606909-GB

OWNER'S MANUAL
&
SERVICE GUIDE

ST

GASOLINE POWERED VEHICLES

EZGO®
A Textron Company

ISSUED OCTOBER 2007 REVISED FEBRUARY 2010

SAFETY

For any questions on material contained in this manual, contact an authorized representative for clarification.

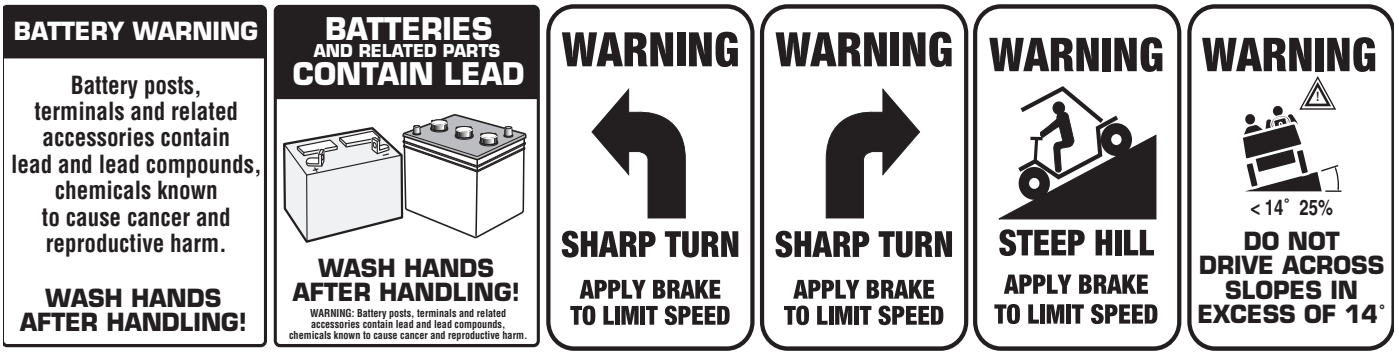
Read and understand all labels located on the vehicle. Always replace any damaged or missing labels.

On steep hills it is possible for vehicles to coast at greater than normal speeds encountered on a flat surface. To prevent loss of vehicle control and possible serious injury, speeds should be limited to no more than the maximum speed on level ground. See GENERAL SPECIFICATIONS. Limit speed by applying the service brake.

Catastrophic damage to the drivetrain components due to excessive speed may result from driving the vehicle above specified speed. Damage caused by excessive speed may cause a loss of vehicle control, is costly, is considered abuse and will not be covered under warranty.

For towing/transporting vehicle, refer to “TRANSPORTING VEHICLE”.

Signs similar to the ones illustrated should be used to warn of situations that could result in an unsafe condition.



Be sure that this manual remains as part of the permanent service record should the vehicle be sold. Throughout this guide **NOTE, CAUTION** and **WARNING** will be used.

Observe these **NOTES, CAUTIONS** and **WARNINGS;** be aware that servicing a vehicle requires mechanical skill and a regard for conditions that could be hazardous. Improper service or repair may damage the vehicle or render it unsafe.

NOTE

*A **NOTE** indicates a condition that should be observed.*

⚠ CAUTION

A CAUTION indicates a condition that may result in damage to the vehicle.

⚠ WARNING

A WARNING indicates a hazardous condition that could result in severe injury or death.

⚠ WARNING

Engine exhaust from this product contains chemicals known, in certain quantities, to cause cancer, birth defects, or other reproductive harm.

NOTE

The exhaust emissions of this vehicles’ engine complies with regulations set forth by the Environmental Protection Agency (EPA) of the United States of America (USA) at time of manufacture. Significant fines could result from modifications or tampering with the engine, fuel, ignition or air intake systems.

⚠ WARNING

Battery posts, terminals and related accessories contain lead and lead compounds. Wash hands after handling.

NOTE

This spark ignition system meets all requirements of the Canadian Interference-Causing Equipment Regulations.

Ce système d'allumage par étincelle de véhicule respecte toutes les exigences du Règlement sur le matériel brouilleur du Canada.

(NOTES, CAUTIONS AND WARNINGS CONTINUED ON INSIDE OF BACK COVER)

OWNER'S MANUAL AND SERVICE GUIDE

GASOLINE POWERED UTILITY VEHICLE

ST SPORT

ST SPORT CARB

ST SPORT 2+2

ST SPORT 2+2 CARB

ST 400

ST 400 CARB

ST CUSTOM CARB

Starting Model Year 2008

2006/42/EC. These are the Original instructions verified by E-Z-GO a Textron company

TO CONTACT US
NORTH AMERICA:
TECHNICAL ASSISTANCE & WARRANTY PHONE: 1-800-774-3946, FAX: 1-800-448-8124
SERVICE PARTS PHONE: 1-888-GET-EZGO (1-888-438-3946), FAX: 1-800-752-6175

INTERNATIONAL: PHONE: 001-706-798-4311, FAX: 001-706-771-4609
E-Z-GO DIVISION OF TEXTRON, INC., 1451 MARVIN GRIFFIN ROAD, AUGUSTA, GEORGIA USA 30906-3852

GENERAL INFORMATION

This vehicle has been designed and manufactured in the United States of America (USA) as a 'World Vehicle'. The Standards and Specifications listed in the following text originate in the USA unless otherwise indicated.

The use of non Original Equipment Manufacturer (OEM) approved parts may void the warranty.

Overfilling battery may void the warranty.

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

When servicing engines, all adjustments and replacement components must be per original vehicle specifications in order to maintain the United States of America Federal and State emission certification applicable at the time of manufacture.

BATTERY PROLONGED STORAGE

All batteries will self discharge over time. The rate of self discharge varies depending on the ambient temperature and the age and condition of the batteries.

A fully charged battery will not freeze in winter temperatures unless the temperature falls below -75° F (-60° C).

TABLE OF CONTENTS

SAFETY ..... inside covers

GENERAL INFORMATION ii

SAFETY INFORMATION vii

WELCOME 1

BEFORE INITIAL USE 1

Fig. 1 Initial Service Chart 1

CONTROLS AND INDICATORS 2

KEY/LIGHT SWITCH 2

Fig. 2 Key/Light Switch and Fuel Gauge 2

DIRECTION SELECTOR 2

Fig. 3 Direction Selector 2

CHOKE 2

Fig. 4 Choke 2

FUEL GAUGE 2

LOW OIL PRESSURE INDICATOR LIGHT 2

ACCELERATOR PEDAL 3

COMBINATION SERVICE AND PARK BRAKE PEDAL 3

HORN 3

Fig. 5 Accelerator, Brake and Horn 3

12 VOLT POWER OUTLET 3

Fig. 6 12 Volt Power Outlet 3

TERRAIN 3

OPTIONAL WINCH ST 400 Only 4

OPERATION OF THE WINCH 4

Fig. 7 Winch Remote Control 4

Fig. 8 Winch Clutch Knob 4

Fig. 9 Winch Mounted to Vehicle 4

WINCH APPLICATIONS 4

Fig. 10 Never Operate Winch with Less Than Five Turns Around Drum 5

Fig. 11 Use a Nylon Sling and Install a Damper when Winching 6

Fig. 12 Do Not Hook Cable to Itself 6

Fig. 13 Do Not Pull at Angle 6

COMMON SENSE OPERATION 7

ENVIRONMENTAL CONCERNS 7

VEHICLE CAPACITY 7

MODIFICATIONS TO VEHICLE 8

LOAD BED 8

Fig. 14 Load Bed Configurations and Capacities 8

MANUAL LIFT BED 9

Fig. 15 Manual Bed Latch 9

Fig. 16 Gas Strut 9

TAIL GATE OPERATION 9

ELECTRIC LIFT BED OPERATION (ST 400 Only) 9

MANUAL LOAD BED OPERATION 10

Fig. 17 Electric Lift Switch 10

SEATING 10

VEHICLES EQUIPPED WITH CONVERTIBLE CARRIER 10

STORAGE 10

VEHICLES EQUIPPED WITH CONVERTIBLE CARRIER 10

Cargo Platform 10

Fig. 18 Cargo Platform and Rear Compartment 11

REAR STORAGE COMPARTMENT 10

GLOVE COMPARTMENTS 10

CARGO BASKET 10

Fig. 19 Cargo Basket 11

GUN HOLDER 11

TABLE OF CONTENTS

OPERATING THE VEHICLE 11
Fig. 20 Gun Holder and Glove Compartments 12
RUN-IN 12
Fig. 21 Check Oil Level on Dipstick 12
Fig. 22 Clean Entire Dipstick 13
COLD STARTING 13
STARTING AND DRIVING 13
STARTING THE VEHICLE ON A HILL 13
COASTING 13
FUEL 14
Fig. 23 Fuel Tank Location 14
BATTERY 14
LABELS AND PICTOGRAMS 14
SUN TOP & WINDSHIELD (If Equipped) 15
VEHICLE CLEANING AND CARE 15
VEHICLE CLEANING 15
REPAIR 16
LIFTING THE VEHICLE 16
Fig. 24 Lifting the Vehicle 16
WHEELS AND TIRES 16
Tire Repair 17
Wheel Installation 17
Fig. 25 Wheel Installation 17
Unidirectional Tires 17
Fig. 26 Unidirectional Tire Wheel Installation 18
LIGHT BULB REPLACEMENT 18
Fig. 27 Headlight Replacement 18
Fig. 28 Tail and Brake Light Bulb Replacement 18
Fig. 29 Tail and Brake Light Bulb Replacement 18
FUSE REPLACEMENT 18
VEHICLE WITH A DISCHARGED BATTERY 18
TRANSPORTING VEHICLE 19
TOWING 19
NEUTRAL LOCK 19
HAULING 19
Fig. 30 Neutral Lock 19
SERVICE AND MAINTENANCE 20
SERIAL NUMBER LABEL LOCATION 20
Fig. 31 Serial Number Label Location 20
PERIODIC SERVICE SCHEDULE 21
Fig. 32 Periodic Service Schedule 21
TIRE INSPECTION 22
FOUR CYCLE ENGINE 23
ENGINE SPECIFICATIONS 23
ENGINE DESCRIPTION 23
CHECKING OIL LEVEL 23
Fig. 33 Clean Entire Dipstick 23
Fig. 34 Check Oil Level on Dipstick 23
CHANGING THE OIL 23
Fig. 35 Oil Viscosity Chart 24
Fig. 36 Cleaning Top of Engine 24
Fig. 37 Remove Oil Filter 24
Fig. 38 Inspect Oil Filter 24
Fig. 39 Oil Drain Plug 25
Fig. 40 Add Engine Oil 25
STARTER/GENERATOR BELT TENSION 25
Fig. 41 Check Belt Tension with Guage 25
Fig. 42 Check Belt Tension Manually 26
Fig. 43 Adjust Belt Tension 26

TABLE OF CONTENTS

ADJUSTING THE BELT 26
BATTERY CLEANING 26
Fig. 44 Preparing Acid Neutralizing Solution *27*
BRAKES 27
Fig. 45 Typical Brake Performance Test *27*
PERIODIC BRAKE TEST FOR MECHANICAL BRAKES 28
AIR INTAKE AND COOLING FINS 28
Fig. 46 Cleaning Cooling System with Air *28*
REAR AXLE 28
CHECKING THE LUBRICANT LEVEL 28
Fig. 47 Add, Check and Drain Rear Axle Lubricant *29*
AIR CLEANER INSPECTION AND REPLACEMENT 29
Fig. 48 Air Cleaner *27*
LUBRICATION 29
SPARK PLUG 29
Fig. 49 Lubrication Points *30*
Fig. 50 Gapping the Spark Plug *30*
PROLONGED STORAGE 30
CAPACITIES AND REPLACEMENT PARTS 31
Fig. 51 Capacities and Replacement Parts *31*
HARDWARE 31
Fig. 52 Torque Specifications and Bolt Grades *32*

GENERAL SPECIFICATIONS 35
Fig. 53 Vehicle Dimensions *40*
Fig. 54 Vehicle Dimensions (Continued) *41*
Fig. 55 Vehicle Incline Specifications and Turning Clearance Diameter *42*

LABELS AND PICTOGRAMS A-1
Fig. 56 Label Location *A-3*

VEHICLE WARRANTIES B-1
DOMESTIC WARRANTY B-2
CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT B-3
FEDERAL EMISSION COMPONENT DEFECT WARRANTY B-5

DECLARATION OF CONFORMITY (EUROPE ONLY) C-1

NOTES:

SAFETY INFORMATION

This manual has been designed to assist in maintaining the vehicle in accordance with procedures developed by the manufacturer. Adherence to these procedures and troubleshooting tips will ensure the best possible service from the product. To reduce the chance of personal injury or property damage, the following must be carefully observed:

⚠ CAUTION

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

E-Z-GO will NOT approve Distributor, Dealer or customer modifications converting E-Z-GO products into LSV's.

The Company, in addition, recommends that all E-Z-GO products sold as personal transportation vehicles BE OPERATED ONLY BY PERSONS WITH VALID DRIVERS LICENSES, AND IN ACCORDANCE WITH APPLICABLE STATE REQUIREMENTS. This restriction is important to the SAFE USE AND OPERATION of the product. On behalf of E-Z-GO, I am directing that E-Z-GO Branch personnel, Distributors and Dealers advise all customers to adhere to this SAFETY RESTRICTION, in connection with the use of all products, new and used, the Distributor or Dealer has reason to believe may be operated in personal transportation applications.

Information on FMVSS 571.500 can be obtained at Title 49 of the Code of Federal Regulations, section 571.500, or through the Internet at the website for the U.S. Department of Transportation - at Dockets and Regulation, then to Title 49 of the Code of Federal Regulations (Transportation).

GENERAL

Many vehicles are used for a variety of tasks beyond the original intended use of the vehicle; therefore, it is impossible to anticipate and warn against every possible combination of circumstances that may occur. No warnings can take the place of good common sense and prudent driving practices.

Good common sense and prudent driving practices do more to prevent accidents and injury than all of the warnings and instructions combined. The manufacturer strongly suggests that all users and maintenance personnel read this entire manual paying particular attention to the CAUTIONS and WARNINGS contained therein.

If you have any questions regarding this vehicle, contact your closest representative or write to the address on the back cover of this publication, Attention: Product Service Department.

The manufacturer reserves the right to make design changes without obligation to make these changes on units previously sold and the information contained in this manual is subject to change without notice.

The manufacturer is not liable for errors in this manual or for incidental or consequential damages that result from the use of the material in this manual.

This vehicle conforms to the current applicable standard(s) for safety and performance requirements.

These vehicles are designed and manufactured for off-road use. They do not conform to Federal Motor Vehicle Safety Standards of the United States of America (USA) and are not equipped for operation on public streets. Some communities may permit these vehicles to be operated on their streets on a limited basis and in accordance with local ordinances.

SAFETY INFORMATION

Refer to GENERAL SPECIFICATIONS for vehicle seating capacity.

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 specification. Such modifications can cause serious personal injury or death. Modifications that increase the speed and/or weight of the vehicle will extend the stopping distance and may reduce the stability of the vehicle. Do not make any such modifications or changes. The manufacturer prohibits and disclaims responsibility for any such modifications or any other alteration which would adversely affect the safety of the vehicle.

Vehicles that are capable of higher speeds must limit their speed to no more than the speed of other vehicles when used in a golf course environment. Additionally, speed should be further moderated by the environmental conditions, terrain and common sense.

Operation of the vehicle is limited to persons above the height of 59 inches (150 cm).

GENERAL OPERATION

Always:

- Use the vehicle in a responsible manner and maintain the vehicle in safe operating condition.
- Read and observe all warnings and operation instruction labels affixed to the vehicle.
- Follow all safety rules established in the area where the vehicle is being operated.
- Leave vehicle when there is a risk of lightning.
- Reduce speed to compensate for poor terrain or conditions.
- Apply service brake to control speed on steep grades.
- Maintain adequate distance between vehicles.
- Reduce speed in wet areas.
- Use extreme caution when approaching sharp or blind turns.
- Use extreme caution when driving over loose terrain.
- Use extreme caution in areas where pedestrians are present.

MAINTENANCE

Always:

- Maintain the vehicle in accordance with the manufacturer’s periodic service schedule.
- Ensure that repairs are performed by those that are trained and qualified to do so.
- Follow the manufacturer’s maintenance procedures for the vehicle. Be sure to disable the vehicle before performing any maintenance. Disabling includes removing the key from the key switch and removal of a battery wire.
- Insulate any tools used within the battery area in order to prevent sparks or battery explosion caused by shorting the battery terminals or associated wiring. Remove the battery or cover exposed terminals with an insulating material.
- Use specified replacement parts. Never use replacement parts of lesser quality.
- Use recommended tools.

SAFETY INFORMATION

- Determine that tools and procedures not specifically recommended by the manufacturer will not compromise the safety of personnel nor jeopardize the safe operation of the vehicle.
- Support the vehicle using wheel chocks and jack stands. Never get under a vehicle that is supported by a jack. Lift the vehicle in accordance with the manufacturer's instructions.
- Empty the fuel tank or plug fuel hoses to prevent fuel leakage.
- Maintain the vehicle in an area away from exposed flame or persons who are smoking.
- Be aware that a vehicle that is not performing as designed is a potential hazard and must not be operated.
- Test drive the vehicle after any repairs or maintenance. All tests must be conducted in a safe area that is free of both vehicular and pedestrian traffic.
- Replace damaged or missing warning, caution or information labels.
- Keep complete records of the maintenance history of the vehicle.

The manufacturer cannot anticipate all situations, therefore people attempting to maintain or repair the vehicle must have the skill and experience to recognize and protect themselves from potential situations that could result in severe personal injury or death and damage to the vehicle. Use extreme caution and, if unsure as to the potential for injury, refer the repair or maintenance to a qualified mechanic.

VENTILATION

Always store gasoline vehicles in a well ventilated area. Ventilation prevents gasoline fumes from accumulating.

Never fuel a vehicle in an area that is subject to flame or spark. Pay particular attention to natural gas or propane water heaters and furnaces.

Never work around or operate a vehicle in an environment that does not ventilate exhaust gases from the area. Carbon monoxide is a dangerous gas that can cause unconsciousness and is potentially lethal.

NOTES:

SAFETY INFORMATION

The following text is provided as recommended by part II of ANSI/ITSDF B56.8 - 2005. The manufacturer strongly endorses the contents of this specification.

6 GENERAL SAFETY PRACTICES

6.1 Introduction

6.1.1 Like other machines, carriers can cause injury if improperly used or maintained. Part II contains broad safety practices applicable to carrier operation. Before operation, the user shall establish such additional specific safety practices as may reasonably be required for safe operation.

6.1.2 Premise review — The user shall periodically review their premises, and as conditions warrant, identify areas where carriers should not be operated and to identify possible hazards such as the following examples:

a) Steep Grade — In areas where steep grades exist, carrier operation should be restricted to the designated vehicle's pathways where possible, and shall be identified with a suitable warning giving the following information: "Warning, steep grade."

b) Wet Areas — Wet areas could cause a carrier to lose traction and could affect steering, stability and braking.

c) Sharp Turns, Blind Spots, Bridge Approaches — Sharp turns, blind spots, bridge approaches, and other potentially hazardous areas shall be identified with a suitable warning to the operator of the nature of the hazard and stating the proper precautions to be taken to avoid the hazard.

d) Loose Terrain — Loose terrain could cause a carrier to lose traction and could affect steering, stability, and braking.

6.2 Operation

Experience has shown that carriers, which comply with the provisions, stated in paragraph 9.3.9 are stable when properly operated and when operated in accordance with specific safety rules and practices established to meet actual operating terrain and conditions. However, improper operation, faulty maintenance, or poor housekeeping may contribute to a condition of instability and defeat the purpose of the standard. Some of the conditions which may affect stability are failure of the user to follow safety practices; also, ground and floor conditions, grade, speed, loading, the operation of the carrier with improper loads, battery weight, dynamic and static forces, and the judgment exercised by the carrier operator.

a) The user shall train carrier operators to adhere strictly to the operating instructions stated in this Standard.

b) The user shall survey specific operating conditions and environment, and establish and train carrier operators to comply with additional, specific safety practices.

6.3 Nameplates, Markings, Capacity, and Modifications

6.3.1 The user shall maintain in a legible condition all nameplates, warnings, and instructions, which are supplied by the manufacturer.

6.3.2 Except as provided in 6.3.4, no modifications or alterations to a carrier, which may affect the capacity, stability, or safe operation of the carrier, shall be made without the prior written approval of the original carrier manufacturer or a successor thereof. When the carrier manufacturer or its successor approves a modification or alteration, appropriate changes shall be made to capacity plates, decals, tags, and operation and maintenance manuals

6.3.3 As required under paragraphs 6.3.1 or 6.3.2, the manufacturer shall be contacted to secure new nameplates, warnings, or instructions, which shall then be affixed in their proper place on the carrier.

6.3.4 In the event that the carrier manufacturer is no longer in business and there is no successor in interest to the business, the user may arrange for a modification or alteration to a carrier, provided however, the controlling party shall:

(1) Arrange for the modification or alteration to be designed, tested, and implemented by an engineer(s) expert in carrier(s) and their safety;

(2) Maintain a permanent record of the design, test(s), and implementation of the modification or alteration;

(3) Make appropriate changes to the capacity plate(s), decals, tags, and operation and maintenance manuals;

(4) Affix a permanent and readily visible label on the carrier stating the manner in which the carrier has been modified or altered together with the date of the modification or alteration, and the name of the organization that accomplished the tasks.

6.4 Fuel Handling and Storage

6.4.1 The user shall supervise the storage and handling of liquid fuels (when used) to be certain that it is in accordance with ANSI/NFPA 505 and ANSI/NFPA 30 or as required by local ordinance.

6.4.2 Storage and handing of liquefied petroleum gas fuels shall be in accordance with ANSI/NFPA 505 and ANSI/NFPA 58 or as required by local ordinance. If such storage or handling is not in compliance with these standards, the user shall prevent the carrier from being used until such storage and handling is in compliance with these standards.

6.43 Prevent fire and explosion caused by static electric discharge. Use only non-metal, portable fuel containers approved by the Underwriter's Laboratory (U.L.) or the American Society for Testing & Materials (ASTM). If using a funnel, make sure it is plastic and has no screen or filter.

Static electric discharge can ignite gasoline vapors in an ungrounded fuel container. Remove the fuel container from the bed of a carrier or the trunk of a car ban place on the ground away from the carrier before filling. Keep nozzle in contact with container opening while filling. When practical, remove equipment from trailers or truck beds and re -fuel them on the ground. If this is not possible, use a portable, plastic fuel container to refuel equipment on a truck bed or trailer.

6.5 Changing and Charging Storage Batteries for Electric Personnel and Burden Carriers

6.5.1 The user shall require battery changing and charging facilities and procedures to be in accordance with ANSI/NFPA 505 or as required by local ordinance.

6.5.2 The user shall periodically inspect facilities and review procedures to be certain that ANSI/NFPA 505 or as required by local ordinance, are strictly complied with, and shall familiarize carrier operators with it.

6.5.3 Maintenance and storage areas for carriers shall be properly ventilated to avoid fire hazards in accordance with applicable fire codes and ordinances.

Ventilation for internal combustion engine powered carriers shall be provided to remove flammable vapors (gases), fumes and other flammable materials. Consult applicable fire codes for specific levels of ventilation.

Ventilation for electric powered carriers shall be provided to remove the accumulation of flammable hydrogen gas emitted during the battery charging process. The amount of hydrogen gas emitted depends upon a number of factors such as the condition of the batteries, the output rate of the battery charger and the amount of time the batteries are on charge. Because of the highly volatile nature of hydrogen gas and its propensity to accumulate in pockets, a minimum number of air changes per hour is required during charging.

Consult applicable fire and safety codes for the specific ventilation levels required as well as the use of explosion proof electrical apparatus. SAE J1718 can be followed to check for hydrogen gas levels.

6.6 Hazardous Locations

6.6.1 The user shall determine the hazard classification of the particular atmosphere or location in which the carrier is to be use in the accordance with ANSI/NFPA 505.

6.6.2 The user shall permit in hazardous areas only those carriers approved and of the type required by ANSI/NFPA 505.

6.7 Lighting for Operating Area

The user, in accordance with his responsibility to survey the environment and operating conditions, shall determine if

the carrier requires lights and, if so, shall equip the carrier with appropriate lights.

6.8 Control of Noxious Gases and Fumes

When equipment powered by internal combustion engines is used in enclosed areas, the atmosphere shall be maintained within limits specified in the American Conference of Governmental Industrial Hygienists publication,:Threshold Limit Values for Chemical Substances and Physical Agents in the Workroom Environment." This may be accomplished by ventilation maintenance of emission control equipment recommended or provided by the manufacturer of the equipment.

6.9 Warning Device(s)

6.9.1 The user shall make periodic inspections of the carrier to be certain that the sound-producing and/or visual device(s) if so equipped are maintained in good operating condition.

6.9.2 The user shall determine if operating conditions require the carrier to be equipped with additional sound-producing or visual devices or both and be responsible for providing and maintaining such devices, in accordance with the manufacturer's recommendations.

6.10 Safety Interlocks

The user shall make periodic inspections of the carrier to be certain that the safety interlock system, if so equipped, is operating properly.

7 OPERATING SAFETY RULES AND PRACTICES

7.1 Personnel and Burden Carrier Operator Qualifications

Only persons whoa are trained in the proper operation of the carrier shall be authorized to operate the carrier. Operators shall be qualified as to visual, auditory, physical, and mental ability to safely operate the equipment according to Section 7, all other applicable parts of this Standard and the operators' manual.

7.2 Personnel and Burden Carrier Operators' Training

7.2.1 The user shall conduct an operators' training program.

7.2.2 Successful completion of the operators' training program by the operator shall be required before operation of the carrier. The program shall be presented in its entirely to all-new operators and not condensed for those claiming previous experience.

7.2.3 The user shall include as a minimum in the operators' training program the following.

a) Instructional material provided by the manufacturer including the operators; manual;
b) Emphasis on safety of passengers, material loads, carrier operator, and other person(s);
c) General safety rules contained within this Standard and the additional specific rules determined by the user in accordance with this Standard, and why they were formulated;
d) Introduction of equipment, control locations of the environment which could affect carrier operation;
e) Operator competency evaluations.

7.3 Personnel and Burden Carrier Operator Responsibility

7.3.1 General Operator Responsibility

7.3.1.1 Read and follow operators' manual

7.3.1.2 Do not operate carrier under the influence of drugs and alcohol.

7.3.1.3 Safeguard the pedestrians at all times. Do not drive carrier in a manner that would endanger other persons.

7.3.1.4 Riding on the carrier by persons other than the operator is authorized only on personnel seat(s) provided by the manufacturer. All parts of each person's body shall remain within the plan view outline of the carrier.

7.3.1.5 When a carrier is to be left unattended, stop the carrier, apply the parking brake, stop the engine or turn off power, turn off the control or ignition circuit, and remove the key if provided. Additionally, for the electric carriers, the forward and reverse directional controls, should be neutralized if a means is provided. Block the wheels if the carrier is on a n incline.

7.3.1.6 A carrier is considered unattended when the operator is 7.6m (25 ft.) or more from the carrier which remains in his view, or whenever the operator leaves the carrier and it is not within his view. When the operator is dismounted and within 7.6m (25 ft.) of the carrier still in his view, he still must have controls neutralized, and the parking brake(s) set to prevent movement.

7.3.1.7 Maintain a safe distance from potential hazards, such as edges of ramps and platforms.

7.3.1.8 Use only approved carriers in hazardous locations, as defined in the appropriate safety standards.

7.3.1.9 Report all accidents to the user.

7.3.1.10 Do not add to, or modify, the carrier.

7.3.1.11 Carriers shall not be parked or left unattended such that they block or obstruct fire aisles, access to stairways, or fire equipment.

7.3.1.12 Only operate carrier while within operator's station.

7.3.2 Traveling

7.3.2.1 Observe all traffic regulations, including authorized speed limits. Under normal traffic conditions keep to the right. Maintain a safe distance, based on speed of travel, from a carrier or vehicle ahead, and keep the carrier under control at all times.

