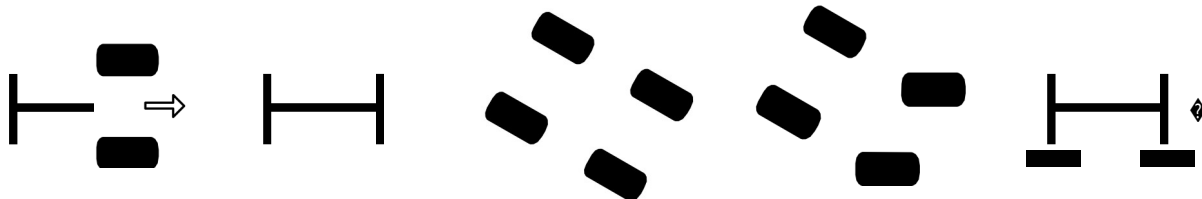
Skidding or sliding can cause loss of vehicle control.

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:

- Avoid excessively steep hills.
- Drive straight up the hill.
- Drive at a steady rate of acceleration and speed.
- Do not drive over the crest of a hill at high speed since there is little or no visibility to what's on the other side of the hill.

DRIVING DOWNHILL

WARNING *If 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.*

When driving down a hill, follow these guidelines:

- Apply light and constant pressure to the brakes to maintain speed and control of the vehicle.
- Avoid excessively steep hills.
- Drive straight down the hill.
- Never drive down hills with excessively slippery or loose surfaces.

DRIVING IN REVERSE

When driving in reverse, follow these guidelines:

- Check that the area behind the vehicle is clear.
- Check that left and right fields of vision are clear.
- Do not back down a steep hill.
- Drive slowly.
- Press the brakes lightly for stopping.
- Accelerate slow and steady.
- Avoid turning at sharp angles.

PARKING THE VEHICLE

WARNING *To avoid unintentional movement of the vehicle that could result in severe injury, vehicle damage or damage to surrounding objects, park the vehicle on a flat surface. If parking on an incline is unavoidable, chock the wheels to keep the vehicle from rolling.*

NOTICE

When parking the vehicle in cold climates (0°C, 32°F), it should be stored in an enclosed garage.

1. Press the brake to stop the vehicle.
2. Park the vehicle and shut off power by pressing the start/stop button or turning the key switch to OFF.
3. Remove the key fob or key from vehicle.
4. If parking on an incline, chock the wheels on the downhill end to prevent the vehicle from rolling.

HAULING CARGO ON THE LOAD DECK (LIBERTY 4)



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 40.

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).

TOWING (LIBERTY 4F)



WARNING Attach a trailer to the tow hitch only. Attaching the trailer at any other location can cause a loss of vehicle control.

Do not attach unapproved accessories to the hitch receiver. Towing and hitch mounted accessories can change the performance qualities of the vehicle and cause dangerous handling characteristics, possible rollover, or vehicle damage.

Do not attempt to tow with a vehicle not equipped with rear hitch.

When towing a load, follow these guidelines:

Comply with all federal, state, and local regulations for towing.

Do not tow more than the recommended towing weight shown in the following table.

VEHICLE TOWING (0% - 20% GRADE)	
	LIBERTY 4F
Maximum Vehicle Weight Capacity	800 lb (363 kg)
Maximum Gross Trailer Weight	500 lb (227 kg)

- Do not exceed the maximum vehicle weight capacity (includes weight of operator, passenger, cargo, accessories, and trailer tongue weight).
- The range of motion of the trailer is limited by the ball and hitch. Do not tow a trailer on rough terrain.
- Drive slowly and carefully. Towing can reduce handling, stability, acceleration, braking performance, durability, and battery range.
- Towing a load increases braking distances required for slowing or stopping the vehicle.
- Do not attach unapproved accessories to the hitch receiver.
- Trailer tongue weight must be between 8% and 12% of the gross trailer weight for safe towing.
- Avoid parking on an incline.
- Do not operate on a grade exceeding 20%.
- Always secure the cargo.



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 servicing the vehicle.

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

Do not touch hot objects.

Before you disconnect or connect a battery module or any other wires, make sure vehicle power is off.

Lift drive wheels off the ground and support the vehicle on jack stands before performing any service to the powertrain when the motor is in operation.

Support the vehicle with jack stands. NEVER get under a vehicle that is only supported by a jack. Lift the vehicle according to the instructions on page 45.

Wear a face shield when working around battery modules.

Be careful when working around battery modules, using solvents, or compressed air.

Use insulated tools within the battery area to prevent blowing the internal BMS fuse.

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

Maintain constant awareness that some components are heavy, spring loaded, corrosive, explosive, can cause high amperage, or get extremely hot.

After making repairs or performing maintenance, test the vehicle in a safe area that is free from vehicle and pedestrian traffic.

NOTICE

To decrease the risk of damage to the controller or motor, move the run/tow switch to the TOW position before towing the vehicle.

After connecting a battery or any other wires, wait a minimum of 30 seconds before moving the switch to the RUN position.

SCHEDULED MAINTENANCE

Consistent inspection, adjustment and lubrication of some components are necessary to maintain your vehicle so that it remains in safe and reliable condition. Refer to the SCHEDULED MAINTENANCE CHART on page 44 for detailed requirements.

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

Record the maintenance items performed, along with details in the MAINTENANCE LOG beginning on page 63.

NOTICE

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

VEHICLE MAINTENANCE

SCHEDULED MAINTENANCE CHART

Perform all services at the maintenance interval reached first.

ITEM	INTERVAL (perform at interval that comes first)		REMARKS	PAGE
	Hours	Calendar		
Overall vehicle condition	Pre-ride		Inspect.	
Battery module	Daily		Charge daily after use.	54
Seat belts (if equipped)	Pre-ride		Check for proper operation. Inspect for damage, including cuts, wear, fraying or stiffness.	36
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.	47
Wheel lug nuts	Pre-ride		Check for loose or missing.	48
Accelerator	Pre-ride		Check for smooth operation.	
Brake system	Pre-ride		Check for smooth operation and acceptable stopping distance.	50
Frame hardware	Pre-ride		Check for loose or missing.	
Headlights and tail lights	Pre-ride		Check operation. Replace LED assemblies as needed.	48
Switches	Pre-ride		Check operation.	
Fluid leakages	Pre-ride		Inspect entire vehicle for leaks.	
Parking brake (e-brake)	Pre-ride		Check for correct hold on flat ground and inclines.	
Brake pads (if equipped)	10	Monthly	Inspect. Replace as needed.	
Battery module	20	Monthly	Inspect for damage (battery cover on).	33
Charger receptacle	20	Monthly	Clean connections.	
Accelerator	20	Monthly	Check for smooth operation.	
Wiring	20	Monthly	Inspect for loose connections, broken or missing insulation.	
Steering	20	Monthly	Check for excess play, loose or missing hardware.	
Tie rods	20	Monthly	Check for excess play, bent rods, loose or missing hardware.	
Front suspension	20	Monthly	Inspect strut for leaks. Check hubs and kingpins, for excessive play, worn bushings, loose or missing hardware.	
Rear axle	20	Monthly	Check for leakage; add oil as required.	
Brakes	20	Monthly	Check for smooth operation and acceptable stopping distance.	
Hydraulic brake fluid (if equipped)	20	Monthly	Check fluid level.	50
Front wheel alignment	60	3 Months	Check for unusual tire wear.	
Rear Suspension	60	3 Months	Check for shock oil leakage, worn bushings, loose or missing hardware.	
Hydraulic brake fluid (if equipped)	100	1 Year	Replace fluid.	Dealer
Battery module	100	1 year	Remove cover and inspect for damage.	33
Rear axle	500	5 years	Replace fluid.	
Motor coupling	20,000 Amp Hours	5 years	Add anti-seize compound (approx. 1 tbsp).	

RECOMMENDED LUBRICANTS AND FLUIDS

Check and lubricate all components at the intervals shown in the SCHEDULED MAINTENANCE CHART beginning on page 44.

ITEM	CAPACITY	LUBRICANTS/FLUIDS	PART NUMBER
Rear axle oil	25 oz. (0.7 L)	Mobil 424	603967
Rear axle oil	2.0 oz (59 ml)	Friction Modifier	611242
Brake fluid (if equipped)	2.7 oz. (80 ml)	Dot 3 or 4	2150481

REPLACEMENT OF MAINTENANCE ITEMS

These items can be purchased through an authorized dealer or directly from the manufacturer.

ITEM	PART NUMBER
Headlight, Standard	1009171780101
Headlight, RGB	10091717G0000
LED Tail Light Assembly	101148011

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 only.

Put wheel chocks in front of 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 drivetrain, lift drive wheels off the ground and support the vehicle on jack stands.

