

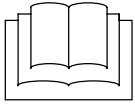
**SAFETY AND
OPERATION MANUAL
HAULSTER® POLICE VEHICLE
MODEL 898487**

Part No. 2702454



1 GENERAL INFORMATION

1.1 GENERAL INFORMATION



IMPORTANT!

THIS MANUAL WILL AID YOU IN THE SAFE OPERATION AND PROPER MAINTENANCE OF YOUR EQUIPMENT. READ MANUAL THOROUGHLY BEFORE ATTEMPTING OPERATION. IF ANY PORTION IS NOT CLEARLY UNDERSTOOD, CONTACT AN AUTHORIZED DEALER FOR CLARIFICATION.

To make sure you are fully aware of safety and service information, the following two symbols are used throughout this manual.



This symbol is used throughout the manual to alert you to information about unsafe actions or situations, and will be followed by the word DANGER, WARNING, or CAUTION. DANGER indicates immediate hazards that may result in severe injury or death. WARNING indicates unsafe actions or situations that may cause severe injury, death and/or major equipment or property damage. CAUTION indicates unsafe actions or situations that may cause injury, and/or minor equipment or property damage.

NOTE: This appears next to information or instructions which will help you operate and maintain your equipment the right way.



WARNING

The information and instructions included in this manual alert you to certain things you should do very carefully. If you do not, you could:

- hurt yourself or others
- hurt the next person who operates the equipment
- damage the equipment.

This manual contains essential operation and safety information and must remain with the unit at all times, within easy access of any operator.

Additional manuals are available through your dealer.

IMPORTANT!

THIS EQUIPMENT SHOULD NOT BE MODIFIED OR ADDED TO WITHOUT THE MANUFACTURER'S AUTHORIZATION.



WARNING

Altering this equipment in any manner which adversely affects the equipments operation, performance, durability or use, may cause hazardous conditions.

Direct any inquiries to:

Textron Turf Care and Specialty Products
Attn: Director of Engineering Services
P.O. Box 82409
Lincoln, NE 68501-2409 USA

SPECIFICATION INFORMATION

All information contained in this manual is the latest available at the time of printing. Textron Turf Care and Specialty Products reserves the right to make changes at any time without notice.

Whenever a name brand product is specified, an equivalent product may be used unless stated otherwise.

CHANGE OF OWNERSHIP OR ADDRESS

Textron Turf Care and Specialty Products makes every effort to keep owners informed of all safety related information. Therefore, changes in ownership and/or address should be reported to the manufacturer.

Your dealer has REGISTRATION CHANGE FORMS which will be filled out and filed by the dealer for his records, and a copy will be sent to the manufacturer.

DEALER INFORMATION

For your nearest dealer location write to:

Textron Turf Care and Specialty Products
Attn: Sales Coordinator
P.O. Box 82409
Lincoln, NE 68501-2409 USA

In the USA and Canada call 1-800-228-4444 (dealer information only).

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2 OPERATION SAFETY



WARNING

EQUIPMENT OPERATED IMPROPERLY OR BY
UNTRAINED PERSONNEL CAN BE DANGEROUS

Your safety and the safety of those around you is dependent upon your good judgement in operating and maintaining this vehicle.

Anyone who operates this vehicle **MUST** carefully and thoroughly read this section to become familiar with proper operating procedures. **BE SURE** to obtain an operating demonstration from your Cushman dealer before attempting to operate this vehicle.

NOTICE

THIS VEHICLE IS A MOTORCYCLE
AND MUST BE OPERATED IN
ACCORDANCE WITH MOTORCYCLE
LAWS AND REGULATIONS.

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This vehicle is classified as a **MOTORCYCLE**. Certain states have laws which require operators of motorcycles to obtain a special motorcycle operators license. Most states also require operators to wear an approved helmet.

You should **ALWAYS** wear an approved helmet that meets Motorcycle Safety Standard 218 and is marked with the symbol "DOT".

You should **ALWAYS** have a valid operator's license and be aware of all vehicle traffic laws.

ALWAYS fasten your seat belt before starting the vehicle engine.

YOU, the operator must take the time to familiarize yourself with the function of all vehicle controls as well as the operating characteristics of the vehicle. This is best accomplished through careful application of proper operating procedures.

This is heavy equipment that may cause serious injury or death to you the operator or bystanders if improperly operated or overturned.

NEVER operate this vehicle until you have thoroughly read and completely understand this operator's manual.

ONLY trained and authorized persons should be allowed to operate this vehicle.

NEVER allow children to operate this vehicle.

The following steps will inform you how to use the vehicle properly and what may happen if you do not follow these steps.

1. **BEFORE** using the vehicle, **ALWAYS** check all parts of the unit and any attachments. If something is wrong, **DO NOT** use the vehicle. Repair any problems before using the vehicle to help prevent the possibility of personal injury.
2. While using the vehicle, if something is wrong, stop using the vehicle immediately. Repair any problem **BEFORE** using the vehicle again.
3. **ALWAYS** make sure the area of operation is clear of litter, trash and other foreign objects.
4. **NEVER** carry any persons on the vehicle other than the operator.
5. **ALWAYS** keep both hands on the steering wheel whenever possible.
6. To avoid loss of steering control, **NEVER** hang or install anything of a foreign nature such as a steering wheel knob (spinner) on the steering wheel.
7. **ALWAYS** use extreme care when backing and make sure no one is behind you. To maintain vehicle control, **ALWAYS** back the vehicle carefully and at a reasonable safe speed.
8. **ALWAYS** keep arms and legs inside of vehicle while it is in motion. Sit only in seat provided by the manufacturer. Any body parts that stick out past the side of vehicle could be hit by nearby objects.
9. **NEVER** use the vehicle in or near an area where there is dust or fumes in the air which are explosive. The electrical and exhaust systems of this vehicle will produce sparks which can ignite explosive materials.

10. **ALWAYS** signal that you are going to turn or stop so that other persons know what you plan to do. **ALWAYS** obey all traffic laws and regulations.
11. **ALWAYS** watch for and avoid low overhang such as tree limbs, door jams, overhead walkways, etc. Make sure there is enough room overhead for your vehicle and cab to clear easily.
12. **ALWAYS** watch for and avoid low overhang such as tree limbs, door jams, overhead walkways, etc. Make sure there is enough room overhead for your vehicle and cab to clear easily.
13. **ALWAYS** slow down:
 - Before your turn.
 - When driving in strange areas.
 - When crossing railroad tracks, chuck holes or other rough surfaces.
14. **NEVER** make sudden stops, turns or accelerations which may upset the vehicle.
15. **ALWAYS** use good judgement when operating on or near an incline, ramp, grade, slope or other surface.
16. **ALWAYS** adjust your speed to current driving conditions (dry, moist, icy, etc.).
17. **NEVER** start or stop suddenly. You may cause unstable vehicle operating conditions.
18. **NEVER** change direction of vehicle abruptly or make sharp turns on an incline, ramp, grade, slope or other surface.
19. **ALWAYS** stay a safe distance away from pedestrians, ramp edges, platforms, other equipment, etc.
20. **ALWAYS** drive straight up or down the face of an incline, ramp, grade, slope, **NEVER** across the face.
21. While driving down an incline, especially with a heavily loaded vehicle, **ALWAYS** remove your foot from the foot throttle pedal to avoid increasing the vehicle speed beyond level ground maximum speed. **ALWAYS** use the foot brake (service brake) to slow the vehicle.
22. **NEVER** overload your vehicle. The nameplate (located on kick panel) shows the heaviest possible load you can carry. **ALWAYS** position loads carefully so they can not shift or tip over suddenly. **ALWAYS** keep loads low (not top heavy) so vehicle does not get top heavy when driven. **ALWAYS** place loads on rear deck (box) **AHEAD** of rear axle. If you place heavy loads behind the rear axle, the front wheel will begin to lift off the ground and vehicle may become unstable and steering control may be lost.
23. The addition of any accessory equipment and the carrying of any payload will make the vehicle slightly less stable when turning or driving on slopes. A cab may make it hard for a driver to judge how fast they are going. To prevent loss of control and possible upset, **ALWAYS** slow down before turning and then turn corners slowly.
24. **ALWAYS** keep your windows clean and unobstructed.
25. **ALWAYS** run vehicle where there is plenty of fresh air to prevent a buildup of carbon monoxide fumes. Carbon monoxide is colorless, odorless and deadly. **NEVER** run vehicle in an enclosed space where exhaust fumes will collect.
26. **ALWAYS** make sure the engine is stopped and cool before removing radiator pressure cap. To prevent scalding by hot coolant, **NEVER** remove the radiator cap while engine is still hot.

3 IDENTIFICATION

3.1 ————— VEHICLE IDENTIFICATION

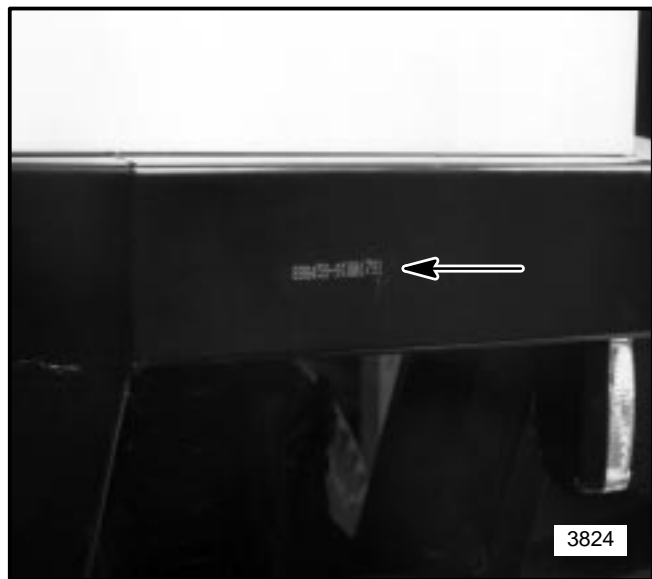
NOTE: The following identification numbers **MUST** appear on all correspondence concerning this vehicle.

The Vehicle Identification Number (VIN), model number, and serial number are all printed on the Nameplate/Identification decal attached to the upper left portion of the kick panel.



