OWNER’S MANUAL AND SERVICE GUIDE

GASOLINE POWERED UTILITY VEHICLES

ISSUED APRIL 2005
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.

NOTES, CAUTIONS AND WARNINGS

Throughout this guide NOTE, CAUTION and WARNING will be used.

A NOTE indicates a condition that should be observed.

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

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

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.

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)
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 ...................................................................................................... v
BEFORE INITIAL USE ......................................................................................................... 1

Fig. 1  Initial Service Chart ................................................. 1

CONTROLS AND INDICATORS .............................................................................................. 1
KEY/LIGHT SWITCH .............................................................................................................. 1
- Fig. 2  Key/Light Switch, Low Oil Pressure Light and Fuel Gauge .................................. 2
DIRECTION SELECTOR ...................................................................................................... 2
- Fig. 3  Direction Selector .................................................. 2
CHOKE .................................................................................................................................. 2
- Fig. 4  Choke .................................................................................................................................. 2
FUEL GAUGE.......................................................................................................................... 2
- Fig. 5  Accelerator and Brake Controls ............................................................................ 3
LOW OIL PRESSURE INDICATOR LIGHT .............................................................................. 2

ACCELERATOR PEDAL .......................................................................................................... 2

COMBINATION BRAKE AND PARK BRAKE PEDAL .......................................................... 2
HORN ........................................................................................................................................ 3
- Fig. 6  Horn Button .................................................................................................................. 3

STEEL LOAD BED .................................................................................................................. 3
MANUAL LIFT BED OPERATION .......................................................................................... 4
- Fig. 7  Manual Bed Latch ..................................................................................................... 4
- Fig. 8  Bed Prop Rod .............................................................................................................. 4
ELECTRIC LIFT BED OPERATION ......................................................................................... 4
- Fig. 9  Electric Lift Switch ................................................................................................... 4

PLASTIC LOAD BED ............................................................................................................. 4
MANUAL LIFT BED OPERATION .......................................................................................... 5
- Fig. 10  Manual Bed Latch .................................................................................................. 5
- Fig. 11  Gas Strut .................................................................................................................. 5
ELECTRIC LIFT BED OPERATION ........................................................................................ 5
- Fig. 12  Electric Lift Switch .................................................................................................. 5

OPERATING THE VEHICLE .................................................................................................... 6
RUN-IN ..................................................................................................................................... 6
- Fig. 13  Check Oil Level on Dipstick .................................................................................. 6
COLD STARTING .................................................................................................................... 6
STARTING AND DRIVING .................................................................................................... 7
STARTING THE VEHICLE ON A HILL ................................................................................. 7
COASTING ............................................................................................................................. 7
FUEL ........................................................................................................................................ 7
BATTERY ............................................................................................................................... 8
- Fig. 14  Fueling .................................................................................................................... 8
LABELS AND PICTOGRAMS ............................................................................................... 8
SUN TOP AND WINDSHIELD .............................................................................................. 8
12 VOLT POWER OUTLET ............................................................................................... 8
- Fig. 15  12 Volt Power Outlet ........................................................................................... 8
TOWING A TRAILER ............................................................................................................ 8

VEHICLE CLEANING AND CARE ....................................................................................... 9
VEHICLE CLEANING ............................................................................................................ 9

REPAIR .................................................................................................................................. 9
LIFTING THE VEHICLE .......................................................................................................... 9
WHEELS AND TIRES .............................................................................................................. 10
- Fig. 16  Lifting the Vehicle .................................................................................................. 10
LIGHT BULB REPLACEMENT ............................................................................................. 11
- Fig. 17  Wheel Installation .................................................................................................. 11
- Fig. 18  Headlight and Turn Signal Bulb Replacement ....................................................... 11
## TABLE OF CONTENTS

<table>
<thead>
<tr>
<th>Section</th>
</tr>
</thead>
<tbody>
<tr>
<td>FUSE REPLACEMENT</td>
</tr>
<tr>
<td>VEHICLE WITH A DISCHARGED BATTERY</td>
</tr>
<tr>
<td>TRANSPORTING VEHICLE</td>
</tr>
<tr>
<td>TOWING</td>
</tr>
<tr>
<td>NEUTRAL LOCK</td>
</tr>
<tr>
<td>HAULING</td>
</tr>
<tr>
<td>SERVICE AND MAINTENANCE</td>
</tr>
<tr>
<td>SERIAL NUMBER LABEL LOCATION</td>
</tr>
<tr>
<td>PERIODIC SERVICE SCHEDULE</td>
</tr>
<tr>
<td>TIRE INSPECTION</td>
</tr>
<tr>
<td>CHECKING THE OIL LEVEL</td>
</tr>
<tr>
<td>Fig. 22 Clean Entire Dipstick</td>
</tr>
<tr>
<td>Fig. 23 Check Oil Level on Dipstick</td>
</tr>
<tr>
<td>CHANGING THE OIL</td>
</tr>
<tr>
<td>Fig. 24 Oil Viscosity Chart</td>
</tr>
<tr>
<td>Fig. 25 Clean Top of Engine</td>
</tr>
<tr>
<td>Fig. 26 Remove Oil Filter</td>
</tr>
<tr>
<td>Fig. 27 Clean Oil Filter</td>
</tr>
<tr>
<td>Fig. 28 Blowing Out Oil Filter</td>
</tr>
<tr>
<td>Fig. 29 Add Engine Oil</td>
</tr>
<tr>
<td>STARTER/GENERATOR BELT TENSION</td>
</tr>
<tr>
<td>Fig. 30 Checking Belt Tension with Gauge</td>
</tr>
<tr>
<td>Fig. 31 Checking Belt Tension Manually</td>
</tr>
<tr>
<td>Fig. 32 Adjusting Belt Tension</td>
</tr>
<tr>
<td>BATTERY CLEANING</td>
</tr>
<tr>
<td>Fig. 33 Preparing Acid Neutralizing Solution</td>
</tr>
<tr>
<td>BRAKES</td>
</tr>
<tr>
<td>Fig. 34 Typical Brake Performance Test</td>
</tr>
<tr>
<td>AIR INTAKE AND COOLING FINS</td>
</tr>
<tr>
<td>Fig. 35 Cleaning Air Intake</td>
</tr>
<tr>
<td>Fig. 36 Cleaning the Cooling Fins</td>
</tr>
<tr>
<td>REAR AXLE</td>
</tr>
<tr>
<td>Fig. 37 Add, Check and Drain Rear Axle Lubricant</td>
</tr>
<tr>
<td>AIR CLEANER INSPECTION AND REPLACEMENT</td>
</tr>
<tr>
<td>Fig. 38 Air Cleaner</td>
</tr>
<tr>
<td>Fig. 39 Canister Type Air Cleaner</td>
</tr>
<tr>
<td>LUBRICATION</td>
</tr>
<tr>
<td>Fig. 40 Lubrication Points</td>
</tr>
<tr>
<td>SPARK PLUGS</td>
</tr>
<tr>
<td>PROLONGED STORAGE</td>
</tr>
<tr>
<td>HARDWARE</td>
</tr>
<tr>
<td>Fig. 41 Torque Specifications</td>
</tr>
<tr>
<td>CAPACITIES AND REPLACEMENT PARTS</td>
</tr>
<tr>
<td>Fig. 42 Capacities and Replacement Parts</td>
</tr>
<tr>
<td>GENERAL SPECIFICATIONS</td>
</tr>
<tr>
<td>HAUER™ 800</td>
</tr>
<tr>
<td>HAUER™ 1200</td>
</tr>
<tr>
<td>Fig. 43 Vehicle Dimensions</td>
</tr>
<tr>
<td>Fig. 44 Vehicle Dimensions, Incline Specifications and Turning Clearance Diameter</td>
</tr>
<tr>
<td>LIMITED WARRANTIES</td>
</tr>
<tr>
<td>DOMESTIC WARRANTY</td>
</tr>
<tr>
<td>INTERNATIONAL WARRANTY (2004)</td>
</tr>
<tr>
<td>FEDERAL EMISSION COMPONENT DEFECT WARRANTY</td>
</tr>
<tr>
<td>CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT</td>
</tr>
<tr>
<td>DECLARATION OF CONFORMITY (EUROPE ONLY)</td>
</tr>
<tr>
<td>LABELS AND PICTOGRAMS</td>
</tr>
</tbody>
</table>
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 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
SAFETY INFORMATION

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.