Tools

- jack
- jack stands (4)
- wheel chocks

VEHICLE MAINTENANCE

Lifting Front

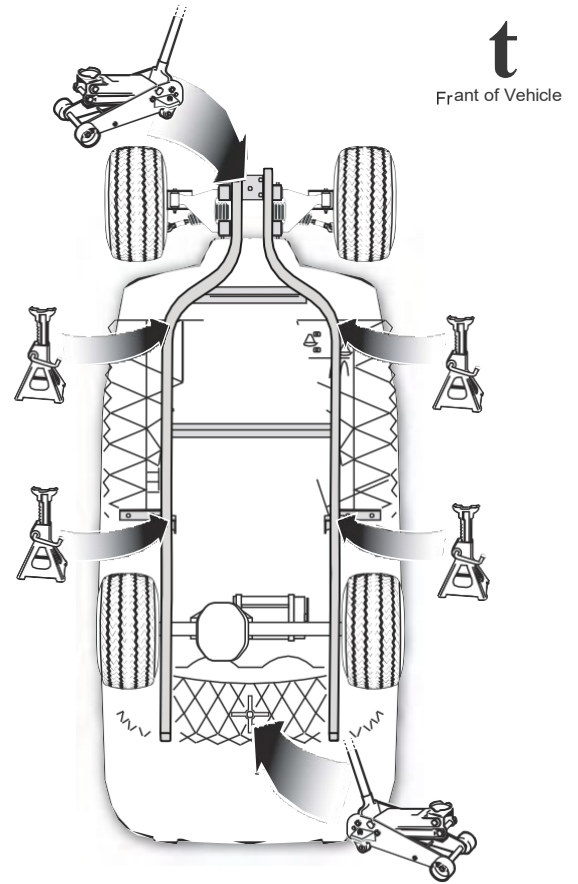
1. Chock the rear wheels to keep the vehicle from rolling backward.
2. Put a jack under the center front behind the bumper.
3. Raise the vehicle with the jack.
4. Install a jack stand under the front frame where the instrument panel support is attached to the frame (as shown).
5. Lower the vehicle until 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 bagwell or hitch receiver weldment.
3. Raise the vehicle with the jack.
4. Install a jack stand under each end of the frame where the leaf spring mounting brackets are welded to the frame (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.

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.
- 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 approved size and type of replacement tires. See VEHICLE SPECIFICATIONS on page 57.

⚠ 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.

To decrease the risk of tire explosion, inflate small amounts of air into the tire at intervals to allow the beads 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 low rated pressure. Do not use tires that have a recommended tire inflation pressure less than the tire inflation pressure in Tire Pressure on page 47.

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

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.

Tire Repair

NOTICE

Tire repairs are not covered under the vehicle warranty.

Tools

- lug wrench, 3/4"
- impact wrench
- impact socket, 3/4"
- 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 48.
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 air is leaking from the tire.
 - c. Mark the hole with chalk.
3. Install the plug according to the manufacturer's instructions.

VEHICLE MAINTENANCE

4. Install the wheel on the vehicle. See Wheel Installation on page 48.
5. Fully inflate the tire. See Tire Pressure on page 47.

Tire Replacement

Tire replacement requires a tire mounting machine and must be done by a qualified tire center or your 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.*

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

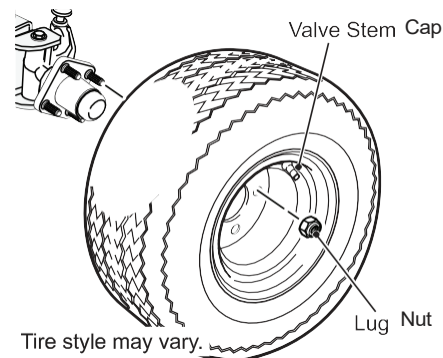
Check lug nuts for tightness at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 44.

Wheel Removal

Tools

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

1. Lift the vehicle. See LIFTING THE VEHICLE on page 45.
2. Remove the lug nuts.
3. Remove the tire from the vehicle.



Wheel Installation

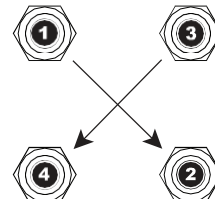
Lug Nut Torque	150 - 85 ft.lbs. (68 - 115 Nm)
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NOTICE

Always install lug nuts using a cross sequence pattern to ensure 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 tightening pattern shown at 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.

CONTROLLER SYSTEM TEST

At monthly intervals, test the controller by allowing the vehicle to roll down an incline with the accelerator pedal released. Braking force should be felt at approximately 2 mph (3 kph) indicating that the system is functioning. If vehicle speed continues to rise, apply the brake and have vehicle inspected by a trained mechanic.

REAR AXLE

The only maintenance necessary for the first five years is the inspection of the rear axle for lubricant leakage. Unless leakage is visible, the lubricant needs to be replaced after five years. Refer to the service manual for the fluid replacement procedure.

Change the axle oil at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 44. The drain plug is located at the bottom of the rear axle housing.

Checking the Lubricant Level

Clean the area around the check/fill plug and remove the plug. The correct lubricant level is just below the bottom of the threaded hole. If lubricant is low, add as required. Add slowly until lubricant starts to seep from the hole. Install the check/fill plug. In the event that the lubricant is to be replaced, the oil pan must be removed or the oil siphoned through the check/fill hole.

HYDRAULIC BRAKES (IF EQUIPPED)



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

Hydraulic Brake Fluid



WARNING When adding or changing brake fluid, always use brake fluid from an unopened bottle. After opening a bottle of brake fluid, discard the unused portion. Do not store or use from an opened bottle. Brake fluid rapidly absorbs moisture from the air. The moisture causes the boiling temperature of the brake fluid to drop. This can lead to premature brake fade and the risk of accident that can result in severe injury or death.

In addition to the scheduled maintenance interval for changing the brake fluid, the brake fluid must also be changed in the following conditions:

- fluid becomes contaminated
- fluid level falls BELOW the MIN mark
- the type/brand of fluid in reservoir is unknown

Replace the fluid according to instructions in the vehicle service manual or take to your dealer.

Check Brake Fluid Level

NOTICE

The brake fluid reservoir is under the cowl/front storage compartment. Fluid level can be checked by looking through the wheel well on either side of the vehicle.

The front storage compartment will have to be removed to add brake fluid.

1. Park vehicle on a level surface.
2. Check the brake fluid level at the reservoir. The fluid level should be between the upper MAX and lower MIN lines.
3. If the level is below the MAX line, add brake fluid:
 - a. Remove the front storage compartment.
 - a. Clean any dirt and debris from around the reservoir cap.
 - b. Remove cap from reservoir.
 - c. Add fluid until it reaches the MAX line.
 - d. Reinstall cap.
 - e. Clean any spilled brake fluid from the area.
 - f. Dispose of any unused fluid.
4. Press and hold the brake pedal fully down for a few seconds.
5. Check for fluid leakage around the fittings.
6. Re-install the storage compartment.

TRANSPORTING THE VEHICLE

**WARNING**

Do not ride 'l'r 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 windshield before you transport a vehicle on a trailer.

- If the vehicle is being hauled on a trailer or truck below highway speeds, check that canopy top hardware is tight and there are no cracks in the canopy top at the mounting points.
 - 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 on page 57 for the weight of the vehicle.
1. Drive the vehicle onto the trailer or truck.
 2. Ensure the electric parking brake is engaged.
 3. Shut off power by pressing the start/stop button or turning the key switch to OFF.
 4. Remove the key fob or key from vehicle.
 5. Secure the seats.
 6. 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.

Before towing:

- **turn the direction selector to N**
- **move the run/tow switch to the TOW position**
- **make sure brakes and steering are operable**
- **make sure vehicle power is on**

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.

NOTICE

This vehicle is equipped with an automatic parking brake. When the vehicle is stopped, the parking brake is automatically set. The IntelliBrake™ releases when the vehicle is in D/F or Rand the accelerator is pressed. The IntelliBrake™ is also released when the run/tow switch is in the TOW position with the vehicle on and direction selector in N.

MANUAL RELEASE OF INTELLIBRAKE™

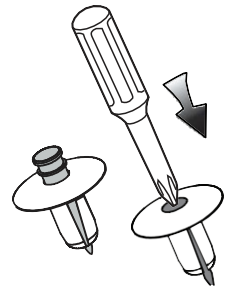


WARNING

When the IntelliBrake™ is released, the vehicle will roll freely if not on level ground. Always chock the wheels to prevent unintended movement.

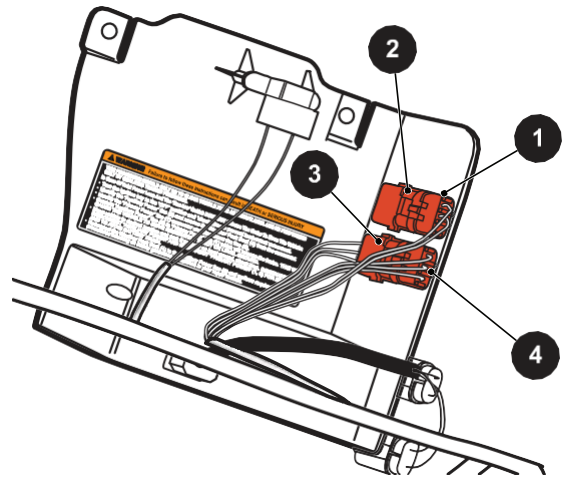
In case of total power loss and the run/tow switch does not release the IntelliBrake™, use the instructions under the controller splash shield. Chock the tires to prevent the vehicle from moving when the brake is released.

To read the instructions, remove three re-usable plastic rivets that secure the controller cover. To remove these rivets, press the center of the rivet with a Phillips-head screwdriver (or similar tool). When the center pin goes into position, the rivet can be removed. Repeat the procedure for each remaining rivet. Turn the cover over to read the instructions.