Nameplate/Identification Decal

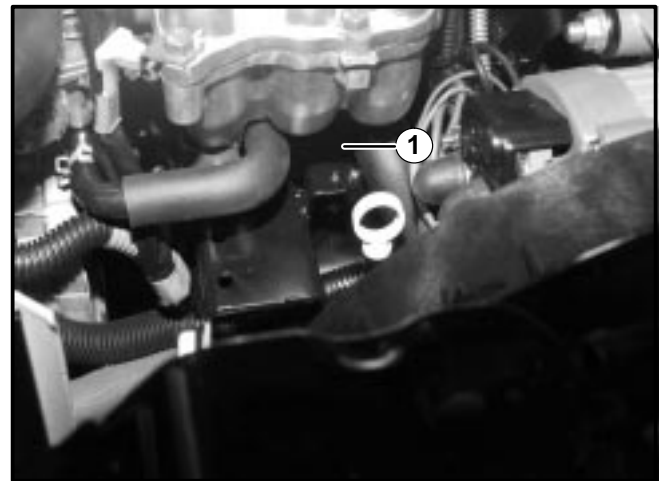
3.2 ————— SERIAL & MODEL NUMBER



Serial Number And Model Number

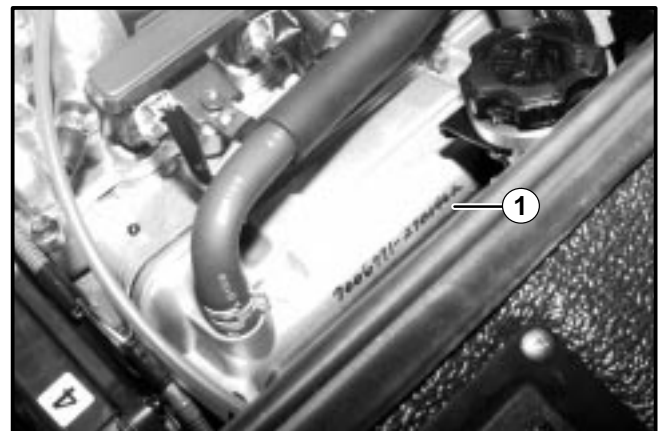
3.3 ————— ENGINE SERIAL NUMBER

The engine serial number is stamped into the right hand skirt of the cylinder block located directly below the air intake manifold.



1. Stamped Engine Serial Number

A hand lettered engine serial number has been placed on the left side of the engine below the oil fill.



1. Hand Lettered Engine Serial Number

4.1 ————— VEHICLE

All specifications subject to change without prior notification.

Your Haulster is powered by a 3-cylinder, gasoline powered, liquid cooled, four cycle engine, with a single overhead camshaft, 12 valve, electronic fuel injected (multi-port), electronic ignition. The block is cast iron and the cylinder head is aluminum.

Power is transmitted to the rear wheels by a electronically controlled three speed automatic transmission, driveshaft with two universal joints and a worm gear differential.

4.2 ————— DIMENSIONS

| | |
|---------------------------------------|-----------------------------|
| Rated Weight Capacity | 1000 lbs. (455 kg) |
| Overall Height (w/cab) | 70" (1.8 m) |
| Overall Length | 111" (2.8 m) |
| Overall Width | 48" (1.2 m) |
| Outside Clearance Circle | 17' (5.2 m) |
| Inside Clearance Circle | 36" (91 cm) |
| Weight (w/fuel and battery) | 1490 lbs. (676 kg) |
| Wheelbase | 78" (2.0 m) |
| Rear Wheel Tread | 42" (1.1 m) |
| Tires | 145R12 Radial, Load Range C |

4.3 ————— CAPACITIES

| | |
|---|-------------------|
| Fuel Tank | 7.5 gal. (28.5 L) |
| Transmission, automatic | 3.7 qt. (4.2 L) |
| Differential (8.2:1) | 12 oz. (0.4 L) |
| Differential (10.25:1) (Optional) | 12 oz. (0.4 L) |
| Cooling System | 3.3 qts. (3.1 L) |
| Crankcase (including filter): | 3.3 qts. (3.1 L) |

4.4 ————— BATTERY

| | |
|--|----------|
| Volts | 12 |
| BCI Group | Size 24 |
| Cold Cranking Amps Minimum | 420 |
| Reserve Capacity Minutes Minimum | 70 |
| Ground Terminal Polarity | NEGATIVE |

4.5 ————— FUEL

Unleaded Gasoline 87 Octane or higher

NOTE: We DO NOT recommend the use of ALCOHOL bearing fuels in any of our products. The use of these fuels may create a potential safety hazard.



WARNING

Gasoline containing ALCOHOL can cause deterioration of some non-metallic materials in the fuel system.

Gasoline containing ALCOHOL will attract and hold moisture inside fuel tanks. Moisture may cause corrosion of metallic parts within the fuel system.

All fuel hoses MUST be inspected frequently and replaced if excessive stiffness, deterioration or fuel leakage is found.

Fuel leakage from a fuel system can occur while the system is in use, in transit or in storage. Such leakage can contribute to an explosion or fire, causing serious bodily injury or death.

NOTE: The use of alcohol bearing fuels can cause engine malfunction, particularly "vapor lock" at temperatures above 50° F (10° C).

4.6 ————— BRAKE FLUID

Use Type DOT (3)



WARNING

CLEAN MASTER CYLINDER FILLER CAP BEFORE REMOVING. CONTAMINATES MAY CAUSE BRAKE FAILURE. USE ONLY D.O.T. 3 FLUID FROM A SEALED CONTAINER. 825622

4.7 ————— ENGINE OIL

Recommended Viscosity SAE 10W40
(for all temperature ranges)

Use only oils recommended for service class SF, SG or SH.

NOTE: Using oil other than the service classes listed, or oil change intervals longer than recommended can reduce engine life. Damage to engines due to improper maintenance or use of incorrect oil quality and/or viscosity is not covered by the engine manufacturers warranty.

4.8 ————— LUBRICATION

| | |
|--|------------------------|
| Automatic Transmission Fluid | Mercon/Dexron II |
| Differential Oil | SAE EP 80-90 Gear Lube |
| Pressure Gun Lubricant | Lithium Based |

4 SPECIFICATIONS

4.9 GEAR RATIOS

Automatic Transmission

| | |
|-------------------------|-------------------|
| 3 rd Gear | 1.008:1 |
| 2 nd Gear | 1.536:1 |
| 1 st Gear | 2.727:1 |
| Reverse Gear | 2.222:1 |
| Differential | worm gear 8.2:1 |
| Differential (optional) | worm gear 10.25:1 |

4.10 ENGINE

Suzuki 660 EFI Engine

| | |
|--|------------------------------------|
| Horsepower (SAE hp) at 5500 RPM | 46 |
| Max. Engine Speed, ECU limited | 7800 RPM |
| Ground Speed (8.2:1 differential) | 43 MPH (69 km/h) |
| Ground Speed (optional, 10.25:1 differential) | 31 MPH (50 km/h) |
| Stroke | 2.60" (66 mm) |
| Bore | 2.56" (65 mm) |
| Displacement | 40.1 cu in. (657 cm ³) |
| Compression Ratio | 10.5:1 |
| Cylinder Compression | 178 PSI (1,228 kPa) |

| | |
|---|-------------------------------|
| Engine Rotation (viewed from flywheel) | Counterclockwise |
| Valve Clearance (intake) | 0.0031" cold (0.08 mm) |
| (intake) | 0.0047" hot (0.12 mm) |
| (exhaust) | 0.0039" cold (0.10 mm) |
| (exhaust) | 0.0047" hot (0.12 mm) |
| Spark Plug Gap | 0.032–0.035 (0.8–0.9 mm) |
| Spark Plug Number | NGK DCPR7E |
| | OR Nippon Denso XU22ERR–U |
| Spark Plug Torque | 18.5–21.5 ft. lbs.(25–30 N·m) |
| Ignition Timing | 4–5° BTDC @ 950 RPM |
| Idle Speed | 950 ± 50 RPM |

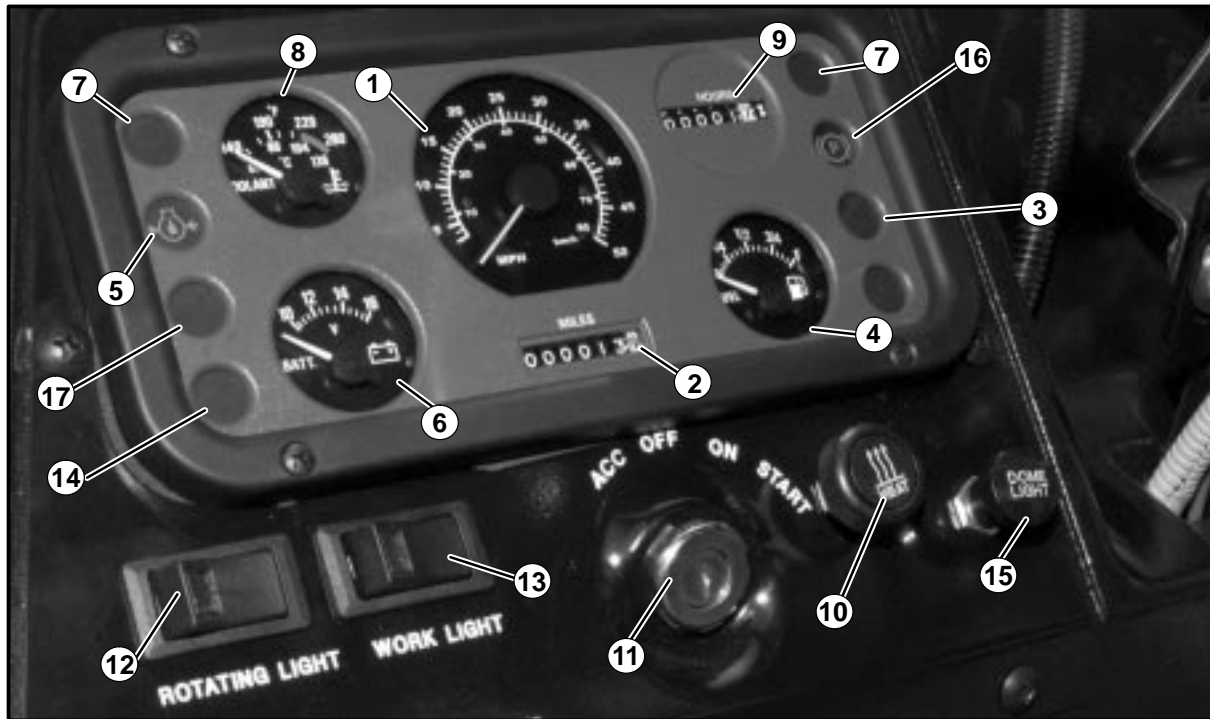


WARNING

To prevent premature engine failure and speed greater than design limits, NEVER alter the governor controls in any manner to increase engine speed beyond recommended maximum RPM.

NOTE: The speed limiter is preset to control ground speeds to design limits.