7.3.2.2 Yield the right of way to pedestrians, ambulances, fire trucks, or other carriers or vehicles in emergency situations.

7.3.2.3 Do not pass another carrier or vehicle traveling in the same direction at intersections, blind spots, or at other dangerous locations.

7.3.2.4 Keep a clear view of the path of travel, observe other traffic and personnel, and maintain a safe clearance.

7.3.2.5 Slow down or stop, as conditions dictate, and activate the sound-producing warning device at cross aisles and when visibility is obstructed at other locations.

7.3.2.6 Ascend or descend grades slowly.

7.3.2.7 Avoid turning, if possible, and use caution on grades, ramps, or inclines, normally travel straight up and down.

7.3.2.8 Under all travel conditions the carrier shall be operated at a speed that will permit it to be brought to a stop in a safe manner.

7.3.2.9 Make starts, stops, turns, or direction reversals in a smooth manner so as not to shift the load, endanger passengers, or lose control of the carrier.

7.3.2.10 Do not operate carrier in a dangerous manner.

7.3.2.11 Slow down when approaching, or on, wet or slippery surfaces.

7.3.2.12 Do not drive carrier onto any elevator unless specifically authorized to do so. Approach elevators slowly, and then enter squarely after the elevator car is properly leveled. Once on the elevator, neutralize the controls, shut off power, and set parking brakes. It is advisable that all other personnel leave the elevator before a carrier is allowed to enter or exit.

7.3.2.13 Avoid running over loose objects, potholes, and bumps.

7.3.2.14 Reduce carrier speed to negotiate turns.

7.3.2.15 Avoid any action verbal or physical by an operator or passenger, which could cause the operator to be distracted.

7.3.3 Loading

7.3.3.1 Refer to operators' manual for loading instruction.

7.3.3.2 Handle only stable and safely arranged loads. When handling off-center loads, which cannot be centered, operate with extra caution.

7.3.3.3 Handle only loads within the capacity of each cargo area of the carrier as specified by the manufacturer.

7.3.3.4 Avoid material loads exceeding the physical dimensions of the carrier or as specified by the carrier manufacturer.

7.3.4 Operator Care of Personnel and Burden Carriers

7.3.4.1 Read and follow operators' manual.

7.3.4.2 At the beginning of each shift during which the carrier will be used, the operator shall check the carrier condition and inspect the tires, warning devices, lights, battery(s), speed and directional controllers, brakes, safety interlocks, and steering mechanism. If the carrier is found to be in need of repair, or in any way unsafe, the matter shall be reported immediately to the user and the carrier shall not be operated until it has been restored to safe operating condition.

7.3.4.3 If during operation the carrier becomes unsafe in any way, the matter shall be reported immediately to the user, and the carrier shall not be operated until it has been restored to safe operating condition.

7.3.4.4 Do not make repairs or adjustments unless specifically trained and authorized to do so.

7.3.4.5 Before refueling, the engine shall be stopped and allowed to cool. The operator and passengers shall leave the carrier before refueling.

7.3.4.6 Spillage of hazardous materials shall be contained immediately and addressed via appropriate hazardous materials regulations.

7.3.4.7 Do not operate a carrier with a leak in the fuel system or battery(s). Battery(s) shall be charged and serviced per manufacturer's instructions.

7.3.4.8 Do not use open flames for checking electrolyte level in storage battery(s) or liquid level in fuel tanks.

8 MAINTENANCE PRACTICES

8.1 Introduction

Carriers may become hazardous if maintenance is neglected. Maintenance facilities, trained personnel, and procedures shall be provided. Such facilities may be on or off the premises.

8.2 Maintenance Procedures

Maintenance and inspection of all carriers shall be performed in conformance with the following practices and should follow the manufacturer's recommendations.

a) A scheduled preventive maintenance, lubrication, and inspection system shall be followed.
b) Only trained and authorized personnel shall be permitted to maintain, repair, adjust, and inspect carriers.
c) Before undertaking maintenance or repair follow the manufacturer's recommendations for immobilizing the carrier.
d) Chock wheels and support carrier, before working underneath it.
e) Before disconnecting any part of the engine fuel system, be sure the shutoff valve, if so equipped, is closed and follow carrier manufacturer's recommended practice.
f) Operation to check performance of the carrier shall be conducted in an authorized area where suitable conditions exist, free of vehicular and pedestrian traffic.
g) Before returning carrier to service, follow the manufacturer's instructions and recommended procedure.
h) Avoid fire hazards and have fire protection equipment present in the work area. Do not use an open flame to check level or leakage of fuel, battery electrolyte, or coolant.
i) Properly ventilate the work area in accordance with applicable regulations or local ordinance.

j) Handle fuel cylinders with care. Physical damage, such as dents, scrapes, or gouges, may dangerously weaken the tank and make it unsafe for use.

k) Brakes, steering mechanisms, speed and directional control mechanisms, warning devices, lights, governors, guards, and safety devices shall be inspected regularly and maintained in accordance with manufacturer's recommendations.

l) Special carriers or devices designed and approved for hazardous area operation shall be inspected to ensure that maintenance preserves the original approved safe operating features.

m) Fuel systems shall be checked for leaks and condition of parts. If a leak is found, action shall be taken to prevent the use to the carrier until the cause of the leak has been repaired.

n) The carrier manufacturer's capacity, operation, and maintenance instruction plated, tags, or decals shall be maintained in legible condition.

o) Batteries, motors, speed and directional controllers, limit switches, protective devices, electrical conductors/ insulators, and connections shall be inspected and maintained per carrier manufacturer's recommendation.

p) Carriers shall be kept in a clean condition to minimize hazards and facilitate detection of components needing service.

q) Modifications and additions which affect capacity and safe carrier operation shall not be performed without manufacturer's prior written authorization; where authorized modifications have been made, the user shall ensure that capacity, operation, warning, and maintenance instruction plates, tags, or safety labels are changed accordingly.

r) Care shall be taken to ensure that all replacement parts are interchangeable with the original parts and of a quality at least equal to that provided in the original equipment.

s) Disconnect batteries, negative connection(s) first. When reconnecting, connect positive connection first.

t) Hydraulic systems, if so equipped, shall be checked for leaks, for condition of parts. Keep body and hands away from pin-holes or nozzles that eject fluids under high pressure. Use paper or cardboard, not hands, to check for leaks.

ANSI/ITSDF B56.8 - 2005

NOTES:

NOTES:

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

Thank you for purchasing a Gas Powered Light Duty Utility Vehicle. Before driving the vehicle, we ask you to spend some time reading this Owner's Manual and Service Guide. This Guide contains the information that will assist you in the safe operation of the vehicle. It will also assist you in maintaining this highly reliable vehicle. Some illustrations show items that may be optional for your vehicle. This guide covers the operation of several vehicles; therefore, some pictorial views may not represent your vehicle. Physical differences in controls will be illustrated.

This vehicle has been designed and manufactured as a 'World Vehicle'. Some countries have individual requirements to comply with their specifications; therefore, some sections may not apply in your country.

Most of the service procedures in this guide can be accomplished using common automotive hand tools. Contact your service representative on servicing the vehicle in accordance with the Periodic Service Schedule.

Service Parts Manuals and Technician's Repair and Service Manuals are available from a local Distributor, an authorized Branch or the Service Parts Department. When ordering parts or requesting information for your vehicle, provide vehicle model, serial number and manufacture code.

BEFORE INITIAL USE

Read, understand and follow the safety label on the instrument panel. Be sure you understand how to operate the vehicle, its equipment and how to use it safely. Maintaining good performance depends to a large extent on the operator.

⚠ WARNING

Improper use of this vehicle could result in severe injury or death. The ST series are light duty utility vehicles, NOT All Terrain Vehicles (ATV's).

This vehicle is not a toy and using it while engaging in horseplay is dangerous.

Plan carefully before using the vehicle to go significant distances over questionable terrain. Remember that a one hour drive may take many hours to walk out should you run out of fuel or be stranded by becoming stuck on unsuitable terrain.

Hydrogen gas is generated as a natural part of the lead acid battery charging process. A 4% concentration of hydrogen gas is explosive and could cause severe injury or death. Charging must take place in an area that is adequately ventilated (minimum of 5 air exchanges per hour).

To reduce the chance of battery explosion that could result in severe injury or death, never smoke around or charge batteries in an area that has open flame or electrical equipment that could cause an electrical arc.

Hydrogen gas is generated in the charging cycle of batteries and is explosive in concentrations as low as 4%. Because hydrogen gas is lighter than air, it will collect in the ceiling of buildings necessitating proper ventilation. Five air exchanges per hour is considered the minimum requirement.

Never charge a vehicle in an area that is subject to flame or spark. Pay particular attention to natural gas or propane gas water heaters and furnaces.

Before a new vehicle is put into operation, the items shown in the INITIAL SERVICE CHART must be performed (Ref. Fig. 1 on page 1).

ITEM	SERVICE OPERATION
Battery	Charge battery
Seats	Remove protective plastic covering
Brakes	Check operation and adjust if necessary
	Establish acceptable stopping distance
Tires	Check air pressure (see SPECIFICATIONS)
Fuel	Fill tank with correct fuel
Engine	Check oil level

Ref Isc 2

Fig. 1 Initial Service Chart

Vehicle battery must be fully charged before initial use.

Check for oil or fuel leaks that could have developed in shipment from the factory.

Determine and record braking distance required to stop vehicle for future brake performance tests.

Remove the protective clear plastic, that protect the seat bottom and back rest during shipping, before placing the vehicle in service.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

CONTROLS AND INDICATORS

Vehicle controls and indicators consist of:

- key/light switch
- direction selector
- choke
- fuel gauge
- low oil pressure indicator light
- accelerator pedal
- combination service and park brake pedal
- horn
- 12 volt power outlet

KEY/LIGHT SWITCH

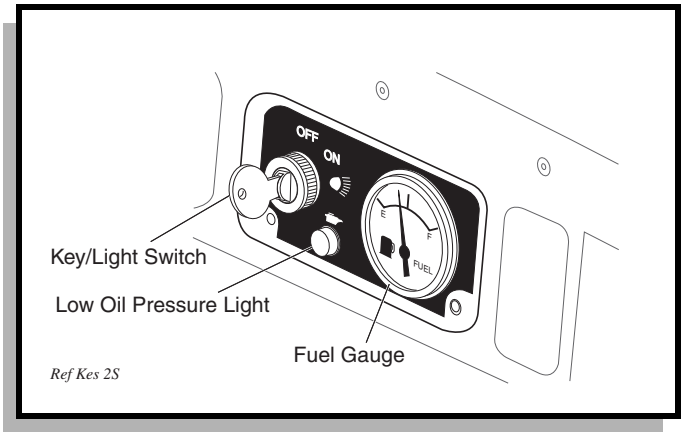


Fig. 2 Key/Light Switch and Fuel Gauge

Located on the dash panel, this switch enables the basic electrical system of the vehicle to be turned on and off by turning the key. To prevent inadvertent operation of the vehicle when left unattended, the key should be turned to the 'OFF' position and removed (Ref. Fig. 2 on page 2).

NOTE

If the vehicle is equipped with factory installed custom accessories, some accessories remain operational with the key switch in the 'OFF' position.

If the vehicle is equipped with lights, the key switch has a position to operate them, indicated by the light icon.

DIRECTION SELECTOR

⚠ CAUTION

To reduce the possibility of component damage, the vehicle must be completely stopped before moving the direction selector.

Located on the seat support panel, this lever permits the selection of either 'F' (forward) or 'R' (reverse) (Ref. Fig. 3 on page 2). **The vehicle** should be left in 'F' when unattended.

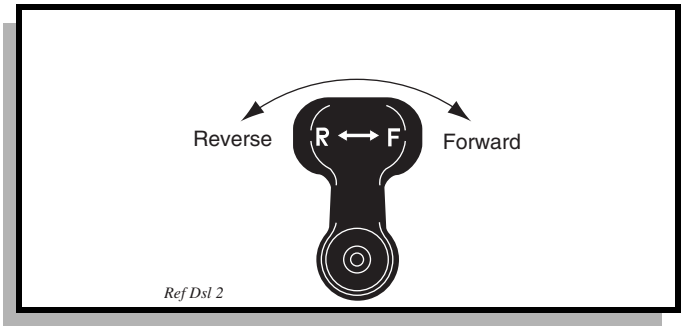


Fig. 3 Direction Selector

CHOKE

The choke is used to aid cold starting (Ref. Fig. 4 on page 2). See "COLD STARTING" on page 13

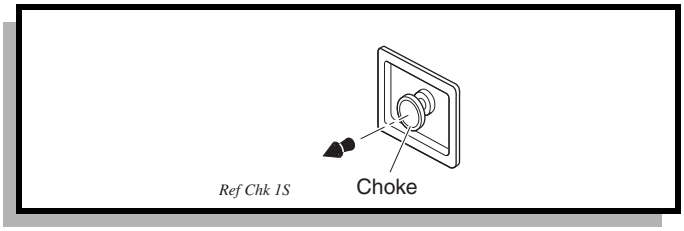


Fig. 4 Choke

FUEL GAUGE

The fuel gauge (if equipped) will either be located on the dash panel or directly on the fuel tank (Ref. Fig. 2 on page 2).

LOW OIL PRESSURE INDICATOR LIGHT

A low oil pressure indicator light is located on the dash panel (Ref. Fig. 2 on page 2). The light illuminates when the oil pressure is low. Check oil level. If oil level is between ADD and FULL mark on dipstick, a mechanical problem exists within the engine and the vehicle **must not be driven** (Ref. Fig. 21 on page 12). Contact a local distributor or authorized branch.

⚠ CAUTION

To prevent engine damage, do not operate engine until oil pressure is corrected. Do not overfill engine. Too much oil may cause smoking or allow oil to enter the air filter enclosure.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

If oil level is below ADD mark on dipstick, add oil to bring level to FULL mark. Drive vehicle a short distance and check oil pressure. If oil light does not come on, continue to use vehicle.

ACCELERATOR PEDAL

⚠ CAUTION

Unintentional movement of the accelerator pedal will release the park brake and may cause the vehicle to move which could result in severe injury or death.

With the key switch 'ON', depressing the accelerator pedal starts the engine. When the pedal is released, the engine will stop (Ref. Fig. 5 on page 3). To stop the vehicle more quickly, depress the service brake. If key switch is 'ON' and park brake is set, depressing the accelerator inadvertently will release the park brake and will cause the vehicle to move which could cause severe injury or death.

Depressing the accelerator pedal will release the park brake if it is engaged. This is a feature to assure the vehicle is not driven with the park brake engaged. Depressing the accelerator pedal is **not** the preferred method of releasing the park brake.

NOTE

Depressing the **lower section of the brake pedal** is the preferred method of releasing the park brake to assure the longest service life of brake components.

COMBINATION SERVICE AND PARK BRAKE PEDAL

The brake pedal incorporates a park brake feature (Ref. Fig. 5 on page 3). To engage, push down on the upper section of the pedal until it locks in place. The park brake will release when the service brake pedal is depressed. Use the lower section of the brake pedal to operate the service brake system.

HORN

The horn is operated by pushing the horn button located on the floor to the left of the brake pedal (Ref. Fig. 5 on page 3).

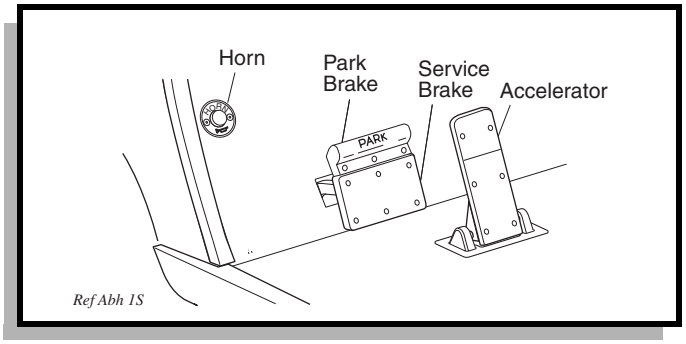


Fig. 5 Accelerator, Brake and Horn

12 VOLT POWER OUTLET

⚠ CAUTION

Overuse of accessories may drain the battery and leave insufficient reserve to start the vehicle.

A 12 volt power outlet, rated at 15 amps, is located to the left side of the key/light switch (Ref. Fig. 6 on page 3). It provides constant power for accessories equipped with a 12 volt plug.

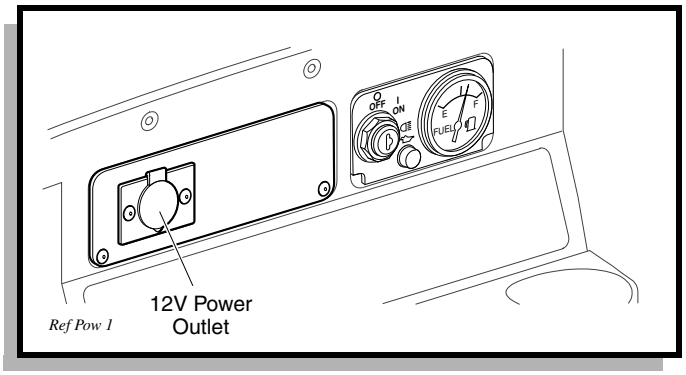


Fig. 6 12 Volt Power Outlet

TERRAIN

The vehicle is designed for use on improved roads (but not on public highways). The vehicle may also be used on established trails or open terrain that is free from stumps, large rocks or holes.

The vehicle should not be used to cross water.

OPTIONAL WINCH

ST 400 ONLY

The ST 400 may be equipped with an optional winch. Read, understand and follow all of the following information on the operation and use of winch before attempting to operate it.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

OPERATION OF THE WINCH

The winch may be mounted at the front or rear of the vehicle and moved to accommodate different situations. At the front, it is mounted under the center of the front cowl to a bracket attached to the front axle as shown (Ref. Fig. 7 on page 4). At the rear, the winch is mounted upside down in the hitch receiver.

NOTE

If mounting winch at rear of vehicle, the winch must be mounted upside down

.

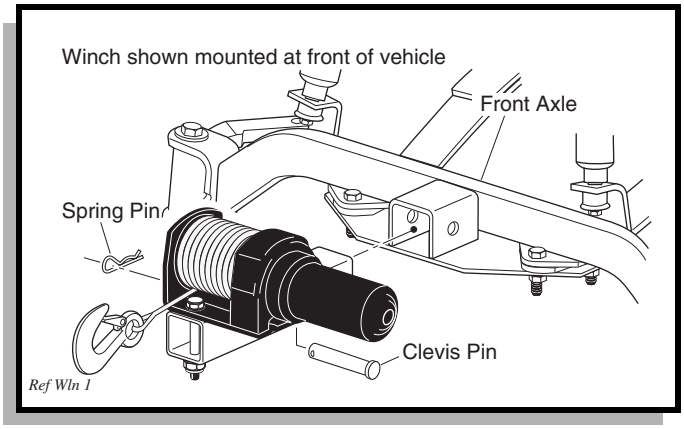


Fig. 7 Winch Mounted to Vehicle

Before moving the winch, unplug the winch connector from the wire harness. To move the winch from one end of the vehicle to the other, remove the spring pin, pull out the clevis pin and remove the winch mount tube from the receiver. Move to opposite end of vehicle and install by inserting clevis pin and securing with spring pin. Plug the winch connector into wire harness.

The winch remote control plugs into the receptacle on the seat support (Ref. Fig. 8 on page 4).

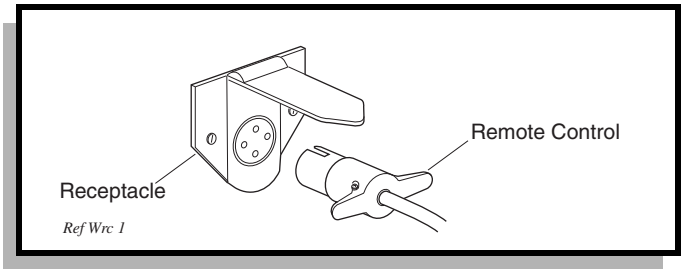


Fig. 8 Winch Remote Control

To unwind the cable, locate the clutch knob on the winch. Pull out knob and rotate 90° to lock out. Using handsaver bar, pull cable from winch drum. Leave at least five turns of cable on drum. Re-engage drum by turning clutch knob 90°, returning it to original position (Ref. Fig. 9 on page 4).

To wind cable, use handsaver bar to keep tension on the cable while activating remote. When winding cable, make sure the cable winds tightly and evenly onto the drum leaving no gaps that could cause premature wear to the cable. When using winch under a load, operate the remote control from as far to the side of the vehicle as possible. Do not operate winch while sitting in passenger seat. Read the following section (WINCH APPLICATIONS) before attempting to operate winch.

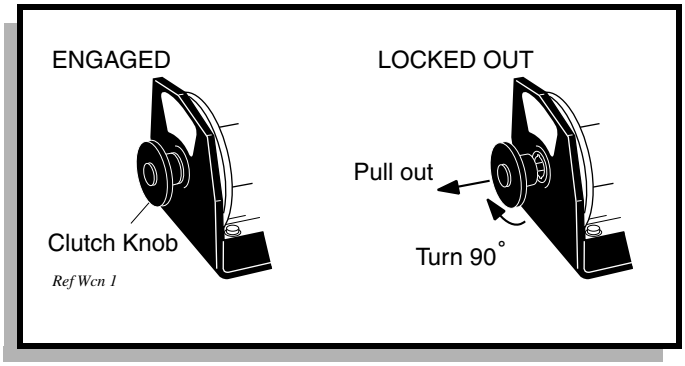


Fig. 9 Winch Clutch Knob

WINCH APPLICATIONS

The winch may be used for a number of purposes, including pulling the vehicle if it loses traction on unsuitable terrain.

⚠ WARNING

Improper use of the winch could result in a number of conditions that could cause severe injury or death to operator, occupants of vehicle or bystander.

It is impossible to predict all conditions that the winch could be used, therefore the following warnings should not be considered as complete. Before operating the winch, consider the possible dangers and take precautions to protect yourself, your passenger and any bystanders.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

⚠ WARNING

To prevent severe injury or death to operator, occupants or bystanders, select the object to which the cable is attached with the following considerations:

Make sure the object cannot be pulled over or otherwise damaged.

The object the winch is attached to could fall on the vehicle and it's occupants.

If attaching the winch to a dead tree, a section could fall.

When pulling vehicle with winch, pull straight only. **Do not permit the cable to contact the side of the drum.**

⚠ WARNING

Do not pull vehicle at angle. If the vehicle is pulled at an angle, it could turn over causing severe injury or death to anyone in the area. The winch cable could also become over-stressed and break causing severe injury or death to anyone struck by the cable.

If the vehicle becomes stuck or 'hung up' on an obstruction, the vehicle may be moved using the winch.

The winch may be installed in either the front or rear receiver and held in place with the locking pin provided.

⚠ WARNING

To prevent severe injury or death, read and understand the following before attempting to use the winch:

The winch is not intended to be used in any hoisting operation.

The rolling load capacity of the winch decreases with the steepness of the slope.

The winch is designed for intermittent duty only. The electric motor should not be allowed to become excessively hot. If the motor becomes uncomfortably hot to the touch, stop winching and allow the motor to cool.

Always wear thick leather gloves when handling the wire cable.

Replace frayed wire cable with a direct factory replacement only.

Never operate the winch with less than five (5) full turns of cable around the drum (Ref. Fig. 10 on page 5). If the winch motor stalls from overloading, do not continue to activate the winch remote control. The wire cable may become overstressed.

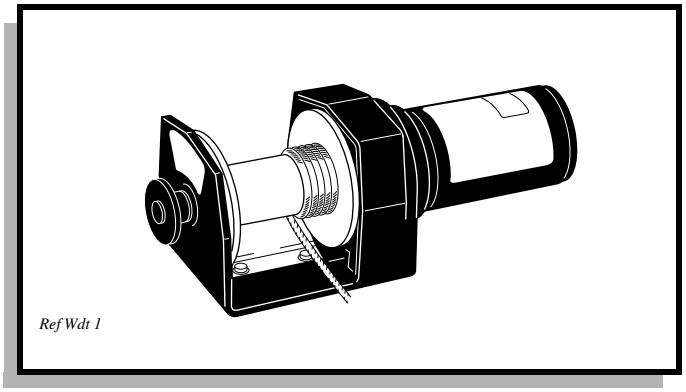


Fig. 10 Never Operate Winch with Less Than Five Turns Around Drum

Do not attempt to pull loads exceeding 1500 lbs. (680 kg).

To pull out the cable, the free spool clutch knob must be used. Pull out and rotate the knob. If the cable is under any load the clutch may not release easily. Jog out some of the cable to release the tension and operate clutch. Pull out the desired amount of cable and secure. Engage the drum by rotating the knob until it snaps in place. Never operate the winch unless the clutch is engaged.

Have all persons and pets leave the area while operating winch. Never allow anyone to remain in the vehicle.

To prevent damage to the wire cable, never hook the cable to itself. Always use a nylon sling (Ref. Fig. 11 on page 6) (Ref. Fig. 12 on page 6).

Stay clear of the winch, the cable and the cable hook. Place a heavy cloth, jacket or blanket over the cable to act as a damper

should the cable break when operating the winch (Ref. Fig. 11 on page 6).

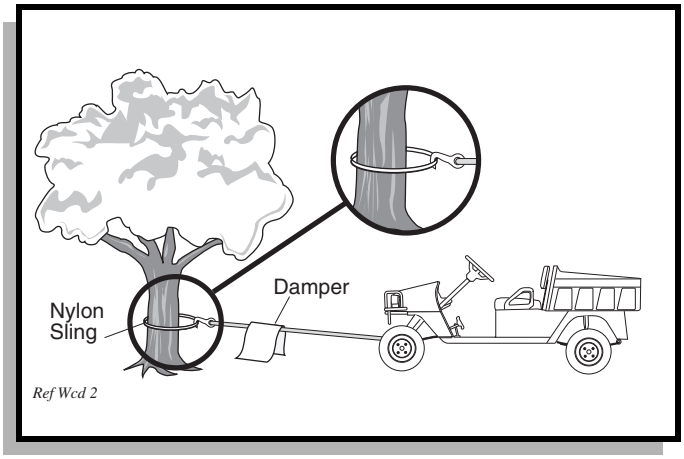


Fig. 11 Use a Nylon Sling and Install a Damper when Winching

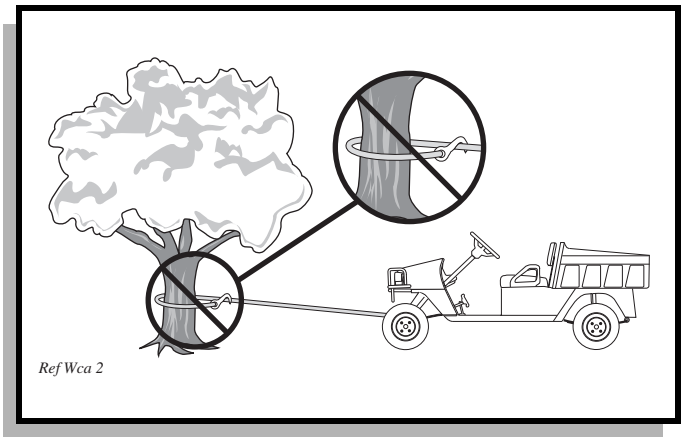


Fig. 12 Do Not Hook Cable to Itself

Remember that the winch operation will drain the battery and may leave insufficient power to start the vehicle.

When operating the winch, keep the entire area in view.

Never release the free spool clutch while the cable is under load.

Never work around the winch drum or the winch cable while it is under tension.

Unplug the winch switch before working on the winch drum in order to prevent inadvertent operation.

When operating winch, take up slack slowly. Stop winch before cable becomes tight and inspect all winching connections. Check winch attachment, hook attachment, nylon sling (if required) and load attachment.