Make sure the vehicle is off. Chock the tires to prevent the vehicle from moving, then do the following:

1. Locate the 'Auxiliary Power' line (3) and remove the weather pack seal (4) from the connector.
2. Locate the 'Primary Power' line connector (1) and disconnect it from line (2).
3. Connect the 'Auxiliary Power' line (3) to the 'Primary Power' line (1) which releases the brake.
If the wheels are not chocked and the vehicle is not on flat ground, the vehicle will move immediately.
4. Move the vehicle to desired, safe location and chock the tires immediately.
5. Disconnect the 'Auxiliary Power' line (3) from the 'Primary Power' line (1).
6. Connect the 'Primary Power' line (1) to line (2).
7. Replace the weather pack seal (4) on the 'Auxiliary Power' line connector (3).
8. To reinstall the controller splash shield, position the splash shield by aligning the mounting holes with the holes in the body, push the center pin of each rivet upward so that the top of the pin is above the rivet head.
9. Place a rivet in each mounting hole of the controller splash shield and push down on the center pin until the top of the pin is flush with the rivet head.



BATTERY MAINTENANCE

There is no maintenance required for the battery module other than the periodic inspections indicated in the SCHEDULED MAINTENANCE CHART on page 44. Charge the battery using only the OEM approved Lithium-Ion battery charger.

LITHIUM-ION BATTERY MODULE SAFE OPERATION

Improper handling of battery module and electrical components can result in fire, which can cause serious injury or death and damage to property. Read, understand and obey the following warnings.



Do not open the battery module. Do not disassemble or modify the design, including the electrical circuit

Do not attempt to remove battery module or battery cables. All repairs or related services must be performed by an authorized service facility.

All tools used in or around the battery module area should be insulated.

Do not cause a short to the power terminal (P+, P-, B+, B-) with a metallic object.

Avoid using, storing or leaving in a high humidity, high dust or corrosive gas atmosphere.

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

Do not leave battery near a fire or heat source.

Do not throw battery into a fire.

Do not apply heat to any part of the battery module.

Do not put in a microwave oven, dryer or high-pressure container.

Do not attempt to operate the vehicle or charge the battery module at temperatures above 140°F (60°C) or below -4°F (-20°C).

Do not immerse battery module in water or leave wet.

Do not pressure wash or otherwise apply water or any other chemical, including battery terminal protectant, insect repellent, etc. to the battery module. To clean, use only compressed air, a dry rag or non-metallic brush.

If battery module is found to be damaged or deformed, it must be replaced immediately. Exposing a damaged battery module to water or any other chemical may result in fire.

Do not puncture the battery module with sharp objects such as needles or screwdrivers.

Do not strike the battery module with a hammer or heavy weight.

Do not step or stand on the battery module.

Do not throw or drop the battery module on hard surfaces.

Do not heat any part of the battery module with heated objects such as soldering irons. Do not solder directly on the battery module.

Keep the battery module away from static electricity.

If battery module becomes abnormally hot, an odor is detected or if discoloration, deformation, or other abnormal conditions are detected during usage, charge, or storage, remove vehicle from service and evacuate the area.

Keep away from vehicle if fire, leakage or foul odors are detected. If liquid contacts your skin or clothing, wash thoroughly with fresh, running water immediately. If any liquid contacts your eyes, do not rub. Wash with clean, running water and seek medical assistance immediately.

If battery terminals are contaminated, wipe with a dry cloth. Do not use water to clean.

BATTERY MAINTENANCE

BATTERY CHARGING

The battery charger is designed to completely charge the battery pack. If the battery pack is severely discharged the charger will indicate a fault. The automatic charger determines the correct length of charge for the battery pack and turns off when the battery pack is charged. Always refer to the instructions supplied with the charger. See the Appendix section at the back of this manual for charger operating instructions.

The battery management system (BMS) and charger cooperate to make sure that charging occurs at the proper rate for the battery temperature. When the battery charger is connected to the vehicle, it will determine the charge rate based on the battery temperature. The charger will operate at the rates shown in the table below.

The BMS will adjust the charge rate based on the temperature of the batteries.

Use only the OEM approved Lithium-Ion battery charger for your vehicle. See charger operating instructions in the Appendix section.

1. Shut off power by pressing the start/stop button or turning the key switch to OFF. Remove the key fob or key from vehicle.
2. Inspect the charger cord for cracks, frayed wires or loose connections. If damaged, replace it.
3. Inspect the vehicle charger receptacle and charger plug for dirt, debris or damage. Clean if necessary and replace immediately if damage is found.
4. Refer to the following chart for guidelines and connect the charger to a receptacle:

CHARGER NAME	NUMBER OF VEHICLES	INPUT AC VOLTAGE	RECOMMENDED DEDICATED CIRCUIT
ELiTE Light Charger 350 (incl. International)	3	120V	15A Breaker
	4	120V	20A Breaker
	4	220V	15A Breaker
	5	220V	20A Breaker
ELiTE On Board Rapid Charger		110/120 or 220	15A Breaker
World Charger		120V	15A Breaker
	2	120V	20A Breaker
	3	220V	15A Breaker
	4	220V	20A Breaker

5. Connect the charger to the vehicle receptacle.

When the battery pack is finished charging, disconnect the charger cord from the vehicle. If disconnecting before the charge cycle is complete, it is recommended that the charger be disconnected from the wall receptacle first, then unplug the charger from the vehicle receptacle.

AC Voltage

The battery charger output is directly related to the input voltage. If the vehicle receives an incomplete charge in a normally adequate time period, low AC voltage can be the cause. Consult an electrician if necessary.

BATTERY INSPECTION

Periodic battery inspections are required. Refer to the SCHEDULED MAINTENANCE CHART on page 44 for service intervals.

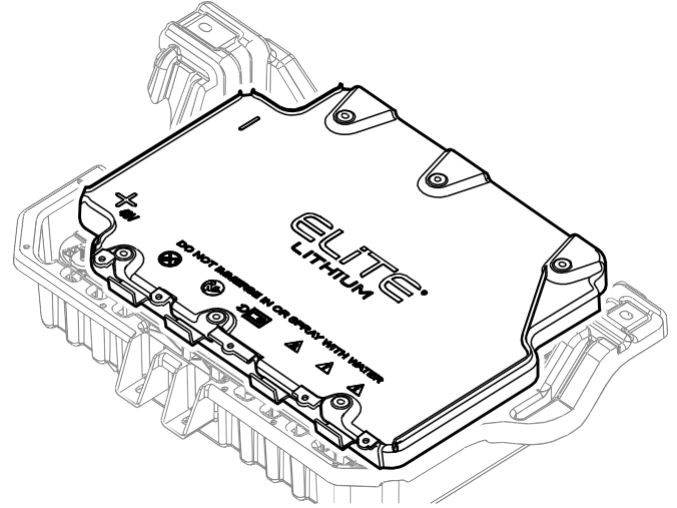
Inspect battery module for cracks around the perimeter of the case and any other visible damage. If cracks or damage is detected:

- do not charge the vehicle until battery has been replaced
- remove vehicle from service
- park vehicle outdoors, at least 15 feet away from structures or other vehicles
- contact your authorized dealer or the vehicle manufacturer for replacement information

Battery Cover Removal

The battery cover must be removed from the battery module for the 100 hour/yearly inspection. The battery cover must be reinstalled after inspection is complete.

Battery covers vary in appearance; this is shown for reference only.



BATTERY SHIPPING

In the rare event that batteries require shipment, contact the vehicle manufacturer for shipping and handling instructions. Use the Technical Assistance & Warranty number located on the back of this publication.

BATTERY PROLONGED STORAGE

CAUTION *Improper storage may damage, destroy, or cause permanent loss of battery pack capacity. Do not exceed storage time or temperature limits. The battery pack must be charged to the correct level before storage. Storing fully depleted battery packs will make them permanently unusable.*

Storage Preparation

The optimum storage temperature range is between 65°F and 82°F (18°C and 28°C)

- Charge the battery module based on climate during storage period.
 - In cold climates, fully charge the battery pack. Make sure that the charging operation is complete and there are no faults displayed on the charger. The green light on the charger should be on which indicates that the charge cycle is complete.
 - In hot climates, store the vehicle with a 30% to 50% charge of battery pack capacity.
- Turn the vehicle off and remove the key or key fob from the vehicle.
- Check the run/tow switch under the seat, make sure it is set in the RUN position.
- Turn off all accessories.

The storage time for properly charged Lithium-Ion batteries supplied with this vehicle varies based on the ambient temperature.

TEMPERATURE	LENGTH OF STORAGE TIME
-22°F to -4°F (-30°C to -20°C)	One month at 100% battery charge, all accessories turned off.
-4°F to 113°F (-20°C to 45°C)	Six months at 100% battery charge, all accessories turned off.
113°F to 140°F (45°C to 60°C)	One month at 30% - 50% charge, all accessories turned off.

Setting State of Charge (SOC)

Check the state of charge of the battery module. If the SOC is below 30%, charge the battery module until the state of charge reaches 50%. The charge cycle may be interrupted by disconnecting the charger from the AC power source first, then from the charging receptacle on the vehicle. If the SOC is above 50%, operate the vehicle until the SOC is below 50%.