5.1 CONTROLS, GAUGES AND WARNING LIGHTS



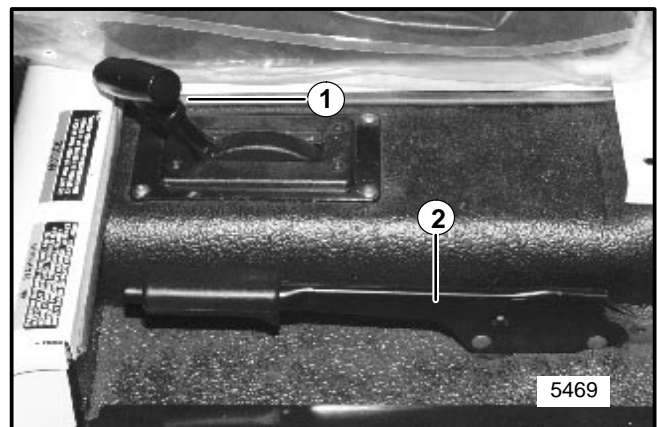
Dash Panel Identification
(Some models may not have all items shown)

- | | |
|--|--------------------------------------|
| 1. Speedometer | 10. Heater/Defroster Switch |
| 2. Odometer | 11. Ignition Switch (Four Position) |
| 3. High-Beam Indicator Light (blue) | 12. Rotating Light Switch (Optional) |
| 4. Fuel Gauge | 13. Work Light Switch (Optional) |
| 5. Oil Pressure Warning Light | 14. Check Engine Light |
| 6. Voltmeter | 15. Dome Light Switch Position |
| 7. Turn Signal And Flasher Indicator Light | 16. Parking Brake Light |
| 8. Water Temperature Gauge | 17. Not Applicable to this Vehicle |
| 9. Hour Meter | |

NOTE: On-road vehicles have no headlight switch. The headlights come on when the ignition switch is turned "ON" or when it is placed in the "ACC" position. The lights are off when the ignition switch is turned off.

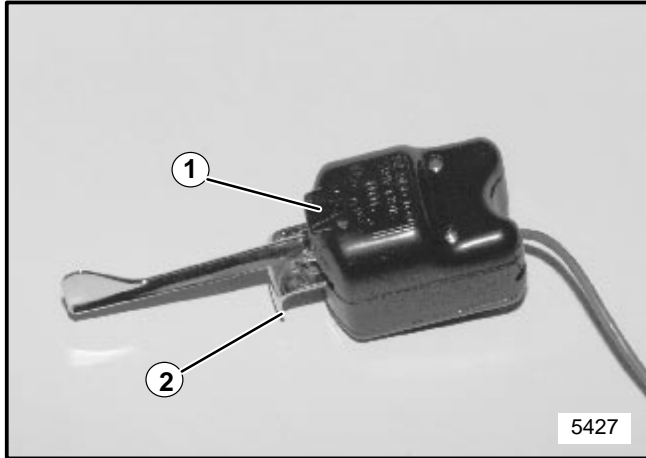


Foot Controls
1. Dimmer Switch
2. Brake Pedal
3. Foot Throttle Pedal



Hand Control Identification
1. Gear Selector
2. Parking Brake Lever

5 CONTROLS



Turn Signal Controls
1. Turn Signal Switch
2. Hazard Switch

5.2 IGNITION SWITCH



Four Position Ignition Switch

1. **ACCESSORY POSITION** – Allows use of various instruments and accessories.
2. **“OFF” POSITION** – Prevents function of all vehicle electrical power operated features except the flasher (hazard) lights, dome light, wiper and power point.

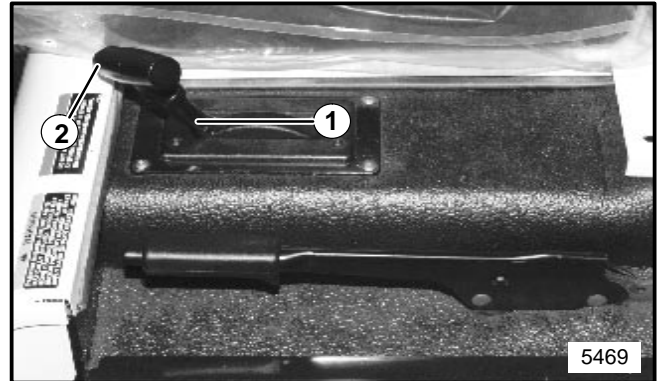
NOTE: Switch must be in “OFF” position for key to be removed.

3. **“ON” POSITION** – This position is for normal engine operation (headlights are on when ignition switch is in the “ON” position).
4. **“START” POSITION** – Hold key in start position to engage the engine starter. When the key is released, the switch will return to the “ON” position automatically.

NOTE: If the engine fails to start, or the engine stops running for any reason, the ignition switch must be turned to the “OFF” position before attempting to

restart engine. This feature prevents damage to the starter and flywheel teeth that may occur if the starter is engaged while the engine is running.

5.3 GEAR SELECTOR



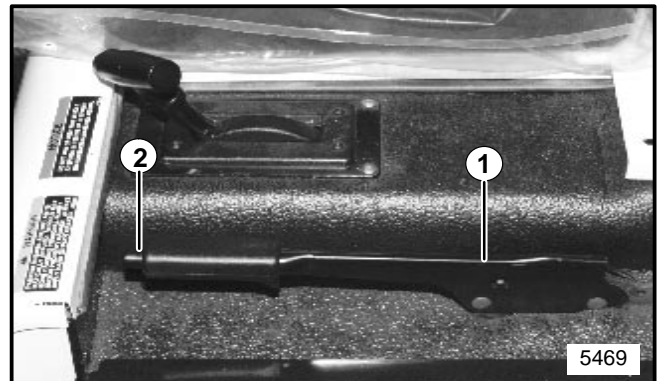
1. Gear Selector Lever
2. Selector Lever Button

Push in the Selector Lever Button when shifting in or out of each gear or when down shifting to SECOND or LOW.

NOTE: For more information on operating the automatic transmission, refer to DRIVING THE VEHICLE in the operation section.

5.4 PARKING BRAKE LEVER

Pull the parking brake lever up to set (engage) the parking brake. To release the parking brake, depress the button at the end of the lever and lower the lever slowly. When the parking brake is applied a RED light will show on the dash panel.



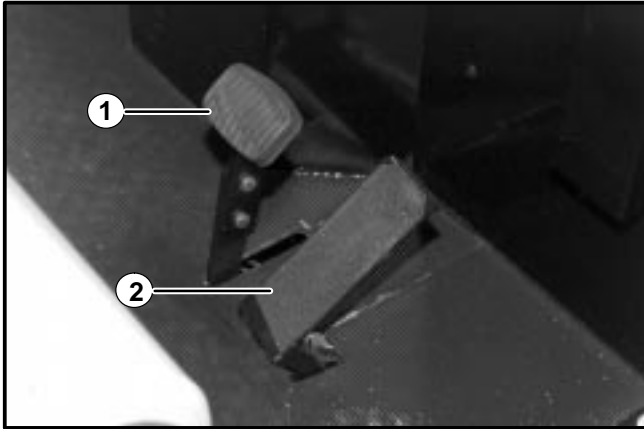
1. Parking Brake Lever
2. Release Button

5.5 FOOT THROTTLE PEDAL

Depress foot throttle pedal to open throttle. Release pedal to return throttle to idle position.

5.6 SERVICE BRAKE PEDAL

Depress the service brake pedal to slow the vehicle or bring it to a complete stop.



1. Service Brake Pedal
2. Foot Throttle Pedal

If the brakes DO NOT stop the vehicle properly, they **MUST** be adjusted or repaired before the vehicle is operated again.



WARNING

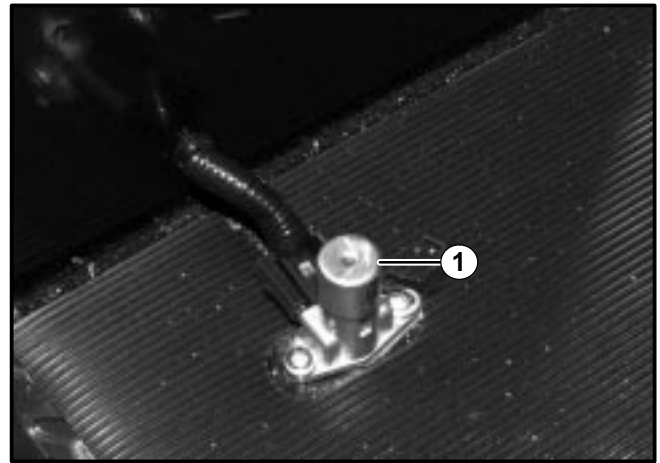
Improper maintenance of brake system may result in loss of vehicle control by the operator. Losing control of vehicle due to brake loss may cause vehicle damage and injury to the operator or bystanders.

5.7 CHECK ENGINE LIGHT

When this light comes on, the vehicle should immediately be serviced.

5.8 DIMMER SWITCH

Depress headlight dimmer switch once with foot for high beam. Depress again to return to low beam (headlights are always on when the ignition switch is in the "ON" or "ACC" position).



1. Dimmer Switch

5.9 HORN BUTTON

The horn button is located in the center of the steering wheel.

Depress the button to sound the vehicle horn. Horn will NOT sound when ignition switch is in the "OFF" position.

5.10 VOLTMETER

The voltmeter indicates the voltage level of the battery. Under normal operating conditions it will indicate 12 to 18 volts (meaning the battery is being properly charged). A reading below 12 volts indicates the battery is being drained, this may indicate a malfunction in the charging system which should be checked immediately.

5.11 FUEL GAUGE

The fuel gauge indicates the approximate amount of fuel remaining in the vehicle fuel tank.

5.12 SPEEDOMETER/ODOMETER

The speedometer indicates the vehicle speed in miles per hour and also in kilometers per hour. The odometer indicates the number of miles traveled by the vehicle.

5.13 HOUR METER

The Hour Meter records the number of hours the engine has operated. The Hour Meter runs when the ignition switch is in the "ON" position, even if the engine is not operating.

5.14 OIL WARNING LIGHT

When the RED oil warning light is illuminated, this indicates the engine oil pressure is too low for proper operation of the engine.

5 CONTROLS

NOTE: If the RED oil warning light remains illuminated after engine RPM is brought above idle speed, the engine **MUST NOT** be operated. Correct the low oil pressure situation **BEFORE** operating engine to prevent severe engine damage.

5.15—— WATER TEMPERATURE GAUGE AND ENGINE OVERHEAT WARNING BUZZER

The purpose of this system is to warn the operator that the engine operating temperature exceeds the normal operating range. Overheating causes a heat sensor to activate the overheat warning buzzer.

