

OWNER'S MANUAL Shuttle 6 ELITE

10006654 - A ISSUED MARCH 2020



Read and comply with all of the instructions and safety precautions in this manual and on all product labels.

Failure to follow the safety precautions could result in serious injury or death.

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.



Never modify the vehicle in any way that will alter the weight distribution of the vehicle, decrease its stability or increase the speed beyond the factory specifications. Such modifications can cause serious personal injury or death. The manufacturer, TEXTRON SPECIALIZED VEHICLES (TSV Augusta), prohibits and disclaims responsibility for any such modifications or any other alteration which would adversely affect the safety of the vehicle.

OWNER'S MANUAL

Shuttle 6 ELiTE

Starting MODEL YEAR 2020

MANUFACTURER INFORMATION Textron Specialized Vehicles, Inc.

1451 Marvin Griffin Road Augusta, Georgia, USA 30906-3852

www.cushman.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 repair 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.

Printed in USA

INTRODUCTION

MANUFACTURER'S INTENDED USE	7
WARRANTY AND REGISTRATION	7
BATTERY PROLONGED STORAGE	7
Setting State of Charge (SOC)	8
During Storage	8
Extreme Low Temperature Storage	8
Returning Vehicle to Service	8
BATTERY DISPOSAL	8
VEHICLE IDENTIFICATION NUMBERS	9
REPAIR AND PARTS MANUALS	9
SAFETY LABELS	
SAFETY LABELS	11
Operation (P/N 662185)	11
Run/Tow Switch Operation (P/N 679115)	11
Pinch Warning (P/N 651671)	11
Battery Warning (P/N 655748)	12
Rear-Facing Seat / Load Deck Warning (610631)	12
Operation Instructions (CE Vehicles Only) (66186)	13
Anti-Rollback Warning (74443G01)	13
SAFETY	
MAXIMUM CARGO LOAD / MAXIMUM WEIGHT CAPACITY	15
TIRE PRESSURE	
OPERATOR SAFETY	15
Unauthorized Operation	
Operating without Instruction	16
Alcohol or Drugs	16
Passenger	
Before Operating	16
Load Operation	
Driving in Reverse	17
Driving a Damaged Vehicle	17
Driving at Maximum Speeds	17
Driving on Pavement	17
Driving on Public Roads	17
Turning	17
Driving Uphill	17
Driving Downhill	17
Stalling on a Hill	17
Tires	18
Slippery Terrain	18
BATTERY CHARGING	18
VEHICLE LIFTING	
VEHICLE MODIFICATION	•
MAINTENANCE SAFETY	19
FEATURES AND CONTROLS	
KEY SWITCH	21

TABLE OF CONTENTS

STATE OF CHARGE METER	21
CUP HOLDER	21
HEADLIGHT SWITCH	21
HORN	21
USB PORT	21
STEERING WHEEL	21
BRAKE PEDALS	21
Brake Pedal	22
Parking Brake Pedal	22
ACCELERATOR PEDAL	22
HIP RESTRAINTS	22
SEAT BOTTOM	22
GLOVE BOX / STORAGE COMPARTMENTS	22
CHARGER RECEPTACLE	22
CANOPY TOP AND WINDSHIELD	22
FLIP SEAT/LOAD DECK	23
OPERATION	
SAFETY	25
BEFORE INITIAL USE	25
PRE-RIDE INSPECTION	25
ENVIRONMENTAL AWARENESS	25
BATTERY CHARGER	26
PERFORMANCE FEATURES	26
Speed Control	26
Pedal-Up Braking	26
Walk-Away Feature	26
Anti-Roll Back Feature	27
Anti-Stall Feature	27
High Pedal Disable Feature	27
Diagnostic Mode Feature	
STARTING AND STOPPING THE VEHICLE	27
Starting on a Hill	27
ACCELERATING	28
BRAKING	28
Coasting	28
DRIVING WITH A PASSENGER	28
SLIPPERY SURFACES	29
DRIVING UPHILL	29
TRAVERSING HILLSIDES	29
DRIVING DOWNHILL	29
STALLING ON A HILL	30
DRIVING IN REVERSE	30
PARKING THE VEHICLE	30
HAULING CARGO	31
Maximum Cargo Load / Maximum Weight Capacity	31
FLIP SEAT/ LOAD DECK OPERATION	32

TABLE OF CONTENTS

MAINTENANCE SAFETY	33
SCHEDULED MAINTENANCE	33
Severe Use Conditions	33
SCHEDULED MAINTENANCE CHART	34
RECOMMENDED LUBRICANTS AND FLUIDS	35
REPLACEMENT OF MAINTENANCE ITEMS	35
LIFTING THE VEHICLE	
Lifting Front	36
Lifting Rear	36
Lowering Vehicle	36
VEHICLE CLEANING AND CARE	37
Washing the Vehicle	37
Polishing the Vehicle	37
TIRES	37
Tire Pressure	
Tire Repair	38
Tire Replacement	38
WHEELS	38
Wheel Removal	38
Wheel Installation	
LIGHTS	
LED Headlight Assembly Replacement	
Brake Light	
FUSE REPLACEMENT	
CONTROLLER SYSTEM TEST	40
REAR AXLE	
Checking the Lubricant Level	41
LUBRICATION	41
BRAKES	42
Periodic Brake Test	42
LITHIUM-ION BATTERY PACK	
BATTERY CHARGING AND MAINTENANCE	
BATTERY CHARGING	44
BATTERY PROLONGED STORAGE	
Storage Preparation	44
TRANSPORTING THE VEHICLE	45
Hauling the Vehicle	
Towing the Vehicle	45
SPECIFICATIONS	
CHILITLE CELITE VEHICLE OPECIFICATIONS	47

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

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

A WARNING

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

A CAUTION

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



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

MANUFACTURER'S INTENDED USE

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

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

WARRANTY AND REGISTRATION

A vehicle warranty statement is included with the purchase of a new vehicle.

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 governor to allow the vehicle to operate above factory specifications will void the vehicle warranty.

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

BATTERY PROLONGED STORAGE

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

INTRODUCTION

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 module. 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, indicating the charge
 cycle is complete.
 - In hot climates, store the vehicle with a 30% to 50% charge of battery pack capacity.
- · Turn the key to the OFF position and remove it from the key switch.
- Check the run tow switch under the seat, make sure it is set in the TOW/STORAGE 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)

The optional SOC meter or the hand held programmer may be used to determine 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%.

During Storage

Check the state of charge every 30 days. If the SOC is below 30%, charge the battery module 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 key to the ON position
- · drive the vehicle
- · tow the vehicle
- · charge the vehicle
- · operate accessories
- · turn the lights on (if equipped)

Returning Vehicle to Service

At the end of the storage period, charge the battery module 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.