Do not pull at an angle. This will cause the wire cable to pile up on one end of the winch. This may jam the winch causing damage to the cable and/or the winch. Pulling the vehicle at an angle can cause damage to the front suspension and may cause the vehicle to overturn. When pulling vehicle, pull straight only (Ref. Fig. 13 on page 6).

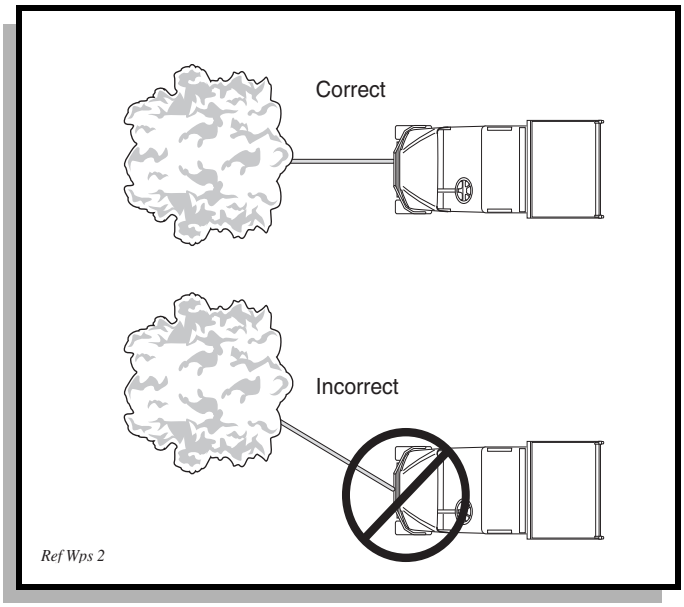


Fig. 13 Do Not Pull at Angle

If the vehicle is being used as an anchor to winch a load, it should have the park brake set and chocks installed on all wheels.

Never use the winch to lift people or other overhead loads.

Do not use the winch to secure loads. Use a tie down designed for the job.

Do not apply shock loads to the winch.

Do not attempt to modify or weld the winch.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

COMMON SENSE OPERATION

⚠ WARNING

To prevent severe injury or death, observe the following:

Never transport loaded firearms on or in vehicle.

Check that firearms are unloaded with the safety engaged and are properly secured with muzzle pointing in a safe direction before operating vehicle.

Be aware of other firearms in proximity to operator and passengers.

This vehicle is not a toy. If not operated properly and responsibly, it can cause severe injury or death to the operator, passengers or bystanders. All operators should possess a valid driver's license. Children should not be permitted to operate the vehicle. Children may not have the skill, judgement or strength to operate this or similar vehicles.

Alcohol, drugs and many over the counter medications reduce the ability of the driver to operate the vehicle safely. Always review side effects of any medication with a doctor or pharmacist before operating vehicle.

Protective clothing and an approved motorcycle helmet are recommended for operator and passengers when operating vehicle in rough or densely wooded terrain.

When driving at full speed on a dirt road, loose surfaces or wet grass, vehicle stopping distance will increase. If the vehicle is fully loaded, it will take longer to stop than with no load. When operating vehicle in wet weather conditions, remember that the brakes may need to be **lightly** applied in order to provide enough friction to dry the brake unit. If wet, the brakes will lose much of their effect.

Slow down when in unfamiliar terrain. Slow down when cresting a hill in an area that you are unfamiliar with.

Some hills are too steep to climb. If you attempt to climb a hill that is too steep or if you are unable to achieve adequate traction, **do not attempt to turn around on the hill. Slowly back straight down the hill using the service brake to control speed.**

ENVIRONMENTAL CONCERNS

As a responsible user, practice respect for all wildlife and their habitat. Respect private property and comply with all local laws and regulations governing the use of light duty utility vehicles. Do not tamper with the exhaust system or governor of gasoline powered vehicles. The exhaust system has been tuned to the engine for maximum performance. Removal or modification of the exhaust is annoying to other people and will not improve the performance of the vehicle.

⚠ WARNING

To prevent severe injury or death while driving, be aware of the following:

Environmental hazards such as steep slopes, overhanging limbs, etc.

Danger of fire when vehicle is operated over dry combustible organic material.

When driving, be aware of environmental hazards such as steep slopes, overhanging limbs, etc. Be aware of the danger of fire when the gasoline powered vehicle is operated over dry combustible organic material.

VEHICLE CAPACITY

⚠ WARNING

Due to the variety of ways the vehicle may be used, it is important that the operator consider any potential hazards before use to prevent serious injury or death.

The vehicle may be configured with a variety of load bed options. (Ref. Fig. 14 on page 8). The weight of the driver and passengers plus any options or accessories must be deducted from the total payload rating to determine the cargo capacity. Never exceed the rated capacity of the load bed.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

MODIFICATIONS TO VEHICLE

⚠ WARNING

Changes to the weight distribution or the center of gravity may make vehicle unstable or prone to roll over which could result in severe injury or death to the operator or passengers.

Do not modify the vehicle in any manner that will change the weight distribution of the vehicle. Changes to the weight distribution or the center of gravity may make it unstable or prone to roll over which could result in severe injury or death to the operator or passengers.

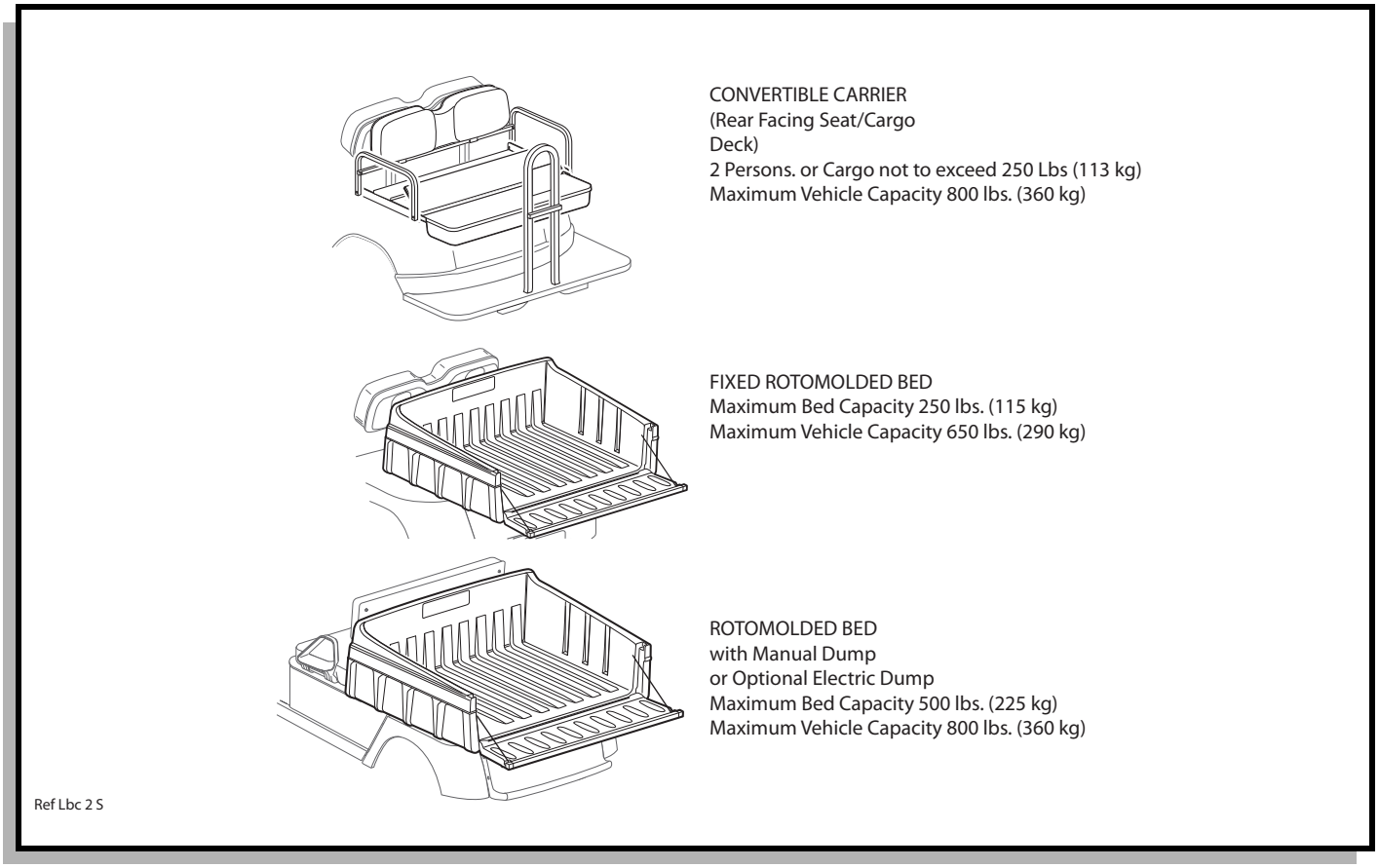


Fig. 14 Load Bed Configurations and Capacities

LOAD BED

⚠ WARNING

To reduce the possibility of severe injury or death, read, understand and follow the Warning label affixed to the front of the load bed. An electric lift bed is the standard bed for the ST 400. Lower capacity vehicles have a manual dump feature. A load bed warning label is affixed to the front of the bed. See Appendix A. For safe operation of the vehicle, this label must be understood. See the load bed warning label for maximum load. The load must be positioned in the bed as far forward as possible, distributed in such a way that its center of gravity must not be higher than height noted on label, and secured. Failure to follow these instructions may result in severe injury, damage the vehicle and/or cause the vehicle to tip over. Use extra care when operating loaded vehicle.

Do not permit any one to ride in the load bed.

Do not drive the vehicle with the load bed raised or with the tailgate unsupported.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

When using a load bed, be sure to avoid backing up to the edge of a drop off, such as a loading dock or ravine. A misjudgment of distance or an unstable surface could result in the vehicle falling backwards.

MANUAL LIFT BED

⚠ WARNING

Exercise caution while operating the manual lift bed to ensure the bed is not released during lifting or lowering procedure. Severe injury could result if bed is released and traps fingers or other body parts.

To lift the manual lift bed, pull back on the latch release handle immediately behind the driver seat (Ref. Fig. 15 on page 9). Raise the bed using the handle on the side of the bed.

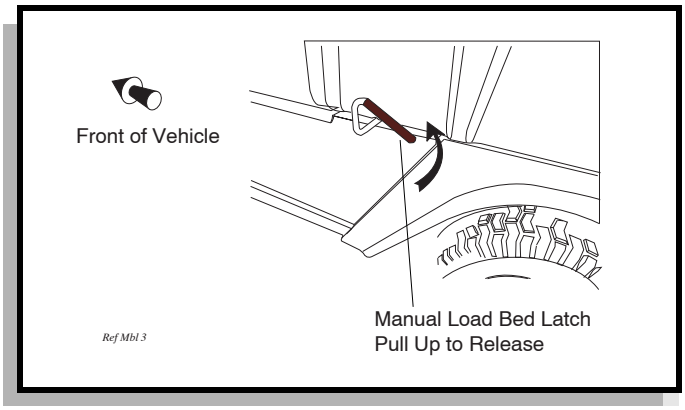


Fig. 15 Manual Bed Latch

On the ST 400, the gas strut will assist in raising the empty load bed and will keep the bed raised (Ref. Fig. 16 on page 9).

NOTE

Over time, the gas strut may allow the load bed to slowly lower. If this condition is evident, replacement of gas strut is required.

To lower the manual lift bed, grasp the bed handle and lower the bed to the rest position. **Be sure hands are not trapped by the bed.**

TAIL GATE OPERATION

To open the tail gate, lift tail gate straight up with a sharp upward pull to lift out of the closed position and pivot out for open position. To remove the tail gate, remove the side cables from the load bed and open tail gate until it is straight down, move tail gate panel straight up to remove from pins and remove from the load bed. Reassemble in reverse order.

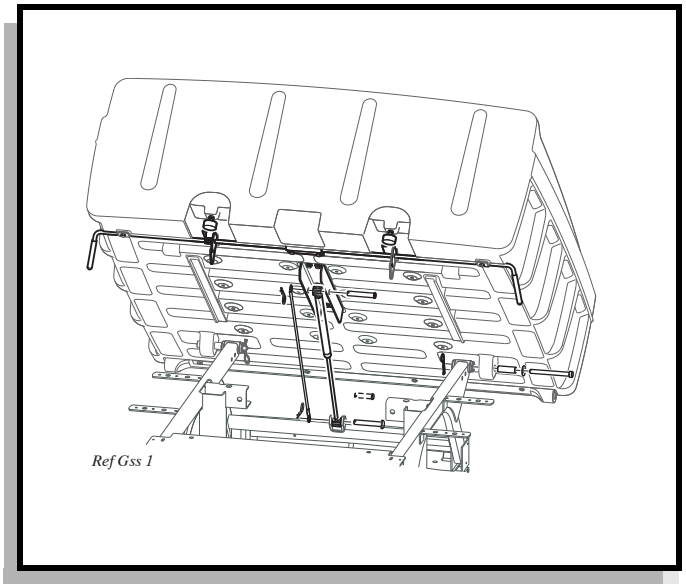


Fig. 16 Gas Strut with Tether Cable

⚠ WARNING

Never fill a gas can in the bed of a vehicle. Static discharge could ignite gasoline vapor and cause an explosion.

Always place a gas can on the ground before filling. Never fill a gas can in the bed of the vehicle. Static electricity is built up during the fueling process and could discharge causing the gasoline vapor to ignite.

ELECTRIC LIFT BED OPERATION (ST 400 Only)

⚠ WARNING

Exercise caution while operating the electric lift bed to ensure clothing is not caught during lifting or lowering procedure. Severe injury could result if bed is lowered and traps fingers or other body parts.

The electric lift switch is located on the driver side of the front seat panel (Ref. Fig. 17 on page 10). Move the toggle switch lever up to raise the load bed and down to lower.

Before operating load bed, check to ensure no one is behind the vehicle.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

MANUAL LOAD BED OPERATION

⚠ WARNING

Exercise caution while operating the manual load bed to ensure clothing is not caught during lifting or lowering procedure. Severe injury could result if bed is lowered and traps fingers or other body parts.

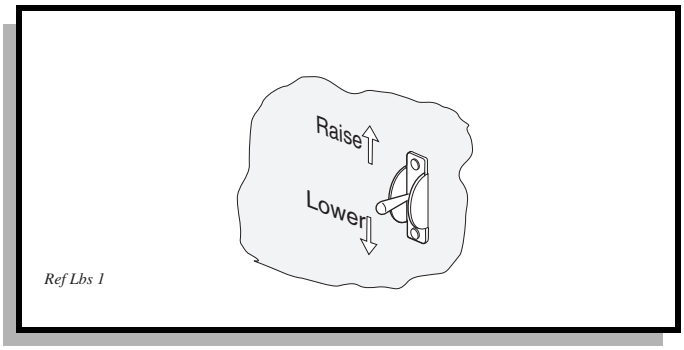


Fig. 17 Electric Lift Switch

Refer to the illustration for location of load bed release lever. (Ref. Fig. 15 on page 9).

SEATING

VEHICLES EQUIPPED WITH CONVERTIBLE CARRIER

⚠ WARNING

To prevent severe injury or death, rear seat passengers should hold on to both the hip restraints and the rear hand hold when the vehicle is in motion. Always be sure that all passengers are seated and holding on before operating vehicle.

Be sure that all passengers are seated and holding onto both the hip restraint and the rear hand hold (rear facing passengers) before operating vehicle.

STORAGE

VEHICLES EQUIPPED WITH CONVERTIBLE CARRIER

Cargo Platform

⚠ WARNING

Passengers should never be allowed to ride on the cargo platform. Severe injury or death could result if they should fall out or the vehicle is involved in an accident or sudden maneuver.

⚠ CAUTION

To prevent damage to rear seat, be sure to move any obstructing accessories mounted to rear handrail when folding seat up or down.

The cargo platform is accessed by folding the rear seat down (Ref. Fig. 18 on page 11). Be careful when loading the vehicle. Tie down loads to prevent shifting. Do not overload vehicle. The cargo platform is limited to a maximum load of 250 lbs. (115 kg). The load must be positioned on the platform as far forward as possible, its center of gravity must not be higher than 4" (10 cm) above the platform, and securely fastened down. Failure to follow these instructions could cause personal injury, damage to the vehicle and/or cause the vehicle to tip over. Be aware that increased loads may effect driving characteristics.

REAR STORAGE COMPARTMENT

The rear storage compartment is not weather tight.

The rear storage compartment can be accessed with the rear seat folded down by reaching under the central portion of the cargo platform and lifting the platform up (Ref. Fig. 18 on page 11).

GLOVE COMPARTMENTS

A lockable glove compartment is located on each side of the instrument panel (Ref. Fig. 20 on page 11).

CARGO BASKET - IF EQUIPPED

⚠ WARNING

Never overload the basket. An overloaded basket could negatively affect vehicle handling characteristics and cause the vehicle to tip over or cause structural damage to the vehicle.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

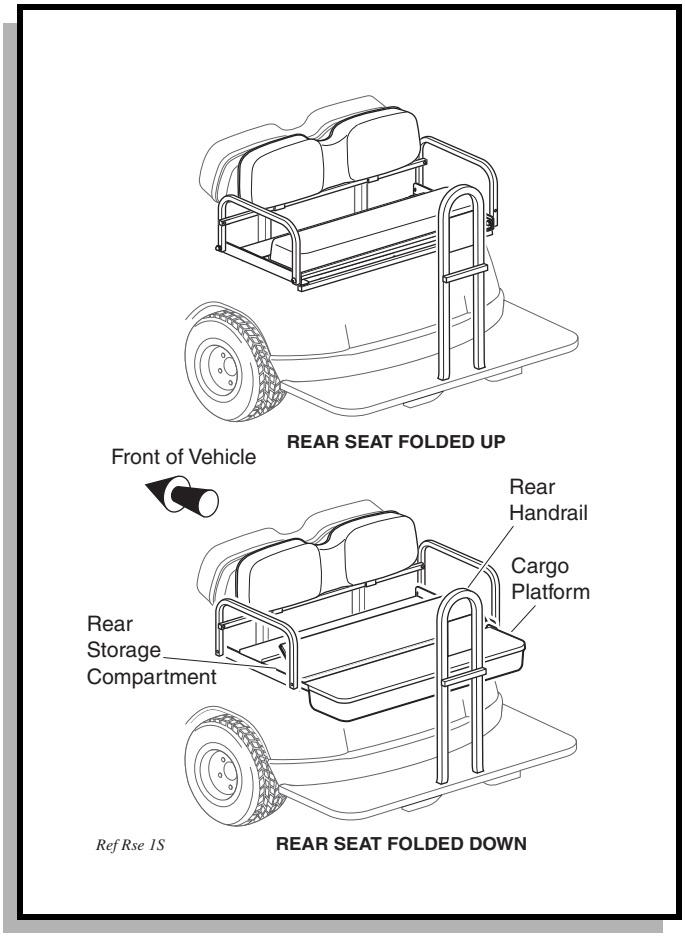


Fig. 18 Cargo Platform and Rear Compartment

Do not overload basket (Ref. Fig. 19 on page 11). The basket is limited to a maximum load of 25 lbs. (11 kg). Failure to follow these instructions could cause personal injury, damage to the vehicle and/or cause the vehicle to tip over. Be aware that increased loads may effect driving characteristics.

GUN HOLDER - IF EQUIPPED

⚠ WARNING

To prevent severe injury or death, never transport loaded firearms on or in vehicle. Check that firearms are unloaded with the safety engaged and are properly secured with muzzle pointing in a safe direction before operating vehicle.

The gun holder is mounted to the floor of the vehicle near the accelerator pedal (Ref. Fig. 20 on page 11).

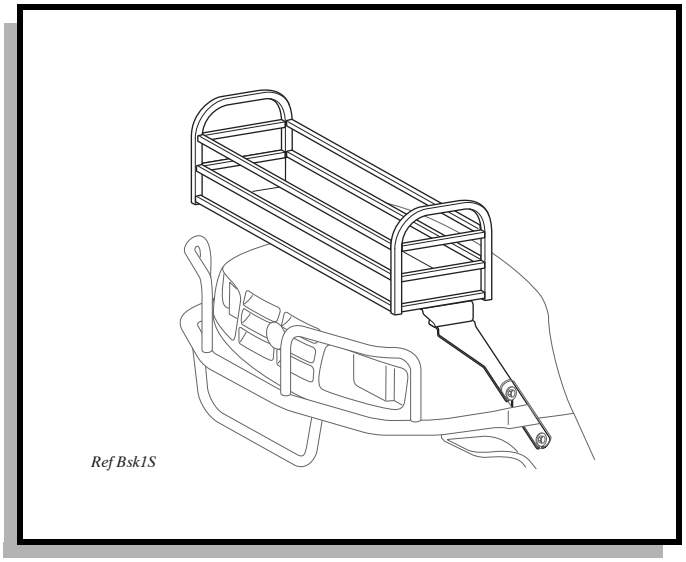


Fig. 19 Cargo Basket

Check that firearms are unloaded with the safety engaged before securing to holder. A maximum of two firearms can be secured in the gun holder.

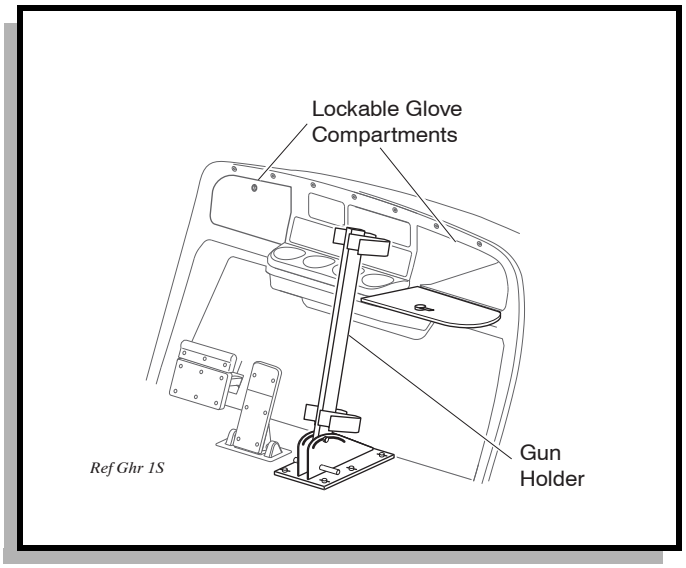


Fig. 20 Gun Holder and Glove Compartments

OPERATING THE VEHICLE

⚠ CAUTION

Improper use of the vehicle or the lack of proper maintenance may result in damage or decreased performance.

Read and understand the following warnings before attempting to operate the vehicle.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

⚠ WARNING

To reduce the possibility of severe injury or death resulting from loss of vehicle control, the following warnings must be observed:

When driving vehicle, consider the terrain, traffic conditions and the environmental factors which effect the terrain and the ability to control the vehicle.

Use extra care and reduced speed when driving on poor surfaces, such as loose dirt, wet grass, gravel, etc.

Stay in designated areas and avoid extremely rough terrain.

Maintain a safe speed when driving down hill. Use service brake to control speed when traveling down an incline. A sudden stop or change of direction may result in loss of control.

Slow down before and during turns. All turns should be made at reduced speed.

Never drive vehicle up, down, or across an incline that exceeds 14° (25% grade).

To reduce the possibility of severe injury or death resulting from improper vehicle operation, the following warnings must be observed:

Refer to GENERAL SPECIFICATIONS for seating capacity.

Depressing accelerator pedal will release foot operated park brake and may cause inadvertent vehicle movement. Turn the key to the 'OFF' position whenever the vehicle is parked.

To prevent inadvertent movement when the vehicle is to be left unattended, engage the park brake, move direction selector to forward position, turn key to 'OFF' position and remove key.

Make sure that the direction selector is in correct position before attempting to start the vehicle.

Always bring the vehicle to a complete stop before shifting the direction selector.

⚠ CAUTION

Do not take vehicle out of 'gear' while in motion (coast).

Check the area behind the vehicle before operating in reverse.

All occupants must be seated. Keep entire body inside vehicle and hold on while vehicle is in motion.

RUN-IN

Check for oil or fuel leaks that could have developed in shipment from the factory. Avoid full throttle starts and rapid acceleration until the engine has achieved operating temperature.

All engines consume more oil than normal during the first hours of operation. As internal moving parts are run-in, oil consumption should gradually decrease until the rate of consumption stabilizes.

Check the oil level per the Periodic Service Schedule (Ref. Fig. 32 on page 21). Add oil if the level on the dipstick indicates that oil is in the add oil range (Ref. Fig. 21 on page 12).

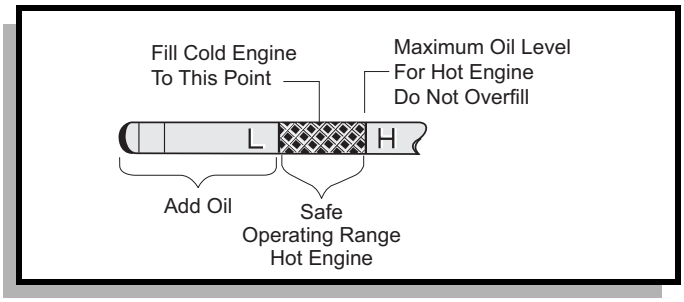


Fig. 21 Check Oil Level on Dipstick

Do not overfill engine. Too much oil may cause smoking or allow oil to enter the air filter enclosure.

NOTE

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

Oil Dipsticks are unique to this model vehicle. Do not interchange oil dipsticks between models

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

The oil should be changed in accordance with the Periodic Service Schedule while the engine is warm.

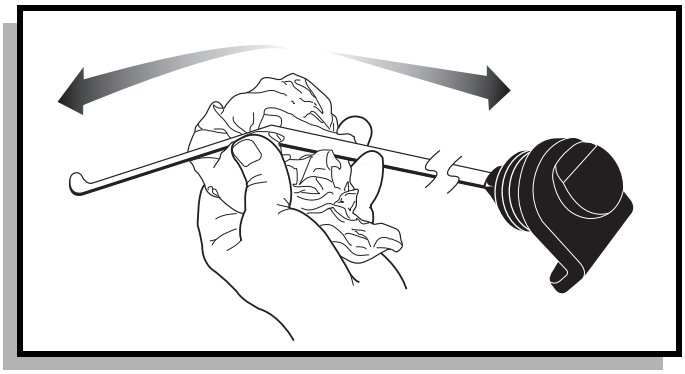


Fig. 22 Clean Entire Dipstick

COLD STARTING

Starting a cold engine **may** require use of the choke. Depress the accelerator approximately 1" (2.5 cm) or until the starter just begins to operate. Pull the choke out if required. Accelerate slowly and push the choke in completely when the engine runs smoothly.

⚠ CAUTION

Do not allow the starter to operate continuously for more than 10 seconds. Allow 30 seconds between starting attempts. If the vehicle does not start on the third attempt, turn the key switch off, set the park brake and determine the cause of the problem.

If the vehicle had been running and the engine does not start within 10 seconds, use the choke.

STARTING AND DRIVING

⚠ WARNING

To reduce the possibility of roll-back which could result in severe injury or vehicle damage, do not release service brake until engine has started.

To operate vehicle:

- Apply the service brake, place the key in the key switch and turn it to the 'ON' position.
- Move the direction selector to the direction desired.
- Release the park brake by depressing the service brake pedal until the park brake releases.
- Slowly depress the accelerator pedal to start the engine. Release service brake when engine starts.
- When the accelerator pedal is released, the ignition circuit is de-energized and the engine stops. To stop the vehicle more quickly, depress the **service brake pedal**.

NOTE

When the direction selector is in the reverse position, a warning signal will sound to indicate that the vehicle is ready to run in reverse.

STARTING THE VEHICLE ON A HILL

⚠ WARNING

To reduce the possibility of roll-back which could result in severe injury or vehicle damage, do not release service brake until engine has started.

Do not hold vehicle on hill by using accelerator and engine. This will cause premature and excessive wear to drive train components.

To reduce the possibility of permanent damage to the drive system, it is important to prevent excessive roll-back when starting the vehicle on a hill.