BATTERY MAINTENANCE

During Storage

Check the state of charge every 30 days. If the SOC is below 30%, charge the battery pack until the state of charge reaches 50%.

Extreme Low Temperature Storage

If the ambient temperature is below -4°F (-20°C) DO NOT:

- turn the vehicle on
- drive the vehicle
- tow the vehicle
- charge the vehicle
- operate accessories
- turn the lights on

Returning Vehicle to Service

At the end of the storage period, charge the battery pack to 100% before operating the vehicle.

Before charging the vehicle be sure that the ambient temperature is between 14°F (-10°C) and 113°F (45°C) and the vehicle has had time to adjust to the temperature.

BATTERY FAULT DIAGNOSIS

Refer to the charger instructions in the Appendix in the back of this manual.

BATTERY CHARGER MAINTENANCE

- Do not attempt to start the vehicle or charge the battery pack if the vehicle has been stored at or below freezing temperatures.
- Do not spray the battery pack with water. Do not attempt to add water to the battery pack.
- Do not charge the batteries if the ambient temperature is below -4°F (-20°C) or above 113°F (45°C).
- Refer to the appropriate appendix for battery charger operating instructions.

BATTERY DISPOSAL

WARNING Do not dispose or recycle without proper insulation on the battery terminals.



Lithium-Ion batteries are recyclable:

- Return discarded battery modules to distributor or manufacturer for recycling.
- Contact local or state environmental department for disposal information.

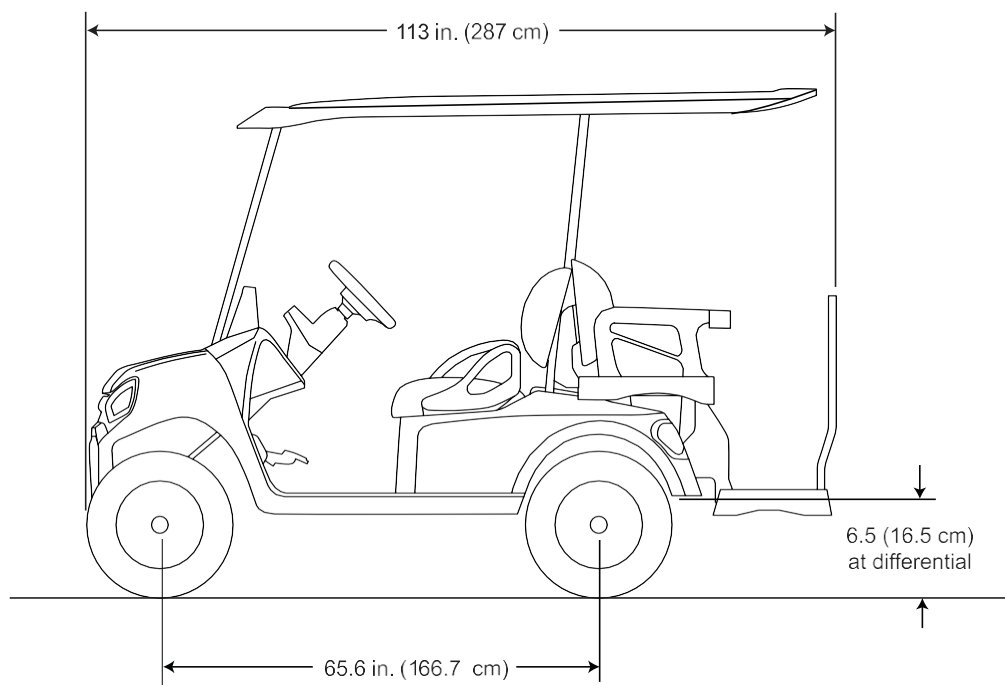
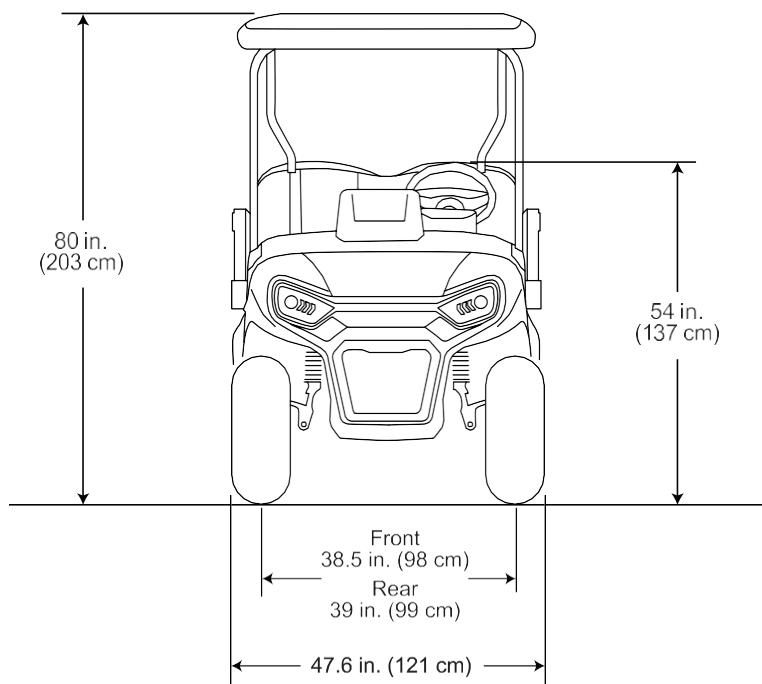
NOTICE

When Li-ion batteries are put into a municipal recycling bin, they will end up at a municipal recovery facility (MRF) that is typically equipped to recycle only household paper, plastic, metal, and glass. When this happens, the batteries can become damaged or crushed during processing and may become a fire hazard. It is important to note that the chasing arrow symbol (i.e three arrows forming a triangle) on Li-ion batteries means that these batteries can be recycled at specialized battery recyclers. It does not mean that Li-ion batteries can be placed in municipal/household recycling bins.

VEHICLE SPECIFICATIONS

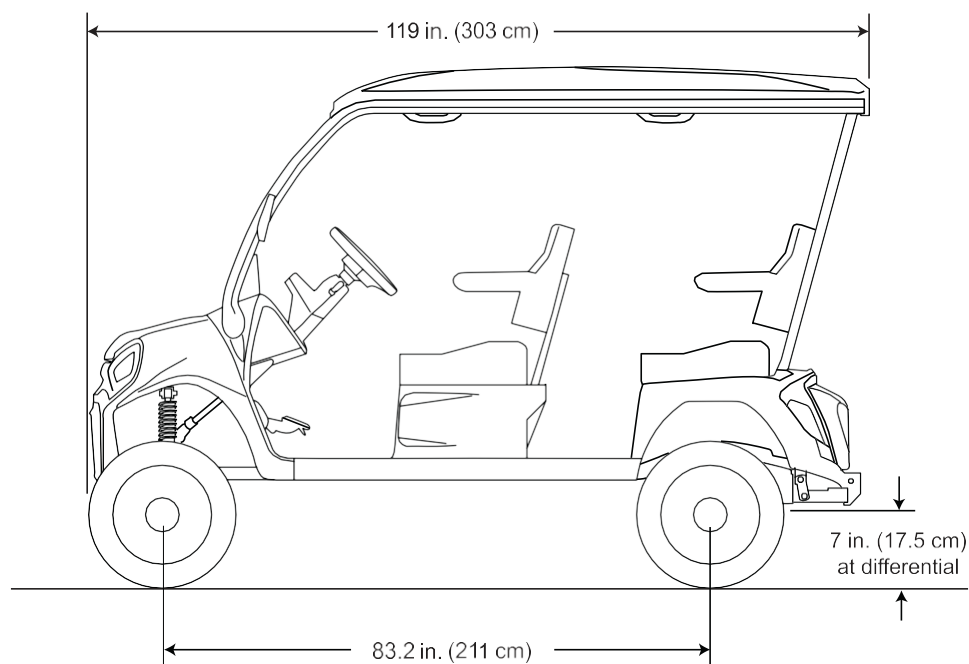
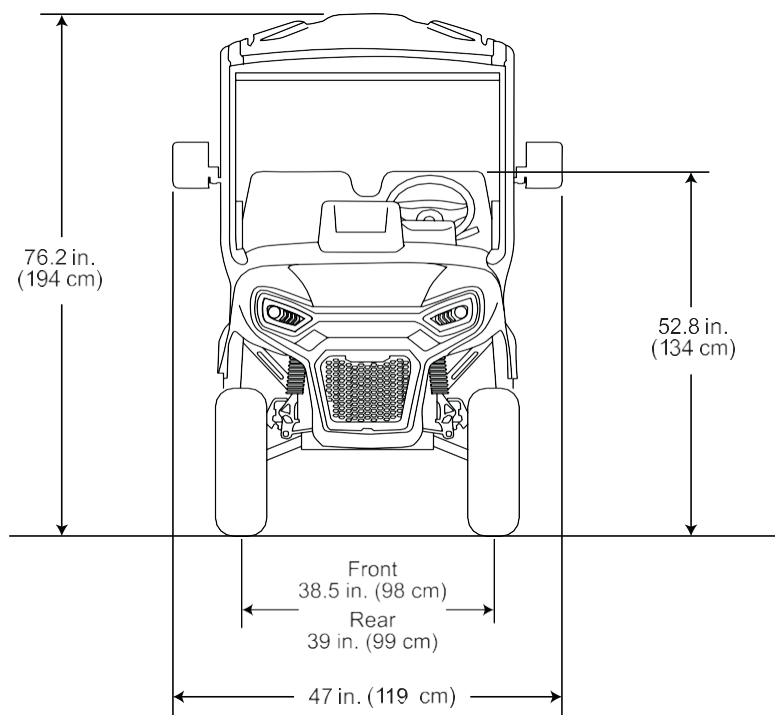
LIBERTY 4