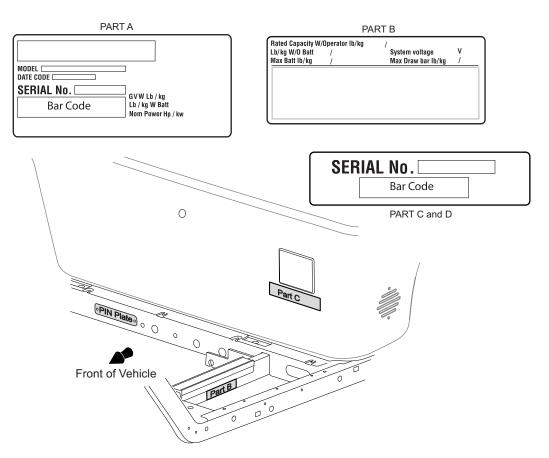
BATTERY DISPOSAL



Lithium-lon batteries are recyclable:

- Contact the distributor or manufacturer for information on returning or recycling used or damaged battery packs.
- •Contact local or state environmental department for disposal information.
- •Refer to the Maintenance section for additional information.

VEHICLE IDENTIFICATION NUMBERS



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

Vehicle Model Number:		
Frame PIN:		

REPAIR AND PARTS MANUALS

The following manuals can be purchased through your dealer:

- · repair manual
- parts manual

SAFETY LABELS

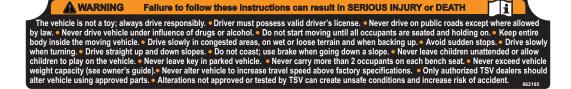
SAFETY LABELS

Safety and warning labels are on the vehicle for your protection. Read carefully and comply with the 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. The part number is provided in this manual, printed on the label, or can be obtained from your dealer.

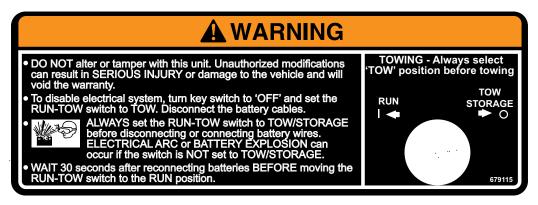
Operation (P/N 662185)

Located on the dash panel.



Run/Tow Switch Operation (P/N 679115)

Located on the run/tow switch.



Pinch Warning (P/N 651671)

Located on the rear facing seat weldment for vehicles with a rear facing seat option.



Battery Warning (P/N 655748)

Located on the battery cover.



Rear-Facing Seat / Load Deck Warning (610631)

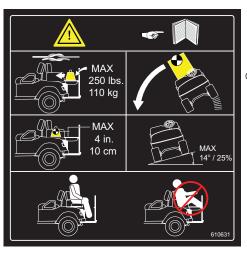
Located on the rear-facing seat handle.



SECURE LOAD AS FAR FORWARD AS POSSIBLE MAX CARGO WEIGHT

LOAD CENTER OF GRAVITY MAX LOAD HEIGHT

> REMAIN SEATED WITH FEET ON FLOOR AND HOLD ONTO HAND RAILS

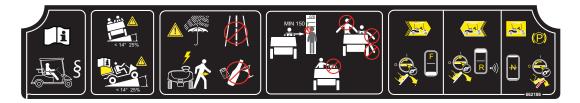


LOAD WITH HIGH CENTER OF GRAVITY COULD CAUSE TIP OVER

AVOID CROSSING SIDE OF STEEP HILLS MAX GRADE

Operation Instructions (CE Vehicles Only) (66186)

Located on the right side of the dash.



Anti-Rollback Warning (74443G01)

Located on the left side of the dash.



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

MAXIMUM CARGO LOAD / MAXIMUM WEIGHT CAPACITY



Exceeding the weight capacities can cause the loss of vehicle control and possible injury or death.

Maximum Vehicle Weight Capacity	1200 lb (544 kg)
Maximum Load Deck Capacity	250 lb (113 kg)

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

TIRE PRESSURE



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

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

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

OPERATOR SAFETY

Safe and responsible use of this vehicle is necessary to prevent dangerous conditions for the operator, passengers and other people in the area of operation. This section of the manual provides information on the 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.



Serious injury or death can occur if you do not follow the instructions and procedures shown in this owner's manual.

- Read this entire manual and all product labels carefully. Follow the safety information and operating procedures
 described.
- Operate your vehicle responsibly to prevent dangerous conditions for the operator, passengers and other people in the area of operation
- Operate the vehicle responsibly and keep the vehicle in safe condition of operation.
- A damaged vehicle or a vehicle that is not functioning properly is dangerous and must not be operated until repairs
 are made
- Do not carry a passenger 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 both feet on the floor or pedals.
- Inspect the vehicle before each use to make sure it is in safe operating condition. Perform the pre-ride inspection described in this manual. See page 25.
- Always have the vehicle checked by an authorized dealer if it is involved in an accident.
- Always put the direction selector in forward (F) and engage the parking brake before you exit the vehicle.
- Remove the ignition key when the vehicle is not in use to prevent accidental starting, unauthorized use by someone below the age of 16, or someone without a driver's license and proper training.
- Drive the vehicle at appropriate speeds for the terrain and conditions. Be aware of environmental conditions that change the terrain and your ability to control the vehicle.

- · Do not drive on excessively steep hills. Evaluate the terrain before descending a hill. Drive slowly and deliberately. Use the brake to limit speed and maintain control. Sudden braking or turning can cause the loss of vehicle control. Drive straight down the hill. Do not drive across the hill.
- Operate only in approved areas. Follow all applicable safety rules for the area.
- Avoid driving on terrain that is too rough for your vehicle's capabilities and your driving skills.
- Before you drive in the reverse direction, 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 the speed before and during turns.
- Decrease the speed when driving on wet or slippery surfaces.
- Bring the vehicle to a complete stop before moving the direction selector.
- Do not exceed the cargo or vehicle weight capacities. Do not exceed the occupant capacity. See SPECIFICA-TIONS on page 47 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.



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 section of the owner's manual. See the OPERATION section of the owner's manual for operating procedures and additional safety information.

Unauthorized Operation



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

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

Any person who is below the height of 59 in. (150 cm) is not permitted to operate the vehicle.

Leaving the keys in the ignition allows unauthorized operation of the vehicle by someone under 16 years of age, an unlicensed driver or someone who does not meet the height requirement. Always remove the ignition key when the vehicle is not in operation.

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 terrain.

All operators must read, understand, and comply with 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.