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.

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.
- 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.

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.
Thank you for purchasing this 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 maintaining this highly reliable vehicle. Some illustrations may show items that are 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**

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.

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).

Vehicle battery must be fully charged before initial use.

Check for correct tire inflation. See GENERAL SPECIFICATIONS.

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.

<table>
<thead>
<tr>
<th>ITEM</th>
<th>SERVICE OPERATION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Battery</td>
<td>Charge battery</td>
</tr>
<tr>
<td>Seats</td>
<td>Remove protective plastic covering</td>
</tr>
<tr>
<td>Brakes</td>
<td>Check operation and adjust if necessary</td>
</tr>
<tr>
<td></td>
<td>Check hydraulic brake fluid level if equipped</td>
</tr>
<tr>
<td></td>
<td>Establish acceptable stopping distance</td>
</tr>
<tr>
<td>Tires</td>
<td>Check air pressure (see SPECIFICATIONS)</td>
</tr>
<tr>
<td>Fuel</td>
<td>Fill tank with correct fuel</td>
</tr>
<tr>
<td>Engine</td>
<td>Check oil level</td>
</tr>
</tbody>
</table>

Fig. 1 Initial Service Chart

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 with front disc brakes (optional)
- horn

KEY/LIGHT SWITCH

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).

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

**NOTE**

If the vehicle is equipped with factory installed custom accessories, some accessories remain operational with the key switch in the ‘OFF’ position.
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

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). Vehicle should be left in ‘F’ when unattended.

CHOKE

The choke is used to aid cold starting (Ref. Fig. 4 on page 2). See COLD STARTING section for operating instructions.

FUEL GAUGE

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

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. 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.

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

**WARNING** 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 vehic-
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings.

OPERATION AND SERVICE INFORMATION

Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings.

**Fig. 5 Accelerator and Brake Controls**

The accelerator pedal 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.

**OPTIONAL FRONT DISC BRAKES**

The front disc brakes activate as the brake pedal reaches the ‘park’ or ‘latch’ position. Depressing the brake pedal further will increase the effectiveness of the front brakes.

**HORN**

The horn is operated by pushing the horn button located on the floor to the left of the brake pedal (Ref. Fig. 6 on page 3).

**STEEL LOAD BED**

**WARNING** To reduce the possibility of severe injury or death, read, understand and follow the Danger label affixed to the front of the load bed.

- **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.
MANUAL LIFT BED OPERATION

**WARNING** Exercise caution while operating the manual lift. Ensure the bed prop is in one of the slots before releasing. 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. 7 on page 4). Raise the bed using the handle on the side of the bed.

Lift load bed to a secure position and check stability before releasing bed handle (Ref. Fig. 8 on page 4).

**ELECTRIC LIFT BED OPERATION**

**WARNING** Exercise caution while operating the electric lift bed to ensure clothing is not snagged during lifting or lowering procedure.

Severe injury could result if bed is lowered and traps fingers or other body parts.

The electric lift toggle switch is located on the driver’s side of the front seat panel (Ref. Fig. 9 on page 4). Move the toggle switch upward to raise the dump bed and downward to lower the dump bed.

PLASTIC LOAD BED

The manual lift bed is the standard bed for the vehicle. The bed may be equipped with an optional electric lift switch.

**WARNING** Failure to follow these instructions may result in personal injury, damage the vehicle and/or cause the vehicle to tip over. Operate the vehicle with awareness of the load. Read, understand and follow the Danger label affixed to the front of the load bed.

*Do not permit anyone to ride in the bed.*

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

A load bed warning label is affixed to the inside front of the bed (see Appendix A). This label must be understood and observed at all times for safe operation of the vehicle. 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 securely fastened down. Failure to follow these instructions may result in severe personal injury, damage the vehicle and/or cause the vehicle to tip over. Operate the vehicle with awareness of the load.

*Do not permit anyone to ride in the bed.*

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

When using the electric lift, be sure to avoid backing up to the edge of a drop off, such as a loading dock or
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings.

ravine. A misjudgment of distance or an unstable surface could result in the vehicle falling backwards.

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

**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.

**MANUAL LIFT BED OPERATION**

**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. 10 on page 5). Raise the bed using the handle on the side of the bed.

The gas strut will assist in raising the empty loadbed and will keep the bed raised (Ref. Fig. 11 on page 5).

**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 loadbed 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.

**ELECTRIC LIFT BED OPERATION**

**WARNING**

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

The electric lift toggle switch is located on the driver side of the front seat panel (Ref. Fig. 12 on page 5). Move the toggle switch upward to raise the dump bed and downward to lower the dump bed.
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.

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).

WARNING 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.

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. Add oil if the level on the dipstick indicates that oil is in the add oil range (Ref. Fig. 21 on page 14).

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

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 becoming contaminated and/or being discharged into the engine compartment.

The oil should be changed in accordance with the Periodic Service Schedule while the engine is warm. See SERVICE AND MAINTENANCE for checking oil level and changing oil procedures.

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
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings.

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.

**CAUTION** 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. 14 on page 8). Fill the tank with fresh, clean, automotive grade gasoline (Ref. Fig. 42 on page 25). High altitude or heavy use/load applications may benefit from higher octane gasoline.

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.
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings.

**OPERATION AND SERVICE INFORMATION**

**BATTERY**

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.

**SUN TOP AND WINDSHIELD**

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

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

**CAUTION**

To prevent damage to the vehicle, do not hold onto sun top struts and stand on body panels.

The sun top and windshield provide some protection from the elements; however, they will not keep the operator and passenger dry in a downpour. This vehicle is not equipped with seat belts and the sun top has not been designed to provide roll over protection. In addition, the sun top does not protect against falling objects nor does the windshield protect against flying objects and tree limbs. Keep arms and legs inside of vehicle while it is moving.

**12 VOLT POWER OUTLET**

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. 15 on page 8). It provides constant power for accessories equipped with a 12 volt plug.

**TOWING A TRAILER**

The vehicle is equipped with a receiver that can be fitted with a standard 1 7/8" ball. The trailer and its load must not exceed 500 lbs (227 kg) and no more than 50 lbs (23 kg) tongue weight may be attached to the hitch. Remember that the overall capacity of the vehicle, operator, passenger, contents of load bed and accessories must be reduced to compensate for the trailer and load.

The range of motion of the trailer is limited by the ball and hitch. The trailer should not be used on rough trails or over objects such as logs, large rocks, holes, etc.