Overall Length	113 in. (287 cm)
Overall Width	47.6 in. (121 cm)
Overall Height (no Canopy)	54 in. (137 cm)
Overall Height (with Canopy)	80 in. (203 cm)
Wheel Base	65.6 in. (166.7 cm)
Front Wheel Track	38.5 in. (98 cm)
Rear Wheel Track	39 in. (99 cm)
Ground Clearance at Differential	6.5 in. (16.5 cm)
Turning Radius	8.95 ft. (2.7 m)
Outside Clearance Circle	17.9 ft. (5.5 m)
Power Source	39.2 - 56.7V Li-ion Battery
Motor Type	AC Induction
HP Peak	11.7 hp (8.7 kW)
HP Continuous	4.4 hp (3.3 kW)
Electrical System	48V primary, 12V auxiliary
Battery Quantity and Type	Single, 56.7V Li-Ion Composite Module (Standard Configuration)
Key or Pedal Start	Pedal
Battery Charger	56.7V 350 W Domestic Charger, 3m charging cord
Speed Controller	Curtis 1206AC Controller
Speed (Level Ground)	19.5 mph (31 kph) Programmable
Drivetrain	Motor Shaft Direct Drive
Transaxle	Clutch type limited-slip differential with helical gears
Gear Selection	Dash Mounted Direction Selector/ Key Switch
Rear Axle Ratio	16.99:1 (Forward)
Seating Capacity	4-Person
Dry Weight (without batteries)	1031 lb. (468 kg)
Curb Weight	1150 lb. (522 kg)
Dash / IP Storage Capacity	926 in' (15174 cm')
Vehicle Load Capacity	800 lb. (363 kg)
Load Deck Capacity	300 lb. (136 kg)
Towing Capacity	N/A
Steering	Double ended rack and pinion
Front Suspension	Independent a-arm coil over shock
Rear Suspension	Mono-leaf springs with hydraulic shock absorbers
Brakes	Induction motor
Parking Brake	Automatic electro-magnetic
Front and Rear Tires	23x10-12
Frame	Welded steel with DuraShield™ powder coat
Body and Finish	Injection Molded TPO



LIBERTY 4F

Overall Length	119 in (303 cm)
Overall Width	47 in (119 cm)
Overall Height (no Canopy)	52.8 in (134 cm)
Overall Height (with Canopy)	76.2 in (194 cm)
Wheel Base	83.2 in (211 cm)
Front Wheel Track	38.5 in (98 cm)
Rear Wheel Track	39 in (99 cm)
Ground Clearance at Differential	7 in (17.5 cm)
Turning Radius	12.1 ft(3.7m)
Outside Clearance Circle	24.3 ft (7.4 m)
Power Source	39.2 - 56.7V Li-ion Battery
Motor Type	AC Induction
HP Peak	11.7 hp (8.7 kW)
HP Continuous	4.4 hp (3.3 kW)
Electrical System	48 V primary, 12 V auxiliary
Battery Quantity and Type	Single, 56.7V Li-Ion Composite Module (Standard Configuration)
Key or Pedal Start	Pedal
Battery Charger	56.7V 350 W Domestic Charger, 3 m charging cord
Speed Controller	Curtis 1206AC 350A Controller
Speed (Level Ground)	19.5 mph (31 kph) Programmable
Drivetrain	Motor Shaft Direct Drive
Transaxle	Clutch type limited-slip differential with helical gears
Gear Selection	Dash Mounted Direction Selector/ Key Switch
Rear Axle Ratio	16.99:1 (Forward)
Seating Capacity	4-Person
Dry Weight (without batteries)	1047 lb (475 kg)
Curb Weight	1166 lb (529 kg)
Dash / IP Storage Capacity	926 in' (15174 cm')
Vehicle Load Capacity	800 lb (363 kg)
Towing Capacity	500 lb (227 kg)
Steering	Double ended rack and pinion
Front Suspension	Independent a-arm coil over shock
Rear Suspension	Mono-leaf springs with hydraulic shock absorbers
Brakes	Induction motor
Parking Brake	Automatic electro-magnetic
Front and Rear Tires	23x10R12 (6 ply rated)
Frame	Welded steel with DuraShield™ e-coat and powder coat
Body and Finish	Injection Molded TPO



MAINTENANCE LOG

RECORDS

Record periodic maintenance in the following maintenance log.

[illegible]

APPENDIX A

RQ700 CHARGER USER'S GUIDE

RQ700 Charger-E-Z-GO Product Manual

700W Battery Charger for Lithium-Ion and Lead-Acid Battery Chemistries

This manual contains important safety and operating instructions for versions of Delta-Q RQ700 (Model nos. 971-0002/-A001, 971-0003/-A001, 971-0004/-A001, 971-0005/-A001) installed on E-Z-G-O brand vehicles. Please read this information before using your RQ700 charger.

For manufacturer contact information and technical support resources, please visit delta-q.com/support.



*Lithium charger

*Shown: Lithium configuration, lead-acid paddle differs (black)

SAVE THESE IMPORTANT SAFETY INSTRUCTIONS. This manual contains important safety and operating instructions - read before using the charger. **CONSERVEZ CES IMPORTANTES CONSIGNES DE SECURITE.** Ce manuel contient des consignes importantes de securite et d'utilisation - à lire avant d'utiliser le chargeur.

WARNING: Only use the charger with a charging profile that is appropriate to the specific battery type. Other usage may cause personal injury and damage. Lead-acid batteries may generate explosive hydrogen gas during normal charging. Keep sparks, flames, and smoking materials away from batteries. Do not operate the charger in a closed-in area or an area with restricted ventilation. Never charge a frozen or non-rechargeable battery. Observe all battery manufacturers' precautions (e.g. maximum charge rates and temperature compensation). **DANGER:** Risk of electric shock. Connect the charger power cord to an AC outlet that has been properly installed and grounded in accordance with all local codes and ordinances. A grounded AC outlet is required to reduce the risk of electric shock-do not use ground adapters or modify the plug. Do not touch uninsulated portions of the output connector or uninsulated battery terminals. Disconnect the AC supply before making or breaking the connections to the battery. Do not open or disassemble the charger. Do not operate the charger if the AC supply cord or DC output cord is damaged or if the charger has received a sharp blow, been dropped, or is damaged in any way. Refer all repair work to the manufacturer or qualified personnel. This charger is not intended for use by people with reduced physical, sensory or mental capabilities, or lack of experience and knowledge on electrical systems and battery charging, unless they have been given supervision or instruction concerning use of the charger by a person responsible for their safety. The charger should be kept out of the reach of children

AVERTISSEMENT: Utilisez uniquement le chargeur avec un profil de charge adapté au type de batterie spécifique. Toute autre utilisation peut entraîner des blessures et des dommages. Les batteries au plomb peuvent produire un gaz hydrogène explosif pendant la charge normale. Tenez les étincelles, les flammes et les matières fumantes à l'écart des batteries. N'utilisez pas le chargeur dans un espace confiné ou dans un endroit à ventilation restreinte. Ne chargez jamais une batterie gelée ou non rechargeable. Respectez toutes les précautions des fabricants de batteries (par exemple, les taux de charge maximaux et la compensation de température). **DANGER:** Risque de choc électrique. Branchez le cordon d'alimentation du chargeur sur une prise secteur correctement installée et mise à la terre conformément à tous les codes et règlements locaux. Une prise secteur mise à la terre est nécessaire pour réduire le risque de choc électrique - n'utilisez pas d'adaptateurs de mise à la terre et ne modifiez pas la fiche. Ne touchez pas les parties non isolées du connecteur de sortie ni les bornes de batterie non isolées. Débranchez l'alimentation secteur avant d'établir ou de rompre les connexions avec la batterie. N'ouvrez pas et ne démontez pas le chargeur. N'utilisez pas le chargeur si le cordon d'alimentation secteur ou le câble de sortie CC est endommagé, ou si le chargeur a subi un choc violent, est tombé ou est endommagé de quelque manière que ce soit. Confiez toute réparation au fabricant ou à du personnel qualifié. Ce chargeur n'est pas destiné à être utilisé par des personnes ayant des capacités physiques, sensorielles ou mentales réduites, ou un manque d'expérience et de connaissances concernant les systèmes électriques et la charge des batteries, sauf si elles sont supervisées ou ont reçu des instructions concernant l'utilisation du chargeur par une personne responsable de leur sécurité. Le chargeur doit être tenu hors de portée des enfants.