Passenger

All passengers must be at least 59 in. (150 cm) tall. Passengers must be able to sit with their back against the seat. and both feet on the floor.

For additional safety and operational information, see Driving with a Passenger on page 28.

Before Operating

Perform the PRE-RIDE INSPECTION on page 25 before each use to make sure 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.

Follow all inspection and maintenance procedures and schedules described in this owner's manual. See SCHED-ULED MAINTENANCE on page 33.

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 weight capacities specified for your vehicle. Capacities are listed in *Maximum Cargo Load / Maximum Weight Capacity* on page 15 of this manual, and also on the label affixed to rear hand rail. As passenger weight increases, cargo weight needs to be adjusted to ensure the maximum vehicle weight capacity is not exceeded.

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

Verify tire pressure, and 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

Driving in Reverse

Make sure the area behind the vehicle is clear before operating in reverse. After making sure it is clear and safe to operate in reverse, accelerate slowly. Avoid making sharp turns in reverse. Refer to *Driving in Reverse* on page 30 for operational information.

Driving a 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.

Driving at Maximum Speeds

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 control speed and maintain control of the vehicle.

Driving on Pavement

Driving the vehicle on paved surfaces can affect handling characteristics and increase tire wear.

If possible, avoid driving on paved surfaces. If unavoidable, drive slowly, travel short distances, and avoid sudden turns or stops.

Driving on Public Roads

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

Turning

Improper or careless turning can cause loss of traction, loss of control, accident, or rollover. Do not turn quickly or at sharp angles. Do not turn at high speeds. Practice turning at slow speeds before attempting to turn at faster speeds.

Driving Uphill

Do not climb hills that are too steep for the vehicle or your driving abilities. Loss of vehicle control or rollover can result from climbing hills incorrectly. Refer to *Driving Uphill* on page 29 for operational information.

Driving Downhill

Inspect the terrain before descending a hill. Avoid driving across hills. 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 29 for operational information.

Stalling on a Hill

A rollover can result from stalling or rolling backward while climbing a hill. Drive uphill at a constant speed. See procedure on page 30 for maintaining control of your vehicle if it stalls on a hill.

Tires

Operating the vehicle with the incorrect tires or with the incorrect or 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 Specification for proper tire type and size. Always maintain the correct tire pressures as specified in *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 the correct turning procedures when operating on slippery surfaces.

Tires that have lost traction and then regain traction suddenly can cause loss of vehicle control or rollover.

Refer to Slippery Surfaces on page 29 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 pack may be charged or topped off after every use.

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.

Charge Rate	Temperature
NO charging	below 14° F (-10°C) or above 140°F (60°C)
Pre-charge (charge at reduced rate, 6 amps)	between 14°F (-10°C) and 41°F (5°C) between 104°F (40°C) and 140°F (60°C)
Full charging	between 37.4°F (3°C) and 107.6°F (42° C)

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

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

- Turn the key to the OFF position and remove it.
- · Inspect the charger cord for cracks, frayed wires or loose connections, if damaged, replace it.
- Inspect the vehicle charger receptacle and charger plug for dirt, debris or damage. Clean if necessary and replace immediately if damage is found.
- Connect the charger to a wall receptacle. Do not use a multi-plug adapter or power strip. Do not connect anything else to the same receptacle.
- 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.

VEHICLE LIFTING

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. Do not get under a vehicle until you verify that it is stable on the jack stands. 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 to remain or get on the vehicle at any time during the lifting process.

Read and comply with all warnings and follow the lifting procedures described on page 36.

VEHICLE MODIFICATION



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

Do not install any accessory not approved by the manufacturer. Do not modify the vehicle to increase the 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 the original (or equivalent) replacement parts are not installed on the vehicle.

The addition of some accessories can change the handling characteristics of the vehicle. Use only approved accessories, and familiarize yourself with their function and effect on the vehicle.

MAINTENANCE SAFETY

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



Serious injury or death can occur if the instructions and procedures shown in this owner's manual are not followed.

- Read this entire manual and all product labels carefully. Follow the procedures and comply with the safety information in this manual while performing vehicle service or maintenance.
- Use the tools shown in the tool list and wear the specified safety equipment when performing vehicle service or maintenance
- · Remove all jewelry before servicing the vehicle.
- · Do not allow loose clothing or hair to contact the moving parts.
- · Do not touch hot objects.
- The drive wheels must be lifted and supported on jack stands before performing any service to the power-train while the motor is in operation.
- Use wheel chocks and support the vehicle on jack stands. NEVER get under a vehicle that is supported by a jack.
 Lift the vehicle following the instructions. See LIFTING THE VEHICLE on page 36.



- •When servicing the vehicle, always wear eye protection. Be careful when working around batteries, using solvents, or compressed air.
- •Use insulated tools within the battery area to prevent sparks or battery explosion.
- •To prevent the risk of battery explosion, keep all flammable materials, open flames or sparks away from the battery.
- Maintain constant awareness that some components are heavy, spring loaded, corrosive, explosive, can cause high amperage, or get extremely hot. Keep your hands, face, feet, and body away from any area that can expose them to injury in the event that an unexpected situation occurs.
- After making repairs or performing maintenance, test the vehicle in a safe area that is free from vehicle and person traffic.

FEATURES AND CONTROLS

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

KEY SWITCH

- Located on the dash panel, the key switch controls the basic electrical system of the vehicle. The switch has four positions; OFF, R, N, and F.
- · OFF; vehicle is disabled.
- R; activates vehicle electronics and accessory power and puts the vehicle in reverse.
- N; activates vehicle electronics and accessory power and puts the vehicle in neutral.
- F; activates vehicle electronics and accessory power and puts the vehicle in forward.

STATE OF CHARGE METER

The state of charge meter is on the dash panel beside the key switch. It indicates the amount of usable power in the batteries, with F indicating a full charge on the battery pack and E indicating low charge. The yellow light indicates the batteries must be charged immediately.

CUP HOLDER

The vehicle has a center cup holder that will accommodate four beverage containers.

HEADLIGHT SWITCH

The LED headlight switch is a three-position switch.

Three-position:

- upper high beam
- · middle low beam
- lower off

HORN

The horn button is on the control panel. Activate the horn by moving the right rocker switch to the up position.

USB PORT



Excessive use of accessories that are connected to the outlet can drain the battery.

A USB port is located on the control panel.

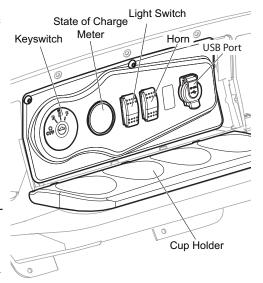
With the key switch in the ON position, the USB port supplies power for electronic devices via a USB cable.