Never install baskets or extensions using the hitch receivers (front or rear). Such items will change the performance characteristics of vehicle and result in unsafe handling, possible roll over or vehicle damage.
VEHICLE CLEANING AND CARE

VEHICLE CLEANING

**WARNING**

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

**CAUTION**

When pressure washing the exterior of the vehicle, do not use pressure in excess of 700 psi. 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 to wash the exterior of the 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 its removal, taking care not to chip or otherwise damage paint.

**NOTE**

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.

LIFTING THE VEHICLE

**Tool List**

<table>
<thead>
<tr>
<th>Qty. Required</th>
<th>Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Floor jack</td>
<td>1</td>
</tr>
<tr>
<td>Jack stands</td>
<td>4</td>
</tr>
<tr>
<td>Chocks</td>
<td>4</td>
</tr>
</tbody>
</table>

Some servicing operations may require the front wheels, the rear wheels, or the entire vehicle to 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. 16 on page 10). 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.
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

**WHEELS AND TIRES**

**Tire Repair**

<table>
<thead>
<tr>
<th>Tool List</th>
<th>Qty. Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lug wrench, 3/4&quot;</td>
<td>1</td>
</tr>
<tr>
<td>Impact socket, 3/4&quot;, 1/2&quot; drive</td>
<td>1</td>
</tr>
<tr>
<td>Impact wrench, 1/2&quot; drive</td>
<td>1</td>
</tr>
<tr>
<td>Torque wrench, 1/2&quot; drive</td>
<td>1</td>
</tr>
</tbody>
</table>

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.
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

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. 17 on page 11). Tighten lug nuts to 50 - 85 ft. lbs. (70 - 115 Nm) torque in 20 ft. lbs. (30 Nm) increments following the ‘cross sequence’ pattern.

LIGHT BULB REPLACEMENT

CAUTION  To reduce the possibility of premature bulb failure, do not touch new bulbs with bare fingers. Use clean, dry tissue or paper towel to handle the glass portion of the bulb.

For vehicles with headlights mounted in cowl, locate the two screws on backside of cowl that secure headlight (Ref. Fig. 18 on page 11). Remove screws, pull headlight out and disconnect wires. Connect wires to new headlight, install in cowl and secure with screws previously removed.

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.

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.

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, a neutral lock is located on the direction selector.

To operate:

Turn key switch to ‘OFF’ and lift seat. Pull out and rotate the neutral lock pin handle so that the pointed portion of the handle is to the side of the direction selector cam (Ref. Fig. 20 on page 12). Move direction selector 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. When in this position, the direction selector remains locked in the neutral position. To unlock the direction selector, pull the neutral lock pin handle out and rotate until the pointed portion of the handle fits into the hole in the direction selector cam.

**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 mph (80 kph).

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.

**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
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings.

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 removing and grounding spark plug wires and 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. 21 on page 14). Refer to Lubrication Points for appropriate lubrication locations (Ref. Fig. 40 on page 22).

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.

SERIAL NUMBER LABEL LOCATION
Two serial number and manufacture date code label 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 under the seat.

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.
OPERATION AND SERVICE INFORMATION

Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

PERIODIC SERVICE SCHEDULE

<table>
<thead>
<tr>
<th>DAILY</th>
<th>WEEKLY</th>
</tr>
</thead>
<tbody>
<tr>
<td>✓ Check</td>
<td>♦ Clean, Adjust, etc.</td>
</tr>
</tbody>
</table>

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 function
- ✓ Check warning device function in reverse
- ✓ Check tire condition
- ✓ Check overall vehicle condition

**WEEKLY**

<table>
<thead>
<tr>
<th>TIRES</th>
<th>✓ Examine for cuts, excessive wear and pressure (See GENERAL SPECIFICATIONS)</th>
</tr>
</thead>
<tbody>
<tr>
<td>WHEELS</td>
<td>✓ Check for bent rims, missing or loose lug nuts</td>
</tr>
<tr>
<td>FUEL GAUGE</td>
<td>✓ Check for proper operation (at fueling), and fuel cap vent is free of dirt</td>
</tr>
<tr>
<td>ENGINE OIL</td>
<td>✓ Check and add if required - DO NOT OVERFILL</td>
</tr>
<tr>
<td>STARTER/GENERATOR BELT</td>
<td>✓ Check for tension, wear, cracks</td>
</tr>
</tbody>
</table>

**MONTHLY - 20 HOURS** (includes items listed in previous table & the following)

<table>
<thead>
<tr>
<th>WIRING</th>
<th>✓ Check all wiring for loose connections and broken/missing insulation</th>
</tr>
</thead>
<tbody>
<tr>
<td>ACCELERATOR</td>
<td>✓ Check for smooth movement - DO NOT LUBRICATE CABLE</td>
</tr>
<tr>
<td>SERVICE BRAKE (MECHANICAL BRAKES)</td>
<td>✓ Conduct brake performance test</td>
</tr>
<tr>
<td>PARK BRAKE</td>
<td>✓ Check brake performance and adjust if required</td>
</tr>
<tr>
<td>CHOKE CABLE</td>
<td>✓ Check for smooth movement and adjustment - DO NOT LUBRICATE CABLE</td>
</tr>
<tr>
<td>CARBURETOR LINKAGE</td>
<td>✓ Check attachment, adjust as required</td>
</tr>
<tr>
<td>DIRECTION SELECTOR</td>
<td>✓ Check attachment, adjust as required</td>
</tr>
<tr>
<td>ENGINE</td>
<td>✓ Check for unusual noise, vibration, acceleration, oil leaks</td>
</tr>
<tr>
<td>COOLING FAN</td>
<td>✓ Check for build-up of foreign matter inside blower housing and fins, clean if required</td>
</tr>
<tr>
<td>STEERING ASSEMBLY</td>
<td>✓ Check for abnormal play, tightness of all hardware</td>
</tr>
<tr>
<td>TIE ROD/LINKAGES</td>
<td>✓ Check for excessive play, bent components or loose connections</td>
</tr>
<tr>
<td>REAR AXLE</td>
<td>✓ Check for leakage, add SAE 30 oil as required</td>
</tr>
</tbody>
</table>

**QUARTERLY - 50 HOURS** (includes items listed in previous tables & the following)

| FRONT AXLE | ✓ Check for damage to axle and loose or missing hardware |

Fig. 21  Periodic Service Schedule
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings

<table>
<thead>
<tr>
<th>Component</th>
<th>Action</th>
<th>Notes/Warnings</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRONT SHOCK ABSORBERS</td>
<td>✓ Check for oil leakage and loose fasteners</td>
<td></td>
</tr>
<tr>
<td>FRONT SPRINGS</td>
<td>✓ Check for loose hardware, cracks at attachments</td>
<td></td>
</tr>
<tr>
<td>FRONT WHEEL ALIGNMENT</td>
<td>✓ Check for unusual tire wear, align if required</td>
<td></td>
</tr>
<tr>
<td>PARK BRAKE</td>
<td>✓ Check for bent/binding linkage rod</td>
<td>♦ Lubricate as required, use light oil. DO NOT LUBRICATE CABLES OR BRAKE LATCH</td>
</tr>
<tr>
<td></td>
<td>✓ Check for damage or wear to latch arm or catch bracket</td>
<td></td>
</tr>
<tr>
<td>REAR SHOCK ABSORBERS</td>
<td>✓ Check for oil leakage, loose mounting hardware</td>
<td></td>
</tr>
<tr>
<td>ENGINE ELECTRICAL SYSTEM</td>
<td>✓ Check coil/spark plug wires for cracks/loose connections</td>
<td></td>
</tr>
<tr>
<td>FUEL SYSTEM</td>
<td>✓ Check for leaks at tank, cap, system lines, filters, pump, carburetor</td>
<td>✓ Check system lines for cracks/deterioration</td>
</tr>
<tr>
<td>THROTTLE/GOVERNOR LINKAGE</td>
<td>✓ Check operation and governed speed</td>
<td></td>
</tr>
<tr>
<td>HARDWARE AND FASTENERS</td>
<td>✓ Check for loose or missing hardware and components</td>
<td>♦ Tighten or replace missing hardware</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SEMI-ANNUAL - 125 HOURS (includes items listed in previous tables &amp; the following)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>BATTERY</td>
<td>♦ Clean battery &amp; terminals</td>
<td></td>
</tr>
<tr>
<td>DIRECTION SELECTOR</td>
<td>✓ Check for wear and smooth movement (lubricate shaft with light oil if required)</td>
<td></td>
</tr>
<tr>
<td>KING PINS</td>
<td>✓ Check for excessive play and tightness of retaining nuts</td>
<td></td>
</tr>
<tr>
<td>STEERING ASSEMBLY</td>
<td>✓ Check for leaks at tank, cap, system lines, filters, pump, carburetor</td>
<td>✓ Check system lines for cracks/deterioration</td>
</tr>
<tr>
<td>RACK END BALL JOINT</td>
<td>♦ Lubricate, use wheel bearing grease</td>
<td></td>
</tr>
<tr>
<td>REAR AXLE</td>
<td>✓ Check for unusual noise and loose or missing mounting hardware</td>
<td></td>
</tr>
<tr>
<td>AIR FILTER ELEMENT</td>
<td>✓ Check filter element, clean/replace as required</td>
<td></td>
</tr>
<tr>
<td>OIL FILTER</td>
<td>♦ Clean in solvent (at oil change), replace ‘O’ rings if required</td>
<td></td>
</tr>
<tr>
<td>ENGINE OIL</td>
<td>▲ Replace with SAE 10W-30 or 10W-40 that meets or exceeds SF, SG, CC oil, DO NOT OVERFILL</td>
<td></td>
</tr>
<tr>
<td>DRIVE BELT</td>
<td>✓ Check for cracks, fraying and excessive wear</td>
<td></td>
</tr>
<tr>
<td>ANNUAL - 250-300 HOURS (includes items listed in previous tables &amp; the following)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FRONT WHEEL BEARINGS</td>
<td>✓ Check and adjust as required, see Technician’s Repair and Service Manual</td>
<td></td>
</tr>
<tr>
<td>REAR AXLE</td>
<td>✓ Check lubricant, add lubricant (Ref. Fig. 42 on page 25) as required</td>
<td></td>
</tr>
<tr>
<td>SERVICE BRAKES</td>
<td>♦ Clean and adjust, see Technician’s Repair and Service Manual</td>
<td>✓ Check brake shoe linings, see Technician’s Repair and Service Manual</td>
</tr>
<tr>
<td></td>
<td></td>
<td>✓ Check level, add if required (DOT 3) and check for leakage</td>
</tr>
<tr>
<td>FUEL FILTER</td>
<td>▲ Replace</td>
<td></td>
</tr>
<tr>
<td>SPARK PLUGS</td>
<td>▲ Replace, gap new plugs (Ref. Capacities and Replacement Parts on page 25)</td>
<td></td>
</tr>
<tr>
<td>MUFFLER/EXHAUST</td>
<td>✓ Check mounting hardware; check for leaks at head and muffler gaskets</td>
<td></td>
</tr>
<tr>
<td>VALVES</td>
<td>✓ Check cold (intake/exhaust) per Technician’s Repair and Service Manual</td>
<td></td>
</tr>
</tbody>
</table>

Fig. 21 Periodic Service Schedule
OPERATION AND SERVICE INFORMATION

Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings.

**TIRE INSPECTION**

Tire condition should be inspected per the Periodic Service Schedule (Ref. Fig. 21 on page 14). Inflation pressures should be checked when the tires are cool. Be sure to install the valve dust cap after checking or inflating.

**CHECKING THE OIL LEVEL**

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

**NOTE** When adding oil between oil changes, do not mix brands and viscosity grades of oil. 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 becoming contaminated and/or oil being discharged into the engine compartment.

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

Remove the dipstick and wipe off the entire area indicated with a lint free cloth (Ref. Fig. 22 on page 16).

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

The engine can be operated safely as long as 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** (Ref. Fig. 23 on page 16).

**CHANGING THE OIL**

**Tool List**

<table>
<thead>
<tr>
<th>Qty. Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socket, 10 mm, 3/8” drive</td>
</tr>
<tr>
<td>Ratchet, 3/8” drive</td>
</tr>
<tr>
<td>Extension, 8&quot;, 3/8” drive</td>
</tr>
<tr>
<td>Oil drain pan</td>
</tr>
</tbody>
</table>

**WARNING** To reduce the possibility of severe injury, wear rubber gloves to protect skin from exposure to hot, used oil and degreaser. These fluids contain chemicals known to cause cancer.
The oil should be changed with the engine warm. Park the vehicle on a level surface, engage the park brake and remove the key. Place a drain pan under the engine. Wipe the top of the engine clean with a cloth (Ref. Fig. 25 on page 17). Remove the oil fill cap.

Clean the area around the filter. Oil drainage is accomplished by removing the three bolts securing the oil filter to the engine. Remove the filter by pulling it from the engine and allow the oil to drain. The ‘O’ rings may remain on the engine or the filter (Ref. Fig. 26 on page 17).

At each oil change, thoroughly inspect filter before cleaning. At the first oil change, metal chips and lint may be found. This is normal, resulting from engine run-in. At subsequent oil changes, the presence of metal chips may indicate possible engine damage.

Wear eye protection to reduce the possibility of splashed solvent contacting the eyes when cleaning oil filter.

Clean the filter by washing in any shop degreaser and brushing the metal screen clean with a soft brush (Ref. Fig. 27 on page 17).

Blow out the filter with low pressure air 30 psi (210 kPa) or less from no closer than 3” (8 cm) and allow to air dry (Ref. Fig. 28 on page 17).

Wipe the area around the filter mount with a clean, lint free cloth and inspect both filter ‘O’ rings for damage; replace if necessary. Install the filter into the engine. The filter engages over a short nipple in the engine. The filter should slide easily onto the nipple and seat against the engine using light hand pressure only. Align the holes in
the filter mounting plate with the holes in the engine. Install and hand tighten the bolts before tightening them firmly.

Add slightly less than 1 1/2 quarts (1.4 liters) to allow for possible residual oil left in engine (Ref. Fig. 29 on page 18). The oil must be high quality oil that meets or exceeds API SF, SG, CC standards (Ref. Fig. 42 on page 25). Check oil level on dipstick. 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.

**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.

Inspect oil fill cap ‘O’ ring and replace if necessary. Install the oil fill cap. Run the vehicle for one or two minutes and check the filter for oil leaks.