Maintenance Instructions

- The charger is rated IP67 when used with a certified Delta Q sealed and locking AC cable
- In North America (and other 120V AC regions), the AC cord must be a 3-conductor UL Listed/CSA approved detachable cord set at least 1.8m in length(< 6 feet); minimum 16AWG SJT rated 105C, 300V; terminated with 120V or 240V, 13A-or-greater connector. For industrial applications where the AC cord may be exposed to hard usage and moisture, Delta-Q Technologies recommends a heavy-duty S- or SO-type cable, rated for 105°C (221°F) and 600V
- In Japan, the AC cord must be a 3-conductor PSE-approved detachable AC cord set terminated with a 100V, 15A or greater connector
- In 220-240VAC regions, the AC cord must be a 3-conductor safety-approved cord set with 1.0mm² conductors (minimum) rated appropriately for industrial use. The cord must be terminated on one end with a grounding-type input plug

Operating Instructions

- DO NOT open the case of the charger. Hazardous voltages inside
- DO NOT use ground adapters or remove the AC ground pin
- CAUTION: Charger enclosure may be hot during charging. Use hand protection when handling the charger while charging
- Use a heavy-gauge extension cord rated for the charger's maximum input current. Do not use a light-duty indoor extension cord. Per UL guidelines: at 120VAC, extension cords must be a 3-wire cord no longer than:
 - 30m (100ft) at 10 AWG/6.0 mm²
 - 7.5m (25ft) at 16 AWG/1.5 mm²
- On a 120V AC input, you can connect a maximum of one (1) charger to a single 15A circuit
- On a 240V AC input, you can connect a maximum of three (3) chargers to a single 15A circuit

Charger LED display

Display- Color	Indicator Type	Indication
Green	Battery charging indicator	Green Slow Pulse=Charge <80% Green Fast Pulse=Charge >80% Solid Green= Charge Complete
Blue	AC Power Indicator	Solid Blue=AC Power connected
Red	Fault Indicator	

Receptacle LED display

Display- Color	Indicator Type	Indication
Green	Battery charging indicator	Green Flash=Charging Solid Green= Charge Complete

Troubleshooting instructions

For fault and errors information please refer to [RQ700 Fault & Error](#)

APPENDIX B

RC900 CHARGER USER'S GUIDE



ELITE

RC900 ELITE Onboard Charger Original User Manual

This manual contains important safety and operating instructions for this version of the Delta-Q RC900 ELITE Onboard Charger (Part No. 944-0003) for use with E-Z-GO ELITE lithium brand vehicles (Model 673928). For manufacturer contact information and technical support, please visit <http://support.delta-q.com/>.

SAVE THESE SAFETY INSTRUCTIONS
This manual contains important safety & operating instructions. Read before using the charger.



Warning

Charge only 48V lithium-ion type batteries activated by Samsung SDI. Other types of batteries may burst causing personal injury and damage. The Samsung Battery Management System (BMS) ensures that in all operating modes, the battery cells are protected from inappropriate levels of voltage, current, temperature, and state of charge. Never charge a frozen or non-rechargeable battery. Study the battery manufacturer's specific precautions before using this charger.



Danger

Risk of electric shock. Connect charger power cord to an AC outlet that has been properly installed and grounded in accordance with all local codes and ordinances. A grounded AC outlet is required to reduce the risk of electric shock-do not use ground adapters or modify the plug. Do not touch uninsulated portions of the output connector or uninsulated battery terminals. Disconnect the AC supply before making or breaking the connections to the battery. Do not open or disassemble the charger. Do not operate this charger if the AC supply cord or DC output cord is damaged or if the charger is damaged in any way. Refer all repair work to the manufacturer, or qualified personnel. This charger is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of

experience and knowledge on electrical systems and battery charging, unless they have been given supervision or instruction concerning use of the charger by a person responsible for their safety. Children should be supervised to ensure they do not play with the charger.

Manuel d'origine de l'utilisateur du Chargeur À bord RC900 ELITE

Le présent manuel contient d'importantes consignes de sécurité et d'utilisation pour cette version du chargeur Delta-Q à bord RC900 ELITE (numéro de référence 944-0003) pour utilisation avec les véhicules de marque E-Z-GO ELITE alimentés par des batteries au lithium-ion (Modèle 673928). Pour les coordonnées et le soutien technique du fabricant, visitez <http://support.delta-q.com/>.

CONSERVEZ CES CONSIGNES DE SECURITE
Le présent manuel contient d'importantes consignes de sécurité et d'utilisation.
Lisez-les avant d'utiliser le chargeur.



Attention

Chargez uniquement les batteries au lithium-ion 48 V activées par Samsung SDI. Les autres types de batteries pourraient exploser causant des blessures corporelles et des dommages. Le système de gestion des batteries intégrées garantit que dans tous les modes de fonctionnement, les cellules de la batterie sont protégées contre les niveaux inappropriés de tension, de courant, de température et d'état de charge. Ne chargez jamais une batterie gelée ou non rechargeable. Prenez connaissance des mesures de précaution spécifiées par le fabricant de la batterie avant d'utiliser ce chargeur.



Danger

Risque de décharge électrique. Toujours connecter le cordon d'alimentation du chargeur à une prise de secteur CA proprement installée et mise à la terre conformément à tous les codes et règlements locaux. Une prise secteur CA mise à la terre est nécessaire pour réduire le risque de choc électrique - n'utilisez pas d'adaptateurs de terre et ne modifiez pas la fiche. Ne pas toucher les parties non isolées du connecteur de sortie ou les bornes non isolées de la batterie. Déconnectez la source CA avant de faire ou défaire les connexions à la batterie en chargement. Ne pas ouvrir ni désassembler le chargeur. Ne pas utiliser le chargeur si le cordon d'alimentation CA ou le cordon de sortie CC est endommagé ou si le chargeur est



abime suite à une chute ou autre incident - Referez toute de l'appareil par une personne responsable de leur
 reparation au fabricant ou aux personnes qualifiees. Cet securite. Les enfants doivent etre surveilles afin **qu'il** ne
 appareil n'est pas destine à un usage par des personnes jouent en aucun temps avec le chargeur.
 (don! les enfants) avec des facultes matrices, sensorielles
 ou mentales reduites, ou ayant une experience et des
 connaissances insuffisantes, à mains qu'elles son! sous
 la supervision ou rec;;oivent les instructions sur l'utilisation



Operating & Maintenance Instructions

- ❖ The charger may become hot during charging. Do not touch the charger when it is charging.
- ❖ To maintain safe operations, the unit automatically reduces its output power if the temperature rises above set thresholds, or if the AC input voltage is too low.
- ❖ If power is interrupted, and then returns, the charger starts and continues to operate without hazard to the user, or damage to the batteries.
- ❖ Unplug the vehicle from AC when cleaning, moving, or conducting any maintenance or repair on the vehicle. No user serviceable parts are inside the charger. Do not remove the charger or the cover due to the risk of electrical shock.
- ❖ Do not expose the charger to oil, dirt, mud, or direct heavy water spray when cleaning the vehicle or machine.
- ❖ The enclosure on these chargers meets IP66, making it protected from dust ingress and powerful water jets. The AC receptacle requires an external AC cord which is not protected against dust or water. Protect this AC connection if the charger is used in wet or dusty environments. Inspect it regularly for contamination. If the cord is in a damp location, use a Class A GFCI AC outlet.
- ❖ If the external AC input power cord is damaged, do not use the charger until it is replaced by a qualified service technician with a cord set appropriate to your region and application.
- ❖ To charge your vehicle, use a 3-wire external cord less than 30m (100') at 10 AWG or 7.5m (25') at 16 AWG, per UL guidelines.

AC Receptacle Indicators

The recommended AC receptacle is Delta-Q Part No. 900-0206 (TSV Part No. 673527). For applications outside North America, please use an approved locking and sealing connector on the RC900 Elite.

LED	Indication
Off	No AC Power. Check for AC cord damage; plug into AC power outlet; ensure AC outlet has power.
Slow Green Breathing	More than 80% state of charge.
Fast Green Breathing	Less than 80% state of charge.
Solid Green	Charge Complete
Rapid Amber Flash	Error. Unplug and plug the charger in again. If the error remains, contact a qualified service technician.
Solid Red	Fault. Unplug and plug the charger in again. If the fault remains, contact a qualified service technician.



Identifying Charger Serial Number

The serial number is printed on the front of the charger. Use this number when requesting technical support.



This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules for the United States and the ICES Regulations for Canada. These limits are



abime suite à une chute ou autre incident - Referez toute de l'appareil par une personne responsable de leur
 reparation au fabricant ou aux personnes qualifiees. Cet securite. Les enfants doivent etre surveilles afin **qu'il** ne
 appareil n'est pas destine **à** un usage par des personnes jouent en aucun temps avec le chargeur.
 (don! les enfants) avec des facultes matrices, sensorielles
 ou mentales reduites, ou ayant une experience et des
 connaissances insuffisantes, **à** mains qu'elles son! sous
 la supervision ou rer;oivent les instructions sur l'utilisation

APPENDIX C

E-Z-GO ELITE CHARGER USER'S GUIDE

ELiTE

Lithium Golf Cart Battery Charger



Chargeur de batterie au lithium pour chariot de golf

E-Z-GO ELiTE Charger Original User Manual

This manual contains important safety and operating instructions for these versions of the Delta-Q ELiTE Charger (Part Nos. 958-0001, 958-0002, 958-0003, and 958-0004) for use with E-Z-GO ELiTE lithium brand vehicles. Read this information in its entirety before using your ELiTE Charger. For manufacturer contact information and technical support, visit <http://support.delta-q.com/>.