STEERING WHEEL

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

BRAKE PEDALS

The brake pedal on vehicles with mechanical brakes is a combination brake and parking brake pedal.



FEATURES AND CONTROLS

Brake Pedal

The brake pedal is the bottom left pedal on the floorboard.

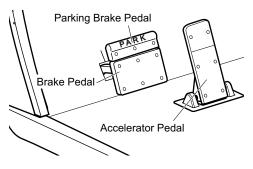
Press the brake pedal to slow the speed or bring the vehicle to a complete stop.

Parking Brake Pedal

The parking brake is the upper pedal. It allows the operator to lock the brake when the vehicle is parked to prevent accidental movement.

To engage the parking brake, press the upper pedal until it locks into place.

Quickly press and release the lower pedal to disengage.



NOTICE: If the key switch is in the ON position and the parking brake is engaged, the brake will release when you press the accelerator pedal and can cause the vehicle to move suddenly. This is a feature to make sure the vehicle is not driven with the parking brake engaged. Pressing the accelerator pedal is not the recommended method to release the parking brake.

ACCELERATOR PEDAL

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

Apply slow and steady pressure to the accelerator pedal to increase vehicle speed.

HIP RESTRAINTS

The hip restraints are designed to help keep the occupants properly positioned in the event of a sudden vehicle position change. Make sure that all passengers are seated and holding onto the hip restraint.

SEAT BOTTOM

The bench seat is designed for two occupants.

Lift up on either hip restraint to pivot the seat bottom forward and access the components underneath. Pivot and lift up on the seat to completely remove it from the vehicle before operating the vehicle.

GLOVE BOX / STORAGE COMPARTMENTS

The glove box provides storage space for small items. Glove boxes may be equipped with optional shelf and/or glove box doors.

CHARGER RECEPTACLE

The polarized charger receptacle is located on the panel below the driver seat. Make sure the receptacle is free from dirt and debris before connecting the charger cord.

CANOPY TOP AND WINDSHIELD



The canopy top does not provide protection from rollover or falling objects.

The windshield does not provide protection from tree branches or moving objects.



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

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

This vehicle is not equipped with seat belts, and the canopy top is not designed to provide rollover protection. In addition, the canopy top does not protect against falling objects, nor does the windshield protect against flying objects and tree limbs.

FLIP SEAT/LOAD DECK

The vehicle is equipped with a feature that functions as a flip seat or a load deck.

When in the upright position, it is a rear seat for two passengers. The seat flips down to form a load deck.



Always fill the forward seating capacity prior to seating any passengers on the rear flip seat.



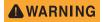
Rear passengers must stay in the seat and hold both hip restraints and the rear hand hold when the vehicle is in motion. Always make sure that all passengers are seated and holding on before operating the vehicle.

Do not allow passengers to ride on the load deck. A sudden move or stop can cause severe injury or death to passengers on the load deck.



OPERATION

SAFETY



Failure to operate the vehicle correctly can result in a collision, loss of control, accident or rollover, 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.

BEFORE INITIAL USE

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

- · Remove the protective plastic from the seats.
- · Check for possible leaks that may have developed during shipment of the vehicle.
- · Charge batteries.
- · Perform the following pre-ride inspection.

PRE-RIDE INSPECTION

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

Item	Check	Page
Batteries	Check charge level	
Brake system/pedal travel	Check for proper operation.	42
Parking brake	Ensure vehicle does not roll when the parking brake is engaged.	
Front suspension	Inspect. Lubricate if necessary. Check for loose or missing hardware.	
Rear suspension	Inspect. Lubricate if necessary. Check for loose or missing hardware.	
Steering	Check for smooth and free operation.	
Tires	Check condition and pressure.	37
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.	
Reverse warning alarm	Check operation.	
Headlights	Check operation.	39
Brake light / taillights	Check operation.	39

ENVIRONMENTAL AWARENESS



When driving the vehicle, be careful of potential environmental hazards like steep slopes, rocks, tree branches, etc. that could cause an incident that could result in vehicle damage, personal injury or death.



There is a risk of fire when the vehicle is operated near combustible material.

Always be respectful of the environment.

Respect all wildlife and their habitat.

Respect private property and comply with all local laws and regulations governing the use of light duty utility vehicles. Make sure you are permitted by property owners to operate the vehicle on their property.

If operating the vehicle on private property, obtain permission from the owner prior to entering their property.

OPERATION

BATTERY CHARGER

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. Never charge batteries in a hazardous environment.



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. Make sure qualified personnel does all repair work to the charger.

The battery charger will test the temperature of the battery pack, it 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.

PERFORMANCE FEATURES

NOTICE: The vehicle operates when the Run/Tow switch is in the RUN position.

The speed of the motor is sensed and controlled by the controller.

Speed Control



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 or key switch to another position the vehicle will brake **quickly** until it reaches approximately 2 mph (3 kph).

Pedal-Up Braking

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

Example: If all of the following events occur:

- · the vehicle is being driven down a slope
- · the accelerator pedal is released

the pedal-up braking decreases speed until the vehicle stops or the accelerator pedal 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.

Walk-Away Feature

Walk-Away limits vehicle movement without driver input, decreases vehicle speed to 2 mph (3 kph) and activates an alarm.

Example: If all of the following events occur:

- the vehicle is stopped for more than 2 seconds
- the accelerator pedal is released for more than one second
- the vehicle starts to move at more than 2 mph (3 kph)

the Walk-Away feature limits speed to approximately 2 mph (3 kph) and the warning beeper activates. When the accelerator pedal is pressed, the Walk-Away feature and warning beeper stops and normal vehicle operation continues

Anti-Roll Back Feature

Anti-Roll Back, like Walk-Away, limits reverse motion of the vehicle down a slope to less than 2 mph (3 kph). See Walk-Away Feature for more information. An alarm will not be activated should the anti-roll back feature engage.

Anti-Stall Feature

Anti-Stall protection prevents motor damage if the vehicle is stalled against an object or on a hill.

Example: If all of the following events occur:

- the system senses that the accelerator pedal is pressed (power applied to motor)
- · the motor is stopped long enough that additional time can cause damage to the motor

the Anti-Stall feature will interrupt power to the motor. To restore power to the motor, flip the RUN/TOW switch to "TOW" position and then return the switch to "RUN" position.

High Pedal Disable Feature

High Pedal Disable prevents acceleration of the vehicle if the direction selector is changed or the key is turned on while the accelerator is pressed.

Diagnostic Mode Feature

Diagnostic mode helps with troubleshooting.

With some electrical system failures, the Diagnostic Mode feature defaults to a mode that allows the vehicle to operate at a decreased speed.