Place left foot on service brake and release the park brake. Depress accelerator with right foot and release the service brake by lifting left foot.

COASTING

⚠ WARNING

To reduce the possibility of severe injury or death from coasting at above recommended speeds, limit speed with service brake.

On steep hills, it is possible for the vehicle to coast at greater than normal speeds encountered on a flat surface. To reduce the possible loss of vehicle control and severe drivetrain damage, speeds should be limited to no more than the maximum governed speed on level

ground (see GENERAL SPECIFICATIONS). Limit speed by applying service brake.

FUEL

⚠ WARNING

To reduce the possibility of severe injury or death from improper fuel handling:

Do not smoke near the fuel tank.

Do not refuel near open flame or electrical items which could produce a spark.

Always handle gasoline in a well ventilated area.

Always wear eye protection to protect against splashed fuel and fuel vapors.

Always allow adequate space for the expansion of gasoline. Leave at least 1" (2.5 cm) space below bottom of filler neck.

Inspect fuel cap, tank and other components for leaks or deterioration that could cause a hazardous condition.

The fuel tank is located under the seat on the passenger side of the vehicle (Ref. Fig. 23 on page 14). Fill the tank with fresh, clean, automotive grade gasoline. High altitude or heavy use/load applications may benefit from higher octane gasoline.

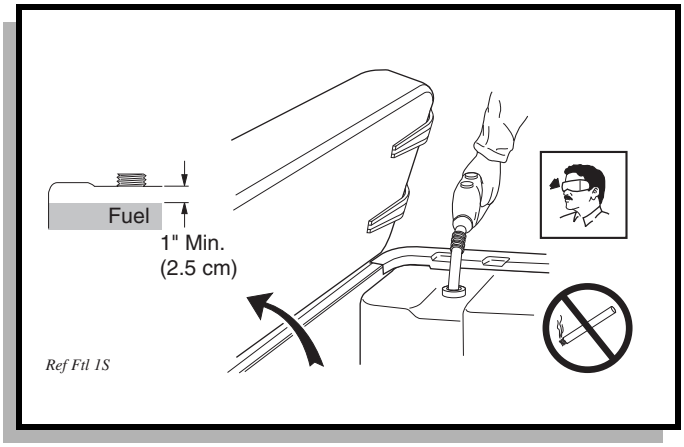


Fig. 23 Fuel Tank Location

Do not use gasoline which contains Methanol.

⚠ CAUTION

Some fuels, called oxygenated or reformulated gasoline, are gasoline blended with alcohols or ethers. Excessive amounts of these blends can damage the fuel system or cause performance problems. If any undesirable operating symptoms occur, use gasoline with a lower percentage of alcohol or ether.

Use fresh regular grade unleaded fuel. Ethanol blend fuel up to 10% is permissible.

BATTERY

⚠ CAUTION

Excessive use of accessories may drain the battery and leave insufficient reserve to start the vehicle.

The vehicle uses a combination starter/generator to both start the engine and charge the battery. The engine will not idle; therefore, the battery cannot be charged while the vehicle is stopped. Do not operate accessory items (such as accessory lights, radios, winch, etc.) excessively while the vehicle is stopped.

The generator is capable of supplying 35 amps; therefore, operation of all accessories could result in the discharge of the battery even though the engine is running and the generator operating. Discharging the battery is known as deep cycling. The battery is not a deep cycle model, but is a starting battery. Multiple deep cycling will result in the premature failure of the battery.

If the vehicle battery has become discharged, it must be charged using a 12 volt charger that is rated at 10 amps or less and in accordance with all instructions provided by the manufacturer of the charger.

LABELS AND PICTOGRAMS

Vehicles may be labeled with pictograms as a method of conveying information or warnings. Appendix A illustrates and explains pictograms that may appear on the vehicle. Not all pictograms shown in Appendix A will be found on your vehicle.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

⚠ CAUTION

SUN TOP & WINDSHIELD (If Equipped)

⚠ WARNING

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

The windshield does not provide protection from tree limbs or flying objects.

The top and windshield provide some protection from the elements; however, they will not keep the operator and passengers dry in a downpour. For complete protection from the elements, a weather enclosure can be installed. This vehicle is not equipped with seat belts and has not been designed to provide roll over protection.

Clean windshield with lots of water and a clean cloth. Minor scratches may be removed using a commercial plastic polish or Plexus plastic cleaner available from the Service Parts Department.

VEHICLE CLEANING AND CARE

VEHICLE CLEANING

⚠ WARNING

To reduce the possibility of severe injury or vehicle damage, read and understand all instructions supplied by manufacturer of pressure washer.

When pressure washing exterior of vehicle, do not use pressure in excess of 700 psi (4800 kpa). To reduce the possibility of cosmetic damage, do not use any abrasive or reactive solvents to clean plastic parts.

It is important that proper techniques and cleaning materials be used. Using excessive water pressure may cause severe injury to operator or bystander, damage to seals, plastics, seat material, body finish or electrical system. Do not use pressure in excess of 700 psi (4800 kpa) to wash exterior of vehicle.

Clean windshield with lots of water and a clean cloth. Minor scratches may be removed using a commercial plastic polish or Plexus® plastic cleaner available from the service parts department.

Normal cleaning of vinyl seats and plastic or rubber trim requires the use of a mild soap solution applied with a sponge or soft brush and wipe with a damp cloth.

Removal of oil, tar, asphalt, shoe polish, etc. will require the use of a commercially available vinyl/rubber cleaner.

The painted surfaces of the vehicle provide attractive appearance and durable protection. Frequent washing with lukewarm or cold water and mild detergent is required to preserve the painted surfaces.

Occasional cleaning and waxing with non-abrasive products designed for ‘clear coat’ automotive finishes will enhance the appearance and durability of the painted surfaces.

Corrosive materials used as fertilizers or for dust control can collect on the underbody of the vehicle. These materials will cause corrosion of underbody parts unless flushed occasionally with plain water. Thoroughly clean any areas where mud or other debris can collect. Sediment packed in closed areas should be loosened to ease it’s removal, taking care not to chip or otherwise damage paint.

If the engine does not start or runs improperly after washing, remove the spark plug wires (by pulling the spark plug boots, never the wires). Dry all connections with forced air. Reinstall the wires.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

REPAIR

LIFTING THE VEHICLE

Tool List	Qty. Required
Floor jack	1
Jack stands	4
Chocks	4

Some servicing operations may require the front wheels, the rear wheels, or the entire vehicle be raised.

⚠ WARNING

To reduce the possibility of severe injury or death from a vehicle falling from a jack:

Be sure the vehicle is on a firm and level surface.

Never get under a vehicle while it is supported by a jack.

Use jack stands and test the stability of the vehicle on the stands.

Always place chocks in front and behind the wheels not being raised.

Use extreme care since the vehicle is extremely unstable during the lifting process.

⚠ CAUTION

When lifting vehicle, position jacks and jack stands at the areas indicated only.

To raise the entire vehicle, install chocks in front and behind each front wheel (Ref. Fig. 24 on page 16). Center the jack under the rear frame crossmember. Raise the vehicle enough to place a jack stand under the outer ends of the rear axle.

Lower the jack and test the stability of the vehicle on the two jack stands.

Place the jack at the center of the front axle. Raise the vehicle enough to place jack stands under the frame crossmember as indicated.

Lower the jack and test the stability of the vehicle on all four jack stands.

If only the front or rear of the vehicle is to be raised, place the chocks in front and behind each wheel not being raised to stabilize the vehicle.

Lower the vehicle by reversing the lifting sequence.

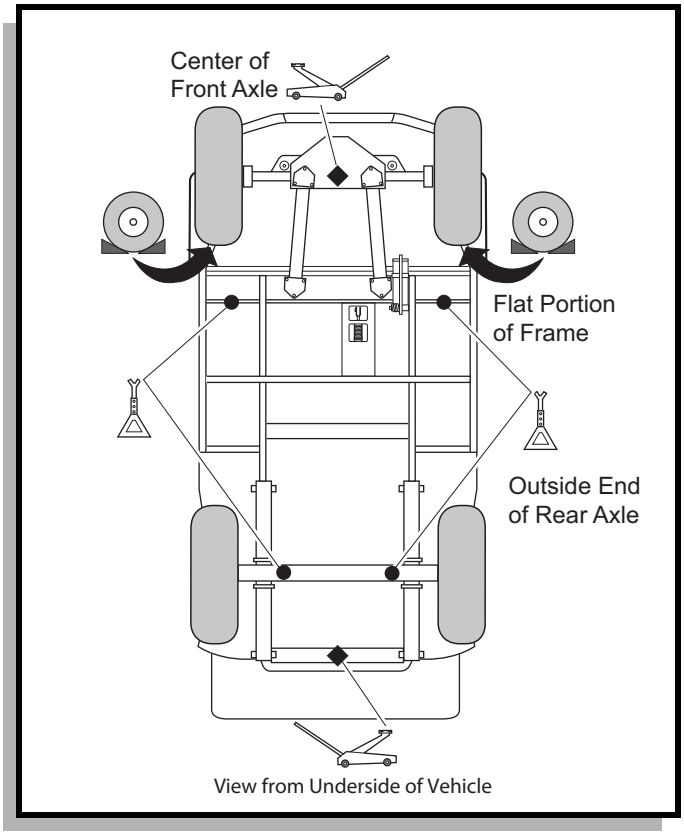


Fig. 24 Lifting the Vehicle

WHEELS AND TIRES

Tire Repair

Tool List	Qty. Required
Lug wrench, 3/4"	1
Impact socket, 3/4", 1/2" drive	1
Impact wrench, 1/2" drive	1
Torque wrench, 1/2" drive	1

⚠ WARNING

A tire explosion can cause severe injury or death. Never exceed inflation pressure rating on tire sidewall.

To reduce the possibility of tire explosion, pressurize tire with small amount of air applied

intermittently to seat beads. Due to the low volume of the small tires, overinflation can occur in seconds. Never exceed the tire manufacturer's recommendation when seating a bead. Protect face and eyes from escaping air when removing valve core.

To reduce the possibility of severe injury caused by a broken socket when removing wheels, use only sockets designed for impact wrench use.

Use caution when inflating tires. Overinflation could cause the tire to separate from the wheel or cause the tire to explode, either of which could cause severe injury.

Use caution when inflating tires. Due to the low volume of the small tires, overinflation can occur in seconds. Overinflation could cause the tire to separate from the wheel or cause the tire to explode.

Tire inflation should be determined by the condition of the terrain. See GENERAL SPECIFICATIONS section for recommended tire inflation pressure. For outdoor applications with major use on grassy areas, the following should be considered. On hard turf, it is desirable to have a **slightly** higher inflation pressure. On very soft turf, a lower pressure reduces the possibility of tires cutting into the turf. For vehicles being used on paved or hard surfaces, tire inflation pressure should be in the higher allowable range, but under no condition should inflation pressure be higher than recommended on tire sidewall. **All four tires** should have the same pressure for optimum handling characteristics. Be sure to install the valve dust cap after checking or inflating.

The vehicle is fitted with low pressure tubeless tires mounted on one piece rims; therefore, the most cost effective way to repair a puncture in the tread is to use a commercial tire plug.

NOTE

Tire plug tools and plugs are available at most automotive parts outlets and have the advantage of not requiring the tire be removed from the wheel.

If the tire is flat, remove the wheel and inflate the tire to the maximum recommended pressure for the tire. Immerse the tire in water to locate the leak and mark with chalk. Insert tire plug in accordance with manufacturer's instructions.

⚠ WARNING

To reduce the possibility of severe injury, be sure mounting/demounting machine is anchored to floor. Wear OSHA approved safety equipment when mounting/demounting tires.

If the tire is to be removed or mounted, the tire changing machine manufacturer's recommendations must be followed in order to reduce possibility of severe injury.

Wheel Installation

To reduce the possibility of component damage, do not tighten lug nuts to more than 85 ft. lbs. (115 Nm) torque.

NOTE

It is important to follow the 'cross sequence' pattern when installing lug nuts. This will assure even seating of the wheel against the hub.

With the valve stem to the outside, mount the wheel onto the hub with lug nuts. Finger tighten lug nuts in a 'cross sequence' pattern (Ref. Fig. 25 on page 17). Tighten lug nuts to 50 - 85 ft. lbs. (70 - 115 Nm) torque in 20 ft. lbs. (30 Nm) increments following the 'cross sequence' pattern.

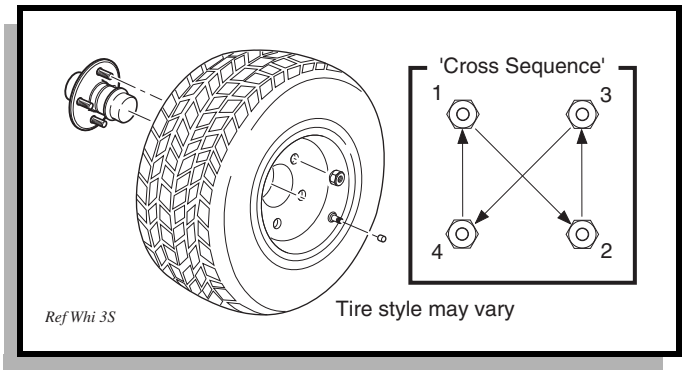


Fig. 25 Wheel Installation

Unidirectional Tires

Some vehicles may be fitted with unidirectional tires. These tires may be identified by a directional arrow on the sidewall. Be sure to position the wheel on hub correctly with arrow indicating direction of rotation when moving forward. (Ref. Fig. 26 on page 18).

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

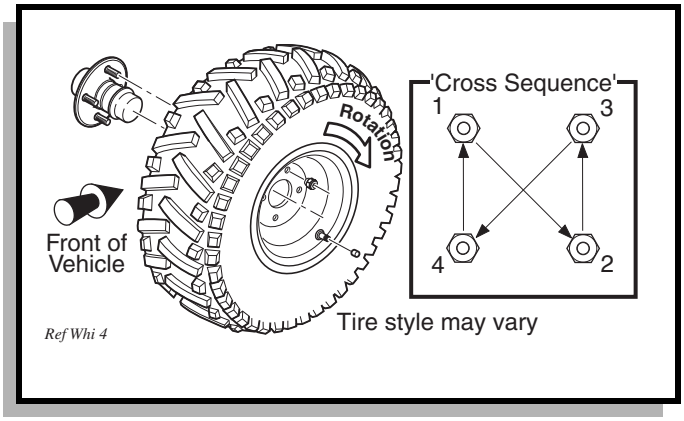


Fig. 26 Unidirectional Tire Wheel Installation

LIGHT BULB REPLACEMENT

For vehicles with headlights, locate the two screws on backside of cowl that secure headlight (Ref. Fig. 27 on page 18). Remove screws, pull headlight out and disconnect wires. Connect wires to new headlight, install in cowl and secure with screws previously removed.

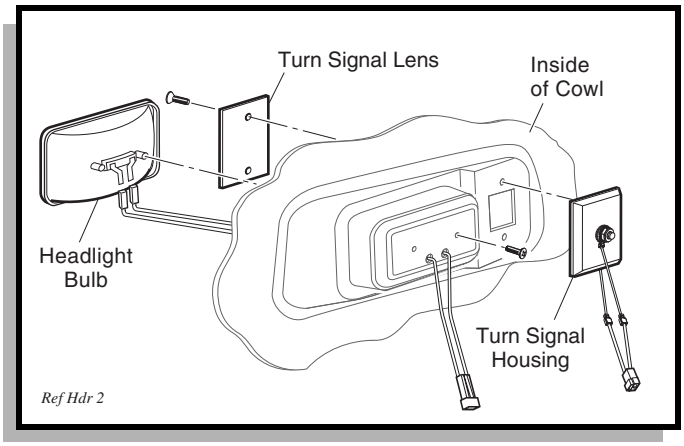


Fig. 27 Headlight Replacement

To replace the turn signal light bulb, support turn signal housing from backside of cowl while removing two screws securing lens. Install new bulb and replace lens.

To replace the tail and brake light bulb, roll the rubber bezel from around the edge of the taillight and remove lens (Ref. Fig. 28 on page 18). Install replacement bulb and replace lens.

To replace the tail and brake light bulb, remove hardware securing lens and remove lens. Install replacement bulb (Ref. Fig. 29 on page 18).

FUSE REPLACEMENT

To replace fuses, locate the fuse block under the driver side seat. Pull out old fuse and replace with a new automotive type fuse. Headlight and taillight bulbs and fuses are available from a local Distributor, an authorized Branch or the Service Parts Department.

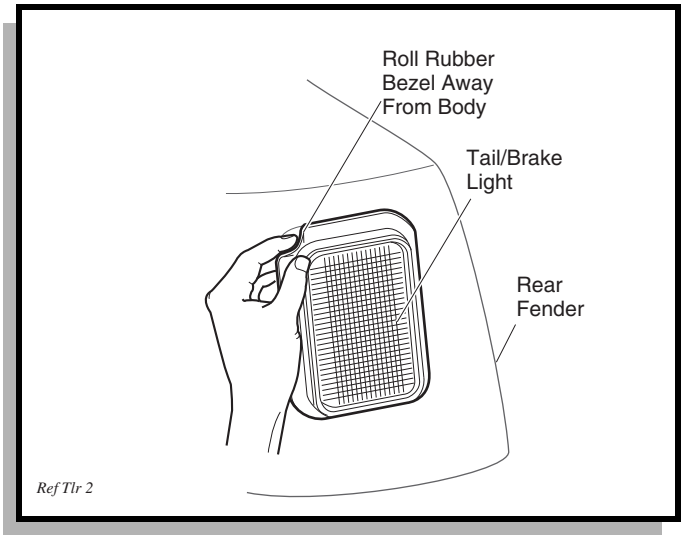


Fig. 28 Tail and Brake Light Bulb Replacement

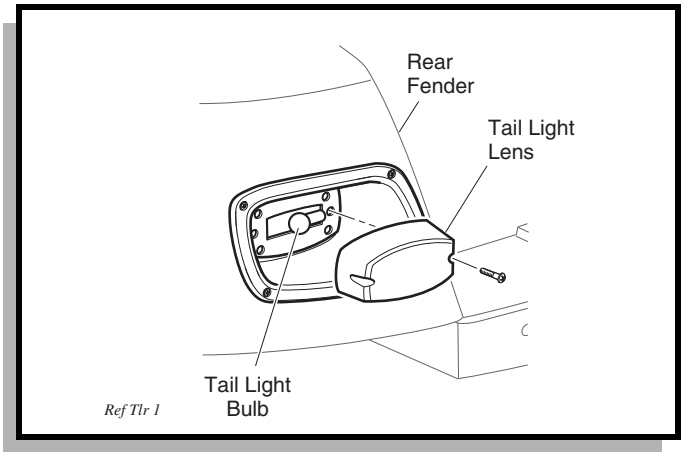


Fig. 29 Tail and Brake Light Bulb Replacement

VEHICLE WITH A DISCHARGED BATTERY

⚠ WARNING

To reduce the possibility of severe injury or death from inadvertent motion, do not attempt to 'jump start' a vehicle.

The vehicle is equipped with a starter/generator and does not idle. When starting the engine, the starter/generator functions as a starter and with the engine running, it functions as a generator.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

With the short running times associated with this kind of vehicle, the generator is more than adequate to maintain the battery charge level. The generator is not designed to charge a discharged battery.

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

If the vehicle battery has become discharged, it must be charged using a 12 volt charger that is rated at 10 amps or less. Read and understand all instructions provided by the manufacturer of the charger.

TRANSPORTING VEHICLE

TOWING

⚠ WARNING

This vehicle is not designed to be towed.

It is recommended that the vehicle be moved by placing the entire vehicle on a trailer, flatbed truck or other suitable transport.

NEUTRAL LOCK

To prevent the driven clutch from turning the rear wheels during service operations and to prevent wear to the belt while being towed, a neutral lock is located on the direction selector.

The neutral lock is located on the direction selector. To operate neutral lock, first turn the key switch to 'OFF', place direction selector in 'R' and remove seat. Pull out (motion 1) and rotate (motion 2) the neutral lock pin handle so that the pointed portion of the handle is over the side of the direction selector cam (Ref. Fig. 30 on page 19). Move direction selector lever towards the area between 'F' and 'R'. During that motion, the pin will snap into the hole in the direction selector mounting bracket, preventing any movement of the lever. When in this position, the direction selector remains locked in the neutral position.

⚠ WARNING

Spring loaded mechanism. To prevent possibility of fingers becoming pinched in the direction selector mechanism, hold direction selector lever when releasing neutral lock pin handle.

HAULING

⚠ WARNING

To reduce the possibility of severe injury or death while transporting vehicle:

Secure the vehicle and contents.

Never ride on vehicle being transported.

Always remove windshield before transporting.

Maximum speed with sun top installed is 50 m.p.h. (80 kph).

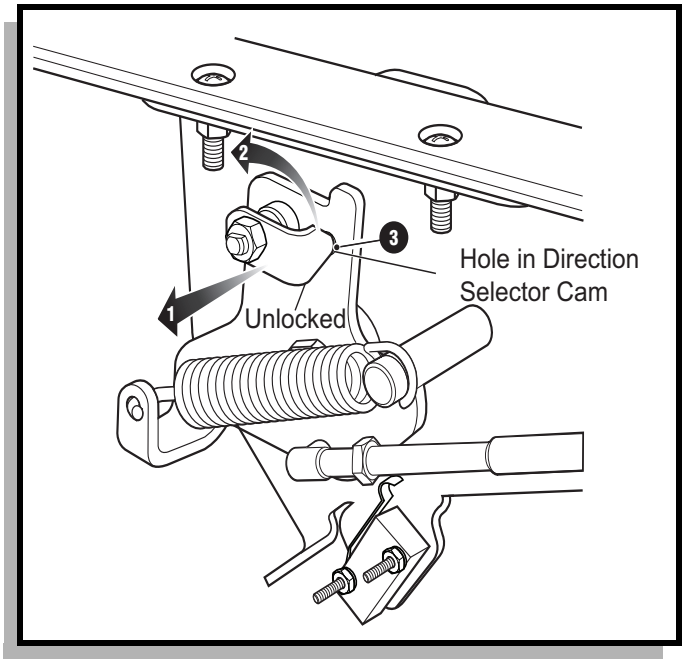


Fig. 30 Neutral Lock

If the vehicle is to be transported at highway speeds, the sun top must be removed and the seat bottom secured. When transporting vehicle below highway speeds, check for tightness of hardware and cracks in sun top at mounting points. Always remove windshield when transporting. Always check that the vehicle and contents are adequately secured before transporting. The rated capacity of the trailer or truck must exceed the weight of the vehicle (see GENERAL SPECIFICATIONS for vehicle weight) and load. Lock the park brake and secure the vehicle using ratchet tie downs.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

SERVICE AND MAINTENANCE

⚠ WARNING

To reduce the possibility of severe injury or death from improper servicing techniques:

Do not attempt any type of servicing operations before reading and understanding all notes, cautions and warnings in this manual.

Any servicing requiring adjustments to be made to the powertrain while the engine is running must be made with both drive wheels raised and vehicle properly supported on jack stands.

To reduce the possibility of engine damage, never operate vehicle at full throttle for more than 4 - 5 seconds while vehicle is in a 'no load' condition.

Wear eye protection when working on the vehicle. Use extra care when working around batteries, or using solvents or compressed air.

To reduce the possibility of causing an electrical arc, which could result in a battery explosion, turn off all electrical loads from the battery before removing battery wires.

Wrap wrenches with vinyl tape to reduce the possibility of a dropped wrench 'shorting out' a battery, which could result in an explosion.

Reduce the possibility of accidental starting by disconnecting battery at negative terminal before servicing.

The electrolyte in a battery is an acid solution which can cause severe burns to the skin and eyes. Treat all electrolyte spills to the body and eyes with extended flushing with clear water. Contact a physician immediately.

Any electrolyte spills should be neutralized with a solution of 2 teaspoons (10 ml) sodium bicarbonate (baking soda) dissolved in 1 quart (1 liters) of water and flushed with water.

Aerosol containers of battery terminal protectant must be used with extreme care. Insulate metal container to reduce the possibility of can contacting battery terminals which could result in an explosion.

It is in the best interest of both vehicle owner and service technician, to carefully follow the procedures recommended in this manual. Preventative maintenance, applied at recommended intervals, is the best guarantee for keeping the vehicle both dependable and economical.

This vehicle will give years of satisfactory service, providing it receives regular maintenance. Refer to the Periodic Service Schedule for appropriate service intervals (Ref. Fig. 32 on page 21). Refer to Lubrication Points for appropriate lubrication locations (Ref. Fig. 49 on page 30).

SERIAL NUMBER LABEL LOCATION

Two serial number and manufacture date code plates are on the vehicle. One is placed on the body below the front, driver side of the seat. The other is located on the chassis between the seat back supports (Ref. Fig. 31 on page 20).

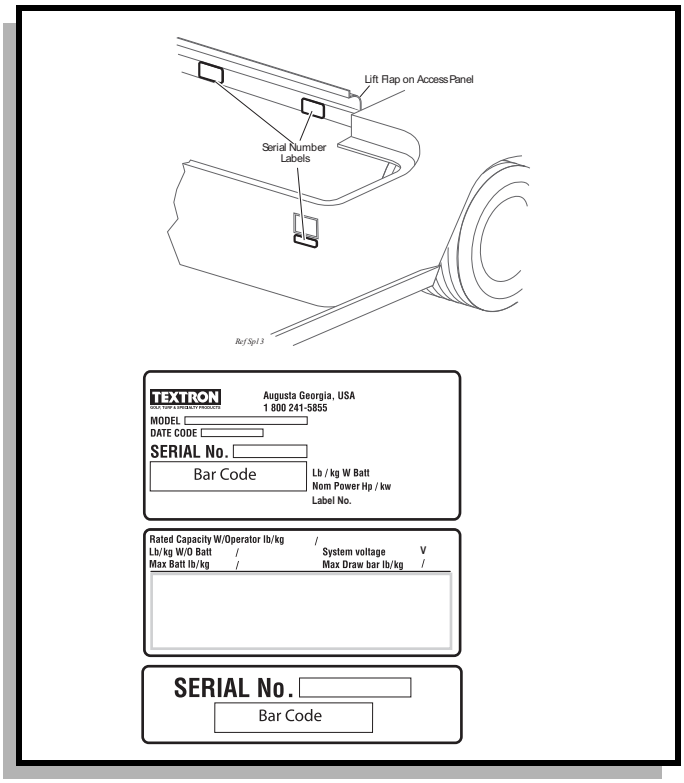


Fig. 31 Serial Number Label Location

Design changes take place on an ongoing basis. In order to obtain correct components for the vehicle, the manufacture date code, serial number and vehicle model must be provided when ordering service parts.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

⚠ CAUTION

To prolong vehicle life, some maintenance items must be serviced more frequently on vehicles used under severe driving conditions such as extreme temperatures, extreme dust/debris conditions, frequent use with maximum load.

To access powertrain for routine maintenance, lift or remove seat. For major repair, refer to appropriate Technician's Repair and Service Manual.

Some service procedures may require the vehicle to be lifted. Refer to LIFTING THE VEHICLE for proper lifting procedure and safety information.

✓ Check ♦ Clean, Adjust, etc. ▲ Replace

To perform service that is listed in this schedule but not described in this manual, contact a local Service Representative or see the Repair and Service Manual for this vehicle.