During operation (driving), if the water temperature gauge shows 230° F (110° C) or more, and/or the overheat warning buzzer sounds, follow this procedure:

5. STOP the vehicle on a level surface, place the vehicle transmission in “PARK” and apply the parking brake.
6. DO NOT STOP THE ENGINE. Slow the engine to a “fast idle”.
7. Remove any dirt, debris, etc. from the radiator intake screen located on the right side of the engine cover.
8. Raise vehicle seat (see warning below) and visually check to see if electric radiator cooling fan is operating.



WARNING

The vehicle seat is a machinery guard. To avoid injury, use extreme caution and **DO NOT** place hands or loose clothing near moving parts (belts, fan, etc.).

The cooling fan is thermostatically controlled and may start at any time. **DO NOT** attempt to service the fan without first disconnecting it.

NOTE: Failure to properly maintain the cooling system or ignoring the overheat warning buzzer **will cause permanent damage** to the vehicle.

The temperature indicator on the gauge should go down within approximately 30 seconds after the intake screen is cleared. If the temperature does not go down, STOP THE ENGINE and check the following areas:



CAUTION

ALWAYS stop engine before checking the following areas.

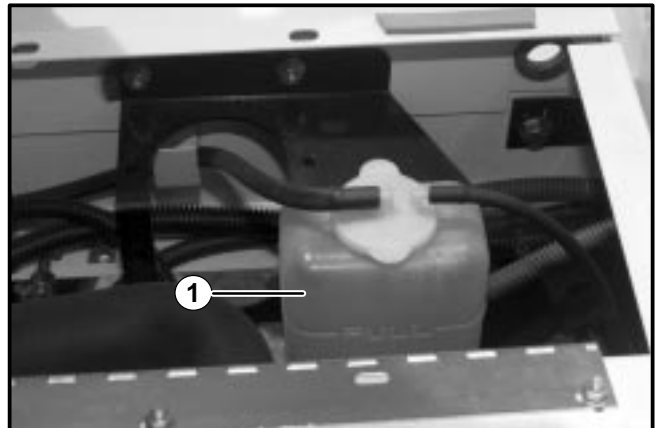
- A. Check the radiator fins and screen. If radiator fins or screen are dirty, they **MUST** be cleaned (refer to Engine Cooling Section).
- B. Check engine oil level.



WARNING

ALWAYS be sure the engine is stopped and “cool” before removing the radiator cap. To prevent scalding by hot coolant, **NEVER** remove cap while radiator is hot.

- C. Check coolant level in the reservoir and the radiator (refer to Engine Cooling section). The coolant reservoir is located under the right side cover panel directly behind the cab.



1. Coolant Reservoir

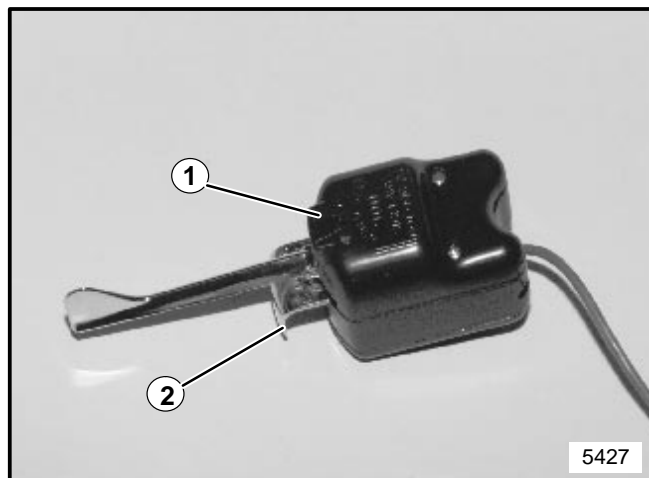
5.16—— ROTATING LIGHT (OPTIONAL)

The rotating light is operated by using the toggle switch located on the dash panel.

5.17—— TURN SIGNAL AND HAZARD SWITCH

The turn signal is a self-cancelling type switch. Push lever forward to signal a right turn or pull lever down back to signal a left turn. To operate the hazard switch, pull out on switch until it locks in the out position and activates the flashers. Push the turn signal lever forward or back to

release the hazard switch and cease operation of the hazard flashers.



1. Turn Signal
2. Hazard Switch

5.18 CAB AND DOOR SET

A full enclosure cab and metal door are standard equipment on the 898487 model.

5.19 SEAT BELT

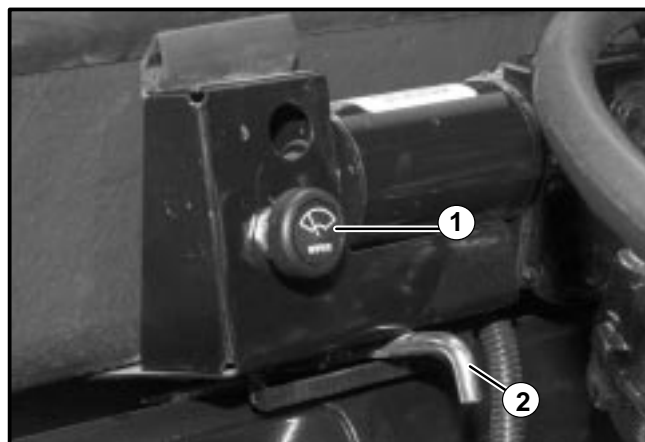
Your vehicle is equipped with a lap/shoulder type seat belt. If seat belt is removed for any reason, retain the mounting hardware. BE SURE the seat belt is reinstalled and secured exactly the way it was originally mounted. If a new seat belt is installed, use the new mounting hardware provided with the seat belt.

5.20 AIR VENTS

An air vent, located just ahead of the windshield, provides ventilation to the operator. The control lever for the vent is located below and to the left of the wiper motor.

5.21 WINDSHIELD WIPER SWITCH

To operate windshield wiper, turn the switch knob clockwise. The first detent is slow speed and the second detent is high speed.



1. Windshield Wiper Switch
2. Air Vent Lever

NOTE: To avoid windshield wiper damage:

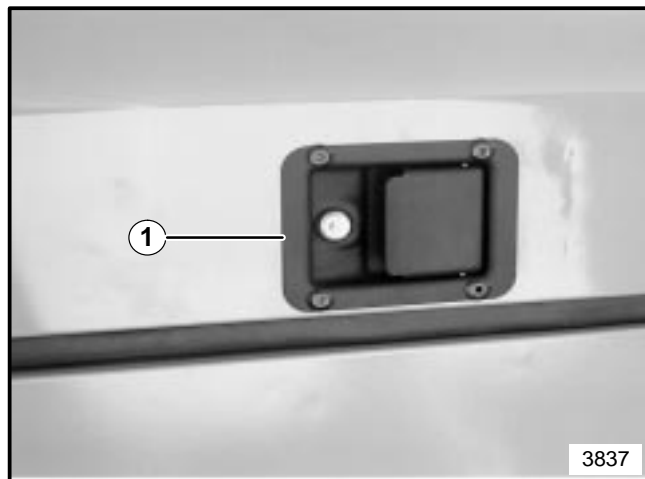
- Make sure the wiper blade is not obstructed (ice, etc.).
- Use care when lifting the wiper arm.
- DO NOT rotate the wiper arm manually.
- If the wiper blade is damaged or does not clean the windshield, replace blade as soon as possible to avoid damage to windshield glass.

5.22 HEATER-DEFROSTER

The control knob for the heater-defroster is on the dash panel. Rotate the knob to start the blower.

The switch has three positions. These positions are OFF, HIGH and LOW.

5.23 CARGO BOX LATCH



1. Paddle Handle

Open the cargo box by pulling the paddle handle to release the latch. Raise the box lid approximately 10" (254 mm) at which point the gas operated support rod will lift the lid to its maximum height.

6 OPERATION

6.1 VEHICLE OPERATION

A safety warning decal, located on the kick panel, contains information of the utmost importance. This decal and all others must remain on the vehicle.

6.2 PRE-STARTING CHECK

NOTE: BE SURE vehicle is on a level surface.

Before starting your engine for the first time, after a prolonged shutdown and each day before operating, check the following:

1. Check the engine oil level. The oil level should always be between the two marks (FULL and ADD) on the dipstick. Refer to SPECIFICATION section for oil type and capacity. DO NOT OVERFILL.



1. Engine Oil Dipstick

2. Check fuel level. Fill if necessary with fuel recommended for your engine in Specification section of this manual.



WARNING

Remove fuel cap slowly. Fuel may be under pressure and spray can cause serious injury.

Engine fuels are extremely flammable and highly explosive under certain conditions.

NEVER remove the fuel tank cap or attempt to refuel the unit while the engine is running.

NEVER refuel vehicle indoors.

NEVER smoke or allow others to smoke near vehicle when refueling.

ALWAYS clean up any spilled fuel immediately.

NEVER operate the unit without an approved cap on the fuel tank filler opening.

3. Check engine radiator screen for dirt accumulation.
4. Check coolant level in radiator and reservoir bottle (see Engine Cooling section). The coolant should be up to the filler port of the radiator, and between the FULL and Low lines in the reservoir bottle. Level should not be higher than the Full line.
5. Check the radiator and coolant hoses for leaks and/or faulty connections.

NOTE: Failure to heed overheat warning and maintain the cooling system properly will result in permanent damage to the vehicle.

6.3 STARTING THE ENGINE

NOTE: The operator **MUST** be seated properly in the vehicle seat when starting the engine.

1. Apply the parking brake.
2. Move the gear selector to PARK (engine will NOT start if transmission is in DRIVE, SECOND, LOW or REVERSE).
3. Turn ignition switch to operate engine starter motor.
4. Allow engine to idle and warm-up before driving the vehicle.

6.4 ENGINE BREAK-IN

NOTE: The service life of your engine is dependent upon how your engine is operated during the first 50 hours of operation.

ALWAYS:

1. Allow engine to idle and warm-up before driving the vehicle.
2. Avoid rapid acceleration and **NEVER** “race” the engine.
3. Avoid overloading your engine.
4. With engine warm, drain the crankcase and refill with recommended oil after the first 50 hours. Refer to the Engine Oil specifications section for the correct oil. Refer to the Maintenance Guide for service intervals.

6.5 DRIVING THE VEHICLE

After the engine has been started:

1. Depress the brake pedal and move the gear selector to either DRIVE or REVERSE (SECOND or LOW may be selected, but DRIVE is recommended for normal driving).
2. Release the parking brake, release the brake pedal and depress the accelerator pedal to achieve the desired speed.