This feature allows you to return the vehicle to the storage facility and identify the problem.

STARTING AND STOPPING THE VEHICLE



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

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

- 1. Sit in the driver's seat.
- 2. Press and hold the brake pedal.
- 3. Insert the key and turn to the desired direction.

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

- 4. Slowly press the accelerator pedal to start the motor.
- When the accelerator pedal is released, the motor decreases the speed of the vehicle. To stop the vehicle more quickly, press the brake pedal.
- 6. Engage the parking brake, turn the key to OFF and remove the key from the switch before exiting the vehicle.

Starting on a Hill



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



Do not use the accelerator and motor to hold the vehicle on a hill. Doing so for more than 3 - 4 seconds will cause permanent damage to motor.

To decrease the risk of permanent damage to the drive system, do not allow roll-back when you start the vehicle on a hill.

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

OPERATION

ACCELERATING



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

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

- 1. Release the parking brake.
- 2. Move the key switch to the desired direction.
- Apply slow, steady pressure to the accelerator pedal to increase vehicle speed. When you release the accelerator pedal, the motor decreases the speed of the vehicle.

NOTICE: If the key switch is in the F, N, or R position and the parking brake is engaged, the brake releases when you press the accelerator pedal and can cause the vehicle to move suddenly. This is a feature to make sure the vehicle is not driven with the parking brake engaged. Pressing the accelerator pedal is not the recommended method to release the parking brake.

BRAKING



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

Release the accelerator pedal completely.

NOTICE: Pressing the top section of the brake pedal engages the parking brake.

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

Coasting



Do not allow the vehicle to coast at above recommended speeds. Control vehicle speed with the brake.

The vehicle has a braking feature (pedal-up) that decreases the speed when the accelerator pedal is released. The feature continues to decrease the speed until the vehicle stops. Press the brake if you need to decrease speed or stop the vehicle quickly.

DRIVING WITH A PASSENGER

- All passengers must be at least 59 in. (150 cm) tall. Passengers must be able to sit with their back against the seat, both feet on the floor.
- · Do not allow more than one passenger in the vehicle.
- Do not allow a passenger to ride anywhere on the vehicle except the passenger seat.
- 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 the passenger.
- Handling characteristics can change with the added weight of a passenger. Allow more time and distance for braking.

SLIPPERY SURFACES



Skidding or sliding can cause loss of control. Skidding or sliding can cause rollover if tires have lost traction, then regain traction suddenly. When operating on slippery surfaces, travel at reduced speed to help maintain control of the vehicle.

When operating in conditions such as ice, water, muddy trails, 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:

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

TRAVERSING HILLSIDES

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

If traversing a hillside is unavoidable, follow these guidelines:

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

DRIVING DOWNHILL



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

When driving down a hill, follow these guidelines:

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

OPERATION

STALLING ON A HILL

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

If your vehicle completely stalls while climbing a hill:

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

If your vehicle begins to roll downhill:

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

DRIVING IN REVERSE

When driving in reverse, follow these guidelines:

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

PARKING THE VEHICLE

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

Park the vehicle away from any source of flame or sparks, including any appliance with a pilot light,

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

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

HAULING CARGO



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, and cargo) must never exceed the maximum weight capacity of the vehicle. See the chart in Maximum Cargo Load / Maximum Weight Capacity on page 31.

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 the 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.

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 rear hand rail. The total load (operator, passenger, accessories, and cargo) must never exceed the maximum weight capacity of the vehicle.

Maximum Cargo Load / Maximum Weight Capacity

Maximum Vehicle Weight Capacity	1200 lb (544 kg)
Maximum Load Deck Capacity	250 lb (113 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).

OPERATION

FLIP SEAT/ LOAD DECK OPERATION

The vehicle is equipped with a rear facing seat that pivots to form a load deck. The rear facing seat is for a maximum of two passengers.



Always fill the forward seating capacity prior to seating any passengers on the rear flip seat.



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



Only two passengers allowed on the rear facing seat. Never leave small children alone on the seat. Keep both arms and legs inside the vehicle boundary at all times.

To change from passenger seating to a load deck follow the steps below:

- 1. Remove any items from the seat.
- 2. Rotate the seat back and seat bottom toward the rear of the vehicle. The seat bottom board will rest on the rear hand grip.



To reduce the possibility of severe injury or death, DO NOT allow passengers to ride on the load deck.

To change from a load deck to passenger seating follow the steps below:

- 1. Remove any cargo from the load deck.
- 2. Rotate the seat back and seat bottom toward the front of the vehicle.

VEHICLE MAINTENANCE

MAINTENANCE SAFETY



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

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

Remove all jewelry before you service the vehicle.

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

Do not touch hot objects.

Make sure that the key switch is in the OFF position and the run/tow switch is in the TOW/STORAGE position before you start to work on the vehicle.

Disconnect the negative battery terminal before you service the vehicle to prevent accidental operation.

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

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

Wear a face shield when working around the battery pack.

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

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

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

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

After you make repairs or do 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 you tow the vehicle.

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

SCHEDULED MAINTENANCE

Consistent inspection, adjustment, and lubrication of some components are necessary to maintain the *vehicle* so that it remains in safe and reliable condition. Refer to the *SCHEDULED MAINTENANCE CHART* on page 34 for detailed requirements.

Inspect, clean, lubricate, adjust, and replace parts as necessary. Use manufacturer or equivalent replacement parts. Record the maintenance items performed along with details in the MAINTENANCE LOG beginning on page 49.

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

Severe Use Conditions

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

- · frequent or prolonged use in a dusty environment
- · prolonged low speed operation
- · prolonged heavy load operation

- · frequent use in mud, water or sand
- · short trips in cold weather

MAINTENANCE

SCHEDULED MAINTENANCE CHART

Perform all services at the maintenance interval reached first.

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

Item		(perform	erval n at interval mes first)	Remarks	
		Hours	Calendar	r	
	Overall vehicle condition	Pro	e-ride	Inspect.	
	Battery Module	С	Daily	Charge daily after use.	
	Steering	Pro	e-ride	Check for smooth and free operation.	
	Front suspension	Pre-ride		Inspect. Check for leaks and loose or missing hardware.	
	Rear suspension	Pro	e-ride	Inspect. Check for leaks and loose or missing hardware.	
	Tires	Pro	e-ride	Check condition and pressure.	38
	Wheel lug nuts	Pro	e-ride	Check for loose or missing.	38
	Accelerator	Pro	e-ride	Check for smooth operation.	
	Brake system	Pro	e-ride	Check for smooth operation and acceptable stopping distance.	42
	Frame hardware	Pre	e-ride	Check for loose or missing.	
	Headlights and taillights	Pro	e-ride	Check operation. Replace bulbs as needed.	39
	Reverse warning alarm	Pre	e-ride	Check operation.	
	Switches	Pre	e-ride	Check operation.	
	Fluid leakages	Pre	e-ride	Inspect entire vehicle for leaks	
S	Brake shoes	10	Monthly	Inspect. Replace as needed.	
	Charger receptacle	20	Monthly	Clean connections.	
	Parking brake	20	Monthly	Conduct brake performance test; adjust as necessary. Check for correct hold on an incline.	
	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.	
S	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.	42
	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.	
S	General lubrication	50	3 Months	Lubricate all fittings, pivots, cables, etc. where required.	35
	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 34.