Check the oil level again with the vehicle on level ground. Oil should be added to bring the level into the safe operating range. Do not overfill. 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**

<table>
<thead>
<tr>
<th>Tool List</th>
<th>Qty. Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Belt tension gauge</td>
<td>1</td>
</tr>
<tr>
<td>Wrench, 3/4&quot;</td>
<td>1</td>
</tr>
<tr>
<td>Wrench, 9/16&quot;</td>
<td>2</td>
</tr>
<tr>
<td>Ratchet, 3/8&quot; drive</td>
<td>1</td>
</tr>
<tr>
<td>Socket, 3/4&quot;, 3/8&quot; drive</td>
<td>1</td>
</tr>
</tbody>
</table>

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

**NOTE** A loose belt can cause audible vibration and squeal.

Tighten a new starter/generator belt (Ref. Fig. 42 on page 25) to 90 - 110 lbs. (41-50 kg) tension when a gauge is applied half way between the two pulleys (Ref. Fig. 30 on page 18).

**Fig. 30 Checking Belt Tension with Gauge**

A new belt may be checked manually. A maximum deflection of 3/8" (10 mm) is acceptable (Ref. Fig. 31 on page 18).

**Fig. 31 Checking Belt Tension Manually**

Tighten an existing belt to 75 - 80 lbs. (34 - 36 kg) tension using the same technique and inspect for 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. 32 on page 19).

Adjusting the Belt Tension

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. Fig. 21 on page 14).
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. 33 on page 19). 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.

Fig. 32 Adjusting Belt Tension

Fig. 33 Preparing Acid Neutralizing Solution

BRAKES

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.
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 parking brake to eliminate different pedal pressures and to include the affects of linkage misadjustment.

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.

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. 34 on page 20). 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.

Hydraulic Front Disc Brakes

For vehicles equipped with hydraulic front disc brakes, check master cylinder fluid per PERIODIC SERVICE SCHEDULE or if there is a decrease in braking effectiveness. Inspect components for damage or wear. It is unlikely that fluid will need to be added unless there is a leak in the system. Raise the front of the vehicle (See raising the vehicle). Remove passenger side wheel/tire. Carefully wipe off dirt and debris from master cylinder and cap before opening. Remove the cap. Using a mechanics mirror, check to see that fluid is no more than
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings.

1/4" below top of reservoir. Add DOT 3 or 4 fluid as required.

**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 (Ref. Fig. 35 on page 21) (Ref. Fig. 36 on page 21). Keep linkages, springs and controls clean. Keep area around muffler free of any combustible material.

**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. 37 on page 21). Unless leakage of rear axle lubricant is evident, an annual lubricant check is sufficient.

---

**Fig. 35 Cleaning Air Intake**

**Fig. 36 Cleaning the Cooling Fins**

**Tool List**

<table>
<thead>
<tr>
<th>Qty. Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Socket, 13 mm, 3/8&quot; drive</td>
</tr>
<tr>
<td>Ratchet, 3/8&quot; drive</td>
</tr>
<tr>
<td>Funnel</td>
</tr>
</tbody>
</table>

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. 42 on page 25). If lubricant is to be added, remove the fill plug and add lubricant using a funnel. Add lubricant slowly until lubricant starts to seep from the check plug hole. Install the check plug and the 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**

**CAUTION** To reduce the possibility of engine damage, be sure that bottom tabs of cover are installed in enclosure and top of cover is installed under top tabs. Secure all spring clips.

**NOTE** 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.

The air cleaner is attached to the engine and may be accessed by raising the seat. Inspect and replace air filter in accordance with the Periodic Service Schedule (Ref. Fig. 21 on page 14). The air cleaner element is accessible by unsnapping top clips from the air box and swinging the cover open. Remove cover and air filter element (Ref. Fig. 38 on page 22). Clean inside of cover and enclosure. Install the new element in the same way the old filter was removed, being sure that the filter seal is
correctly installed. Insert cover into the lower portion of the enclosure and swing it up into place. Squeeze housing together and secure with top clips. Be sure cover fits under tabs and all clips are fastened securely.

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.

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.

Canister Type Air Cleaner

The air cleaner element is accessible by unsnapping the clips on the air canister and removing the cover and air filter element (Ref. Fig. 39 on page 22). 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.

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.

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. Install the element in the same way it was removed, being sure that the clips are fastened securely.

**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. 40 on page 22).

**SPARK PLUGS**

**Tool List**

<table>
<thead>
<tr>
<th>Item</th>
<th>Qty. Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Spark plug socket, 13/16&quot;, 1/2&quot; drive</td>
<td>1</td>
</tr>
<tr>
<td>Ratchet, 1/2&quot; drive</td>
<td>1</td>
</tr>
<tr>
<td>Plug gauge, wire type</td>
<td>1</td>
</tr>
<tr>
<td>Anti-seize compound</td>
<td>AR</td>
</tr>
<tr>
<td>Torque wrench, 1/2&quot; drive, ft. lbs.</td>
<td>1</td>
</tr>
</tbody>
</table>

**CAUTION** Use care not to over-tighten the plug. Over-tightening can cause damage to the aluminum cylinder head threads.
Remove and inspect the spark plugs at intervals indicated in the Periodic Service Schedule (Ref. Fig. 21 on page 14). All new spark plugs should be properly gapped before installation (Ref. Fig. 42 on page 25). Apply a light coat of anti-seize compound and tighten to 18 ft. lbs. (24 Nm) torque.

Fouled spark plugs are 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 wires which are in poor condition or poor quality fuel could also contribute to the problem.

PROLONGED STORAGE

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.

- Remove spark plugs (Refer to SPARK PLUGS on page 22) and pour about 1 oz. (30 ml) of engine oil into each cylinder. Replace spark plugs, ground spark plug wires and use starter to turn engine over a few seconds to distribute oil.
- 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 (Refer to CHANGING THE OIL on page 16).
- Clean body, chassis and engine of debris, mud, chaff or grass (Refer to AIR INTAKE AND COOLING FINS on page 21).

HARDWARE

Periodically, the vehicle should be inspected for loose fasteners. Fasteners should be tightened in accordance with the Torque Specifications table (Ref. Fig. 41 on page 24).

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. 41 on page 24).
Read all of manual to become thoroughly familiar with this vehicle. 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.

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

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

Fig. 41 Torque Specifications
# Capacities and Replacement Parts

<table>
<thead>
<tr>
<th>Component</th>
<th>Capacity/Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fuel Tank / Fuel</td>
<td>6.0 gal (22.5 L) / 87 Octane</td>
</tr>
<tr>
<td>Engine Oil</td>
<td>1 1/2 qt (1.4 L)</td>
</tr>
<tr>
<td>Oil Filter</td>
<td>P/N 26591-G01</td>
</tr>
<tr>
<td>Air Filter</td>
<td>P/N 72368-G01 Panel Filter</td>
</tr>
<tr>
<td></td>
<td>P/N 28463-G01 Canister Filter</td>
</tr>
<tr>
<td>Spark Plugs</td>
<td>NGK BPR4ES (P/N 25523-G3) 295cc</td>
</tr>
<tr>
<td></td>
<td>NGK BPR5ES (P/N 25523-G4) 350cc</td>
</tr>
<tr>
<td></td>
<td>.020 - .030&quot; (.71 - .76 mm) Gap</td>
</tr>
<tr>
<td>Starter/Generator</td>
<td>P/N 26414-G01</td>
</tr>
<tr>
<td>Belt</td>
<td></td>
</tr>
<tr>
<td>Clutch Belt</td>
<td>P/N 72054-G01</td>
</tr>
<tr>
<td>Rear Axle Oil</td>
<td>40 oz (1.2 L)</td>
</tr>
<tr>
<td>Fuse</td>
<td>15 amp (P/N 35212-G01)</td>
</tr>
<tr>
<td>Headlight Bulb</td>
<td>P/N 20209-G3</td>
</tr>
<tr>
<td>Marker Bulb</td>
<td>#912 (P/N 74005-G01)</td>
</tr>
<tr>
<td>Turn Signal Bulb</td>
<td>#1157 (P/N 21759-G1)</td>
</tr>
<tr>
<td>Tail Light Bulb</td>
<td>#1157 (P/N 21759-G1)</td>
</tr>
</tbody>
</table>