CAUTION

Vehicle engine speed should **NEVER** be faster than idle speed when shifting from PARK or NEUTRAL into REVERSE, DRIVE, SECOND or LOW, sudden vehicle movement may occur.

NOTE: Accelerating the engine speed with the transmission in gear (REVERSE, DRIVE, SECOND or LOW) while holding the vehicle with the service brake or parking brake, **may cause transmission damage.**

This vehicle is equipped with a speed limiter that slows the engine when exceeding top speed (approx. 43 MPH [69 km]). When this happens, let up on the gas pedal and let the vehicle slow. Then re-apply the gas pedal to resume speed.

NOTICE

THIS VEHICLE HAS A SPEED LIMITER THAT SLOWS THE ENGINE WHEN EXCEEDING TOP SPEED.
WHEN THIS HAPPENS, LET UP ON THE GAS PEDAL AND LET THE VEHICLE SLOW.
REAPPLY THE GAS PEDAL TO RESUME SPEED.

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MAKE SURE the vehicle is at a complete stop before moving the selector lever to PARK or when

shifting from DRIVE to REVERSE, or from REVERSE to DRIVE, if vehicle is not completely stopped, **transmission damage may occur.**

When driving forward down a steep incline or long grade, the transmission may be shifted to a lower gear (SECOND or LOW) to help slow the vehicle. Excessive or prolonged use of brakes can cause loss of braking efficiency or loss of braking function due to overheating and can cause premature brake wear.

6.6 STOPPING, PARKING (LEAVING) THE VEHICLE

Before you leave the operator's seat, do the following things in the order shown:

3. Bring the vehicle to a COMPLETE STOP and hold in position with the service brake while moving the gear selector to PARK.
4. Turn the ignition switch to “OFF”, and remove the key to prevent unauthorized use of the vehicle.



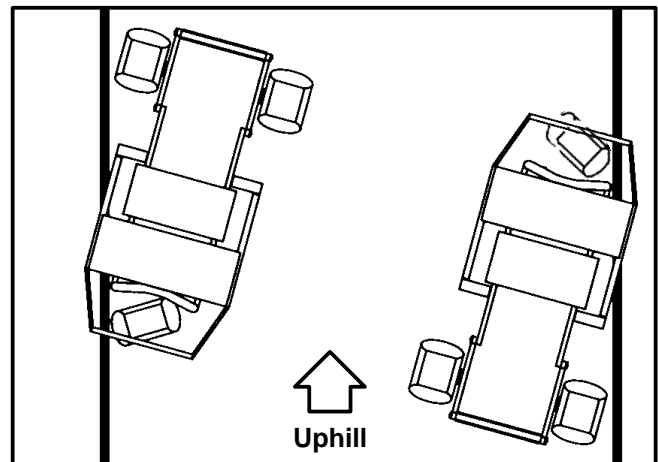
WARNING

PARKING BRAKES ARE NOT AUTOMATICALLY APPLIED. VEHICLE MAY MOVE CAUSING PERSONAL INJURY AND/OR PROPERTY DAMAGE. ALWAYS APPLY HAND OR FOOT BRAKES.

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5. Set the parking brake. The parking brake is NOT automatically applied.

When parking the vehicle on an incline, the front wheel should be “curbed” whenever possible.



Vehicle Parked With Front Wheel Curbed

6 OPERATION


6.7 TRANSPORTING THE VEHICLE

When transporting the vehicle or when it is disabled, the **BEST** method of moving the vehicle is on a trailer. If that is not possible, the driveshaft **MUST** be removed before towing the vehicle. Tow at a maximum speed of 10 m.p.h. (8 km/h). Tow line attaching locations are shown on the Lubrication Chart.

NOTICE

DO NOT TOW OR PUSH THIS VEHICLE AT SPEEDS IN EXCESS OF 10 MPH OR TRANSMISSION DAMAGE WILL OCCUR. 840394

If in an EMERGENCY the vehicle must be towed and the drive shaft cannot be removed, attach a tow line to the front vertical frame member **ONLY**. Make sure the transmission is in NEUTRAL and tow at a maximum speed of 10 m.p.h. (16 km/h).

CAUTION

Towing at excessive speeds could cause one or both vehicles to lose steering control.

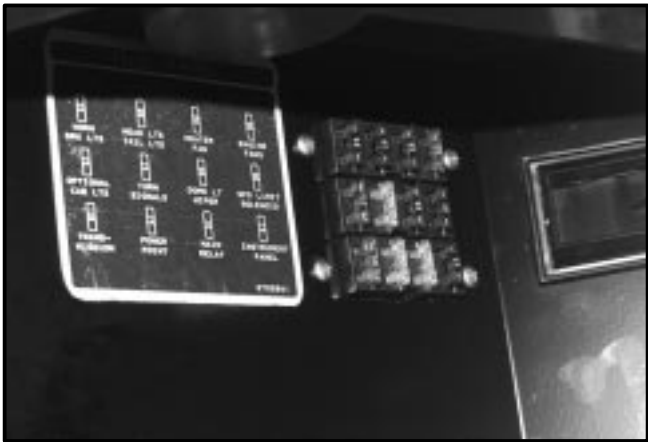
ALWAYS empty any load from the vehicle to be towed.ALWAYS start and stop slowly.

ALWAYS turn slowly and carefully.

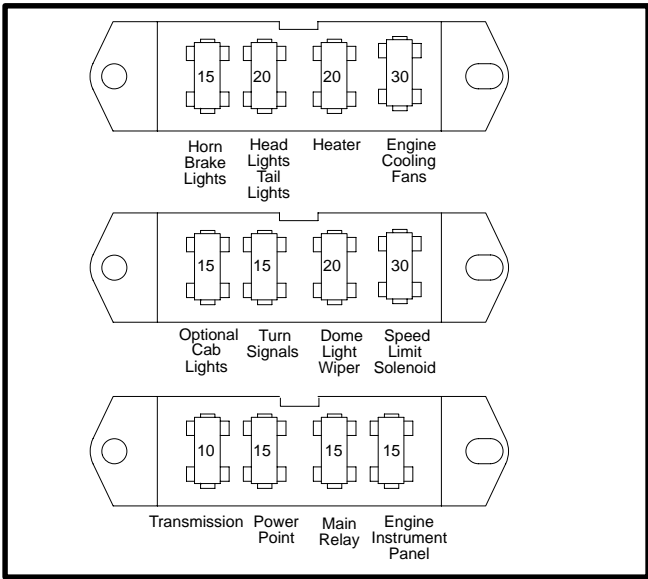
NOTE: Failure to follow towing procedure recommendations may result in severe damage to critical vehicle parts.

6.8 FUSES

Twelve fuses are located on the kick panel just below the instrument panel. They protect the lighting circuits and accessory circuits such as windshield wiper motor and heater/defroster blower. Remove fuses by pulling straight out.



Fuse Box Panels



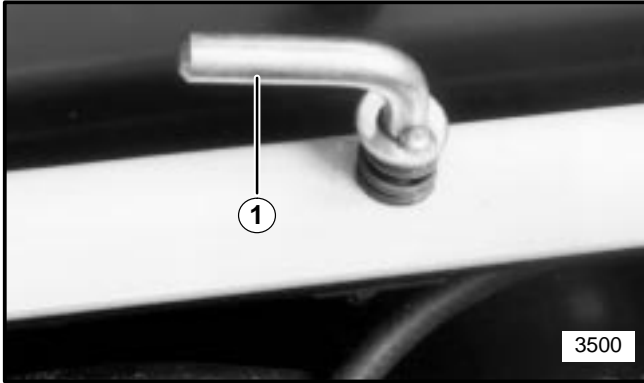
Fuse Box Panel

6.9 ENGINE ACCESS

WARNING

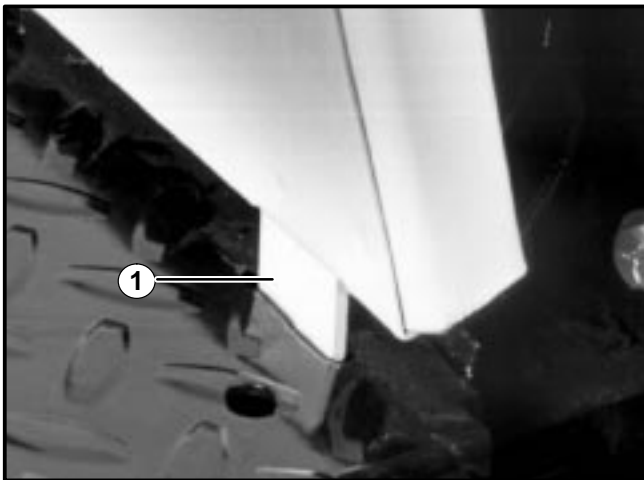
NEVER remove or install the engine cover while the engine is running. The engine cover is a machinery guard and its removal exposes you to moving parts. Keep hands, hair and loose clothing away from flywheel, radiator cooling fan, alternator fan, belts, pulleys, air intake, etc.

The seat cushion may be raised by pivoting forward to provide engine access for minor service work. For major repair or air cleaner servicing, the engine cover assembly may be removed. To remove engine cover, loosen the engine cover latch, pivot the engine cover forward and lift upward.



1. Engine Cover Latch

When replacing the cover, make sure the retaining tabs, located at the front corners of the engine cover are inserted into the slots in the floorboard.



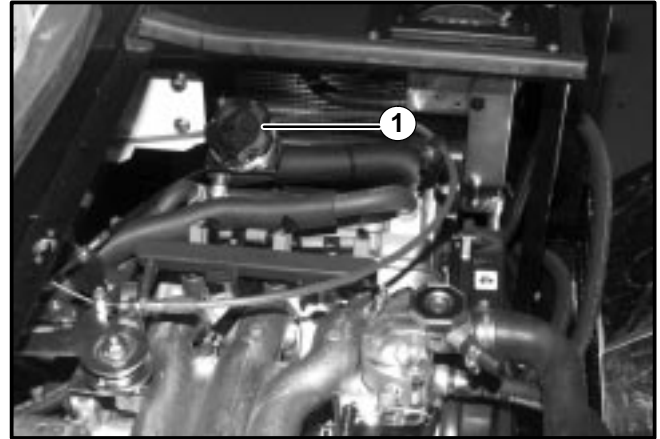
1. Engine Cover Retaining Tab

Resecure the engine cover latch.

Failure to follow instructions will allow the seat and engine cover assembly to move out of proper position.

6.10 ENGINE OIL LEVEL

NOTE: When checking engine oil level, BE SURE vehicle is resting on a level surface. A correct reading can not be made if the vehicle is not on a level surface.