Item	Capacity	Lubricants/Fluids	Notes
Rear axle oil	25 oz. (0.7 L)	Mobil 424	Part Number 603967
Rear axle oil	2.0 oz (59 mL)	Friction Modifier	Part Number 611242
Grease fittings		Universal joint grease or equivalent	Do not exceed 3 pumps of grease in each fitting.

REPLACEMENT OF MAINTENANCE ITEMS

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

Item	Part Number
58V, 10A Mini Fuse	636455G22
32V, 15A Mini Fuse	636455G13
32V, 5A Mini Fuse	636455G10
32V, 10A Mini Fuse	636455G12
Throttle Resistor	662004
12V, 20A Relay	643691
LED Headlight Assembly	651411G03
Headlight Bulb	619100
Turn Signal Bulb	619102

LIFTING THE VEHICLE



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.



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

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

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

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

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

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

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

Tools

- iack
- · jack stands (4)
- wheel chocks

Lifting Front

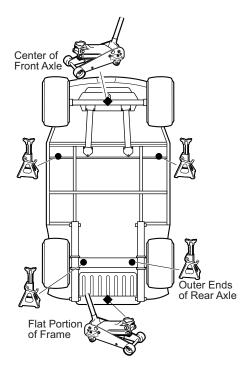
- Chock the rear wheels to keep the vehicle from rolling backward.
- 2. Put a jack under the center of the front axle.
- 3. Raise the vehicle with the jack.
- Install jack stands under the front frame cross member as shown.
- 5. Lower the vehicle until it rests on the jack stands.
- 6. Remove the jack.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

Lifting Rear

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

Lowering Vehicle

- Make sure chocks are still in place on any wheels that remain on the ground.
- 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
- Inspect all grease fittings for dirt intrusion or lack of grease after washing. Apply grease as required to maintain proper function.
- · 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 the approved size and type of replacement tires. See Vehicle Specifications for the proper tire type and size.



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

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

To decrease the risk of tire explosion, do not exceed the tire inflation rating on the tire sidewall. Make sure the tires are properly inflated at all times of operation. See *Tire Pressure* on page 15.

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

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

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

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

Tire Pressure

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

TIRE PRESSURE RANGE	TERRAIN CONDITIONS	RECOMMENDATION
40. 00: (404. 450 I-D-)	hard surfaces or pavement	Inflate to higher pressure within the range; never exceed maximum pressure indicated.
18 - 22 psi (124 - 152 kPa)	soft terrain or turf	Inflate to lower pressure within the range to reduce potential damage to the terrain or turf.

Tire Repair

Tools

lug wrench, 3/4"

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

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

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

- 1. Remove the wheel from the vehicle. See Wheel Removal on page 38.
- 2. Locate the leak in the tire.
 - a. If the tire is very low or flat, fully inflate the tire.
 - b. Brush soapy water over the surface of the tire. Air bubbles will be visible where the air is leaking from the tire
 - Mark the hole with chalk.
- 3. Install the plug according to the manufacturer's instructions.
- 4. Install the wheel on the vehicle. See Wheel Installation on page 39.
- 5. Fully inflate the tire. See *Tire Pressure* on page 15.

Tire Replacement

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

WHEELS



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



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

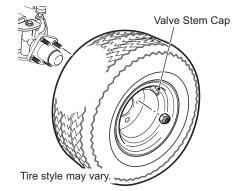
Check the lug nuts for tightness at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 34.

Wheel Removal

Tools

· lug wrench, 3/4"

- · impact socket, 3/4"
- impact wrench
 torque wrench, ft.lbs.
- 1. Lift the vehicle. See LIFTING THE VEHICLE on page 36.
- Remove the lug nuts.
- 3 Remove the tire from the vehicle



Wheel Installation

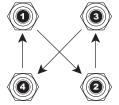
ug Nut Torque	65 - 85 ft.lbs. (88 - 115 Nm)
---------------	-------------------------------

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

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

- Install the wheel on the hub with lug nuts. Make sure the valve stem is to the outside.
- 2. Finger tighten the lug nuts.
- 3. Using the cross tightening pattern shown to the right, tighten the lug nuts to 65 85 ft.lbs. (88 115 Nm). Tighten in increments of 20 ft. lbs. (27 Nm).

Lug Nut Tightening Pattern



LIGHTS

- · Clean the lights frequently to maximize visibility.
- · Replace burned out bulbs promptly.



Do not operate this vehicle at night or in low light if any bulbs are burned out. Poor lighting reduces visibility that could cause an accident resulting in severe injury or death.

NOTICE: Replacement bulbs are available from a local Distributor, an authorized Branch or the Service Parts Department.

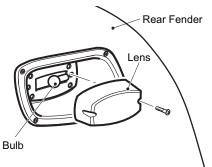
LED Headlight Assembly Replacement

- Disconnect the headlight harness from the headlight.
- Remove the screws securing the headlight assembly to the headlight bezel.
- Remove the headlight assembly and install the new one with screws.
- 4. Connect the harness to the headlight assembly.

Screw Headlight Housing or LED Headlight Assembly Rear Fender

Brake Light

Remove the two phillips head screws securing lens and pull lens out of housing to access the brake light bulb. Remove the light bulb and install a new bulb, making sure bulb makes good contact with socket. Replace the lens and reinstall the phillips head screws.



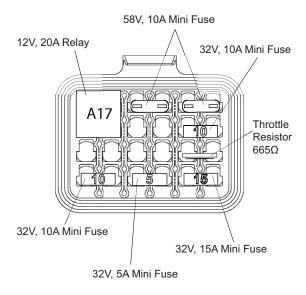
FUSE REPLACEMENT

NOTICE: Have the vehicle inspected by your dealer if fuses continue to blow after they have been replaced.

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

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 and Repair Manual for the fluid replacement procedure.

Change the axle oil at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 34.

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 lubricant as required. Add lubricant 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.