---

Fig. 42 Capacities and Replacement Parts
Read all of manual to become thoroughly familiar with this vehicle. Pay particular attention to all Notes, Cautions and Warnings.
GENERAL SPECIFICATIONS
# GENERAL SPECIFICATIONS

## HAULER™ 800

<table>
<thead>
<tr>
<th><strong>STANDARD EQUIPMENT:</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>WEIGHT</strong> (dry fuel tank)</td>
</tr>
<tr>
<td><strong>TIRES</strong> (4 ply rated)</td>
</tr>
<tr>
<td><strong>TIRE PRESSURE</strong></td>
</tr>
<tr>
<td><strong>LOAD CAPACITY</strong></td>
</tr>
<tr>
<td><strong>GROUND CLEARANCE</strong></td>
</tr>
<tr>
<td><strong>CHASSIS</strong></td>
</tr>
<tr>
<td><strong>BODY &amp; FINISH</strong></td>
</tr>
<tr>
<td><strong>SAFETY</strong></td>
</tr>
<tr>
<td><strong>LIGHTING PACKAGE</strong></td>
</tr>
<tr>
<td><strong>STEERING WHEEL</strong></td>
</tr>
<tr>
<td><strong>BRAKES</strong></td>
</tr>
<tr>
<td><strong>FRONT SUSPENSION</strong></td>
</tr>
<tr>
<td><strong>REAR SUSPENSION</strong></td>
</tr>
<tr>
<td><strong>STEERING</strong></td>
</tr>
<tr>
<td><strong>DASH PANEL</strong></td>
</tr>
<tr>
<td><strong>SEATING</strong></td>
</tr>
<tr>
<td><strong>ENGINE</strong></td>
</tr>
<tr>
<td><strong>VALVE TRAIN</strong></td>
</tr>
<tr>
<td><strong>LUBRICATION</strong></td>
</tr>
<tr>
<td><strong>BALANCER</strong></td>
</tr>
<tr>
<td><strong>IGNITION</strong></td>
</tr>
<tr>
<td><strong>CARBURETOR</strong></td>
</tr>
<tr>
<td><strong>AIR CLEANER</strong></td>
</tr>
<tr>
<td><strong>DRIVE TRAIN</strong></td>
</tr>
<tr>
<td><strong>ELECTRICAL SYSTEM</strong></td>
</tr>
<tr>
<td><strong>TRANSAXLE</strong></td>
</tr>
<tr>
<td><strong>FUEL TANK</strong></td>
</tr>
<tr>
<td><strong>SPEED</strong></td>
</tr>
</tbody>
</table>

Specifications subject to change without notice
HAULER™ 1200

STANDARD EQUIPMENT:

WEIGHT (dry fuel tank) 860 lbs (390 kg) fuel capacity 36 lbs (16 kg)
TIRES (4 ply rated) 18 x 5.70 x 8 (4 ply rated)
TIRE PRESSURE 35 - 45 psi (241 - 310 kPa)
LOAD CAPACITY 1200 lbs (544 kg) (including operator, passenger, cargo and accessories)
GROUND CLEARANCE 5 in (12.7 cm) at differential
CHASSIS Welded high yield strength tubular steel with powder coat paint
BODY & FINISH Front: Flexible, impact resistant panels. Color coat/clear coat finish
Rear: Lightweight, replaceable steel panels
SAFETY Dash mounted key switch, reverse warning indicator, ‘deadman’ accelerator control, integral
handgrip on hip restraints, manual forward/reverse selector, electric horn, differential skid plate,
engine guard
LIGHTING PACKAGE Dual halogen headlights, optional taillights, brake lights, turn signals
STEERING WHEEL Dual handgrips
BRAKES Dual rear wheel mechanical, self-adjusting drum brakes. Combination service / park brake with
automatic parking brake release (accelerator kick-off). Optional hydraulic front disc brakes
FRONT SUSPENSION Heavy duty leaf springs with hydraulic shock absorbers
REAR SUSPENSION Heavy duty leaf springs with hydraulic shock absorbers
STEERING Self-compensating single reduction rack and pinion
DASH PANEL Scuff resistant with four drink holders, fuel gauge, low oil pressure indicator light
SEATING Formed fabric backed vinyl covers over cushion foam. Seating for operator and one passenger
ENGINE 11 hp (8.2 kW) rated, 4 cycle, 350cc twin cylinder air cooled
VALVE TRAIN Overhead valve, overhead cam, belt drive
LUBRICATION Pressurized oil system, washable permanent filter
BALANCER Internal counter-rotating balance shaft
IGNITION Solid State, electronic timing advance and RPM limiter
CARBURETOR Fixed jet, remote pulse fuel pump
AIR CLEANER Replaceable dry cartridge element
DRIVE TRAIN Automatic, continuously variable transmission (CVT)
ELECTRICAL SYSTEM External starter/generator, Solid State regulator, 12 volt maintenance free battery, 425 CCA, 60
minute reserve
TRANSAXLE High efficiency differential with helical gears, 13.32:1 ratio, ground speed governor, forward and
reverse with neutral lock
FUEL TANK 6 gal (23 L)
SPEED 13 mph ± .5 mph (21 kph ± .8 kph)

Specifications subject to change without notice
GENERAL SPECIFICATIONS

Fig. 43 Vehicle Dimensions
Fig. 44 Vehicle Dimensions, Incline Specifications and Turning Clearance Diameter

RECOMMENDED MAX SIDE TILT
25% or 14° MAX

RECOMMENDED MAX RAMP GRADE
25% or 14° MAX

TURNING CLEARANCE DIAMETER
HAULER™ 800 19 ft (5.8 m)
HAULER™ 1200 22 ft (6.7 m)
GENERAL SPECIFICATIONS

Notes:

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Owner's Manual and Service Guide
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.
VEHICLE WARRANTIES

2004 INTERNATIONAL WARRANTY
(ALL COUNTRIES OUTSIDE THE U.S. AND CANADA)

E-Z-GO Division of Textron, Inc. ("E-Z-GO") warrants to the Original Retail Purchaser or the Original Retail Lessee that any 2004 E-Z-GO vehicle and/or Battery Charger shall be free from any defects in material or workmanship for one year from the date of installation at the customer's location with respect to parts and labor.

EXCLUSIONS: Specifically excluded from any E-Z-GO warranty are adjustments/repairs made due to normal wear beyond the first 180 days, routine maintenance items, cosmetic deterioration, and electrical components which are susceptible to fluctuations in current beyond the control of E-Z-GO. This warranty also does not apply to Acts of God or other events over which E-Z-GO has no control. Transportation charges for warranty service, as well as freight charges to receive warranty parts are excluded from this warranty and all replaced parts shall become the property of E-Z-GO. This warranty also excludes batteries, tires, and Lester battery chargers which are warranted by their respective manufacturer.