1. Engine Oil Fill

The engine oil level should be between the two marks (FULL and ADD) marks on the dipstick. Either too much OR too little oil can cause the engine to overheat. Engine overheating can cause severe engine damage.

6.11 BATTERY



CAUTION

UNTRAINED or UNAUTHORIZED persons should **NEVER** attempt to service or recharge the battery in this vehicle.

Battery electrolyte is an acidic solution and should be handled with care. If electrolyte is spilled or splashed on any part of the body, immediately flush the exposed area with liberal amounts of water and obtain immediate medical aid.

ALWAYS wear adequate eye protection when working on or around a vehicle battery.

The battery is located in the side opening box located at the rear of the vehicle.

The battery in this vehicle is a "low maintenance". Add distilled water whenever required.

NOTE: Keep the top of battery clean and free of corrosion by washing with a solution of baking soda and water or ammonia and water. Rinse with clean water. Terminals with heavy corrosion should be

6 OPERATION

removed and cleaned with solution. Replace terminal and resecure.

To contact your nearest Trojan battery dealer for warranty or other information, call Trojan battery at 1-800-423-6569 and ask for customer service.

6.12— JUMP STARTING WITH BOOSTER BATTERY



WARNING

DO NOT allow open flames or sparks near a battery when connecting for jump starting or while recharging the battery with a charger.

Hydrogen gas is produced during the charging process and can be very explosive. Provide adequate ventilation to prevent possible explosion.

Both booster battery and discharged battery should be treated carefully when using jumper cables.

Follow **exactly** the procedure outlined, being careful not to cause sparks.

1. Apply parking brake, put transmission in PARK and turn off all electrical loads.
2. Attach one end of one jumper cable to the positive terminal of the booster battery and the other end to the positive terminal of the discharged battery. **DO NOT permit vehicles to touch each other at any time.**
3. Attach one end of remaining cable to the negative terminal of the booster battery and the other end to a good ground on the vehicle or engine, away from the discharged battery. **DO NOT lean over the battery when making this connection.**
4. Reverse this sequence **exactly** when removing the jumper cables.

NOTE: This is a negative ground wiring system, reversing battery connection **WILL** damage the alternator rectifier.

Booster batteries used for starting **MUST** be connected with correct polarity.

Vehicle battery cables should be disconnected before using a "Fast Charger".

NOTICE

1. THIS IS A NEGATIVE GROUND SYSTEM. REVERSING BATTERY CONNECTION WILL DAMAGE ALTERNATOR RECTIFIER.
2. BOOSTER BATTERIES USED FOR STARTING MUST BE CONNECTED WITH PROPER POLARITY.
3. BATTERY CABLES SHOULD BE DISCONNECTED BEFORE USING A "FAST CHARGER".

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6.13— ENGINE COOLING SYSTEM



WARNING

The cooling fan is thermostatically controlled and may start at any time. **DO NOT** attempt to service the fan without first disconnecting it.



WARNING

KEEP HANDS CLEAR, ELECTRIC FAN MAY ENGAGE WITHOUT WARNING, EVEN WITH IGNITION OFF!

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NEVER attempt to clean or service the cooling system with the engine running.

ALWAYS allow the engine to "cool" before servicing the cooling system.

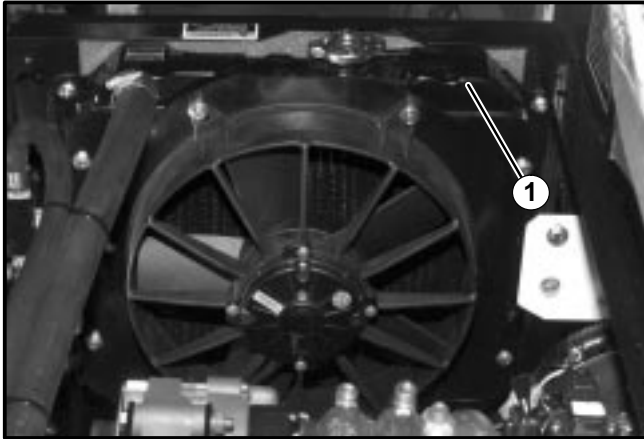
The vehicle is equipped with a cooling radiator and electric fan located below the right side (from operators position) of the engine cover. To provide proper engine cooling:

- DO NOT** obstruct or cover the air intake screen in front of the radiator.
- ALWAYS** keep the screen, radiator and oil cooler fins clean.

Check coolant level in radiator and reservoir bottle. The coolant should be up to the filler port of the radiator, and between the FULL and LOW lines in the reservoir bottle. Level should not be higher than the FULL line.

NOTE: Clean the radiator and oil cooler fins with compressed air. If water is used to clean the radiator or oil cooler, use compressed air to blow ALL the water from the radiator or oil cooler fins. Water left between the fins will collect dirt and clog the radiator or oil cooler.

Keep the proper amount of coolant in the cooling system.



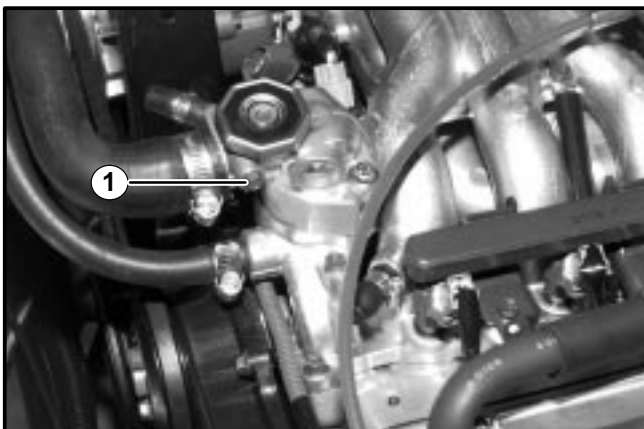
1. Radiator

NOTE: If the coolant level is low, check for leaks and repair as necessary. If additional coolant is required, a 50/50 mixture of a good grade of ethylene glycol antifreeze and clean water is recommended. This will provide protection to -34°F (-37°C).

It is extremely important that the antifreeze and water be mixed in a separate container before adding to radiator. **NEVER** add straight antifreeze to the radiator. The mixture must **NEVER** be more than 50% antifreeze.

6.14— FILLING THE COOLING SYSTEM

1. Fill radiator to the base of the filler neck and the overflow tank to the "FULL" mark with a 50/50 water and antifreeze mixture. Reinstall reservoir tank cap.
2. Loosen the air bleeding bolt (shown below) until coolant comes out through the air bleeding hole of bolt. resecure the bleeding bolt.



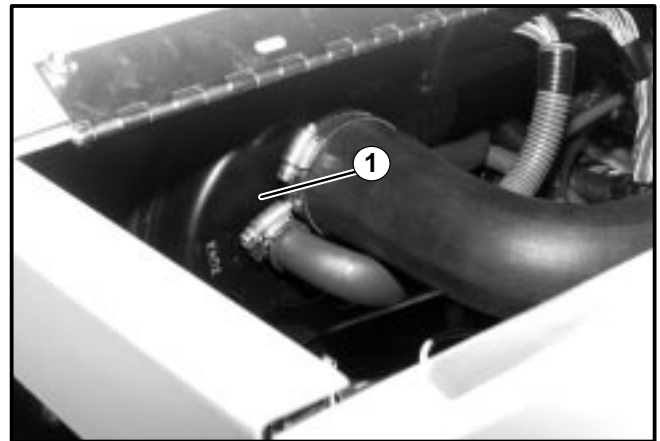
1. Air Bleeding Bolt

3. Run engine with radiator cap removed, until upper radiator hose is warm (thermostat has opened).

4. With engine idling, add coolant mixture to radiator until level reaches the bottom of the filler neck. Install radiator cap. Reconnect radiator cooling fan.
5. Refill overflow bottle to "HOT" level with 50/50 mixture of water and anti-freeze.

6.15— AIR CLEANER

This is a large capacity dry type air cleaner with a replaceable paper element. The air cleaner assembly is located under the right side cover panel directly behind the cab.



1. Air Cleaner Assembly

6.16— SERVICING AIR CLEANER ELEMENT

NOTE: DO NOT use damaged air cleaner assembly.

DO NOT use bent or damaged air cleaner element.

We recommend the air cleaner element be replaced before engine performance is affected. This may occur at 250 hours of service in very dirty operating conditions or at 500 hours in normal operating conditions.

We DO NOT recommend cleaning the air cleaner element because of the possibility of damaging the element.

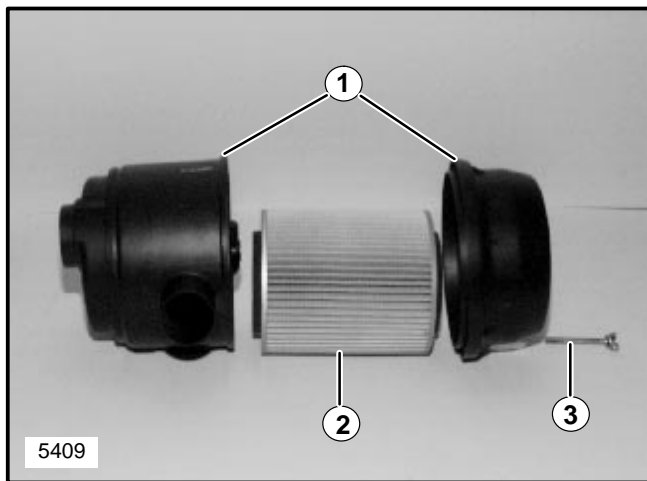
6.17— CHECKING AIR CLEANER ELEMENT

Check the element for damage, pin holes, etc. by placing a light source such as a flashlight inside the element.

6 OPERATION

6.18—— INSTALLING AIR CLEANER ELEMENT

1. Loosen wing nut screw securing air cleaner halves and remove element.
2. Clean dust from inside of housing with damp cloth, making sure dust DOES NOT enter the air intake.
3. Check all gaskets to be sure they are NOT damaged.
4. Insert element in housing.
5. Apply a light grease film to the wing nut screw.
6. resecure the housing halves with the wing nut screw.