LUBRICATION

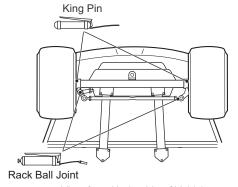


Do not use more than three pumps of grease in a grease fitting at any one time. Excess grease can cause grease seals to

fail, or allow grease into areas that could damage components.

Pumping more than three pumps of grease in a grease fitting could damage grease seals and cause premature bearing failure.

Lubricate components at the intervals indicated in the SCHED-ULED MAINTENANCE CHART on page 34.



View from Underside of Vehicle

BRAKES



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

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

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

Test and service the brake system at the intervals indicated in the SCHEDULED MAINTENANCE CHART on page 34.

Periodic Brake Test

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

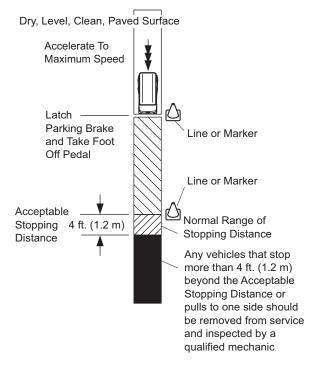
Establish the 'acceptable stopping distance' when your vehicle is new and the brakes are at their peak of performance. As your vehicle is used, a subtle loss of braking performance may be detected, so it is important to establish the standard with a new vehicle.

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

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

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

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



LITHIUM-ION BATTERY PACK

Charge the battery pack using only the OEM approved Lithium-lon battery charger.



Improper handling of batteries and electrical components can result in serious injury or death.

Do not remove the battery pack cover. Do not attempt to remove batteries or battery cables. Do not use the battery pack without the control module installed. All battery and electrical service must be performed by an authorized service facility.

All tools used in or around the battery pack area should be insulated. Do not intentionally cause a short to the power terminal (P+, P-, B+, B-) with a metallic object.

Do not use the vehicle or charge the battery pack if the battery pack has become abnormally hot, is discolored, deformed, leaking or has an odd odor. If liquid from the battery pack leaks onto skin or clothes, wash well immediately with fresh, running water. If liquid gets into the eyes, do not rub the eyes. wash the eyes with fresh, running water and seek medical assistance immediately.

Do not cut, tear or remove the seal tape. Do not disassemble or modify the design, including the electrical circuit, of the battery pack or control module.

To prevent the risk of battery explosion, keep all flammable materials, open flames or sparks away from the batteries. Do not leave the battery pack near a fire or heat source. Do not throw Lithium-lon batteries into a fire. Do not apply heat to any part of the battery pack or battery management module with a soldering iron. Do not place the battery pack in a microwave oven, dryer or high-pressure container.

Make sure that the key switch is in the OFF position and the run/tow switch is in the TOW/STORAGE position before you start to work on the vehicle.

Do not attempt to operate the vehicle or charge the battery pack at temperatures above 140°F (60°C).

Do not immerse or throw the battery pack in water. Do not pressure wash the battery pack.

Do not puncture the battery pack or control module. Do not strike the battery pack with a hammer or heavy weight. Do not step or stand on the battery pack. Do not throw or drop the battery pack on hard surfaces.

If the battery pack terminals are contaminated or dirty, clean them with a dry cloth before using the battery pack.

Keep the battery pack and control module away from static electricity.



Before recycling or shipping battery pack, make sure that the battery pack terminals are insulated.



Lithium-lon batteries are recyclable:

- •Return discarded batteries to distributor or manufacturer for recycling.
- •Contact local or state environmental department for the disposal information.
- •Refer to the Maintenance section for additional information.

BATTERY CHARGING AND MAINTENANCE

NOTICE: Do not spray the battery module with water. Do not attempt to add water to the battery module.

Do not charge the batteries if the ambient temperature is below -4°F (-20°C) or above 113°F (45°C). Refer to Appendix A for battery charger operating instructions.

Before connecting the battery charger:

- · Park the vehicle, turn the key switch to OFF and remove the key.
- · Inspect the charging receptacle for dirt or debris. Clean if necessary.
- Inspect the charger cords for cracks or damage. Replace any damaged cords before use.
- Plug the charger into a receptacle on a dedicated circuit. Do not connect any other devices to the receptacle.
- · Connect the charger to the vehicle.

BATTERY CHARGING

The battery charger is designed to completely charge the battery set. The automatic charger determines the correct length of charge for the battery set and turns off when the batteries are charged. Always refer to the instructions supplied with the charger. See Appendix A for charger operating instructions.

BATTERY PROLONGED STORAGE

Improper storage may damage, destroy or cause permanent loss of battery capacity. Do not exceed storage time or temperature limits. Batteries must be charged to the correct level before storage. Storing fully depleted batteries 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 module. 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 indicating the charge cycle is
 complete.
 - In hot climates, store the vehicle with a 30% to 50% charge of battery pack capacity.
- Turn the key to the OFF position and remove it from the key switch.
- · Check the run tow switch under the seat, make sure it is set in the TOW/STORAGE 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 30%-50% 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 100% charge, all accessories turned off.

TRANSPORTING THE VEHICLE



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

Hauling the Vehicle



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 any people on a vehicle being transported on a trailer.

Remove the windshield before you transport a vehicle on a trailer.

Maximum speed with canopy top installed is 50 mph (80 kph).

- If the vehicle is being hauled on a trailer or truck at highway speeds, the canopy top must be removed.
- 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 GENERAL SPECIFICATIONS for the weight of the vehicle.
 - Drive the vehicle onto the trailer or truck.
- 2. Engage the parking brake. Leave the direction selector in F (forward).
- 3. Turn the key switch to the OFF position.
- 4. To prevent the loss of the key, remove it from the key switch.
- 5. Make sure the seats are secured.
- 6. Secure the vehicle to the trailer or truck with tie downs, straps or ropes.

Towing the Vehicle



This vehicle is not designed to be towed.