NOTE: *Some maintenance items must be serviced more frequently on vehicles used under severe driving conditions*

DAILY	
	BEFORE USE:
	✓ Check service brake general operation
	✓ Check park brake operation - does it hold on a hill.
	✓ Check warning device function in reverse
	✓ Check tire pressure, condition of tires & rims.
	✓ Check smooth operation of accelerator.
	✓ Check for loose or missing hardware.
	✓ Check Battery - state of charge, condition, loose terminals, corrosion, hold down & hardware
	✓ Check overall vehicle condition
WEEKLY (includes items listed in previous table & the following)	
TIRES	✓ Examine for cuts, excessive wear & pressure (See GENERAL SPECIFICATIONS)
WHEELS	✓ Check for bent rims, missing or loose lug nuts
FUEL GAUGE	✓ Check for proper operation (at fueling), and fuel cap vent is free of dirt
ENGINE OIL	✓ Check and add if required - DO NOT OVERFILL
COOLING FAN	✓ Check for build up of debris inside blower housing & clean if required.
STARTER/GENERATOR BELT	✓ Check for tension, wear, cracks
MONTHLY - 20 HOURS (includes items listed in previous table & the following)	
WIRING	✓ Check all wiring for loose connections and broken/missing insulation
ACCELERATOR	✓ Check for smooth movement - DO NOT LUBRICATE CABLE
SERVICE BRAKE (MECHANICAL BRAKES)	✓ Conduct brake performance test
PARK BRAKE	✓ Check brake performance and adjust if required
CHOKE CABLE	✓ Check for smooth movement and adjustment - DO NOT LUBRICATE CABLE
CARBURETOR LINKAGE	✓ Check attachment, adjust as required
DIRECTION SELECTOR	✓ Check attachment, adjust as required
ENGINE	✓ Check for unusual noise, vibration, acceleration, oil leaks
COOLING FAN	✓ Check for build-up of foreign matter inside blower housing & fins, clean if required
STEERING ASSEMBLY	✓ Check for abnormal play, tightness of all hardware
TIE ROD/LINKAGES	✓ Check for excessive play, bent components or loose connections
REAR AXLE	✓ Check for leakage, add SAE 30 oil as required
QUARTERLY - 60 HOURS (includes items listed in previous tables & the following)	
FRONT SHOCK ABSORBERS	✓ Check for oil leakage and loose fasteners

Fig. 32 Periodic Service Schedule

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

FRONT AXLE	✓ Check for damage to axle and loose or missing hardware
FRONT SPRINGS	✓ Check for loose hardware, cracks at attachments
FRONT WHEEL ALIGNMENT	✓ Check for unusual tire wear, align if required
PARK BRAKE	✓ Check for bent/binding linkage rod ✓ Check for damage or wear to latch arm or catch bracket ♦ Lubricate as required, use light oil. DO NOT LUBRICATE CABLES OR BRAKE LATCH
REAR SHOCK ABSORBERS	✓ Check for oil leakage, loose mounting hardware
ENGINE ELECTRICAL SYSTEM	✓ Check coil/spark plug wires for cracks/loose connections
FUEL SYSTEM	✓ Check for leaks at tank, cap, system lines, filters, pump, carburetor ✓ Check system lines for cracks/deterioration
THROTTLE/GOVERNOR LINKAGE	✓ Check operation and governed speed
HARDWARE AND FASTENERS	✓ Check for loose or missing hardware and components ♦ Tighten or replace missing hardware
SEMI-ANNUAL - 125 HOURS (includes items listed in previous tables & the following)	
BATTERY	♦ Clean battery & terminals ✓ Check charge condition and all connections
DIRECTION SELECTOR	✓ Check for wear and smooth movement (lubricate shaft with light oil if required)
KING PINS	✓ Check for excessive play and tightness of retaining nuts
STEERING ASSEMBLY	♦ Lubricate, use wheel bearing grease ✓ Check bellows and pinion seal for damage or grease leakage
RACK END BALL JOINT	♦ Lubricate, use wheel bearing grease
REAR AXLE	✓ Check for unusual noise and loose or missing mounting hardware
AIR FILTER ELEMENT	✓ Check filter element, clean/replace as required
OIL FILTER	▲ Replace (at oil change)
ENGINE OIL	▲ Replace with SAE 10W-30 or 10W-40 that meets or exceeds SF, SG, CC oil, DO NOT OVERFILL
DRIVE BELT	✓ Check for cracks, fraying and excessive wear
ANNUAL - 250-300 HOURS (includes items listed in previous tables & the following)	
FRONT WHEEL BEARINGS	✓ Check and adjust as required, see Technician's Repair and Service Manual
REAR AXLE	✓ Check lubricant, add lubricant (Ref. Fig. 47 on page 29) as required
SERVICE BRAKES	♦ Clean and adjust, see Technician's Repair and Service Manual ✓ Check brake shoe linings, see Technician's Repair and Service Manual
FUEL FILTER	▲ Replace
SPARK PLUG	▲ Replace, gap new plug (Ref. Capacities and Replacement Parts on Page 31)
MUFFLER/EXHAUST	✓ Check mounting hardware; check for leaks at head and muffler gaskets
VALVES	✓ Check cold (intake/exhaust) per Technician's Repair and Service Manual
500 HOURS (includes items listed in previous tables & the following)	
CARBURETOR	♦ Clean
CYLINDER HEAD AND PISTON	♦ Remove carbon from cylinder head and piston ✓ Check valve seats for carbon buildup and clean as required

Fig. 32 Periodic Service Schedule

TIRE INSPECTION

Tire condition should be inspected per the Periodic Service Schedule (Ref. Fig. 32 on page 21). Inflation pressures should be checked when the tires are cool. Be sure to install the valve dust cap after checking or inflating.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

FOUR CYCLE ENGINE

Engine Specifications

Engine model FJ400D
Type.....Four cycle, OHV
Number of cylinders 1
Displacement.....401 cc
Rated horsepower..... 13 hp
Spark plug type..... NGK BPR2ES
Spark plug gap .....028" - .031" (.70 - .80 mm)
Cooling ..... Forced air cooled
Oil Filter.....Cartridge type full flow filter
Oil Pump..... Positive displacement pump

Engine Description

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

CHECKING THE OIL LEVEL

⚠ CAUTION

Do not overfill engine. Too much oil may cause engine to smoke or spark plug fouling.

Too much oil may cause smoking or allow oil to enter the air filter enclosure.

The oil should be checked with the engine warm. The vehicle should be on a level surface with the parking (PARK) brake engaged. Allow adequate time for oil to drain into the crankcase before checking.

Remove the dipstick and wipe off the entire area with a lint free cloth (Ref. Fig. 33 on page 23).

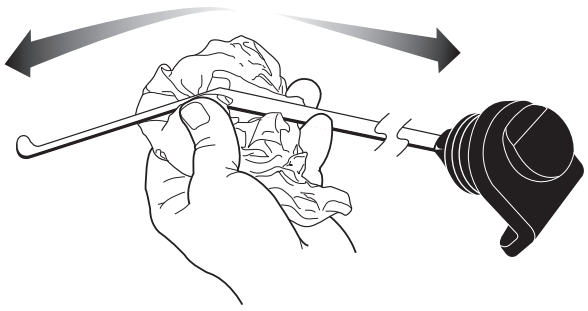


Fig. 33 Clean Entire Dipstick

Insert the dipstick **fully** into the dipstick hole and remove. Examine the level of the oil on the dipstick.

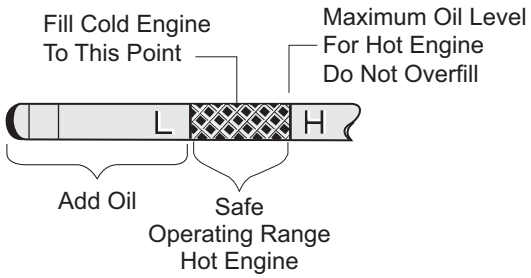


Fig. 34 Check Oil Level on Dipstick

The engine can be operated safely as long as oil is within the safe operating range as indicated on the dip stick. **Do not operate vehicle if oil level is below the safe area indicated on the dipstick.**

Oil should be added to bring the level into the safe operating range. Remember that oil expands as it gets hot, **Do not overfill** (Ref. Fig. 34 on page 23). Check that the oil cap is firmly in place.

NOTE

When adding oil between oil changes, do not mix brands and viscosity grades of oil.

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

Changing the Oil

Tool List	Qty. Required
Socket, 3/8" drive	1
Ratchet, 3/8" drive	1
Extension, 3/8" drive, 8"	1
Oil drain pan	1
Wrench 3/4"	1

For maximum performance and longevity, the engine oil should be replaced after the first 8 hours of operation. After the initial oil change, it should be changed every 125 hours of operation or semi-annually, whichever comes first.

The selection of oil is dependent upon the service that the vehicle will perform. Most vehicles require 10W-30 oil, whereas vehicles used at capacity or near capacity load applications will utilize 10W-40 oil after a break-in period of 100 hours (Ref. Fig. 35 on page 24).

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

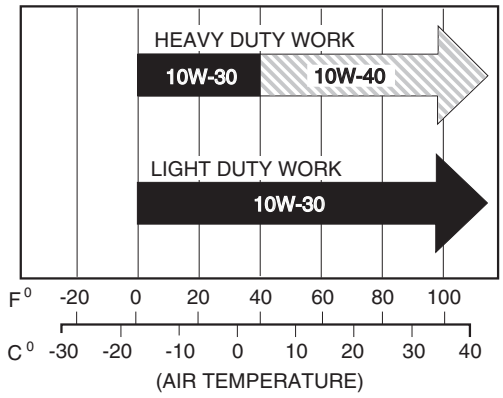


Fig. 35 Oil Viscosity Chart

NOTE

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

⚠ WARNING

Be aware that engine fluids may be hot and contact to the skin may cause severe burns. Wear rubber gloves to protect skin from exposure to the old oil and degreaser.

The oil should be changed with engine warm. Park vehicle on a level surface, engage parking brake and remove key. Place a drain pan under engine. Wipe top of the engine clean with a cloth (Ref. Fig. 36 on page 24). Remove the oil fill cap.

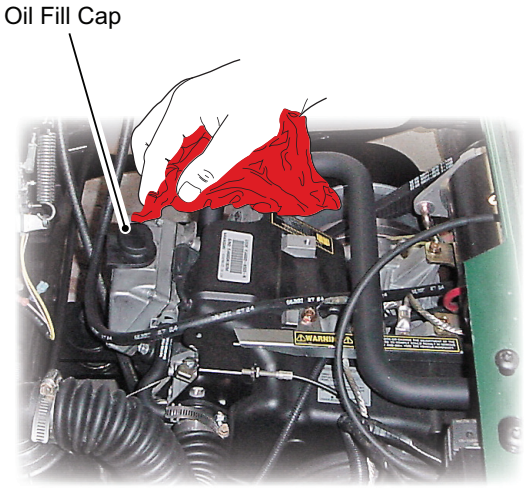


Fig. 36 Cleaning Top of Engine

Clean the area around filter. Using a filter wrench, strap wrench or other suitable wrench (A), remove the filter (B) from the engine and allow the oil to drain. The 'O' rings may remain on engine (A) or filter (B) (Ref. Fig. 37 on page 24)

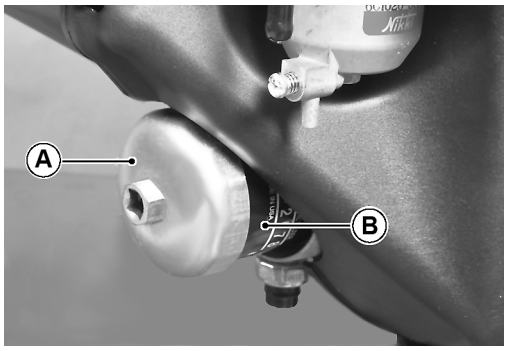


Fig. 37 Remove Oil Filter

Inspect the filter. Make sure the 'O' ring is not left on the engine surface.

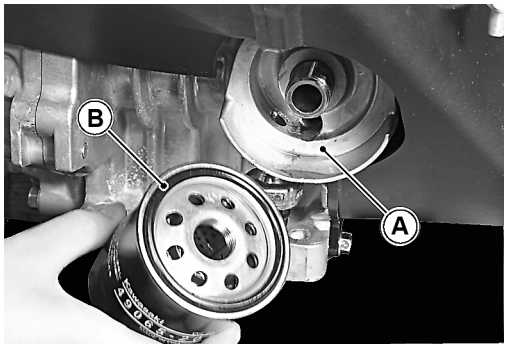


Fig. 38 Inspect Oil Filter

⚠ WARNING

Be careful of hot oil when drained. It may be hot enough to burn you severely

Drain the oil by removing the drain plug found at the rear of the engine base. Remove using a 3/4" wrench. At the first oil change, **small** metal chips and lint may be found. This is normal, resulting from the break-in period. Inspect the filter at every oil change. The presence of large metal chips could indicate possible damage to the engine.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

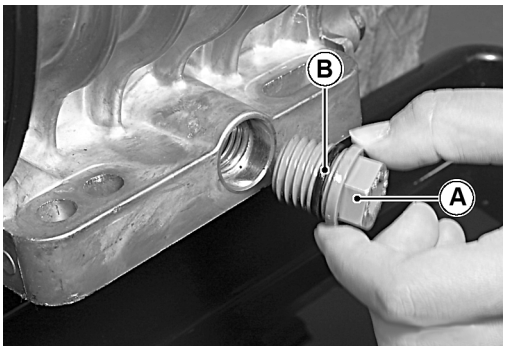


Fig. 39 Oil Drain Plug

Wipe the area around the drain plug mount with a lint free cloth and inspect the drain plug (A) for damage; replace if necessary. Replace the "O"-ring (B) with a new one and tighten to 61 in. lbs. (7.0 Nm) torque.

Apply engine oil to the oil filter seal and install oil filter onto the engine until the seal contacts mounting surface of the engine. Then turn the filter 2/3 to 3/4 rotations by HAND(S). Pour in the specified type and amount of oil See “Capacities and Replacement Parts” on page 31.

Oil capacity is 1 1/3 quarts (1.3 liters). Add slightly less than 1 1/3 quarts (1.3 liters) to allow for possible residual oil left in engine. The oil must be high quality oil that meets or exceeds API SF, SG, CC standards (Ref. Fig. 40 on page 25). Check oil level on dipstick. Oil should be slightly below ‘H’ to allow for expansion. If necessary, continue to add oil slowly and allow time for oil to flow down into engine. Check oil level on dipstick. **Do not overfill.**

⚠ CAUTION

Do not overfill engine. Too much oil may cause smoking or allow oil to enter the air filter enclosure.

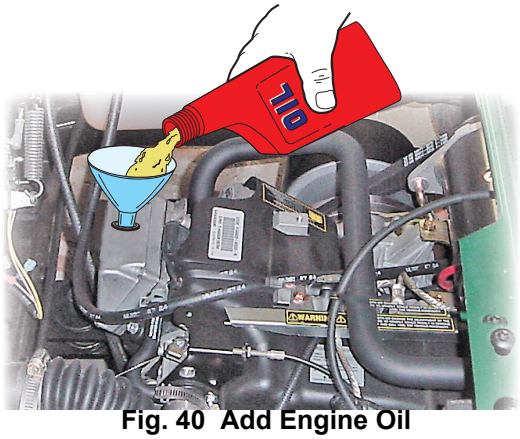


Fig. 40 Add Engine Oil

NOTE

Both the oil dipstick and fill cap must be in place before operating the engine. Failure to install the dipstick and fill cap will result in oil being discharged into the engine compartment.

As a final check, check the oil level again with the vehicle on level ground. Like all liquids, oil increases in volume when warm. The full ‘H’ mark on the dipstick is calibrated for an engine at operating temperature. When the engine is cold, the oil will be below the full mark. The engine can be operated safely as long as the oil is within the safe operating range as indicated on the dipstick. **Do not operate vehicle if oil level is below the safe area indicated on the dipstick.**

STARTER/GENERATOR BELT TENSION

Tool List	Qty. Required
Belt tension gauge	1
Wrench, 3/4"	1
Wrench, 9/16"	2
Ratchet, 3/8" drive	1
Socket, 3/4", 3/8" drive	1

The starter/generator belt tension should be checked after the first 15 - 20 hours and set to 75 - 80 lbs. (34 - 36 kg).

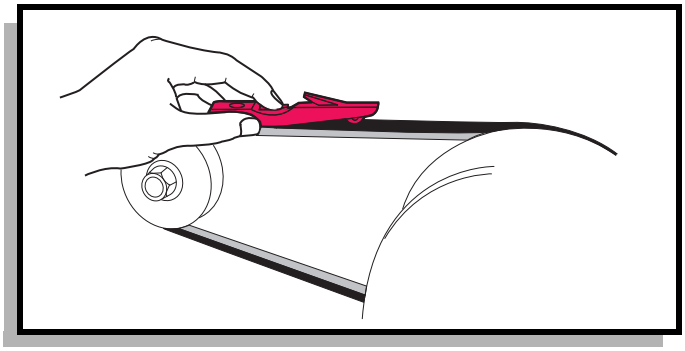


Fig. 41 Check Belt Tension with Gauge

NOTE

A loose belt can cause audible vibration and squeal.

Tighten a **new** starter/generator belt to 90 - 110 lbs. (41-50 kg) tension when a gauge is applied half way between the two pulleys (Ref. Fig. 41 on page 25).

A **new** belt may be checked manually. A maximum deflection of 3/8" (10 mm) is acceptable (Ref. Fig. 42 on page 26). Tighten an **existing** belt to 75 - 80 lbs. (34 - 36 kg) tension using the same technique and inspect for

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

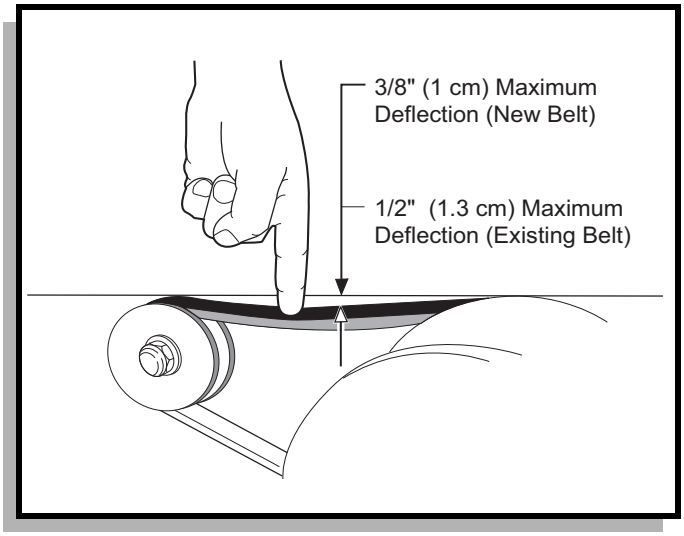


Fig. 42 Check Belt Tension Manually

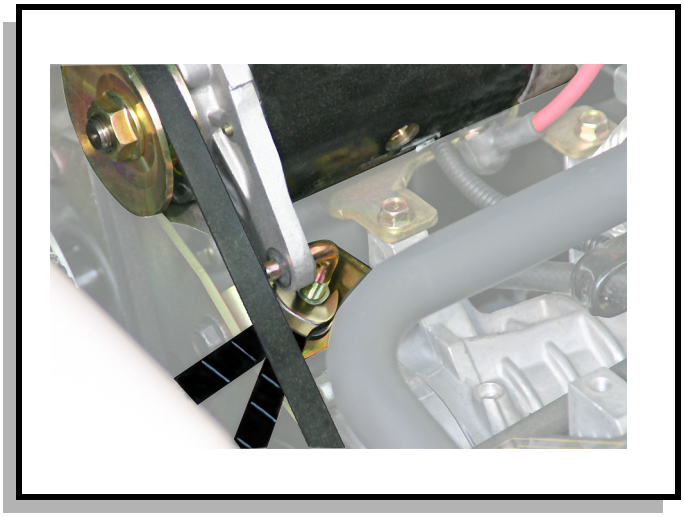


Fig. 43 Adjust Belt Tension

cracking or wear. A maximum deflection of 1/2" (13 mm) is acceptable

Adjusting The Belt

Loosen the starter/generator pivot bolt.

While holding the lower adjusting nut with a wrench, loosen the upper jam nut with another wrench. Move the lower nut up or down the adjustment bolt until proper belt tension is achieved. Hold the lower nut in place and tighten the upper jam nut against it (Ref. Fig. 43 on page 26).

Tighten the starter/generator pivot bolt.

BATTERY CLEANING

⚠ CAUTION

To reduce the possibility of damage to vehicle or floor, neutralize acid before rinsing battery.

To reduce the possibility of damage to electrical components while cleaning, do not use a pressure washer.

Cleaning should take place per the Periodic Service Schedule (Ref. Periodic Service Schedule on Page 21).

When cleaning the outside of the battery and terminals, first spray with a solution of sodium bicarbonate (baking soda) and water to neutralize any acid deposits before rinsing with clear water.

Use of a water hose without first neutralizing any acid, will move acid from the top of the battery to another area of the vehicle or storage facility where it will attack the metal structure or the concrete/asphalt floor. Additionally, a residue will be left on the battery which is conductive and will contribute to the discharge of the battery.

⚠ WARNING

To reduce the possibility of battery explosion that could result in severe injury or death, do not use metallic spray wand to clean battery and keep all smoking materials, open flame or sparks away from the battery.

The correct cleaning technique is to spray the top and sides of the battery with a solution of sodium bicarbonate (baking soda) and water. This solution is best applied with a garden type sprayer equipped with a **non metallic spray wand or a plastic spray bottle**. The solution should consist of the amounts of sodium bicarbonate (baking soda) and clear water shown below (Ref. Fig. 44 on page 27). In addition to the battery, special attention should be paid to metal components adjacent to the battery which should also be sprayed with the sodium bicarbonate (baking soda) solution.

Allow the solution to sit for at least three minutes; use a soft bristle brush or cloth to wipe the tops of the battery to remove any residue that could contribute to the self discharge of the battery. Rinse the entire area with low pressure clear water. Do not use a pressure washer.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

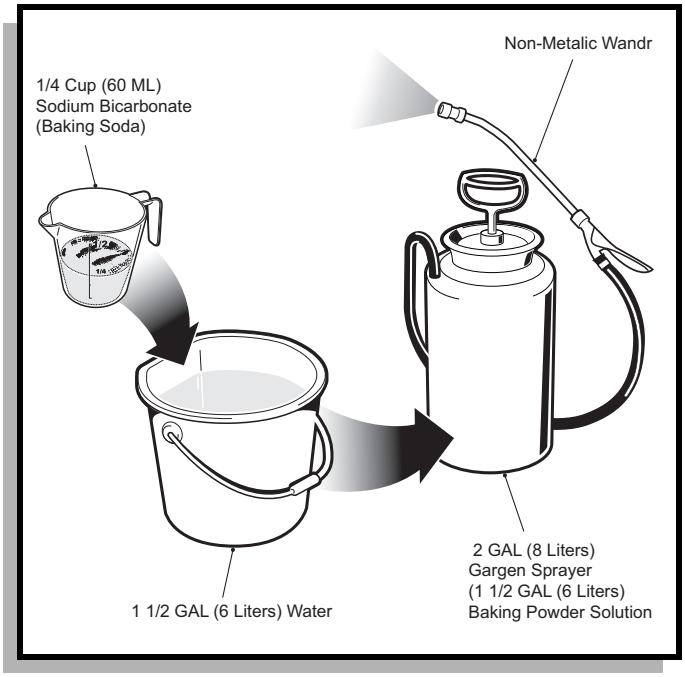


Fig. 44 Preparing Acid Neutralizing Solution

BRAKES

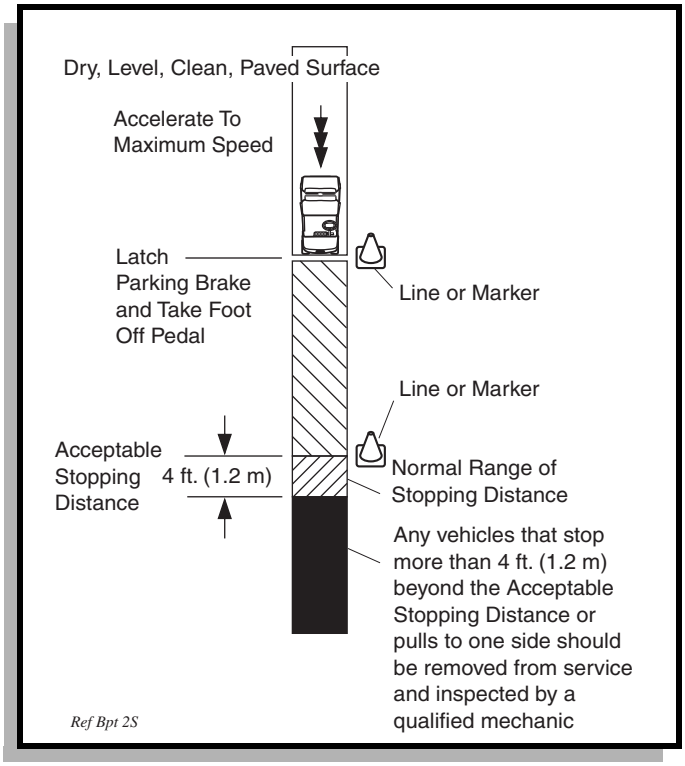


Fig. 45 Typical Brake Performance Test

⚠ WARNING

To reduce the possibility of severe injury or death, always evaluate pedal travel before operating a vehicle to verify some braking function is present.

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

NOTE

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

The Periodic Brake Performance Test should be performed regularly as an evaluation of braking system performance. It is useful as a method of identifying subtle loss of performance over time.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

Periodic Brake Test For Mechanical Brakes

The purpose of this test is to compare the braking performance of the vehicle to the braking performance of new or 'known to be good' vehicles or to an established acceptable stopping distance. Actual stopping distances will be influenced by weather conditions, terrain, road surface condition, actual vehicle weight (accessories installed) and vehicle speed. No specific braking distance can be reliably specified. The test is conducted by latching the park brake to eliminate different pedal pressures and to include the affects of linkage mis-adjustment.

Establish the acceptable stopping distance by testing a new or 'known to be good' vehicle and recording the stopping location or stopping distance. For fleets of vehicles, several vehicles should be tested when new and the range of stopping locations or distances recorded.

NOTE

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

Drive the vehicle at maximum speed on a flat, dry, clean, paved surface (Ref. Fig. 45 on page 27). Quickly depress the brake pedal to latch the parking brake at the line or marker in the test area and remove foot from pedal. The vehicle should stop aggressively. The wheel brakes may or may not lock. Observe the vehicle stopping location or measure the vehicle stopping distance from the point at which the brakes were latched. The vehicle should stop within the 'normal' range of stopping distances. If the vehicle stops more than 4 ft. (1.2 m) beyond the acceptable stopping distance or pulls to one side, the vehicle has failed the test and should be tested again.

If the vehicle fails the second test, it should **immediately** be removed from service. The vehicle **must** be inspected by a qualified mechanic who should refer to the TROUBLESHOOTING section in the Technician's Repair and Service Manual.

AIR INTAKE AND COOLING FINS

⚠ WARNING

To prevent possible burns, engine parts should be kept clean to reduce risk of overheating and ignition of accumulated debris. After every off road use, allow to cool and then check for a build up of dirt and debris in the air intake and cooling fins. Dirt and debris may clog the engine's air cooling system. Clean areas shown to prevent engine damage. Keep linkages, springs and controls clean. Keep area around muffler free of any combustible material.

At least once a year, or more often under adverse conditions) the cooling system should be cleaned. Cleaning will assure an adequate supply of air to the cooling fins. Compressed air may be used for routine cooling system maintenance.

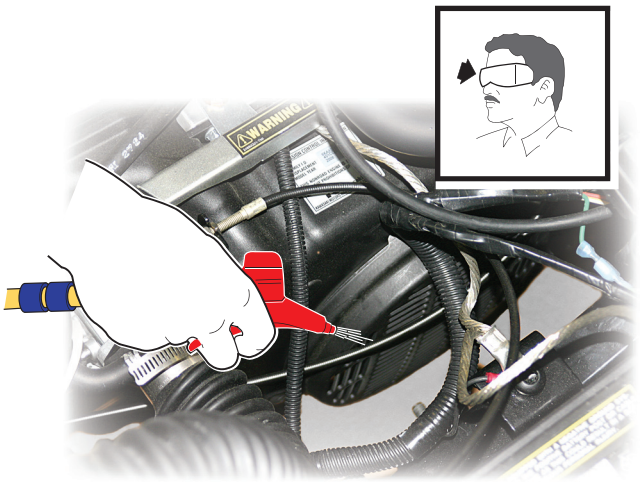


Fig. 46 Cleaning Cooling System with Air

REAR AXLE

The rear axle is provided with a lubricant level check plug located on the driver side at the rear of the housing (Ref. Fig. 47 on page 29). Unless leakage of rear axle lubricant is evident, an annual lubricant check is sufficient.