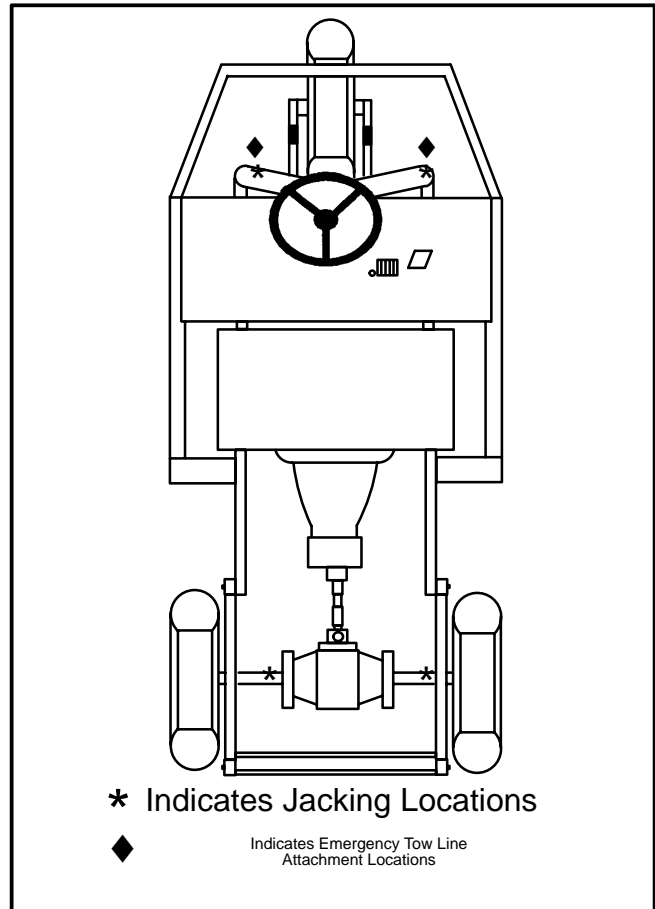


1. Air Cleaner Halves
2. Air Cleaner Element
3. Wing Nut Screw

6.19—— JACKS, JACKING LOCATIONS AND USING A HOIST

A scissors or hydraulic type jack with a 1 1/2 ton (minimum) capacity that can be lowered to 3 3/8" (86 mm) is required to jack up the vehicle.

The jacking locations are shown below. Raise the vehicle ONLY enough to place jackstands under vehicle when performing required maintenance.



Jacking Locations and Emergency Towing Locations

NOTE: To prevent damage to the vehicle or attached accessory, NEVER use a hoist to raise one corner of the vehicle.

ALWAYS raise BOTH front or rear corners equally. For emergency towing attach tow lines to the vehicle shown in the illustration above.

6.20—— CHANGING THE REAR WHEEL

1. Raise rear of vehicle with a hydraulic jack and place on jackstands.
2. Remove and retain the wheel retaining nuts and remove wheel from the hub.
3. Reinstall the wheel with the valve stem on the outside of the wheel.
4. Torque the wheel retaining nuts to 70 to 100 ft. lbs. (95 to 140 N·m).

6.21—— CHANGING THE FRONT WHEEL

IMPORTANT!

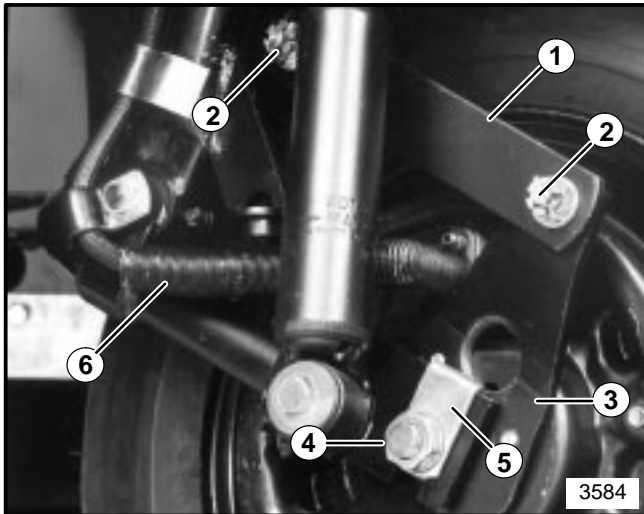
BE SURE TO READ THIS ENTIRE SECTION BEFORE ATTEMPTING FRONT TIRE REMOVAL.

To remove the front wheel and hub:

1. Remove the cotter pins, washers and castle nuts attaching the brake anchor link to the front fork and brake arm.

NOTE: DO NOT disconnect the front brake hose.

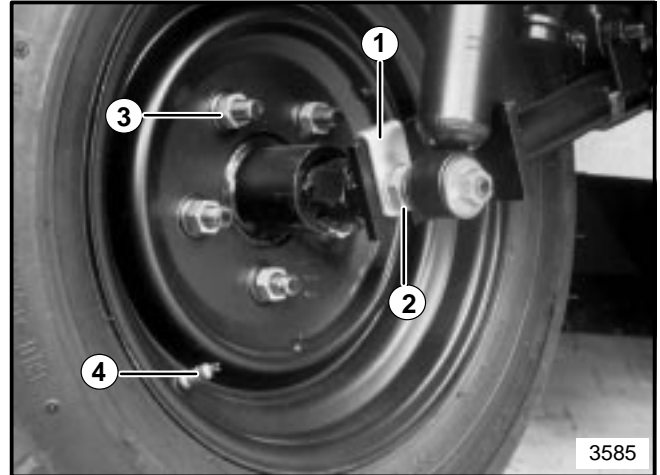
2. Pull the link straight off the mounting studs. Retain the bushings located in the holes at each end of the brake anchor link.



Front Fork (Right Side)

1. Brake Anchor Link
2. Cotter Pin, Washer And Castle Nut
3. Brake Arm
4. Axle Nut
5. Axle Lock
6. Brake Hose And Protector

3. Disconnect the bottom of the LEFT shock absorber. Retain and note the position of the attaching hardware.
4. Loosen the axle nuts on both sides of the axle until the axles locks (both sides) will clear the fork arms and lower the entire axle, brake and wheel assembly from the fork.



Front Fork (Left Side)

1. Axle Lock
2. Axle Nut
3. Wheel Retaining Nut
4. Valve Stem

5. Support the brake assembly so that the brake hose and protector will not be damaged.
6. Remove the wheel retaining nuts and remove the wheel from the hub.

To reinstall the front wheel and hub:

1. Reassemble the wheel to the hub (be sure valve stem is on side opposite the brake). Torque the wheel retaining nuts to 70 to 100 ft. lbs. (95 to 140 N·m).
2. Reinstall the hub assembly into the fork with the two (2) large washers at either end of the axle inside the fork arms, and the axle locks hooked over the top of the fork arms. Torque the axle nuts to 70 to 100 ft. lbs. (95 to 140 N·m).
3. Reconnect the left shock absorber.
4. Reinstall the brake anchor link using **NEW** cotter pins to secure the castle nuts. Make sure the bushings are in place in both ends of the brake anchor link.



CAUTION

The brake link bushings **MUST** be in place in brake anchor link and the link reinstalled to prevent the brake stator and drum from turning when the brakes are applied. Turning could result in brake hose damage and sudden brake failure.

ALWAYS use **NEW** cotter pins when reinstalling brake anchor link castle nuts to make sure they are secure.

6 OPERATION

6.22 TIRE PRESSURE

Your vehicle is equipped with 145 R 12 radial tires (load range C) mounted on 4.80 x 12 rims. Always keep tires inflated according to the following specifications.

| Cold Inflation Pressure | |
|-------------------------|------------------|
| Front | 32 PSI (220 kPa) |
| Rear | 32 PSI (220 kPa) |

NOTE: NEVER exceed the maximum pressure indicated on the tire.


Improper inflation will considerably shorten the life of your tires. Fill tires with care. Use a pressure gauge before connecting an air hose to a partly inflated tire. Due to the low air volume needed, over-inflation may be reached in a matter of two or three seconds.


**TORQUE SPECIFICATIONS
HEX HEAD CAP SCREWS**

The torque values shown should be used as a general guideline when specific torque values are not given.

U.S. Standard Hardware

| Grade | Shank Size (Diameter in inches, fine or coarse thread) | | | | | | | | | | | | | | |
|---|--|-----|------|-----|------|-----|------|-----|-----|-----|------|-------|--|--|--|
| | | 1/4 | 5/16 | 3/8 | 7/16 | 1/2 | 9/16 | 5/8 | 3/4 | 7/8 | 1 | 1 1/8 | | | |
| SAE grade 5 * | ft.-lbs. | 9 | 18 | 31 | 50 | 75 | 110 | 150 | 250 | 378 | 583 | 782 | | | |
| | N·m | 12 | 24 | 42 | 68 | 102 | 150 | 203 | 339 | 513 | 790 | 1060 | | | |
| SAE grade 8 ** | ft.-lbs. | 13 | 28 | 46 | 75 | 115 | 165 | 225 | 370 | 591 | 893 | 1410 | | | |
| | N·m | 18 | 38 | 62 | 108 | 156 | 224 | 305 | 502 | 801 | 1211 | 1912 | | | |
| Flangelock Screw w/ Flangelock Nut | ft.-lbs. | | 24 | 40 | | | | | | | | | | | |
| | N·m | | 33 | 54 | | | | | | | | | | | |


* Grade 5 marking –  Minimum commercial quality (Lower quality not recommended).


** Grade 8 marking – 

Metric Standard Hardware

| Grade | Shank Size (Diameter in millimeters, fine or coarse thread) | | | | | | | | | | | | | | |
|-------------------|---|-----|-----|-----|-----|------|------|------|------|-----|-----|-----|-----|-----|------|
| | | M4 | M5 | M6 | M7 | M8 | M10 | M12 | M14 | M16 | M18 | M20 | M22 | M24 | M27 |
| Grade 8.8* | ft.-lbs. | 1.5 | 3 | 5.2 | 8.2 | 13.5 | 24 | 43.5 | 70.5 | 108 | 142 | 195 | 276 | 353 | 530 |
| | N·m | 2 | 4 | 7 | 11 | 18 | 32 | 58 | 94 | 144 | 190 | 260 | 368 | 470 | 707 |
| Grade 10.9** | ft.-lbs. | 2.2 | 4.5 | 7.5 | 12 | 18.8 | 35.2 | 62.2 | 100 | 147 | 202 | 275 | 390 | 498 | 747 |
| | N·m | 3 | 6 | 10 | 16 | 25 | 47 | 83 | 133 | 196 | 269 | 366 | 520 | 664 | 996 |
| Grade 12.9 *** | ft.-lbs. | 2.7 | 5.2 | 8.2 | 15 | 21.8 | 43.5 | 75 | 119 | 176 | 242 | 330 | 471 | 596 | 904 |
| | N·m | 3.6 | 7 | 11 | 20 | 29 | 58 | 100 | 159 | 235 | 323 | 440 | 628 | 794 | 1205 |

* Grade 8.8 marking – 

** Grade 10.9 marking – 

*** Grade 12.9 marking – 

TEXTRON TURF CARE AND SPECIALTY PRODUCTS WARRANTY

Textron Turf Care And Specialty Products warrants for one (1) year each new unit or serialized accessories except for the Envirojet high pressure injection system components which are warranted for one (1) year or 200 hours whichever occurs first, according to the following terms:

This warranty extends to the original retail purchaser only and commences on the date of original retail purchase. Accordingly this warranty is not transferable to any subsequent purchasers.