SPECIFICATIONS

SHUTTLE 6 ELITE- VEHICLE SPECIFICATIONS

Item	Specification
Overall Length	143.5 in (364 cm)
Overall Width	48.5 in (123 cm)
Overall Height (No Canopy)	48.6 in (123 cm) (Top of steering wheel)
Overall Height (With Canopy)	72 in (183 cm)
Load Deck Width	40 in (101.5 cm)
Load Deck Length	32 in (81 cm)
Wheel Base	93.5 (237 cm)
Front Wheel Track	34 in (87 cm)
Rear Wheel Track	38 in (97 cm)
Ground Clearance (at Differential)	4.5 in (11 cm)
Turning Radius	12.8 ft (3.9 m)
Power Source	48V DC
Motor Type	AC Induction
Horsepower (kW)	13.5 hp (10.1 kW)
Electrical System	48V
Battery	Lithium Ion 48V
Key or Pedal Start	Pedal
Battery Charger	48VDC, 120/230 VAC, UL/CSA, CE
Speed Controller	235 Amp AC Controller
Speed (Level Ground)	14.9 mph (24.0 kph)
Drivetrain	Motor Shaft Direct Drive
Transaxle	Differential with helical gears
Gear Selection	Dash Mounted FNR/key switch
Rear Axle Ratio	16.99:1 (Forward)
Seating Capacity	6-Person
Dry Weight	964 lb (437 kg)
Curb Weight	1064 lb (484 kg)
Dash / IP Storage Capacity	1123 in³ (18403 cm³)
Load Deck Capacity	250 lb (113 kg)
Vehicle Load Capacity	1200 lb (544 kg)
Outside Clearance Circle	25.5 ft (7.8 m)
Towing Capacity	N/A
Steering	Self-compensating reduction rack and pinion
Front Suspension	Leaf springs with hydraulic shock absorbers
Rear Suspension	Leaf springs with hydraulic shock absorbers
Brakes	Dual rear wheel mechanical self-adjusting drum
Parking Brake	Self-compensating, single point engagement
Front Tires	18x8.5 - 8 (4 Ply Rated)
Rear Tires	18x8.5 - 8 (4 Ply Rated)

SPECIFICATIONS

Frame	Welded steel with DuraShield TM powder coat	
Front Body and Finish	Injection Molded TPO	
Rear Body and Finish	Injection Molded TPO	
Some items shown may be optional equipment		

MAINTENANCE LOG

Record periodic maintenance in the following maintenance log.

DATE	MILES (KM) AND HOURS	TECHNICIAN	SERVICE PERFORMED COMMENTS

MAINTENANCE LOG

DATE	MILES (KM) AND HOURS	TECHNICIAN	SERVICE PERFORMED COMMENTS

A	F	
accelerating 28	flip seat 23, 32	
accelerator pedal 22	fluids capacities 35	
anti-roll back feature 27		
anti-stall feature 27	recommended 35	
В	fuse replacement 40	
battery	G	
charging 44	glove box 22	
disposal 8, 43	·	
prolonged storage 7	н	
storage 44	hauling, vehicle 45	
warning 12	headlight switch 21	
battery charger 26	high pedal disable feature 27	
battery maintenance 43	hip restraints 22	
brake pedals 21	horn switch 21	
brakes 42	K	
periodic test 42	key switch 21	
braking 28	L	
С		
canopy top 22	labels, safety 11 lifting, vehicle 18, 36	
capacity	load deck 23, 32	
cargo load 15, 31	lubricants, recommended 35	
fluids 35, 47	lubrication 41	
hitch 47	••	
load 47	M	
towing 47	maintenance	
cargo	battery 43	
hauling 31	brakes 42	
maximum load 15, 31 charger receptacle 22	chart 34	
cleaning the vehicle 37	fluid capacities 35	
controller system test 40	rear axle 41 recommended fluids and lubricants 35	
cup holder 21	scheduled 33	
_ `	maintenance items 35	
D	manufacturer's Intended use 7	
diagnostic mode 27		
driving procedures	0	
accelerating 28	operator safety 15	
braking 28 downhill 29	Р	
parking 30	pedal up braking 26	
passenger 28	performance features 26	
reverse 30	anti-roll back 27	
slippery surfaces 29	anti-stall 27	
stalling on hill 30	diagnostic mode 27	
starting and stopping 27	high pedal disable 27	
starting on hill 27	pedul-up braking 26	
traversing hillsides 29	speed control 26	
uphill 29	walk-away 26	
	PIN plate 9	
	pre-ride inspection 25	

INDEX

R	towing, vehicle 45	
rear axle 41	transporting the vehicle 45	
lubricant level 41	U	
S	USB port 21	
safety	V	
safety battery 43 cargo 15, 31 charging battery 18 driving downhill 17 driving in reverse 17 driving surface 17 driving with passenger 16 labels 11 lifting, vehicle 18, 36 maintenance 19, 33 max speed 17 operation 25 operator 15 pre-ride inspection 25 slippery terrain 18 stalling 17 tire pressure 15, 38 tires 18 turning 17 unauthorized use 16 vehicle modification 18 weight capacity 15, 31 safety symbols 7 scheduled maintenance chart 34 seat bottom 22 serial number labels 9 severe use 33 slippery surfaces 29 specifications, vehicle 47 speed control 26 starting and stopping 27 starting on hill 27 state of charge (SOC) meter 21 steering wheel 21 storage compartments 22 switches		
headlight 21		
horn 21 key 21		
т		
tires 37		
pressure 15, 38		
repair 38		
replacement 38		

Normal use, age, and wear on vehicle components can affect the safe operation and reliability of the vehicle. The recommended Inspection and maintenance procedures are crucial for safety, performance, reliability and maximum longevity of your vehicle.

A damaged vehicle, or a vehicle that is not functioning properly is dangerous and must not be operated until repairs are made.

NOTICE: Read the following operational warnings before driving the vehicle:



Before exiting the vehicle, turn the key switch to the OFF position and remove the key from the vehicle to prevent unauthorized use.

Drive the vehicle at appropriate speeds for the terrain and conditions. Be aware of any environmental conditions that change the terrain and your ability to control the vehicle.

Do not drive on excessively steep hills. Evaluate the terrain before descending a hill. Drive slowly and deliberately. Use the brake to limit speed and maintain control. Sudden braking or turning can cause a loss of vehicle control. Drive straight down the hill; do not drive across the hill.

Operate in approved areas.

Keep both feet, legs, hands and arms inside vehicle at all times.

Avoid driving on terrain that is too rough for the vehicle's capabilities and your driving skills.

Before driving in the reverse direction, 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.

Bring the vehicle to a complete stop before moving the direction selector.

See SPECIFICATIONS on page 47 for the vehicle load and seat capacity.

NOTICE: Read the following maintenance information and warnings before servicing or repairing the vehicle:

Follow the procedures and comply with the safety information in this manual while performing vehicle service or maintenance.

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



Remove all jewelry before servicing the vehicle.

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

Do not touch hot objects.

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



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

Use insulated wrenches to decrease the risk of a short-circuit if a wrench contacts the battery terminals. A short-circuit in a battery can cause an

explosion.

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

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



California Proposition 65



WARNING

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

TEXTRON SPECIALIZED VEHICLES

1451 Marvin Griffin Road Augusta, GA, USA 30906-3852

1-800-774-3946 Technical Assistance & Warranty 1-888-438-3946 Service Parts www.cushman.com

Service Parts Manuals and Repair and Service Manuals are available for purchase.