SAVE THESE SAFETY INSTRUCTIONS This manual contains important safety & operating instructions. Read before using the charger.



Warning

Charge only 48V lithium-ion type batteries activated by Samsung SDI. Other types of batteries may burst causing personal injury and damage. Never charge a frozen battery. Study the battery manufacturer's specific precautions before using this charger.



Danger

Risk of electric shock. Connect charger power cord to an AC outlet that has been properly installed and grounded in accordance with all local codes and ordinances. A grounded AC outlet is required to reduce risk of electric shock - do not use ground adapters or modify the plug. Do not touch uninsulated portions of the output connector or uninsulated battery terminals. Disconnect the AC supply before making or breaking the connections to the battery. Do not open or disassemble the charger. Do not operate the charger if the AC supply cord or DC output cord is damaged or if the charger has received a sharp blow, been dropped, or is damaged in any way. Refer all repair work to the manufacturer or qualified personnel. This charger is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge on electrical systems and battery charging, unless they have been given supervision or instruction concerning use of the charger by a person responsible for their safety. Children should be supervised to ensure they do not play with the charger.

Manuel d'origine de l'utilisateur du Chargeur E-Z-GO ELiTE

Le présent manuel contient d'importantes consignes de sécurité d'utilisation pour ces versions du Chargeur Delta-Q ELiTE (numéros de référence 958-0001, 958-0002, 958-0003, et 958-0004) pour utilisation avec les véhicules de marque E-Z-GO ELiTE alimentés au lithium. Lisez en entier les informations fournies avant d'utiliser le Chargeur ELiTE. Pour les coordonnées et le soutien technique du fabricant, visitez <http://support.delta-q.com/>.

CONSERVEZ CES CONSIGNES DE SECURITE Le présent manuel contient d'importantes consignes de sécurité et d'utilisation. Lisez-les avant d'utiliser le chargeur.



Mise en garde

Chargez uniquement les batteries au lithium-ion 48 V activées par Samsung SDI. Les autres types de batteries pourraient exploser causant des blessures corporelles et des dommages. Ne chargez jamais une batterie gelée. Prenez connaissance des mesures de précaution spécifiées par le fabricant de la batterie avant d'utiliser ce chargeur.



Danger

Risque de choc électrique. Branchez le cordon d'alimentation du chargeur à une prise CA qui a été correctement installée et mise à la terre conformément à tous les codes et règlements locaux en matière d'électricité. Une prise CA mise à la terre est requise pour réduire les risques d'électrocution; n'utilisez pas d'adaptateurs de terre ou ne modifiez pas la fiche. Ne touchez pas la partie non isolée du connecteur de sortie ou les bornes de la batterie non isolées. Débranchez l'alimentation CA avant d'effectuer ou de rompre les connexions à la batterie. N'ouvrez pas ou ne démontez pas le chargeur. N'utilisez pas le chargeur si son cordon d'alimentation CA ou son cordon de sortie CC est endommagé ou si le chargeur a reçu un coup violent, s'il est tombé ou s'il a été endommagé de quelque façon que ce soit. Le chargeur ne doit être réparé que par le fabricant ou du personnel qualifié. Ce chargeur n'est pas conçu pour être utilisé par des personnes (y compris les enfants) ayant des capacités physiques, sensorielles ou mentales réduites, ou n'ayant pas d'expérience et de connaissances des systèmes électriques et de la charge de batteries, à moins qu'une personne responsable de leur sécurité ne les supervise ou ne leur ait fourni les consignes d'utilisation. Les enfants doivent être supervisés pour s'assurer qu'ils ne jouent pas avec le chargeur.

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3755 Willingdon Avenue Burnaby, BC V5G 3H3 CANADA
(PN: 710-0240 Rev 2 Date: 10/14/2020)

Maintenance Instructions

1. The enclosure on all charger models meets IP56, making it protected from dust ingress and powerful water jets. The AC connection on the 958-0002 and 958-0004 models requires an external AC cord and is rated to IP20, which is not protected against dust or water. Protect this AC connection if the charger is used in wet or dusty environments and inspect it regularly for contamination.
2. If the AC power supply cord is damaged:
 - The 958-0001 and 958-0003 charger models have an integral AC cord for connection to North American outlets operating at 120 Volts nominal. If this AC power supply cord is damaged, do not use the charger and send it to a qualified service technician for repair.
 - The 958-0002 and 958-0004 charger models have a 7-inch (185mm) AC cord terminated with an IEC 320 C14 plug. If this AC power supply cord is damaged, do not use the charger and send it to a qualified service technician for repair. If the mating AC cord to the wall outlet is damaged, replace it with a 6 feet (1.83 meter) long UL/CSA approved AC cord with a grounded IEC 320 C13 socket rated 250V, 13A minimum on the charger side and an approved 3-prong grounded plug compatible with the local AC power outlet (110VAC to 240VAC). If the 3-prong grounded plug does not fit the local AC power outlet, contact E-Z-GO or Delta-a Technologies for the proper cord for the local AC power outlet.

For regions with 220-240V mains supply, select a safety approved AC cord, 3-conductor, 1.0mm² minimum, rated appropriately for industrial use. The cord must be terminated on one end with a grounded input connector appropriate for the AC power in the country of destination and, on the charger end, a grounding type IEC 320 C13 socket.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC/ICES Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

Mounting Instructions

The charger can be mounted horizontally or vertically with the cables and LED indicators pointing downward. Five (5) robust mounting points are cast into the charger's aluminum enclosure and another mounting hole in the center of the handle. The charger can be screwed to a table or wall with the four (4) slotted mounting holes, two (2) on each side using M6 or ¼-inch fasteners. A vertical mounting from the single cast keyhole mounting slot opposite the cables is possible using a suitable 8 or 10mm or 3/8-inch J-hook. A suspended horizontal mounting is achieved using a ceiling secured 5/16-inch threaded rod secured with nuts above and below the handle.

Consignes d'entretien

1. Le boîtier en tout modèles de chargeur est conforme à la norme IP56, le protégeant ainsi contre l'infiltration de poussière et les jets d'eau puissants. Le branchement CA sur les modèles 958-0002 et 958-0004 nécessite un cordon CA externe et est conforme à la norme IP20, qui n'offre pas de protection contre la poussière ou l'eau. Protégez ce branchement CA si le chargeur est utilisé dans un environnement humide ou poussiéreux et inspectez le régulièrement pour détecter toute contamination.
2. Si le cordon d'alimentation CA est endommagé :
 - Les modèles de chargeur 958-0001 et 958-0003 sont équipés d'un cordon CA intégré pour le branchement sur les prises en Amérique du Nord fonctionnant à une tension nominale de 120 volts. Si ce cordon d'alimentation CA est endommagé, n'utilisez pas le chargeur et envoyez-le à un technicien de service qualifié pour la réparation.
 - Les modèles de chargeur 958-0002 et 958-0004 sont équipés d'un cordon d'alimentation CA de 7 pouces (185 millimètre) se terminant par une fiche IEC 320 C14. Si ce cordon d'alimentation CA est endommagé, n'utilisez pas le chargeur et envoyez-le à un technicien de service qualifié pour la réparation. Si le cordon d'alimentation CA d'accouplement à la prise murale est endommagé, remplacez-le par un cordon d'alimentation CA approuvé UL/CSA de 6 pieds (1,83 m) de longueur avec une prise IEC 320 C13 reliée à la terre fonctionnant à une tension nominale de 250 V, 13A minimum au côté chargeur et une fiche mise à la terre approuvée à 3 broches compatible avec la prise de courant CA locale (110 V c.a. à 240 V c.a.). Si la fiche mise à la terre à 3 broches ne convient pas à la prise de courant CA locale, communiquez avec E-Z-GO ou Delta-a Technologies pour connaître le cordon approprié pour la prise de courant CA locale.
 - Pour les régions utilisant une alimentation secteur 220-240 V, sélectionnez un cordon d'alimentation CA approuvé, à 3 conducteurs, 1,0 mm² minimum, évalué de façon appropriée pour une utilisation industrielle. Le cordon doit se terminer, à une extrémité, par un connecteur d'entrée mis à la terre approprié pour l'alimentation CA dans le pays de destination et, à l'autre extrémité du chargeur, par une fiche IEC 320 C13 mise à la terre.

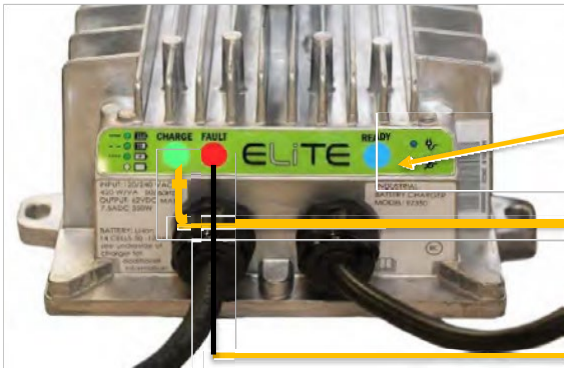
REMARQUE: cet équipement a été testé et déclaré conforme aux limites pour appareils numériques de classe B, selon la section 15 des règlements de la FCC et de l'ICES. Ces limites sont destinées à assurer une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Cet équipement produit, utilise et peut émettre de l'énergie radio électrique et, s'il n'est pas installé et utilisé conformément aux présentes instructions, peut causer des interférences nuisibles aux communications radio.