REMEDY: The sole remedy under this warranty and E-Z-GO's only obligation in the event of a defect in the vehicle/battery charger, is that E-Z-GO will, at its sole option, repair or replace any defective parts. This remedy precludes all other remedies including any lawsuits, claims or other proceedings alleging strict liability, negligence of contract or any cause of action. E-Z-GO reserves the right to improve or change the design of any E-Z-GO vehicle or battery charger without assuming any responsibility to modify previously manufactured vehicles or battery chargers.

DISCLAIMER: THIS WARRANTY IS MADE IN LIEU OF ALL OTHER WARRANTIES, IMPLIED OR EXPRESSED, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. E-Z-GO WILL FURTHER DISCLAIM ANY LIABILITY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, TO INCLUDE BUT NOT BE LIMITED TO, PERSONAL INJURY OR PROPERTY DAMAGE ARISING FROM ANY DEFECT IN THE VEHICLE/BATTERY CHARGER.

No agent, employee or representative of E-Z-GO, or any person has any authority to bind E-Z-GO to any other agreement, representation, or warranty concerning the goods sold under this warranty.

WARNING: ANY MODIFICATION OR CHANGE TO THE VEHICLE OR BATTERY CHARGER WHICH ALTERS THE WEIGHT DISTRIBUTION OF THE VEHICLE, ITS STABILITY, INCREASES THE SPEED, OR ALTERS THE OUTPUT OF THE BATTERY CHARGER BEYOND THE FACTORY SPECIFICATION, CAN CAUSE PERSONAL INJURY. DO NOT MAKE ANY SUCH MODIFICATION OR CHANGE. E-Z-GO PROHIBITS, AND DISCLAIMS RESPONSIBILITY FOR, ANY SUCH ALTERATION WHICH WOULD ADVERSELY AFFECT THE SAFETY OF VEHICLE OR BATTERY CHARGER.

VOIDING OF WARRANTY: THIS, AND ANY OTHER WARRANTY SHALL BE VOID IF THE VEHICLE OR BATTERY CHARGER IS ABUSED OR OTHERWISE NOT USED IN ITS INTENDED MANNER; IS IN AN ACCIDENT OR COLLISION; SHOWS INDICATIONS THAT THE SPEED GOVERNOR WAS ADJUSTED OR MODIFIED ALLOWING THE VEHICLE TO OPERATE BEYOND E-Z-GO'S SPECIFICATIONS; SHOWS INDICATIONS THAT IT HAS BEEN ALTERED OR MODIFIED IN ANY WAY FROM E-Z-GO SPECIFICATIONS, INCLUDING BUT NOT LIMITED TO ALTERATIONS TO THE SPEED BRAKING SYSTEM, ELECTRICAL SYSTEM, STEERING OR OTHER OPERATING SYSTEMS OF THE VEHICLE OR; SHOWS INDICATIONS THAT ROUTINE MAINTENANCE WAS NOT PERFORMED WHEN, AND IN THE MANNER SPECIFIED IN THE E-Z-GO MAINTENANCE MANUAL. THIS WARRANTY SHALL BE VOID WITH RESPECT TO ANY DEFECT OR DAMAGE CAUSED BY, OR AS A RESULT OF, OR RELATED TO PARTS OR ACCESSORIES WHICH ARE NOT MANUFACTURED OR AUTHORIZED BY E-Z-GO, OR WERE NOT INSTALLED PER E-Z-GO'S INSTRUCTIONS, OR, FOR GASOLINE VEHICLES, THE USE OF NON-RECOMMENDED FUELS AND LUBRICANTS.

FOR FURTHER INFORMATION, CALL 1-706-798-4311 OR WRITE TO E-Z-GO Division of Textron, Inc. ATTENTION: WARRANTY DEPARTMENT, P.O. BOX 388, AUGUSTA, GEORGIA 30903-0388.
EMISSIONS COMPONENT DEFECT WARRANTY

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

Fuji 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.

EMISSION 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.

1) Fuel Metering System
   (i) Carburetor and internal parts (and/or pressure regulator or fuel injection system)
   (ii) Air/fuel ratio feedback and control system, if applicable.
   (iii) Cold start enrichment system, if applicable.
   (iv) Regulator assy (gaseous fuel, if applicable)
2) Air Induction System
   (i) Intake manifold, if applicable
   (ii) Air filter.
3) Ignition System
   (i) Spark plugs.
   (ii) Magneto or electronic ignition system.
   (iii) Spark advance/retard system, if applicable.
4) Exhaust manifold, if applicable
5) Miscellaneous Items Used in Above Systems
   (i) Electronic controls, if applicable
   (ii) Hoses, belts, connectors, and assemblies.
   (iii) Filter lock assy (gaseous fuel, if applicable)

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

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.
CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT

YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Fuji Heavy Industries Ltd. (herein "FUJI") are pleased to explain the emission control system warranty on your 2004 and later small off-road engine (herein "engine"). In California, new engine must be designed, built and equipped to meet the State's stringent anti-smog standards. FUJI must warrant the emission control system on your engine for the period of time described below, provided there has been no abuse, neglect or improper maintenance of your engine.

Your emission control system may include parts such as the carburetor and the ignition system. Also included may be hoses, connectors and other emission-related assemblies.

Where a warrantable condition exists, FUJI will repair your engine at no cost to you including diagnosis, parts and labor.

MANUFACTURER'S WARRANTY COVERAGE:
The 2004 and later engines are warranted for two (2) years. If any emission related part on your engine is defective, the part will be repaired or replaced by FUJI.

OWNER'S WARRANTY RESPONSIBILITIES:
As the engine owner, you are responsible for the performance of the required maintenance listed in your Owner's Manual. FUJI recommends that you retain all receipts covering maintenance on your engine, but FUJI 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 FUJI may deny you 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 a dealer, distributor or service provider authorized by E-Z-GO Division of Textron Augusta, Georgia, (herein "E-Z-GO") to which FUJI supplies the engine as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

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.

LIMITED WARRANTY
on Emission Control Systems
- California Only -

FUJI, Tokyo, Japan, warrants to the owner of the 2004 and later engine that the engine (1) has been designed, built and equipped so as to conform at the time of manufacture with the applicable regulations of the California Air Resources Board, and (2) is free from defects in materials and workmanship which could cause it to fail to conform with those regulations as may be applicable in the terms and conditions stated below.

A. WARRANTY COMMENCEMENT DATE
The warranty period begins on the date the engine is delivered to a first retail purchaser.

B. LENGTH OF COVERAGE
FUJI warrants to a first retail purchaser and each subsequent purchaser that the engine is free from defects in materials and workmanship which could cause the failure of a warranted emission-related part for a period of two (2) years after the date of delivery to the first retail purchaser.

C. WHAT IS COVERED:
1. REPAIR OR REPLACEMENT PARTS
Repairs and replacement of any warranted part will be performed at no charge to you by an authorized dealer, distributor or a service provider. You may contact the E-Z-GO Warranty Department at 1-800-241-5855 to get the nearest appropriate location where your warranty repairs are performed.

2. WARRANTY PERIOD
This warranty continues for a period of two (2) years and shall apply only to the repair, replacement or adjustment of the component parts which are not scheduled for replacement as required maintenance. Further, component parts which are scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted for the warranty period. Any warranted parts which are scheduled for replacement shall be covered by this warranty for the remainder of the warranty period.