Checking The Lubricant Level

Tool List	Qty. Required
Socket, 13 mm, 3/8" drive	1
Ratchet, 3/8" drive	1
Funnel	1

Clean the area around the check and fill plugs. Remove the check plug. The correct lubricant level is **just** below the bottom of the threaded hole (Ref. Fig. 47 on page 29). If lubricant is to be added, remove the fill plug and add lubricant using a funnel. Add lubricant slowly until

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

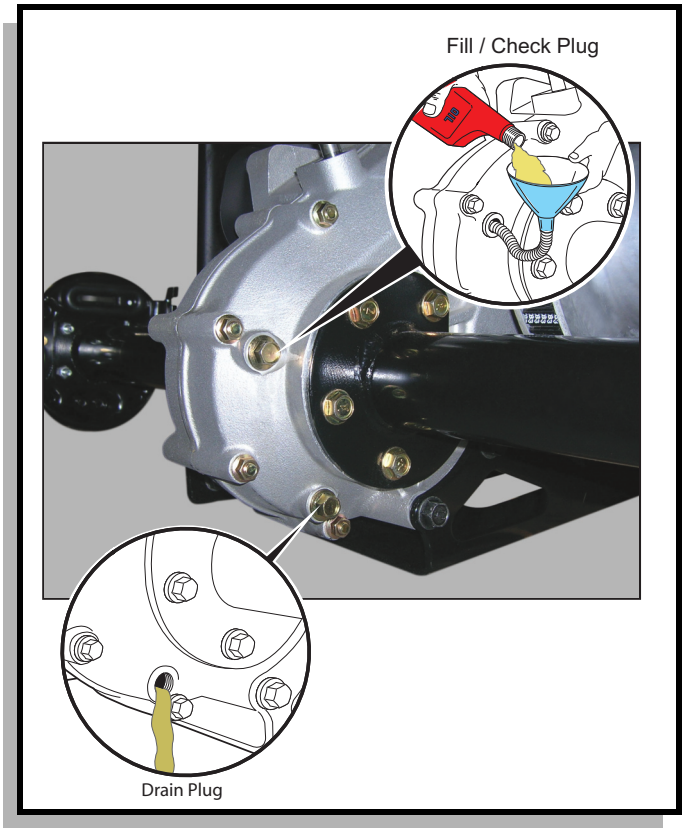


Fig. 47 Add, Check and Drain Rear Axle Lubricant

lubricant starts to seep from the check plug hole. Install the check plug / fill plug. In the event that the lubricant is to be replaced, a drain plug is provided at the bottom of the differential housing.

AIR CLEANER INSPECTION AND REPLACEMENT

The air cleaner unit on the vehicle is a dry unit. **Do not** use oil on the filter element or any part of the unit. To aide installation and sealing, petroleum jelly may be applied to back side of cover tabs and each side of filter seal.

Cleaning the Air Filter Element

⚠ CAUTION

Do not use compressed air to clean the air filter; doing so will damage the filter which may result in damage to the engine.

The air cleaner element is accessible by unsnapping the clips on the air canister and removing the cover and air filter element (Ref. Fig. 48 on page 29). Clean inside of cover, canister and dust collector. Install the element and cover the same way they were removed. Be sure the positioning arrow on cover is pointing upward and all clips are fastened securely.

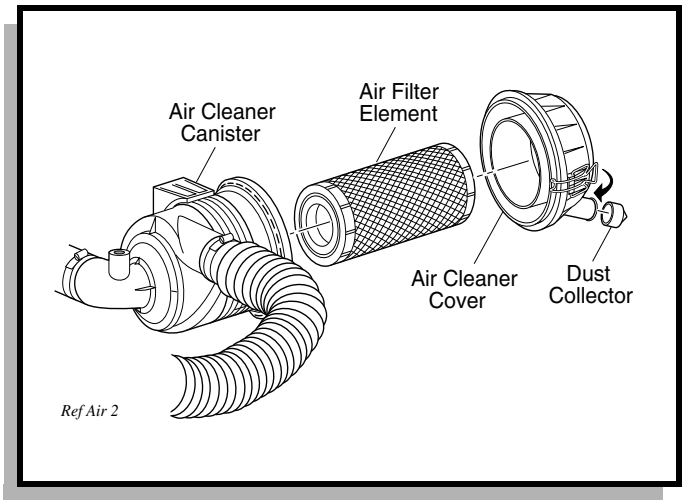


Fig. 48 Air Cleaner

If the element is in acceptable condition, loose dirt may be removed by tapping the filter lightly. Do not use oil on the filter element or any part of the unit.

LUBRICATION

⚠ CAUTION

Do not use more than three (3) pumps of grease in any grease fitting at any one time. Excess grease may cause grease seals to fail or grease migration into areas that could damage components.

Putting more than three pumps of grease in a grease fitting could damage grease seals and cause premature bearing failure (Ref. Fig. 49 on page 30).

SPARK PLUG

Tool List	Qty. Required
Spark plug socket, 13/16", 1/2" drive	1
Ratchet, 1/2" drive	1
Plug gauge, wire type	1
Anti-seize compound	AR
Torque wrench, 1/2" drive, ft. lbs.	1

⚠ CAUTION

Use care not to over-tighten the plug. Over-tightening can cause damage to the aluminum cylinder head threads.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

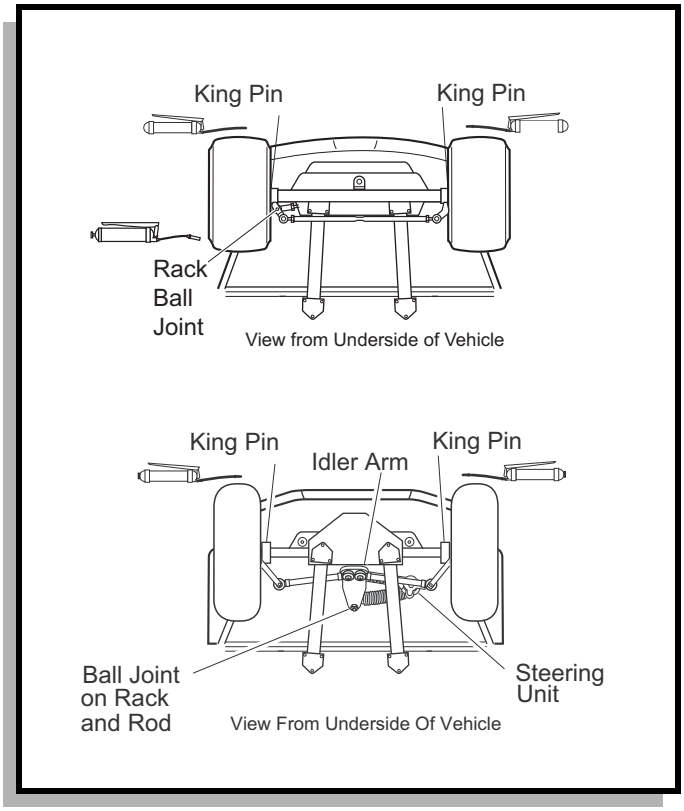


Fig. 49 Lubrication Points

Remove and inspect the spark plug at intervals indicated in the Periodic Service Schedule (Ref. Fig. 32 on page 21). Spark plug should be properly gapped (Ref. Fig. 50 on page 30). Tighten to 16 ft. lbs. (22 Nm) torque.

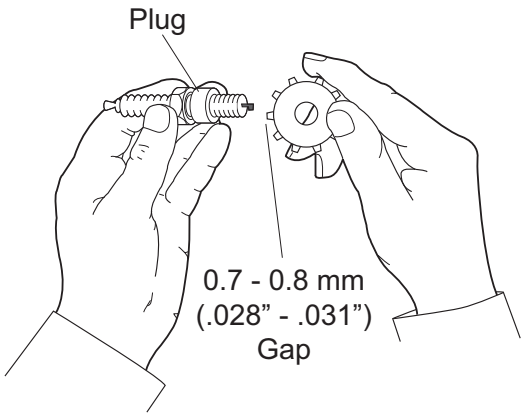


Fig. 50 Gapping the Spark Plug

Fouled spark plug is indicated by a wet, black appearance. This could be caused by a dirty air filter element or other restrictions in the air intake system. Incorrectly adjusted valves, spark plug wire which is in poor condition or poor quality fuel could also contribute to the problem.

PROLONGED STORAGE

⚠ WARNING

To reduce the possibility of severe injury or death resulting from a possible explosion:

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

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

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

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

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

Preparing the engine for a prolonged storage period (30 days or more) calls for a few simple steps to prevent a build up of varnish and gum in the carburetor and corrosion in the engine.

- Raise the rear of the vehicle and support on jack stands. Refer to 'Lifting the Vehicle' for proper lifting procedure and safety information.
- Disconnect the fuel hose **at the fuel tank** and plug hose.
- With proper ventilation, depress the accelerator pedal and allow engine to run until it stops due to lack of fuel.
- Remove spark plug and pour about 1 oz. (30 ml) of engine oil into the cylinder. Replace spark plug, ground spark plug wire and use starter to turn engine over a few seconds to distribute oil.

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

- Add a gasoline additive to the tank in accordance with the manufacturer's recommendations.
- Reattach fuel line to tank and drive the vehicle for several minutes to circulate the additive through the carburetor.
- While engine is still warm, change oil.
- Clean body, chassis and engine of debris, mud, chaff or grass.

CAPACITIES AND REPLACEMENT PARTS

Fuel Tank / Fuel	6.0 gal (22.5 liters) / 87 Octane Min.
Engine Oil	1.4 US qt (1.3 liters)
Oil Filter	P/N 26591-G01
Air Filter	P/N 28463-G01
Spark Plug	NGK BPR2ES (P/N 25523-G3)
	.020 - .030" (.71 - .75 mm) Gap
Starter/Generator Belt	P/N 606138
Clutch Belt	P/N 606136
Rear Axle Oil	51 oz (1.5 liters) / SAE 30
Fuse	15 amp (P/N 18392-G1)
Headlight Sealed Beam	(P/N 20209-G3)
Turn Signal Bulb	(P/N 20574-G3)
Tail Light Bulb	#1157 (P/N 21759-G1)

Fig. 51 Capacities and Replacement Parts

HARDWARE

Periodically, the vehicle should be inspected for loose fasteners. Fasteners should be tightened in accordance with the Torque Specifications table (Ref. Fig. 52 on page 32).

Use care when tightening fasteners and refer to the Technician's Repair and Service Manual for specific torque values.

Generally, three grades of hardware are used in the vehicle. Grade 5 hardware can be identified by the three marks on the hexagonal head and grade 8 hardware is identified by 6 marks on the head. Unmarked hardware is Grade 2 (Ref. Fig. 52 on page 32).

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

ALL TORQUE FIGURES ARE IN FT. LBS. (Nm)
Unless otherwise noted in text, tighten all hardware in accordance with this chart.
This chart specifies 'lubricated' torque figures. Fasteners that are plated or lubricated when installed are considered 'wet' and require approximately 80% of the torque required for 'dry' fasteners.

BOLT SIZE	1/4"	5/16"	3/8"	7/16"	1/2"	9/16"	5/8"	3/4"	7/8"	1"
Grade 2	4 (5)	8 (11)	15 (20)	24 (33)	35 (47)	55 (75)	75 (102)	130 (176)	125 (169)	190 (258)
Grade 5	6 (8)	13 (18)	23 (31)	35 (47)	55 (75)	80 (108)	110 (149)	200 (271)	320 (434)	480 (651)
Grade 8	6 (8)	18 (24)	35 (47)	55 (75)	80 (108)	110 (149)	170 (230)	280 (380)	460 (624)	680 (922)

BOLT SIZE	M4	M5	M6	M8	M10	M12	M14			
Class 5.8 (Grade 2) 5.8	1 (2)	2 (3)	4 (6)	10 (14)	20 (27)	35 (47)	55 (76.4)			
Class 8.8 (Grade 5) 8.8	2 (3)	4 (6)	7 (10)	18 (24)	35 (47)	61 (83)	97 (131)			
Class 10.9 (Grade 8) 10.9	3 (4)	6 (8)	10 (14)	25 (34)	49 (66)	86 (117)	136 (184)			

Ref Tsp 1

Fig. 52 Torque Specifications and Bolt Grades

Read all of Section B and this section before attempting any procedure. Pay particular attention to all Notes, Cautions and Warnings.

NOTES:

NOTES:

GENERAL SPECIFICATIONS

GENERAL SPECIFICATIONS

GASOLINE POWERED ST SPORT

STANDARD EQUIPMENT:

CHASSIS	Welded Tubular Steel; Powder Coated (DuraShield™)
BODY (Front)	Flexible, Impact Resistant DuraShield™ Injection Molded TPE (Thermoplastic Elastomer) with Base Coat/Clear Coat
BODY (Rear)	Lightweight, replaceable steel panels
BATTERY	One 12 Volt Maintenance Free
ENGINE	13 HP (rated), 401 cc Single Cylinder, Air Cooled, Overhead Valve Pressurized Lubrication with replaceable Oil Filter Internal Balance Shaft Solid State Ignition Replaceable Dry Cartridge Air Filter & Remote Intake Fixed Jet Bowl Carburetor, Pulse Fuel Pump
TRANSAXLE	11.42:1 Helical geared with Neutral Detent and Ground Speed Governor
TRANSMISSION	Automatic Continuously Variable Transmission (CVT)
FUEL TANK	6 Gal (23 L) Tank. 36 lbs. (16 kg) Fuel Weight
BRAKES	Dual Rear Wheel, Self-Adjusting Mechanical Drum Brakes
PARKING BRAKE	Automatic Parking Brake Release with Self-Compensating System
FRONT SUSPENSION	Leaf Springs with Hydraulic Shock Absorbers
REAR SUSPENSION	Leaf Springs with Hydraulic Shock Absorbers
STEERING	Single Reduction Rack & Pinion
STEERING WHEEL	Dual Handgrips, Pencil Holder & Clipboard
SEATING	Cushion Foam/Vinyl Cover, Hip Restraint/Hand Hold
SEATING CAPACITY	Operator & 1 Passenger
TOTAL LOAD CAPACITY	650 lbs (290 kg) Including Operator, Passenger, Accessories & Cargo
SPEED	16 +/- 0.5 mph (25 - 26.5 kph)
STANDARD COLORS	Hunter Green
DASH PANEL	Scuff Resistant Glass Fiber Reinforced Plastic (Thermoplastic Olefin) with 4 Drink Holders
LIGHTING/HORN	Horn
TIRES	Trail Wolf AT 20 x 11 x 10 (Uni-directional)
TIRE PRESSURE	20 psi (135 kpa)*
WEIGHT (Without fuel)	851 lbs (386 kg)
BED	Rotomolded Load Bed
OPERATING CONTROLS & INSTRUMENTATION	Removable Key, 'Deadman' Accelerator Control, Direction Selector, Audible Reverse Warning, Electric Fuel Gauge
FUEL	Fresh Regular Grade Unleaded. Ethonol blend fuels upto 10% permissable.
ELECTRICAL SYSTEM	External starter/generator, solid state regulator, 12 volt maintenance free battery
NOISE	Sound pressure; continuous A- weighted equal to or less than 76 dB(A)
VIBRATION, WBV	The highest RMS value of weighted acceleration is 0.98 m/s^2
VIBRATION, HAV	The highest RMS value of weighted acceleration is less than 2.5 m/s^2 The uncertaintyl of measurement is .39 m/s^2

ST SPORT - CARB

Except for fuel system, parts to meet California emissions standards. See Parts Manual for replacement parts.

* Do not use low inflation pressure tires on any E-Z-GO vehicle. Do not use any tire which has a recommended inflation pressure less than the inflation pressure recommended in Owner's Manual

Specifications subject to change without notice

GASOLINE POWERED ST SPORT 2+2

STANDARD EQUIPMENT:

CHASSIS	Welded Tubular Steel; Powder Coated (DuraShield™)
BODY (Front)	Flexible, Impact Resistant DuraShield™ Injection Molded TPE (Thermoplastic Elastomer) with Base Coat/Clear Coat
BODY (Rear)	Flexible, Impact Resistant DuraShield™ Injection Molded TPE (Thermoplastic Elastomer) with Base Coat/Clear Coat
BATTERY	One 12 Volt Maintenance Free
ENGINE	13 HP (rated), 401 cc Single Cylinder, Air Cooled, Overhead Valve Pressurized Lubrication with replaceable Oil Filter Internal Balance Shaft Solid State Ignition Replaceable Dry Cartridge Air Filter & Remote Intake Fixed Jet Bowl Carburetor, Pulse Fuel Pump
TRANSAXLE	11.42:1 Helical geared with Neutral Detent and Ground Speed Governor
TRANSMISSION	Automatic Continuously Variable Transmission (CVT)
FUEL TANK	6 Gal (23 L) Tank. 36 lbs. (16 kg) Fuel Weight
BRAKES	Dual Rear Wheel, Self-Adjusting Mechanical Drum Brakes
PARKING BRAKE	Automatic Parking Brake Release with Self-Compensating System
FRONT SUSPENSION	Leaf Springs with Hydraulic Shock Absorbers
REAR SUSPENSION	Leaf Springs with Hydraulic Shock Absorbers
STEERING	Single Reduction Rack & Pinion
STEERING WHEEL	Dual Handgrips, Pencil Holder & Clipboard
SEATING	Cushion Foam/Vinyl Cover, Hip Restraint/Hand Hold
SEATING CAPACITY	Operator & 3 Passengers
TOTAL LOAD CAPACITY	800 lbs (360 kg) Including Operator, Passenger, Accessories & Cargo
SPEED	16 +/- 0.5 mph (25 - 26.5 kph)
STANDARD COLORS	Hunter Green
DASH PANEL	Scuff Resistant Glass Fiber Reinforced Plastic (Thermoplastic Olefin) with 4 Drink Holders
LIGHTING/HORN	Dual Halogen Headlights, Horn
TIRES	Trail Wolf AT 20 x 11 x 10 (Uni-directional)
TIRE PRESSURE	20 psi (135 kpa) *
WEIGHT (Without fuel)	899 lbs (408 kg)
BED	Convertible Carrier
OPERATING CONTROLS & INSTRUMENTATION	Removable Key, 'Deadman' Accelerator Control, Direction Selector, Audible Reverse Warning, Electric Fuel Gauge
FUEL	Fresh Regular Grade Unleaded. Ethonol blend fuels upto 10% permissable.
ELECTRICAL SYSTEM	External starter/generator, solid state regulator, 12 volt maintenance free battery
NOISE	Sound pressure; continuous A- weighted equal to or less than 78 dB(A)
VIBRATION, WBV	The highest RMS value of weighted acceleration is 0.98 m/s^2
VIBRATION, HAV	The highest RMS value of weighted acceleration is less than 2.5 m/s^2 The uncertaintyl of measurement is .39 m/s^2

ST SPORT 2+2 - CARB

Except for fuel system, parts to meet California emissions standards. See Parts Manual for replacement parts.

* Do not use low inflation pressure tires on any E-Z-GO vehicle. Do not use any tire which has a recommended inflation pressure less than the inflation pressure recommended in Owner's Manual

Specifications subject to change without notice

GENERAL SPECIFICATIONS

GASOLINE POWERED ST 400

STANDARD EQUIPMENT:

CHASSIS	Welded Tubular Steel; Powder Coated (DuraShield™)
BODY (Front)	Flexible, Impact Resistant DuraShield™ Injection Molded TPE (Thermoplastic Elastomer) with Base Coat/Clear Coat
BODY (Rear)	Lightweight, replaceable steel panels
BATTERY	One 12 Volt Maintenance Free
ENGINE	13 HP (rated), 401 cc Single Cylinder, Air Cooled, Overhead Valve Pressurized Lubrication with replaceable Oil Filter Internal Balance Shaft Solid State Ignition Replaceable Dry Cartridge Air Filter & Remote Intake Fixed Jet Bowl Carburetor, Pulse Fuel Pump
TRANSAXLE	11.42:1 Helical geared with Neutral Detent and Ground Speed Governor
TRANSMISSION	Automatic Continuously Variable Transmission (CVT)
FUEL TANK	6 Gal (23 L) Tank. 36 lbs. (16 kg) Fuel Weight
BRAKES	Dual Rear Wheel, Self-Adjusting Mechanical Drum Brakes
PARKING BRAKE	Automatic Parking Brake Release with Self-Compensating System
FRONT SUSPENSION	Leaf Springs with Hydraulic Shock Absorbers
REAR SUSPENSION	Leaf Springs with Hydraulic Shock Absorbers
STEERING	Single Reduction Rack & Pinion
STEERING WHEEL	Dual Handgrips, Pencil Holder & Clipboard
SEATING	Cushion Foam/Vinyl Cover, Hip Restraint/Hand Hold
SEATING CAPACITY	Operator & 1 Passenger
TOTAL LOAD CAPACITY	800 lbs (360 kg) Including Operator, Passenger, Accessories & Cargo
SPEED	16 +/- 0.5 mph (25 - 26.5 kph)
STANDARD COLORS	Hunter Green
DASH PANEL	Scuff Resistant Glass Fiber Reinforced Plastic (Thermoplastic Olefin) with 4 Drink Holders
LIGHTING/HORN	Dual Halogen Headlights, Horn
TIRE	Stryker 1® 22 x 9 - 10 (Uni-directional)
TIRE PRESSURE	12 - 16 psi (85 - 110 kpa) *
WEIGHT (Without fuel)	932 lbs (423 kg)
BED	Rotomolded Load Bed
OPERATING CONTROLS & INSTRUMENTATION	Removable Key, 'Deadman' Accelerator Control, Direction Selector, Audible Reverse Warning, Electric Fuel Gauge
FUEL	Fresh Regular Grade Unleaded. Ethonol blend fuels upto 10% permissable.
ELECTRICAL SYSTEM	External starter/generator, solid state regulator, 12 volt maintenance free battery
NOISE	Sound pressure; continuous A- weighted equal to or less than 76 dB(A)
VIBRATION, WBV	The highest RMS value of weighted acceleration is 0.98 m/s^2
VIBRATION, HAV	The highest RMS value of weighted acceleration is less than 2.5 m/s^2 The uncertaintyl of measurement is .39 m/s^2

ST 400 - CARB

Except for fuel system, parts to meet California emissions standards. See Parts Manual for replacement parts.

* Do not use low inflation pressure tires on any E-Z-GO vehicle. Do not use any tire which has a recommended inflation pressure less than the inflation pressure recommended in Owner's Manual

Specifications subject to change without notice

GASOLINE POWERED ST CUSTOM

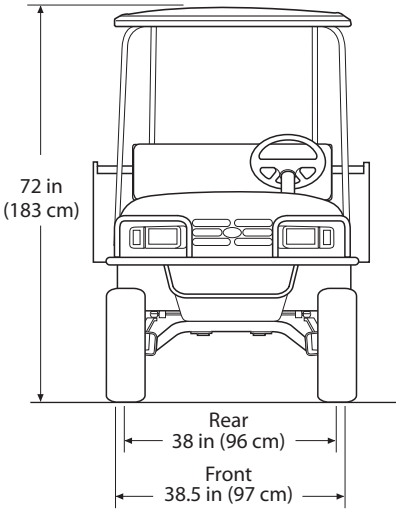
STANDARD EQUIPMENT:

CHASSIS	Welded Tubular Steel; Powder Coated (DuraShield™)
BODY (Front)	Flexible, Impact Resistant DuraShield™ Injection Molded TPE (Thermoplastic Elastomer) with Base Coat/Clear Coat
BODY (Rear)	Flexible, Impact Resistant DuraShield™ Injection Molded TPE (Thermoplastic Elastomer) with Base Coat/Clear Coat
BATTERY	One 12 Volt Maintenance Free
ENGINE	13 HP (rated), 401 cc Single Cylinder, Air Cooled, Overhead Valve Pressurized Lubrication with replaceable Oil Filter Internal Balance Shaft Solid State Ignition Replaceable Dry Cartridge Air Filter & Remote Intake Fixed Jet Bowl Carburetor, Pulse Fuel Pump
TRANSAXLE	11.42:1 Helical geared with Neutral Detent and Ground Speed Governor
TRANSMISSION	Automatic Continuously Variable Transmission (CVT)
FUEL TANK - CARB Equipped	6 Gal (23 L) Tank. 36 lbs. (16 kg) Fuel Weight
BRAKES	Dual Rear Wheel, Self-Adjusting Mechanical Drum Brakes
PARKING BRAKE	Automatic Parking Brake Release with Self-Compensating System
FRONT SUSPENSION	Leaf Springs with Hydraulic Shock Absorbers
REAR SUSPENSION	Leaf Springs with Hydraulic Shock Absorbers
STEERING	Single Reduction Rack & Pinion
STEERING WHEEL	Dual Handgrips, Pencil Holder & Clipboard
SEATING	Cushion Foam/Vinyl Cover, Hip Restraint/Hand Hold
SEATING CAPACITY	Operator & 3 Passengers
TOTAL LOAD CAPACITY	800 lbs (360 kg) Including Operator, Passenger, Accessories & Cargo
SPEED	16 +/- 0.5 mph (25 - 26.5 kph)
STANDARD COLORS	Hunter Green
DASH PANEL	Scuff Resistant Glass Fiber Reinforced Plastic (Thermoplastic Olefin) with 4 Drink Holders
LIGHTING/HORN	Dual Halogen Headlights, Horn
TIRES	Pathfinder 22 x 11 - 10 (Uni-directional)
TIRE PRESSURE	20 psi (135 kpa) *
WEIGHT (Without fuel)	860 lbs (390 kg)
BED	Convertible Carrier
OPERATING CONTROLS & INSTRUMENTATION	Removable Key, 'Deadman' Accelerator Control, Direction Selector, Audible Reverse Warning, Electric Fuel Gauge
FUEL	Fresh Regular Grade Unleaded. Ethonol blend fuels up to 10% permissable.
ELECTRICAL SYSTEM	External starter/generator, solid state regulator, 12 volt maintenance free battery
NOISE	Sound pressure; continuous A- weighted equal to or less than 78 dB(A)
VIBRATION, WBV	The highest RMS value of weighted acceleration is 0.98 m/s^2
VIBRATION, HAV	The highest RMS value of weighted acceleration is less than 2.5 m/s^2 The uncertaintyl of measurement is .39 m/s^2

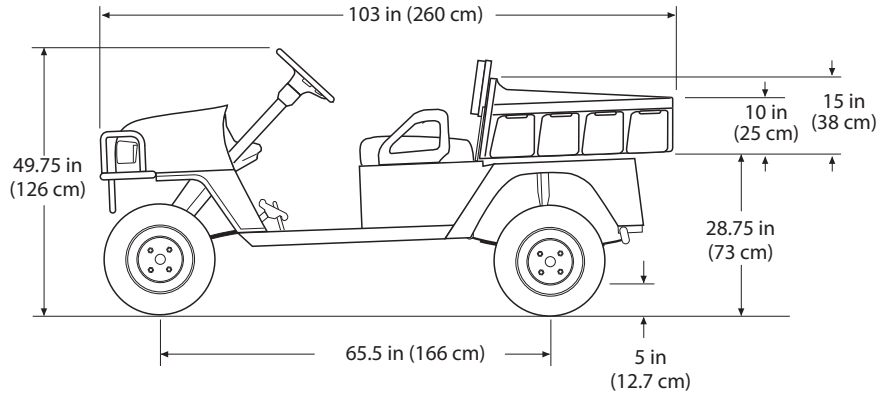
* Do not use low inflation pressure tires on any E-Z-GO vehicle. Do not use any tire which has a recommended inflation pressure less than the inflation pressure recommended in Owner's Manual