Instructions de montage

Le chargeur peut être monté à l'horizontale ou à la verticale avec les câbles et les indicateurs DEL orientés vers le bas. Cinq (5) points de montage robustes sont moulés dans le boîtier en aluminium du chargeur et un autre trou de montage se trouve dans le centre de la poignée. Le chargeur peut être vissé sur une table ou un mur avec les quatre (4) fentes de montage, deux (2) de chaque côté, à l'aide d'attaches M6 ou de 1/4 de pouce. Un montage vertical à partir de la fente de montage en forme de trou de serrure à l'opposé des câbles est possible à l'aide d'un crochet en J approprié de 8 ou de 10 mm ou de 3/8 po. Un montage horizontal suspendu se réalise à l'aide d'une tige filetée de 5/16 po fixée au plafond avec des écrous au-dessus et en dessous de la poignée.

Operating Instructions

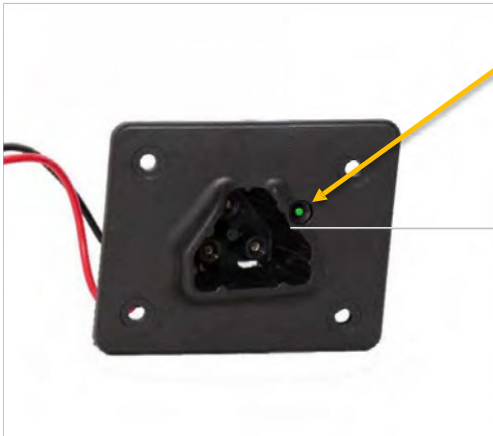
- CAUTION:** The charger enclosure may be hot during charging. Use hand protection if handling the charger while charging.
- ◇ The extension cord must be a 3-wire cord less than 30m (100') at 10AWG or 7.5m (25') at 16AWG per UL guidelines.
 - ◇ If you are connecting four (4) ELITE Chargers to a single 120V mains circuit, a 20A circuit is recommended.



Charger Indicators

Indicator	Indication
AC Indicator Blue Light	If solid, AC power is present.
Charger Status Indicator Green Light	- If solid, charging is complete. - If slow breathing, it is more than 80% charged. - If fast breathing, it is less than 80% charged.
Fault Indicator Red Light	Charger error. Refer to <i>Troubleshooting Instructions</i>.

Note: The charger will flash green when the lithium Battery Management System (BMS) is in wakeup mode.



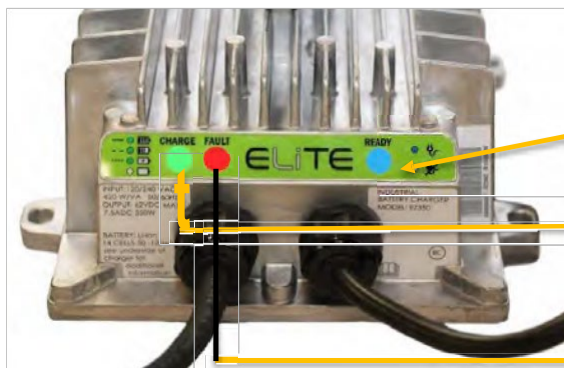
DC Receptacle Indicators

LED	Indication
Solid	Charging is complete.
Slow Flash	More than 80% state of charge.
Fast Flash	Less than 80% state of charge.
Off	See charger indicators for status.

Mode d'emploi

MISE EN GARDE : Le boîtier du chargeur peut devenir chaud pendant le chargement. Utilisez une protection pour les mains si vous manipulez le chargeur pendant le chargement.

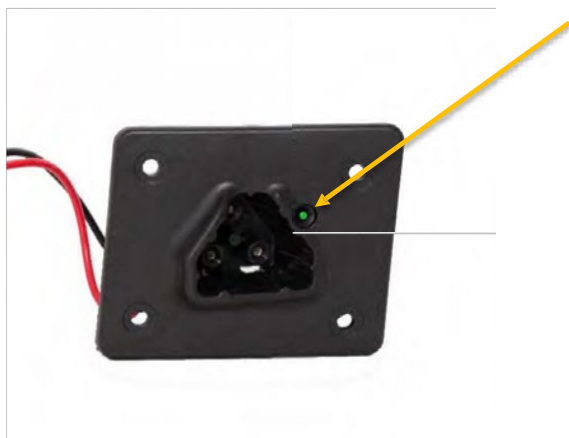
- ◇ La rallonge électrique doit être un cordon à 3 fils de moins de 30 m (100 pi) de long à 10 AWG ou 7,5 m (25 pi) à 16 AWG selon les directives UL.
- ◇ Si vous connectez **quatre (4) chargeurs ELITE** à un seul circuit de 120V, un circuit de 20 A est recommandé.



Indicateurs du chargeur

Indicateur	Indication
● Indicateur CA Voyant bleu	Si constant, il y a une alimentation CA.
● Indicateur de l'état du chargeur Voyant bleu	- Si constant, la charge est terminée. - Si la pulsation est lente, la batterie est chargée à plus de 80%. - Si la pulsation est rapide, la batterie est chargée à moins de 80%.
● Indicateur de défaut Voyant rouge	Erreur du chargeur. Consultez les <i>Instructions de dépannage</i> .

Remarque : le chargeur clignotera en vert lorsque le système de gestion de la batterie au lithium est en mode d'éveil.



Indicateurs de prise de courant CC

DEL	Indication
Constant	La charge est terminée.
Clignotement lente	Charge de plus de 80%.
Clignotement rapide	Charge de moins de 80%.
Eteint	Voir les indicateurs du chargeur pour l'état.

Troubleshooting Instructions

If a fault occurs, count the number of red flashes between pauses and refer to this table:

Flashes	Cause	Solution
(Dff-ID)	The lithium battery pack issued a fault indicating a wiring or charger hardware issue.	Check the green DC paddle and receptacle for damage, corrosion, and ensure it is properly inserted. Reset the charger by interrupting AC power for 15+ seconds. If the fault returns, contact E-Z-GO Customer Care.
	The charge time or amp-hour limit was exceeded.	Check the green DC paddle and receptacle for damage, corrosion, and ensure it is properly inserted. Ensure the charger has sufficient cooling airflow in ambient temperatures below 40°C; if in the sun, move to the shade. Reset the charger by interrupting AC power for 15+ seconds. If the fault returns, contact E-Z-GO Customer Care.
	The lithium battery pack shut down charging and issued a fault.	Reset the lithium battery pack by turning the ignition and tow mode off, remove the green charger paddle from the receptacle, wait 5+ seconds, re-insert the paddle. If the fault returns, contact E-Z-GO Customer Care.
	Internal charger fault	Reset the charger by interrupting AC power for 15+ seconds. If the fault returns, contact E-Z-GO Customer Care.

Instructions de dépannage

S'il survient une erreur, comptez le nombre de clignotements rouges entre les pauses et reportez-vous au tableau suivant :

Clignotement	Cause	Solution
(D-H-ID)	Le bloc-batterie au lithium a émis un défaut indiquant un problème de câblage ou de matériel du chargeur.	Vérifiez la palette CC verte et la prise pour vous assurer qu'il n'y a pas de dommage ou de corrosion et assurez-vous qu'elle est bien insérée. Reinitialisez le chargeur en interrompant l'alimentation CA pendant 15 secondes ou plus. Si le défaut revient, communiquez avec le service à la clientèle E-Z-GO.
	La limite de temps de charge ou d'ampères par heure a été dépassée.	Vérifiez la palette CC verte et la prise pour vous assurer qu'il n'y a pas de dommage ou de corrosion et assurez-vous qu'elle est bien insérée. Assurez-vous que le chargeur a suffisamment de circulation d'air de refroidissement dans les températures ambiantes inférieures à 40° C. Si le chargeur est au soleil, mettez-le à l'ombre. Reinitialisez le chargeur en interrompant l'alimentation CA pendant 15 secondes ou plus. Si le défaut revient, communiquez avec le service à la clientèle E-Z-GO.
	Le bloc-batterie au lithium a arrêté la charge et a émis un défaut.	Reinitialisez le bloc-batterie au lithium en coupant l'allumage et en désactivant le mode de remorquage, enlevez la palette verte du chargeur de la prise, attendez 5 secondes ou plus et reinsérez la palette. Si le défaut revient, communiquez avec le service à la clientèle E-Z-GO.
	Défaut interne du chargeur	Reinitialisez le chargeur en interrompant l'alimentation CA pendant 15 secondes ou plus. Si le défaut revient, communiquez avec le service à la clientèle E-Z-GO.

**E-2-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**

Operating, servicing and maintaining a passenger vehicle or off-road vehicle can expose you to chemicals including phthalates and lead, which are known to the State of California to cause cancer and birth defects or other reproductive harm. To minimize exposure, wear gloves and wash your hands frequently when servicing your vehicle.

For more information go to www.P65Warnings.ca.gov/passenger-vehicle

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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