Owner’s Manual and Service Guide
part which is scheduled for replacement as required maintenance shall be warranted for the pe-
period of time up to the first scheduled replacement point for that part.

3. DIAGNOSIS
You shall not be charged for diagnostic labor which leads to the determination that a
warranted part is defective, if the diagnostic work is performed at an authorized dealer,
distributor or service provider.

4. CONSEQUENTIAL DAMAGES
If a warranted part failed causing damages to other engine components, consult a service provid-
er.

D. WHAT IS NOT COVERED

1. This limited warranty does not cover any part which malfunctions, fails or is damaged due to failure to
follow the maintenance and operating instructions set forth in the 2004 and later Owner's Manual in-
cluding:
   (1) improper scheduled engine inspection and maintenance
   (2) improper maintenance of any warranted parts
   (3) improper installation, adjustment or repair of the engine or of any warranted part unless per-
       formed by an authorized dealer
   (4) failure to follow recommendations on fuel use contained in the 2004 and later Owner's Manual
   (5) repairs performed outside of the authorized warranty service facilities
   (6) use of parts which are not authorized by FUJI

2. Add-on or modified parts
This warranty does not cover any part which malfunctions, fails or is damaged due to alterations
by changing, adding to or removing parts from the engine.

3. Expenses incurred by processing warranty claims
FUJI, any authorized dealer, distributors and service providers shall not be liable for any loss of
use of the engine, for any alternative usage, for any damage to goods, loss of time or inconve-
nience.

E. HOW TO FILE A CLAIM
All repairs qualifying under this Limited Warranty must be performed by a dealer who sold you the engine
or distributors or service providers authorized by E-Z-GO. In the event that any emission-related part is
found to be defective during the warranty period, you should notify E-Z-GO Warranty Department at 1-800-
241-5855 and you will be given the appropriate warranty service facilities where the warranty repair is per-
formed.

F. WHERE TO GET WARRANTY SERVICE
It is recommended that warranty service be performed by the authorized dealer who sold you the engine,
although warranty service will be performed by any authorized dealers, distributors and service providers
anywhere in the United States. When warranty repair is needed, the engine must be brought to an autho-
rized dealer, distributorship or service provider’s place of business during normal business hours. In all cas-
es, a reasonable time, not to exceed 30 days, must be allowed for the warranty repair to be completed after
the engine is received by the authorized dealer, distributor or service station.

G. MAINTENANCE, REPLACEMENT AND REPAIR OF EMISSION-RELATED PARTS
Only warranted engine replacement parts approved by FUJI should be used in the performance of any war-
ranty maintenance or repairs on emission-related parts. If other than authorized parts are used for mainte-
nance, replacement or repair of components affecting emission control, you should assure yourself that
such parts are warranted by their manufacturer to be equivalent to authorized parts in performance and
durability. FUJI, however, assumes no liability under this warranty with respect to parts other than autho-
rized parts. The use of non-authorized replacement parts does not invalidate the warranty on other com-
ponents unless the non-authorized parts cause damage to warranted parts.

H. PARTS COVERED UNDER THE CALIFORNIA EMISSIONS WARRANTY
(1) Fuel Metering System
   (i) Carburetor and internal parts (and/or pressure regulator or fuel injection system)
   (ii) Air/fuel ratio feedback and control system, if applicable
   (iii) Cold start enrichment system, if applicable
   (iv) Regulator assy (gaseous fuel, if applicable)
(2) Air Induction System
   (i) Intake manifold, if applicable
   (ii) Air filter
(3) Ignition System
   (i) Spark plugs
   (ii) Magneto or electronic ignition system.
(iii) Spark advance/retard system, if applicable
(4) Exhaust manifold, if applicable
(5) Miscellaneous Items Used in Above Systems
   (i) Electronic controls, if applicable
   (ii) Hoses, belts, connectors, and assemblies
   (iii) Filter lock assy (gaseous fuel, if applicable)

I. MAINTENANCE STATEMENTS

   It is your responsibility to have all scheduled inspection and maintenance services performed at the times recommended in the 2004 and later Owner's Manual and to retain proof that inspection and maintenance services are performed at the times when recommended. FUJI will not deny a warranty claim solely because you have no record of maintenance; however, FUJI may deny a warranty claim if your failure to perform required maintenance resulted in the failure of warranted part. The proof which you maintain should be given to each subsequent owner of the engine. You are responsible for performing the scheduled maintenance described in the Periodic Service Schedule of this manual. The scheduled maintenance is based on the normal engine operating schedule.
DECLARATION OF CONFORMITY
(EUROPE ONLY)
DECLARATION OF CONFORMITY

NOT AVAILABLE

AT TIME OF

PUBLICATION
**LABELS AND PICTOGRAMS**

See Following Pages For Explanation Of These Pictograms: (2,3,4,6,9,36,37,38,39,40,29)

See Following Pages For Explanation Of These Pictograms: (19,43,44,45)

See Following Pages For Explanation Of These Pictograms: (2,3,4,6,9,36,37,38,39,40,29)

See Following Pages For Explanation Of These Pictograms: (1,2)

See Following Pages For Explanation Of These Pictograms: (1,2)

See Following Pages For Explanation Of These Pictograms: (20,1,21,22)

See Following Pages For Explanation Of Pictogram: (49)

See Following Pages For Explanation Of Pictogram: (30)

See Following Pages For Explanation Of This Pictogram: (28)

WARNING

Keep entire body inside car.

27653G01

WARNING

Windshields do not provide protection from golf balls or other flying objects.

EGWHL14

See Following Pages For Explanation Of These Pictograms: (23,27,18,20,22,17,15)

WARNING

Do not tamper with or change this adjustment of the governor. Failure to comply could result in serious personal injury and will void the vehicle warranty.

WARNING

This label is located on governor cover at top of rear axle.

35962G01

35964G01

71131G01

71489G01

28203G01

35493G01

74093G01

71419G01

71417G01

71415G01

35980G01

35980G02

35980G03

35980G04

74821G01

74821G02

74821G03

74821G04

74821G05

24880G01

70150G01
1. WARNING

2. READ MANUAL

3. WARNING

USE CAUTION IN INCLEMENT WEATHER

4. WARNING

DO NOT OPERATE IF USING ALCOHOL OR DRUGS

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

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
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. WARNING POSSIBLE ELECTRIC ARC OR BATTERY EXPLOSION. WEAR EYE PROTECTION.
51. MAXIMUM TAILGATE LOAD

Ref Pic 1-4
Read and understand the following warnings before attempting to operate the vehicle:

**WARNING**

To prevent personal injury or death, observe the following:

When vehicle is to be left unattended, engage parking brake, move direction selector to 'F' (forward) position, turn key to 'OFF' position and remove key.

Drive vehicle only as fast as terrain and safety considerations allow. Consider the terrain and traffic conditions. Consider environmental factors which effect the terrain and the ability to control the vehicle.

Avoid driving fast down hill. Sudden stops or change of direction may result in a loss of control. Use service brake to control speed when traveling down an incline.

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

All travel should be directly up or down hills.

Use extra care when driving the vehicle across an incline.

Stay in designated areas and avoid steep slopes. Use the parking brake whenever the vehicle is parked.

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

Avoid extremely rough terrain.

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.

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**

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 rear of 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.

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.