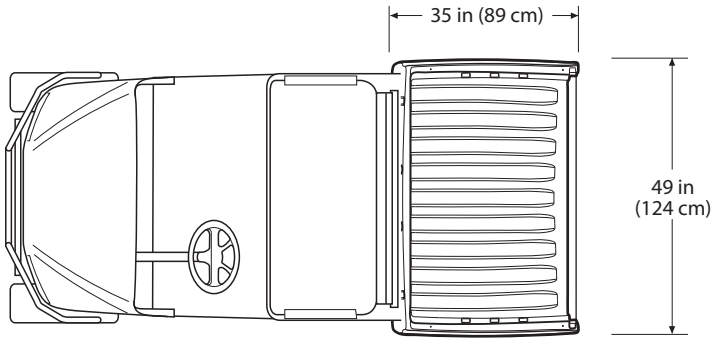
Specifications subject to change without notice

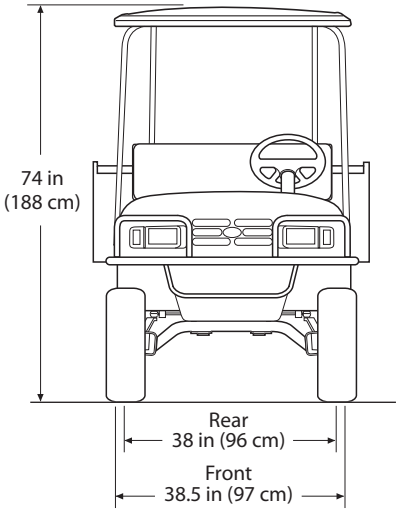
GENERAL SPECIFICATIONS



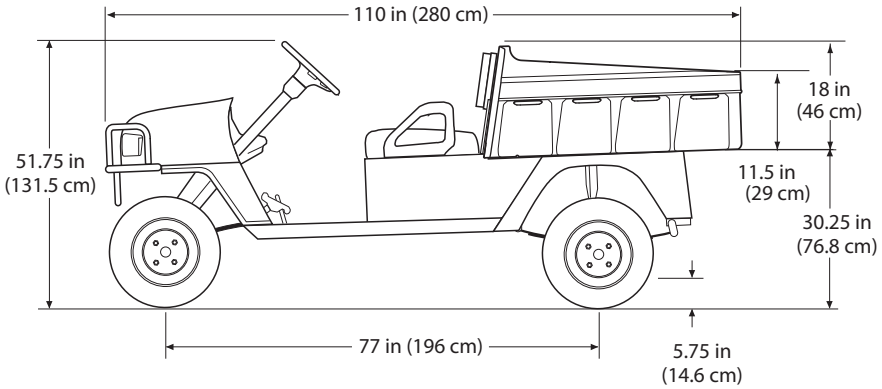
ST SPORT

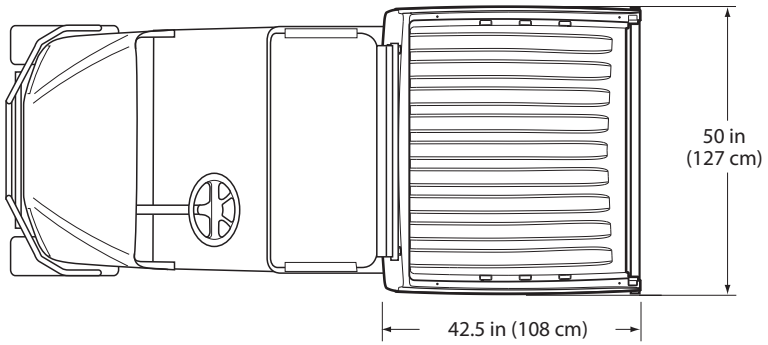


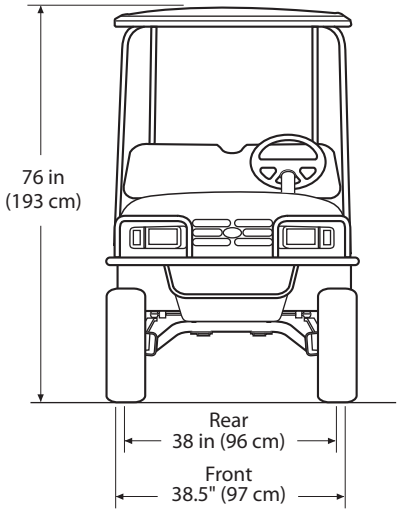




ST 400

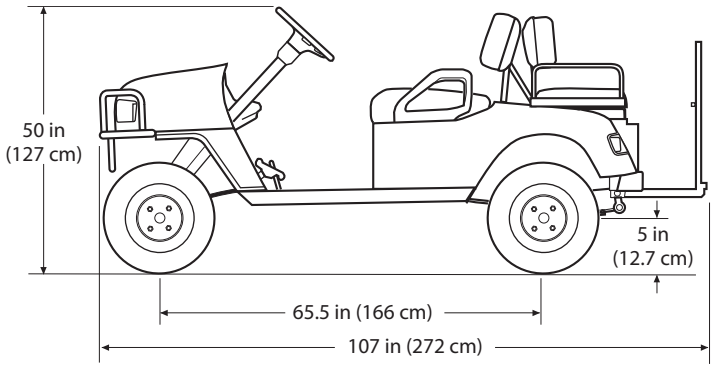


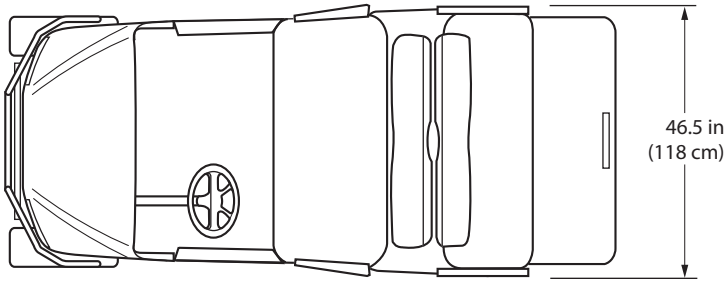




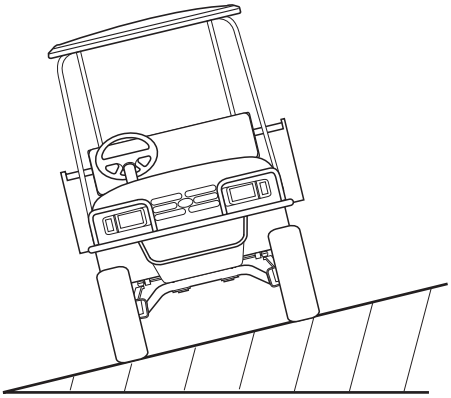
ST SPORT 2+2

ST CUSTOM

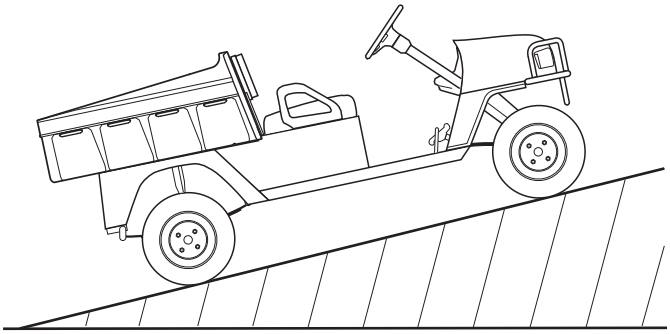




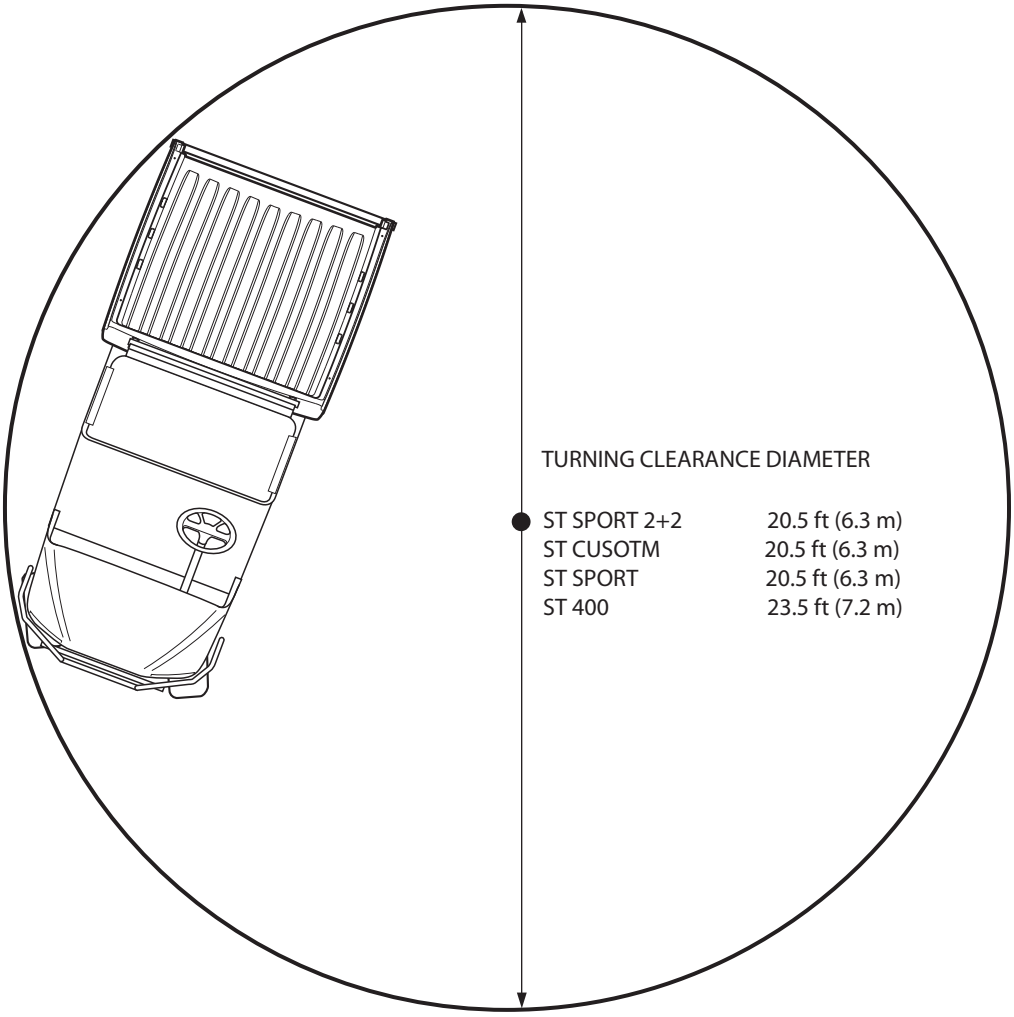
GENERAL SPECIFICATIONS



RECOMMENDED MAX SIDE TILT
25% or 14° MAX



RECOMMENDED MAX RAMP GRADE
25% or 14° MAX



NOTES:

NOTES:

LABELS AND PICTOGRAMS

NOTES:

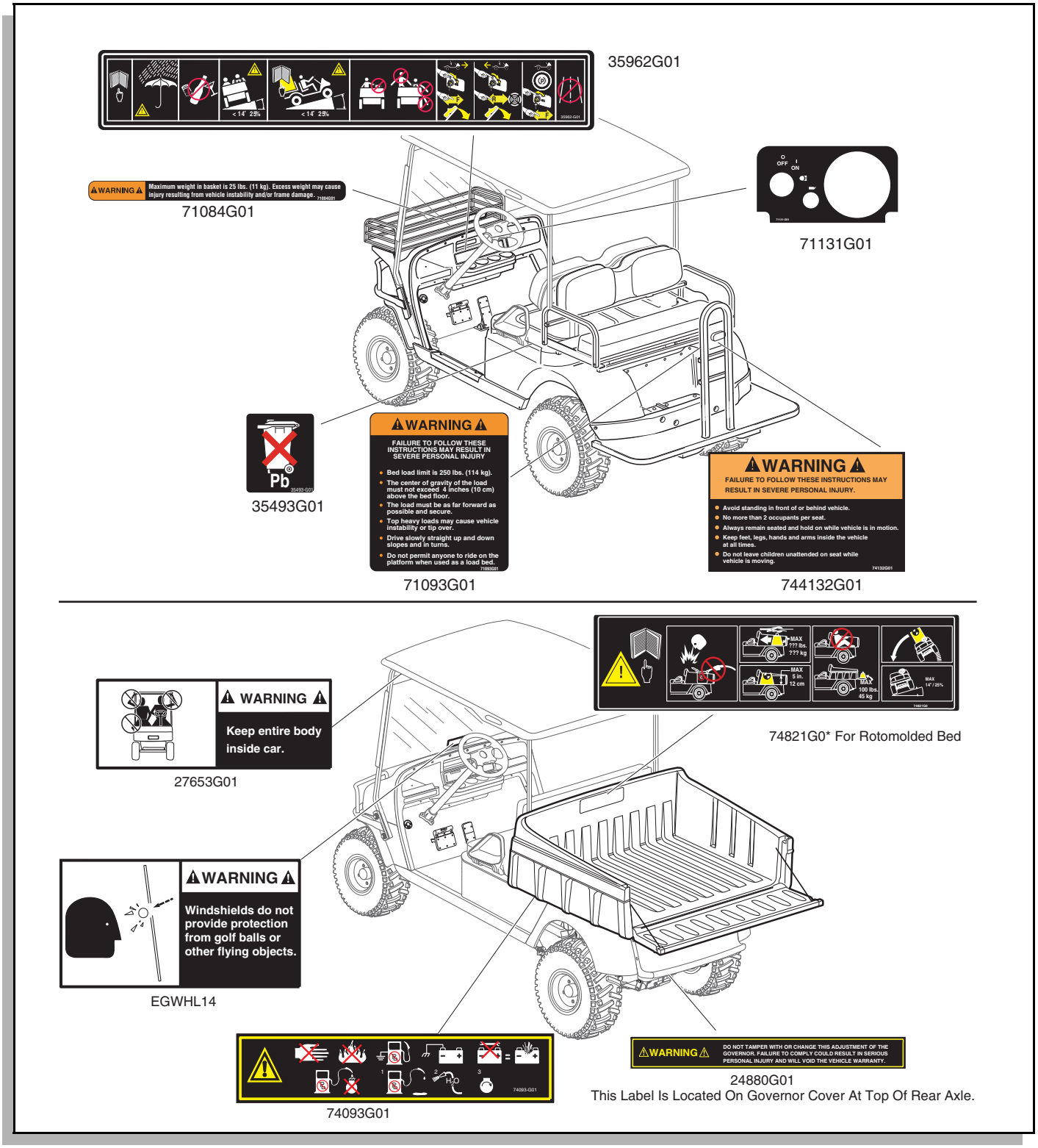
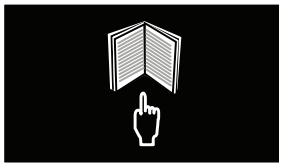


Fig. 56 Label Locations

LABELS AND PICTOGRAMS

1. 

WARNING

2. 

READ MANUAL

3. 

WARNING
USE CAUTION IN
INCLEMENT WEATHER

4. 

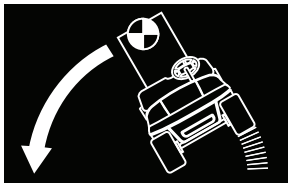
WARNING
DO NOT OPERATE
UNDER THE INFLUENCE
OF DRUGS OR ALCOHOL

5. 

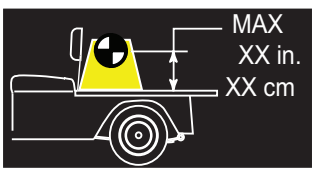
MAXIMUM
CROSS HILL/RAMP
ANGLE AS SPECIFIED

6. 

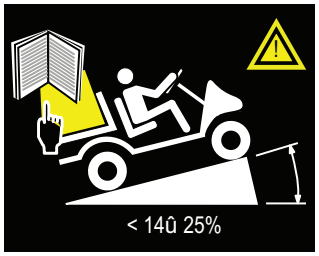
WARNING
MAXIMUM CROSS
HILL/RAMP ANGLE
AS SPECIFIED

7. 

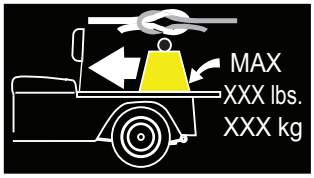
LOAD WITH
HIGH CENTER
OF GRAVITY
COULD RESULT
IN TIP OVER

8. 

LOAD
CENTER
OF GRAVITY,
MAXIMUM
HEIGHT

9. 

WARNING
READ MANUAL
FOR MAXIMUM
LOAD BED
CAPACITY.
MAXIMUM RAMP/HILL

10. 

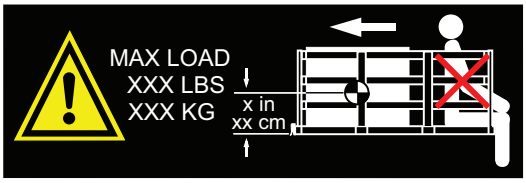
SECURE LOAD
AS FAR FORWARD
AS POSSIBLE.
MAXIMUM LOAD BED
CAPACITY

11. 

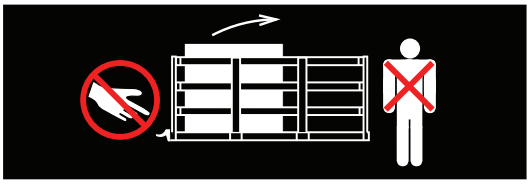
DO NOT RIDE IN
LOAD BED

12. 

DANGER OF EXPLOSION
DO NOT FILL GAS CAN
IN LOAD BED

13. 

WARNING
MAXIMUM LOAD
& CENTER OF
GRAVITY.
KEEP LOAD
AS FAR
FORWARD AS
POSSIBLE.
DO NOT RIDE
IN LOAD BED

14. 

KEEP HANDS &
FINGERS AWAY
FROM DUMP BED.
DO NOT STAND
BEHIND DUMP
BED

NOTE: All Pictograms may not apply to your product

Ref Pic 1-1

15. 

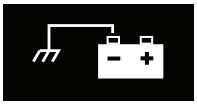
CLEAN UP GASOLINE SPILLS WITH WATER BEFORE STARTING ENGINE

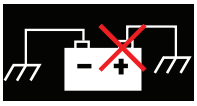
16. 
UNLEADED GASOLINE

17. 
DO NOT SPILL FUEL ON A HOT ENGINE

18. 
GROUND FUEL PUMP

19. 
LOW OIL PRESSURE

20. 
NEGATIVE GROUND BATTERY

21. 
DO NOT CONNECT POSITIVE BATTERY TERMINAL TO GROUND

22. 
SHORTING BATTERY TERMINALS MAY CAUSE EXPLOSION

23. 
NO TAMPERING. KEEP HANDS OUT

24. 
WARNING CORROSIVE

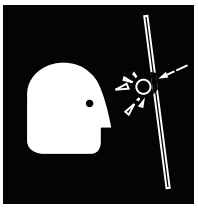
25. 
WARNING EXPLOSIVE

26. 
WARNING LETHAL VOLTAGE

27. 
DO NOT EXPOSE TO FLAME

28. 
DO NOT DISPOSE OF BATTERIES IN LANDFILL

29. 
DO NOT DRIVE ON HIGHWAY

30. 
WINDSHIELDS DO NOT PROVIDE PROTECTION FROM FLYING OBJECTS

31. 
BATTERIES ARE HEAVY. USE CARE LIFTING

32. 
USE INSULATED TOOLS

33. 
WEAR EYE PROTECTION

34. 
NO SMOKING

35. 
HOT SURFACE

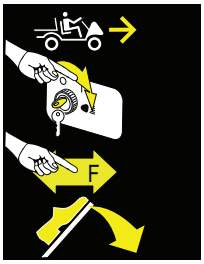
NOTE: All Pictograms may not apply to your product

Ref Pic 1-2

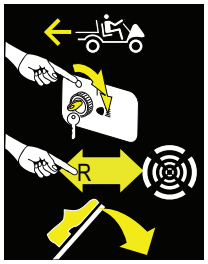
LABELS AND PICTOGRAMS

36. 
OPERATE
FROM
DRIVERS SIDE
ONLY

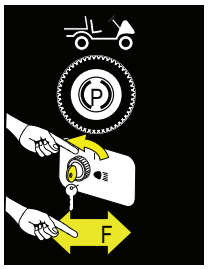
37. 
KEEP ARMS
AND LEGS
WITHIN VEHICLE

38. 

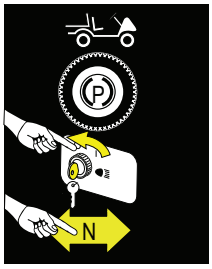
TO OPERATE VEHICLE IN FORWARD:
TURN KEY TO ON
MOVE DIRECTION SELECTOR TO FORWARD
DEPRESS ACCELERATOR PEDAL
AND ACCELERATE SMOOTHLY

39. 

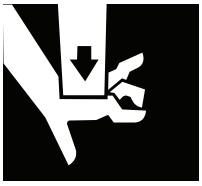
TO OPERATE VEHICLE IN REVERSE:
TURN KEY TO ON
MOVE DIRECTION SELECTOR TO REVERSE
AN AUDIBLE DEVICE WILL SOUND
DEPRESS ACCELERATOR PEDAL
AND ACCELERATE SMOOTHLY

40. 

TO LEAVE A GASOLINE POWERED VEHICLE IN PARK:
APPLY PARKING BRAKE
TURN KEY TO OFF
MOVE DIRECTION SELECTOR TO FORWARD

41. 

TO LEAVE AN ELECTRIC POWERED VEHICLE IN PARK:
APPLY PARKING BRAKE
TURN KEY TO OFF
MOVE DIRECTION SELECTOR TO NEUTRAL

42. 
KEEP CLEAR
HAND OR
FINGERS CAN
BE TRAPPED

43. 

ON
POSITION

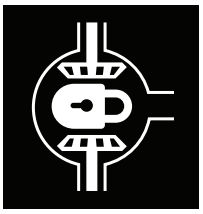
44. 

OFF
POSITION

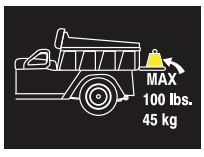
45. 
HEADLIGHTS

46. 
UNLOCKED

47. 
LOCKED

48. 
DIFFERENTIAL
LOCKED

49. 
WARNING
KEEP ENTIRE BODY
INSIDE CAR

50. 

MAXIMUM
TAILGATE
LOAD

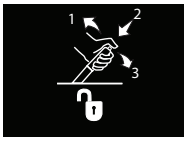
NOTE: All Pictograms may not apply to your product

Ref Pic 1-3

51. 

ENGINE CRANKING POSITION

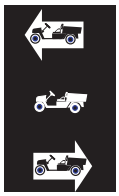
52. 
PULL HANDLE UP TO ENGAGE PARK BRAKE

53. 

PULL HANDLE UP,
PUSH BUTTON IN,
PUSH HANDLE DOWN
TO RELEASE PARK BRAKE

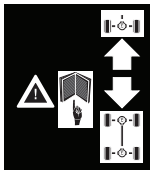
54. 
WARNING
READ OWNER'S MANUAL BEFORE OPERATING VEHICLE IN FORWARD OR REVERSE

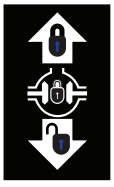
55. 
WARNING
READ OWNER'S MANUAL BEFORE PARKING VEHICLE AND LEAVING IT UNATTENDED

56. 
FORWARD

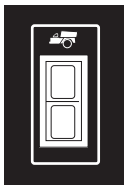
NEUTRAL

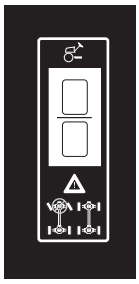
REVERSE

57. 
WARNING
READ OWNER'S MANUAL BEFORE ENGAGING TWO OR FOUR WHEEL DRIVE

58. 
PUSH TOP OF SWITCH TO LOCK DIFFERENTIAL

PUSH BOTTOM OF SWITCH TO UNLOCK DIFFERENTIAL

59. 
REAR DIFFERENTIAL LOCK SWITCH

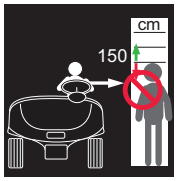
60. 
FRONT DIFFERENTIAL LOCK SWITCH.
WARNING
READ OWNER'S MANUAL BEFORE ENGAGING FRONT DIFFERENTIAL LOCK.
DO NOT ENGAGE LOCK WHILE FRONT WHEELS ARE TURNED AND VEHICLE IS AT SPEED.

61. 
PUSH TOP PART OF SWITCH TO RAISE LOAD BED

PUSH BOTTOM PART OF SWITCH TO LOWER LOAD BED

62. 
AUXILIARY LIGHTS

63. 
HORN BUTTON

63. 

MINIMUM HEIGHT TO OPERATE VEHICLE IS 59 INCHES (150 CM)

63. 
DO NOT OPERATE VEHICLE WHEN LIGHTNING IS IN THE AREA

NOTE: All Pictograms may not apply to your product

Ref Pic 1-4

NOTES:

VEHICLE WARRANTIES

VEHICLE WARRANTIES

DOMESTIC WARRANTY

(U.S. AND CANADA)

To obtain a copy of the limited warranty applicable to the vehicle, call or write a local Distributor, authorized Branch or the Warranty Department with vehicle serial number and manufacturer date code.

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT
YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and E-Z-GO are pleased to explain the evaporative emission control system warranty on your 2010 vehicle. In California, new vehicles must be designed, built and equipped to meet the State's stringent anti-smog standards. E-Z-GO must warrant the EECS on your vehicle for the period of time listed below provided there has been no abuse, neglect or improper maintenance of your vehicle.

Your EECS may include parts such as the carburetor, fuel-injection system, the ignition system, catalytic converter, fuel tanks, fuel lines, fuel caps, valves, canisters, filters, vapor hoses, clamps, connectors, and other associated emission-related components.

Where a warrantable condition exists, E-Z-GO will repair your vehicle at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:

This evaporative emission control system is warranted for two years. If any evaporative emission-related part on your equipment is defective, the part will be repaired or replaced by E-Z-GO.

OWNER'S WARRANTY RESPONSIBILITIES:

As the vehicle owner, you are responsible for performance of the required maintenance listed in your owner's manual. E-Z-GO recommends that you retain all receipts covering maintenance on your vehicle, but E-Z-GO cannot deny warranty solely for the lack of receipts.

As the vehicle owner, you should however be aware that E-Z-GO may deny you warranty coverage if your vehicle or a part has failed due to abuse, neglect, or improper maintenance or unapproved modifications.

You are responsible for presenting your vehicle to E-Z-GO Division of Textron Inc. distribution center or service center as soon as the problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days. If you have a question regarding your warranty coverage, you should contact your nearest authorized E-Z-GO service center or call the E-Z-GO Warranty Department at 1-800-448-7476

GENERAL EMISSIONS WARRANTY COVERAGE:

E-Z-GO warrants to the ultimate purchaser and each subsequent purchaser that the vehicle is:

Designed, built and equipped so as to conform with all applicable regulations; and

Free from defects in materials and workmanship that cause the failure of a warranted part to be identical in all material respects to that part as described in E-Z-GO's application for certification.

The warranty period begins on the date the vehicle is delivered to an ultimate purchaser or first placed into service. The warranty period is two years.

Subject to certain conditions and exclusions as stated below, the warranty on emission-related parts is as follows:

(1) Any warranted part that is not scheduled for replacement as required maintenance in the written instructions supplied, is warranted for the warranty period stated above. If the part fails during the period of warranty coverage, the part will be repaired or replaced by E-Z-GO according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period.

(2) Any warranted part that is scheduled only for regular inspection in the written instructions supplied is warranted for the warranty period stated above. Any such part repaired or replaced under warranty will be warranted for the remaining warranty period.

(3) Any warranted part that is scheduled for replacement as required maintenance in the written instructions supplied is warranted for the period of time before the first scheduled replacement date for that part. If the part fails before the first scheduled replacement, the part will be repaired or replaced by ABC, Inc. according to subsection (4) below. Any such part repaired or replaced under warranty will be warranted for the remainder of the period prior to the first scheduled replacement point for the part.

(4) Repair or replacement of any warranted part under the warranty provisions herein must be performed at a warranty station at no charge to the owner.

(5) Notwithstanding the provisions herein, warranty services or repairs will be provided at all of our distribution centers that are franchised to service the subject engines or equipment.

(6) The vehicle owner will not be charged for diagnostic labor that is directly associated with diagnosis of a defective, emission-related warranted part, provided that such diagnostic work is performed at a warranty station.

(7) E-Z-GO is liable for damages to other engine or equipment components proximately caused by a failure under warranty of any warranted part.

(8) Throughout the vehicle warranty period stated above, E-Z-GO will maintain a supply of warranted parts sufficient to meet the expected demand for such parts.

(9) Any replacement part may be used in the performance of any warranty maintenance or repairs and must be provided without charge to the owner. Such use will not reduce the warranty obligations of E-Z-GO.

(10) Add-on or modified parts that are not exempted by the Air Resources Board may not be used. The use of any non-exempted add-on or modified parts by the ultimate purchaser will be grounds for disallowing a warranty claims. E-Z-GO will not be liable to warrant failures of warranted parts caused by the use of a non-exempted add-on or modified part.

WARRANTED PARTS:

The repair or replacement of any warranted part otherwise eligible for warranty coverage may be excluded from such warranty coverage if E-Z-GO demonstrates that the vehicle has been abused, neglected, or improperly maintained, and that such abuse, neglect, or improper maintenance was the direct cause of the need for repair or replacement of the part. That notwithstanding, any adjustment of a component that has a factory installed, and properly operating, adjustment limiting device is still eligible for warranty coverage. The following emission warranty parts list are covered:

(1) Fuel Tank
(2) Fuel Cap
(3) Fuel Line
(4) Fuel Line Fittings
(5) Clamps
(6) Pressure Relief Valves
(7) Control Valves
(8) Control Solenoids
(9) Electronic Controls
(10) Vacuum Control Diaphragms
(11) Control Cables
(12) Control Linkages
(13) Purge Valves
(14) Vapor Hoses
(15) Liquid/Vapor Separator
(16) Carbon Canister
(17) Canister Mounting Brackets
(18) Carburetor Purge Port Connector

FEDERAL EMISSIONS COMPONENT DEFECT WARRANTY

EMISSIONS COMPONENT DEFECT WARRANTY COVERAGE - This emission warranty is applicable in all States, except the State of California

Kawasaki Heavy Industries Ltd. and E-Z-GO Division of Textron Augusta, Georgia, (herein “E-Z-GO”) warrant(s) to the initial retail purchaser and each subsequent owner, that this Non-road engine (herein “engine”) has been designed, built, and equipped to conform at the time of initial sale to all applicable regulations of the U.S. Environmental Protection Agency (EPA), and that the engine is free of defects in materials and workmanship which would cause this engine to fail to conform with EPA regulations during its warranty period.

For the components listed under PARTS COVERED, the distributor, dealer, or service provider authorized by E-Z-GO will, at no cost to you, make the necessary diagnosis, repair, or replacement necessary to ensure that the engine complies with applicable U.S. EPA regulations.

EMISSISON COMPONENT DEFECT WARRANTY PERIOD

The warranty period for this engine begins on the date of sale to the initial purchaser and continues for a period of 2 years.

PARTS COVERED

Listed below are the parts covered by the Emission Components Defect Warranty. Some of the parts listed below may require scheduled maintenance and are warranted up to the first scheduled replacement point for that part.

Fuel Metering System
Carburetor and internal parts (and/or pressure regulator or fuel injection system)
Air/fuel ratio feedback and control system, if applicable.
Cold start enrichment system, if applicable.
Air Induction System
Intake manifold, if applicable
Air filter.
Ignition System
Spark plugs.
Magneto or electronic ignition system.
Spark advance/retard system, if applicable.
Exhaust manifold, if applicable
Miscellaneous Items Used in Above Systems
Electronic controls, if applicable
Hoses, belts, connectors, and assemblies.

OBTAINING WARRANTY SERVICE

To obtain warranty service, take your engine to the nearest authorized E-Z-GO distributor, dealer, or service provider. Bring your sales receipts indicating date of purchase for this engine. The distributor, dealer, or service provider authorized by E-Z-GO will perform the necessary repairs or adjustments within a reasonable amount of time and furnish you with a copy of the repair order. All parts and accessories replaced under this warranty become the property of E-Z-GO.

WHAT IS NOT COVERED

Conditions resulting from tampering, misuse, improper adjustment (unless they were made by the distributor, dealer, or service provider authorized by E-Z-GO during a warranty repair), alteration, accident, failure to use the recommended fuel and oil, or not performing required maintenance services.

The replacement parts used for required maintenance services.

Consequential damages such as loss of time, inconvenience, loss of use of the engine or equipment, etc.

Diagnosis and inspection charges that do not result in warranty-eligible service being performed.

Any non-authorized replacement part, or malfunction of authorized parts due to use of non-authorized parts.

OWNER’S WARRANTY RESPONSIBILITIES

VEHICLE WARRANTIES

As the engine owner, you are responsible for the performance of the required maintenance listed in your owner's manual. E-Z-GO recommends that you retain all receipts covering maintenance on your engine, but E-Z-GO cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the engine owner, you should however be aware that E-Z-GO may deny warranty coverage if your engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your engine to the nearest distributor, dealer, or service provider authorized by E-Z-GO when a problem exists.

If you have any questions regarding your warranty rights and responsibilities, you should contact the E-Z-GO Warranty Department at 1-800-241-5855 for the information.

THINGS YOU SHOULD KNOW ABOUT THE EMISSION CONTROL SYSTEM WARRANTY

MAINTENANCE AND REPAIRS

You are responsible for the proper maintenance of the engine. You should keep all receipts and maintenance records covering the performance of regular maintenance in the event questions arise. These receipts and maintenance records should be transferred to each subsequent owner of the engine. E-Z-GO reserves the right to deny warranty coverage if the engine has not been properly maintained. Warranty claims will not be denied, however, solely because of the lack of required maintenance or failure to keep maintenance records.

> MAINTENANCE, REPLACEMENT OR REPAIR OF EMISSION CONTROL DEVICES AND SYSTEMS MAY BE PERFORMED BY ANY REPAIR ESTABLISHMENT OR INDIVIDUAL; HOWEVER, WARRANTY REPAIRS MUST BE PERFORMED BY A DISTRIBUTOR, DEALER OR, SERVICE PROVIDER AUTHORIZED BY E-Z-GO. THE USE OF PARTS THAT ARE NOT EQUIVALENT IN PERFORMANCE AND DURABILITY TO AUTHORIZED PARTS MAY IMPAIR THE EFFECTIVENESS OF THE EMISSION CONTROL SYSTEM AND MAY HAVE A BEARING ON THE OUTCOME OF A WARRANTY CLAIM.

If other than the parts authorized by E-Z-GO are used for maintenance replacements or for the repair of components affecting emission control, you should assure yourself that such parts are warranted by their manufacturer to be equivalent to the parts authorized by E-Z-GO in their performance and durability.

HOW TO MAKE A CLAIM

All repair qualifying under this limited warranty must be performed by a distributor, dealer, or service provider authorized by E-Z-GO. In the event that any emission-related part is found to be defective during the warranty period, you shall notify E-Z-GO Warranty Department at 1-800-241-5855 and you will be advised of the appropriate warranty service providers where the warranty repair can be performed.

DECLARATION OF CONFORMITY (EUROPE ONLY)

DECLARATION OF CONFORMITY

DECLARATION OF CONFORMITY ▪ ДЕКЛАРАЦИЯ ЗА СЪОТВЕТСТВИЕ ▪ PROHLÁŠENÍ O SHODĚ ▪ OVERENSSTEMMELSESERKLÆRING ▪ CONFORMITEITSVERKLARING ▪ VASTAVUSDEKLARATSIOON ▪ VAATIMUSTENMUKAISUUSVAKUUTUS ▪ DECLARATION DE CONFORMITE ▪ KONFORMITÄTSERKLÄRUNG ▪ ΔΗΛΩΣΗ ΣΥΜΜΟΡΦΩΣΗΣ ▪ MEGFELELŐSÉGI NYILATKOZAT ▪ DICHIARAZIONE DI CONFORMITÀ ▪ ATBILSTĪBAS DEKLARĀCIJA ▪ ATITIKTIES DEKLARACIJA ▪ DIKJARAZZJONI TAL-KONFORMITÀ ▪ DEKLARACJA ZGODNOŚCI ▪ DECLARAÇÃO DE CONFORMIDADE ▪ DECLARAŢIE DE CONFORMITATE ▪ VYHLÁSENIE O ZHODE ▪ IZJAVA O SKLADNOSTI ▪ DECLARACIÓN DE CONFORMIDAD ▪ DEKLARATION OM ÖVERENSSTÄMMELSE ▪ SAMRÆMISYFIRLÝSING ▪ KONFORMITETSERKLÆRING

Business name and full address of the manufacturer ▪ Търговско име и пълен адрес на производителя ▪ Obchodní jméno a plná adresa výrobce ▪ Producentens firmanavn og fulde adresse ▪ Bedrijfsnaam en volledig adres van de fabrikant ▪ Tootja ärinimi ja täielik aadress ▪ Valmistajan toiminimi ja täydellinen osoite ▪ Nom commercial et adresse complète du fabricant ▪ Firmenname und vollständige Adresse des Herstellers ▪ Επωνυμία και ταχυδρομική διεύθυνση κατασκευαστή ▪ A gyártó üzleti neve és teljes címe ▪ Ragione sociale e indirizzo completo del fabbricante ▪ Uz ņēmuma nosaukums un pilna ražotāja adrese ▪ Versio pavadinimas ir pilnas gamintojo adresas ▪ Isem kummerċjali u indirizz sħiħ tal-fabbrikant ▪ Nazwa firmy i pełny adres producenta ▪ Nome da empresa e endereço completo do fabricante ▪ Denumirea comercială şi adresa completă a producătorului ▪ Obchodný názov a úplná adresa výrobcu ▪ Naziv podjetja in polni naslov proizvajalca ▪ Nombre de la empresa y dirección completa del fabricante ▪ Tillverkarens företagsnamn och kompletta adress ▪ Fyrirt ækisheiti og fullt heimilisfang framleiðanda ▪ Firmanavn og full adresse for produsenten	**E-Z-GO Division of Textron Inc, 1451 Marvin Griffin Road Augusta, GA 30906 USA**
Product Code ▪ Код на продукта ▪ Kód výrobku ▪ Produktkode ▪ Productcode ▪ Toote kood ▪ Tuotekoodi ▪ Code produit ▪ Produktcode ▪ Κωδικός προϊόντος ▪ Termékkód ▪ Codice prodotto ▪ Produkta kods ▪ Produkto kodas ▪ Kodiċi tal-Prodott ▪ Kod produktu ▪ Código do Produto ▪ Cod produs ▪ Kód výrobku ▪ Oznaka proizvoda ▪ Código de producto ▪ Produktkod ▪ Vörunúmer ▪ Produktkode	**605785, 76211, 606697, 605815, 605811, 606688, 605782 When Fitted With CE Kit 614168**
Machine Name ▪ Наименование на машината ▪ Název stroje ▪ Maskinnavn ▪ Machinenaam ▪ Masina nimi ▪ Laitteen nimi ▪ Nom de la machine ▪ Maschinenbezeichnung ▪ Ονομασία μηχανήματος ▪ Gépnév ▪ Denominazione della macchina ▪ Iekārtas nosaukums ▪ Mašinos pavadinimas ▪ Isem tal-Magna ▪ Nazwa urządzenia ▪ Nome da Máquina ▪ Numele echipamentului ▪ Názov stroja ▪ Naziv stroja ▪ Nombre de la máquina ▪ Maskinens namn ▪ Heiti t ækis ▪ Maskinnavn	**ST utility vehicle (gasoline models)**
Designation ▪ Предназначение ▪ Označení ▪ Betegnelse ▪ Benaming ▪ Nimetus ▪ Tyyppimerkintä ▪ Pažymėjimas ▪ Bezeichnung ▪ Χαρακτηρισμός ▪ Megnevezés ▪ Funzione ▪ Apzīmējums ▪ Lithuanian ▪ Denominazzjoni ▪ Oznaczenie ▪ Designação ▪ Specificatie ▪ Označenie ▪ Namen stroja ▪ Descripción ▪ Beteckning ▪ Merking ▪ Konstruksjon	**Utility Vehicle**
Serial Number ▪ Сериен номер ▪ Sériové číslo ▪ Serienummer ▪ Serienummer ▪ Seerianumber ▪ Valmistusnumero ▪ Numéro de série ▪ Seriennummer ▪ Σειριακός αριθμός ▪ Sorozatszám ▪ Numero di serie ▪ Sērijas numurs ▪ Serijos numeris ▪ Numru Serjali ▪ Numer seryjny ▪ Número de Série ▪ Număr de serie ▪ Sériové číslo ▪ Serijska številka ▪ Número de serie ▪ Serienummer ▪ Raðnúmer ▪ Serienummer	**2696143 to 2800000**
Conforms to Directives ▪ В съответствие с директивите ▪ Splňuje podmínky směrnic ▪ Er i overensstemmelse med direktiver ▪ Voldoet aan de richtlijnen ▪ Vastab direktiividele ▪ Direktiivien mukainen ▪ Conforme aux directives ▪ Entspricht Richtlinien ▪ Ακολουθήστε πιστά τις Οδηγίες ▪ Megfelel az irányelveknek ▪ Conforme alle Direttive ▪ Atbilst direktīvām ▪ Atitinka direktyvų reikalavimus ▪ Valutazzjoni tal-Konformità ▪ Dyrektywy związane ▪ Cumpre as Directivas ▪ Respectă Directivele ▪ Je v súlade so smernicami ▪ Skladnost z direktivami ▪ Cumple con las Directivas ▪ Uppfyller direktiv ▪ Samr æmist tilskipunum ▪ I samsvar med direktiv	**2006/42/EC**
Conformity Assessment ▪ Оценка за съответствие ▪ Hodnocení plnění podmínek ▪ Overensstemmelsesvurdering ▪ Conformiteitsbeoordeling ▪ Vastavushindamine ▪ Vaatimustenmukaisuuden arviointi ▪ Evaluation de conformité ▪ Konformitätsbeurteilung ▪ Διαπίστωση Συμμόρφωσης ▪ Megfelelőség-értékelés ▪ Valutazione della conformità ▪ Atbilstības novērtējums ▪ Atitikties įvertinimas ▪ Livell tal-Qawwa tal-Ħoss Imkejjel ▪ Ocena zgodności ▪ Avaliação de Conformidade ▪ Evaluarea conformităţii ▪ Vyhodnotenie zhodnosti ▪ Ocena skladnosti ▪ Evaluación de conformidad ▪ Bedömning av överensstämmelse ▪ Samræmismat ▪ Konformitetsvurdering	**2006/42/EC Annex II**
Harmonised standards used ▪ Използвани хармонизирани стандарти ▪ Použité harmonizované normy ▪ Brugte harmoniserede standarder ▪ Gebruikte geharmoniseerde standaards ▪ Kasutatud ühtlustatud standardid ▪ Käytetyt yhdenmukaistetut standardit ▪ Normes harmonisées utilisées ▪ Angewandte harmonisierte Normen ▪ Εναρμονισμένα πρότυπα που χρησιμοποιήθηκαν ▪ Harmonizált szabványok ▪ Standard armonizzati applicati ▪ Izmantotie saskaņotie standarti ▪ Panaudoti suderinti standartai ▪ Standards armonizzati użati ▪ Normy spójne powiązane ▪ Normas harmonizadas usadas ▪ Standardele armonizate utilizate ▪ Použité harmonizované normy ▪ Uporabljeni usklajeni standardi ▪ Estándares armonizados utilizados ▪ Harmoniserade standarder som används	**EN 61000-6-2:2005 EN 61000-6-4:2007 EN ISO 5349:1986 EN ISO 11202**
Technical standards and specifications used ▪ Използвани технически стандарти и спецификации ▪ Použité technické normy a specifikace ▪ Brugte tekniske standarder og specifikationer ▪ Gebruikte technische standaards en specificaties ▪ Kasutatud tehnilised standardid ja spetsifikatsioonid ▪ Käytetyt tekniset standardit ja eritelmät ▪ Spécifications et normes techniques utilisées ▪ Angewandte technische Normen und Spezifikationen ▪ Τεχνικά πρότυπα και προδιαγραφές που χρησιμοποιήθηκαν ▪ Műszaki szabványok és specifikációk ▪ Standard tecnici e specifiche applicati ▪ Izmantotie tehniskie standarti un specifikācijas ▪ Panaudoti techniniai standartai ir techninė informacija ▪ Standards u speċifikazzjonijiet tekniċi użati ▪ Normy i specyfikacje techniczne powiązane ▪ Normas técnicas e especificações usadas ▪ Standardele tehnice şi specificaţiile utilizate ▪ Použité technické normy a špecifikácie ▪ Uporabljeni tehnični standardi in specifikacije ▪ Estándares y especificaciones técnicas utilizadas ▪ Tekniska standarder och specifikationer som används ▪ Samr æmdir staðlar sem notaðir eru ▪ Benyttede harmoniserte standarder	**ISO 2631-1:1985**
The place and date of the declaration ▪ Място и дата на декларацията ▪ Místo a datum prohlášení ▪ Sted og dato for erklæringen ▪ Plaats en datum van de verklaring ▪ Deklaratsiooni väljastamise koht ja kuupäev ▪ Vakuutuksen paikka ja päivämäärä ▪ Lieu et date de la déclaration ▪ Ort und Datum der Erklärung ▪ Τόπος και ημερομηνία δήλωσης ▪ A nyilatkozat kelte (hely és idő) ▪ Luogo e data della dichiarazione ▪ Deklarācijas vieta un datums ▪ Deklaracijos vieta ir data ▪ Il-post u d-data tad-dikjarazzjoni ▪ Miejsce i data wystawienia deklaracji ▪ Local e data da declaração ▪ Locul şi data declaraţiei ▪ Miesto a dátum vyhlásenia ▪ Kraj in datum izjave ▪ Lugar y fecha de la declaración ▪ Plats och datum för deklarationen ▪ Tæknistaðlar og tæknilýsingar sem notaðar eru ▪ Benyttede tekniske standarder og spesifikasjoner ▪ Sta ður og dagsetning yfirlýsingar ▪ Sted og dato for erklæringen	**E-Z-GO Division of Textron Inc, 1451 Marvin Griffin Road Augusta, GA 30906 USA**

DECLARATION OF CONFORMITY

Signature of the person empowered to draw up the declaration on behalf of the manufacturer, holds the technical documentation and is authorised to compile the technical file, and who is established in the Community. Подпис на човека, упълномощен да състави декларацията от името на производителя, който поддържащ техническата документация и е оторизиран да изготви техническия файл и е регистриран в общността. Podpis osoby oprávněné sestavit prohlášení jménem výrobce, držet technickou dokumentaci a osoby oprávněné sestavit technické soubory a založené v rámci Evropského společenství. Underskrift af personen, der har fuldmagt til at udarbejde erklæringen på vegne af producenten, der er indehaver af dokumentationen og er bemyndiget til at udarbejde den tekniske journal, og som er baseret i nærområdet. Handtekening van de persoon die bevoegd is de verklaring namens de fabrikant te tekenen, de technische documentatie bewaart en bevoegd is om het technische bestand samen te stellen, en die is gevestigd in het Woongebied. Ühenduse registrisse kantud isiku allkiri, kes on volitatud tootja nimel deklaratsiooni koostama, kes omab tehnilist dokumentatsiooni ja kellel on õigus koostada tehniline toimik. Sen henkilön allekirjoitus, jolla on valmistajan valtuutus vakuutuksen laadintaan, jolla on hallussaan tekniset asiakirjat, joka on valtuutettu laatimaan tekniset asiakirjat ja joka on sijoittautunut yhteisöön. Signature de la personne habilitée à rédiger la déclaration au nom du fabricant, à détenir la documentation technique, à compiler les fichiers techniques et qui est implantée dans la Communauté. Unterschrift der Person, die berechtigt ist, die Erklärung im Namen des Herstellers abzugeben, die die technischen Unterlagen aufbewahrt und berechtigt ist, die technischen Unterlagen zusammenzustellen, und die in der Gemeinschaft niedergelassen ist. Υπογραφή ατόμου εξουσιοδοτημένου για την σύνταξη της δήλωσης εκ μέρους του κατασκευαστή, ο οποίος κατέχει την τεχνική έκθεση και έχει την εξουσιοδότηση να ταξινομήσει τον τεχνικό φάκελο και ο οποίος είναι διορισμένος στην Κοινότητα. A gyártó nevében meghatalmazott személy, akinek jogában áll módosítania a nyilatkozatot, a műszaki dokumentációt őrzi, engedéllyel rendelkezik a műszaki fájl összeállításához, és aki a közösségben letelepedett személy. Firma della persona autorizzata a redigere la dichiarazione a nome del fabbricante, in possesso Della documentazione tecnica ed autorizzata a costituire il fascicolo tecnico, che deve essere stabilita nella Comunità. Tās personas paraksts, kura ir pilnvarota deklarācijas sastādīšanai ražotāja vārdā, kurai ir tehniskā dokumentācija, kura ir pilnvarota sagatavot tehnisko reģistru un kura ir apstiprināta Kopienā. Asmuo, kuris yra gana žinomas, kuriam gamintojas suteikė įgaliojimus sudaryti šią deklaraciją, ir kuris ją pasirašė, turi visą techninę informaciją ir yra įgaliotas sudaryti techninės informacijos dokumentą. Il-firma tal-persuna awtorizzata li tfassal id-dikjarazzjoni f'isem il-fabbrikant, g ħandha d-dokumentazzjoni teknika u hija awtorizzata li tikkompila l-fajl tekniku u li hija stabbilita fil-Komunità. Podpis osoby upoważnionej do sporządzenia deklaracji w imieniu producenta, przechowującej dokumentację techniczną, upoważnioną do stworzenia dokumentacji technicznej oraz wyznaczonej ds. wspólnotowych. Assinatura da pessoa com poderes para emitir a declaração em nome do fabricante, que possui a documentação técnica, que está autorizada a compilar o processo técnico e que está estabelecida na Comunidade. Semnătura persoanei împuternicite să elaboreze declarația în numele producătorului, care deține documentația tehnică, este autorizată să compileze dosarul tehnic și este stabilită în Comunitate. Podpis osoby poverenej vystavením vyhlásenia v mene výrobcu, ktorá má technickú dokumentáciu a je oprávnená spracovať technické podklady a ktorá je umiestnená v Spoločenstve. Podpis osebe, pooblaščene za izdelavo izjave v imenu proizvajalca, ki ima tehnično dokumentacijo in lahko sestavlja spis tehnične dokumentacije, ter ima sedež v Skupnosti. Firma de la persona responsable de la declaración en nombre del fabricante, que posee la documentación técnica y está autorizada para recopilar el archivo técnico y que está establecido en la Comunidad. Undertecknas av den som bemyndigad att upprätta deklarationen å tillverkarens vägnar, innehar den tekniska dokumentationen och är bemyndigad att sammanställa den tekniska informationen och som är etablerad i gemenskapen. Undirskrift aðilans sem hefur umboð til að gera yfirlýsinguna fyrir hönd framleiðandans, hefur undir höndum tæknigögnin og hefur leyfi til að taka saman tækniskýrsluna, og er viðurkenndur innan evrópska efnahagssvæðisins. Signaturen til personen som har fullmakt til å utferdige erklæringen på vegne av produsenten, er i besittelse av den tekniske dokumentasjonen, har autorisasjon til å utarbeide den tekniske filen og som har tilhold i EU.	2006/42/EC Annex II 1A: 2 **Tim Lansdell** **Technical Director** **20th January 2010** **Ransomes Jacobsen Ltd, West Road, Ransomes Europark, Ipswich, England, IP3 9TT** 2006/42/EC Annex II 1A: 10 **Ronald L. Otten** **Vice President of Engineering** **E-Z-GO Division of Textron Inc, 1451 Marvin Griffin Road Augusta, GA 30906 USA** **20th January 2010**

GB United Kingdom · BG Bulgaria · CH Switzerland · CZ Czech Republic · DK Denmark · NL Netherlands · EE Estonia · ES Spain · FI Finland · FR France · DE Germany · GR Greece · HU Hungary

IS Iceland · IT Italy · LI Liechtenstein · LV Latvia · LT Lithuania · MT Malta · NO Norway · PL Poland · PT Portugal · RO Romania · SE Sweden · SK Slovakia · SI Slovenia

NOTES:

⚠ WARNING

Check area behind the vehicle before operating in reverse.
Make sure the direction selector is in correct position before attempting to start the vehicle.
Slow down before and during turns. All turns should be executed at reduced speed.
Always bring vehicle to a complete stop before shifting the direction selector.
See GENERAL SPECIFICATIONS for vehicle load and seating capacity.

NOTE

Read and understand the following text and warnings before attempting to service vehicle:

In any product, components will eventually fail to perform properly as the result of normal use, age, wear or abuse.

It is virtually impossible to anticipate all possible component failures or the manner in which each component may fail.

Be aware that a vehicle requiring repair indicates that the vehicle is no longer functioning as designed and therefore should be considered potentially hazardous. Use extreme care when working on any vehicle. When diagnosing, removing or replacing any components that are not operating correctly, take time to consider the safety of yourself and others around you should the component move unexpectedly.

Some components are heavy, spring loaded, highly corrosive, explosive or may produce high amperage or reach high temperatures. Gasoline, carbon monoxide, battery acid and hydrogen gas could result in serious bodily injury to the technician/mechanic and bystanders if not treated with the utmost caution. Be careful not to place hands, face, feet or body in a location that could expose them to injury should an unforeseen situation occur.

Always use the appropriate tools listed in the tool list and wear approved safety equipment.

⚠ WARNING

To prevent personal injury or death, observe the following:
Before working on the vehicle, remove all jewelry (rings, watches, necklaces, etc.)
Be sure that no loose clothing or hair can contact moving parts.
Use care not to touch hot objects.
Raise entire vehicle and support on jack stands before attempting to run or adjust powertrain.
Wear eye protection when working on or around vehicle. In particular, use care when working around batteries, using solvents or compressed air.
Hydrogen gas is formed when charging batteries. Do not charge batteries without adequate ventilation.
Do not permit open flame or anyone to smoke in an area that is being used for charging batteries. A concentration of 4% hydrogen gas or more is explosive.
Engine exhaust gas (carbon monoxide) is deadly. Carbon monoxide is an odorless, colorless gas that is formed as a natural part of incomplete combustion of hydrocarbon fuels. Carbon monoxide is a dangerous gas that can cause unconsciousness and is potentially lethal. The following are symptoms of carbon monoxide inhalation:

- ***Dizziness***
- ***Vomiting***
- ***Intense headache***
- ***Muscular twitching***
- ***Weakness and sleepiness***
- ***Throbbing in temples***

If any of these symptoms are experienced, get fresh air immediately. Never work around or operate a vehicle in an environment that does not ventilate exhaust gases from the area.

A Textron Company

E-Z-GO Division of Textron Inc.,
1451 Marvin Griffin Road, Augusta, Georgia 30906 - 3852 USA

TO CONTACT US...
North America:

Technical Assistance & Warranty	Phone: 1-800-774-3946, FAX: 1-800-448-8124
Service Parts	Phone: 1-888-GET-E-Z-GO (1-888-438-3946), FAX: 1-800-752-6175
International:	Phone: 001-706-798-4311, FAX: 001-706-771-4609

UK and Europe
Ransomes Jacobsen Limited
West Road, Ransomes Europark, Ipswich, IP3 9TT
English Company Registration No. 1070731
www.ransomesjacobsen.com

ISO 9001
ISO 14001
BUREAU VERITAS
Certification