Any part of the unit or serialized accessory manufactured by Textron Turf Care And Specialty Products and found in the reasonable judgement of Textron Turf Care And Specialty Products to be defective in material or workmanship **will be repaired or replaced by** an authorized dealer without charge for parts and labor.

The unit or serialized accessory including any defective part must be returned to an authorized dealer within the warranty period. The expense of returning the unit or serialized accessory to an authorized dealer for warranty service and the expense of returning it back to the owner after repair or replacement will be paid for by the owner. Textron Turf Care And Specialty Products responsibility in respect to claims is limited to making the required repairs or replacements, and no claim of breach of warranty shall be cause for cancellation or rescission of the contract of sale of any unit or serialized accessory.

Proof of purchase will be required by the authorized dealer to substantiate any warranty claim. All warranty work must be performed by an authorized dealer.

Textron Turf Care And Specialty Products makes no warranty with respect to engines, tires, batteries, regulators, starter-generators, electric motors, or other parts not of their manufacture as such parts are usually warranted separately by their respective manufacturers.

This warranty does not include service items subject to normal wear, such as filters, spark plugs, ignition points, brake and clutch linings, belts, light bulbs, fuses, bearings, electrical contacts, etc.

This warranty does not cover any unit or serialized accessory that has been subject to misuse, neglect, negligence, or accident, or that has been operated or maintained in any way contrary to the operating or maintenance instructions as specified in the Operator's Manual. The warranty does not apply to any unit or serialized accessory that has been altered or modified so as to adversely affect the units operation, performance or durability or that has been altered or modified so as to change its intended use. In addition, the warranty does not extend to repairs made necessary by normal wear, or by the use of parts or accessories which in the reasonable judgement of Textron Turf Care And Specialty Products are either incompatible with the unit or adversely affect its operation, performance or durability.

Textron Turf Care And Specialty Products reserves the right to change or improve the design of any unit or serialized accessory without assuming any obligation to modify any unit previously manufactured.

ALL OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING **MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE** OR OTHERWISE ARE EXPRESSLY EXCLUDED. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE HEREOF. ANY ACTION FOR BREACH OF WARRANTY MUST BE COMMENCED NO LATER THAN ONE YEAR FROM THE DATE OF DELIVERY.

TEXTRON TURF CARE AND SPECIALTY PRODUCTS OBLIGATION UNDER THIS WARRANTY IS STRICTLY AND EXCLUSIVELY **LIMITED TO THE REPAIR OR REPLACEMENT** OF DEFECTIVE PARTS, AND TEXTRON TURF CARE AND SPECIALTY PRODUCTS OBLIGATION DOES NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME FOR THEM ANY OTHER OBLIGATION.

TEXTRON TURF CARE AND SPECIALTY PRODUCTS ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES INCLUDING, BUT NOT LIMITED TO, EXPENSE FOR GASOLINE, EXPENSE OF RETURNING THE UNIT TO AN AUTHORIZED DEALER AND EXPENSE OF RETURNING IT BACK TO THE OWNER. MECHANIC'S TRAVEL TIME, TELEPHONE OR TELEGRAM CHARGES, TRAILERING OR TOWING CHARGES, RENTAL OF A LIKE UNIT DURING THE TIME WARRANTY SERVICE IS BEING PERFORMED, TRAVEL, LODGING, LOSS OR DAMAGE TO PERSONAL PROPERTY, LOSS OF REVENUE, LOSS OF USE OF UNIT, LOSS OF TIME OR INCONVENIENCE.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Textron Turf Care and Specialty Products
P.O. Box 82409
Lincoln, Nebraska 68501-9971

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WARRANTY SERVICE

To make a claim under warranty, contact an authorized dealer immediately upon realizing a problem exists. We recommend having the warranty work performed by the dealer who originally sold you the unit; however, warranty work can be sought from any authorized dealer. Remember, your unit must be delivered to an authorized dealer within the warranty period, and all warranty work must be performed only by an authorized dealer. Proof of purchase will be required by the dealer to substantiate any warranty claim.

EXAMPLES OF ITEMS NOT COVERED UNDER WARRANTY

Provisions of the warranty will not apply to:

Normal service requirements arising during the warranty period, such as carburetor or ignition adjustment and cleaning or wear of a drive belt, brake, clutch linings or starter brushes.

Normal service work over and above the repair and replacement of defective parts.

Unit subject to misuse, neglect, negligence, or accident.

Units that have been altered or modified so as to adversely affect their operation, performance or durability or to change their intended use.

Repairs made necessary by the use of parts or accessories which are either incompatible with the unit or adversely affects the operation, performance or durability.

Units not operated or maintained in accordance with the instructions in the Operator's Manual.

Normal cleaning, adjusting or replacing of such items as filter, spark plugs, ignition points, light bulbs, fuses or starter drive.

Periodic checking or adding of lubricant to the unit or service check-up, tune-up or diagnosis.

Expense of delivering the unit to the dealer and expense of returning the unit back to the owner, mechanic's travel time, trailering or towing charges, or rental of a like unit during the time warranty repairs are being performed.

Engines, tires, batteries, regulators, starter-generators and electric motors manufactured by other than Textron Turf Care And Specialty Products are not covered under this warranty as such parts are usually warranted by their respective manufacturers.

This warranty applies only to the original retail purchaser. Second-owner or subsequently owned units are not covered under warranty.

OWNER'S OBLIGATION AND RESPONSIBILITY

Normal maintenance service and replacement of service items are the responsibility of the owner and as such are not considered defects in material or workmanship within the terms of the warranty. Individual operating habits and usage contribute to the need for maintenance service.

See your dealer for proper maintenance and care of your unit. Proper maintenance and care will assist in keeping your overall operating cost at a minimum.

To validate a warranty claim, it is the owner's responsibility to maintain all components in proper adjustment and service the unit as specified in the Operator's Manual. It is the owner's responsibility to provide proper lubrication for all components and to provide correct recommended fuel for the unit. It is the owner's responsibility to maintain the battery liquid level and charge as specified, as well as maintaining the correct pressure in the tires of this unit.

CALIFORNIA EMISSION CONTROL WARRANTY STATEMENT YOUR WARRANTY RIGHTS AND OBLIGATIONS

The California Air Resources Board and Cushman Inc. are pleased to explain the emission control system warranty on your 2000 and subsequent model-year motorcycle. In California, new motor vehicles must be designed, built and equipped to meet the State's stringent anti-smog standards. Cushman must warrant the emission control system on your motorcycle for the periods of time listed below provided there has been no abuse, neglect or improper maintenance of your motorcycle.

Your emission control system may include parts such as the carburetor or fuel-injection system, the ignition system, catalytic converter, and engine computer. Also included may be hoses, belts, connectors and other emission-related assemblies.

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

MANUFACTURER'S WARRANTY COVERAGE: For five years or for a distance of 30,000 kilometers (18,641 miles), if an emission-related part on your motorcycle is defective, the part will be repaired or replaced by Cushman. This is your emission control system **DEFECTS WARRANTY**.

OWNER'S WARRANTY RESPONSIBILITIES: As the motorcycle owner, you are responsible for the performance of the required maintenance listed in your owner's manual. Cushman recommends that you retain all receipts covering maintenance on your motorcycle, but Cushman cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

You are responsible for presenting your motorcycle to a Cushman dealer as soon as a problem exists. The warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

As the motorcycle owner, you should also be aware that Cushman may deny your warranty coverage if your motorcycle or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

If you have any questions regarding your warranty rights and responsibilities, you should contact the Cushman Service Department at 1-(402)-474-8570 or the California Air Resources Board at 9528 Telstar Avenue, El Monte, CA 91731.

This emission control system warranty specifically excludes the following: Repair or replacement resulting from accident, misuse, lack of required maintenance, improperly performed repairs, and modifications that adversely affect the operation, performance or durability of the emission control system. Also excluded are the costs of inspections, replacement of parts after the first required replacement point, and other services and adjustments, except those that have a factory installed and properly operating adjustment limiting device that are not performed as required maintenance.

In an emergency situation when a warranty station is not reasonably available, repairs may be performed at any available service establishment, or by the owner, using any replacement part. A part not available within 30 days or a repair not completed within 30 days constitutes an emergency. The manufacturer shall reimburse the owner for expenses, including diagnostic charges, not to exceed the manufacturer's suggested retail price for all warranted parts replaced and labor charges based on the manufacturer's recommended time allowance for the warranty repair and the geographically appropriate hourly labor rate.

Any part may be used for maintenance or repairs. If other than Cushman authorized parts are used, the vehicle owner should make sure that such parts are equivalent in design and durability to Cushman authorized parts. Use of parts not authorized by Cushman does not reduce the warranty obligations of the manufacturer except that Cushman is not liable for repair or replacement of any non-Cushman part.

EMISSION WARRANTY PARTS LIST

- I. Fuel Metering System
 - A. Carburetor and internal parts (or fuel injection system)
 - B. Air/fuel ratio feedback and control system
 - C. Cold start enrichment system
- II. Air Induction System
 - A. Intake manifold
- III. Ignition System
 - A. Distributor and internal parts
 - B. Spark advance/retard system
 - C. Spark plugs

- D. Ignition coil and/or control module
- E. Ignition wires
- IV. Evaporative Control System
 - A. Vapor storage canister
 - B. Vapor-liquid separator
 - C. Fuel tank and filler cap
- V. Positive Crankcase Ventilation (PCV) System
 - A. PCV valve
 - B. Oil filler cap
- VI. Miscellaneous Items Used in Above Systems
 - A. Hoses, clamps, fittings, tubing, sealing gaskets or devices, and mounting hardware
 - B. Pulleys, belts and idlers
 - C. Vacuum, temperature, and time sensitive valves and switches
 - D. Electronic controls

Failure to bring in a vehicle soon after a problem condition exists may cause further damage. Warranty repair work may be performed by any authorized Cushman dealer. You may choose to have emission control system repairs performed at any service establishment without invalidating this warranty. **However, warranty work which is not performed by an authorized Cushman dealer is not covered, except in the case of an emergency.**

CUSHMAN INC.'S WARRANTY OBLIGATION BEGINS UPON DELIVERY TO THE FIRST RETAIL PURCHASER OR WHEN IT IS FIRST PLACED IN SERVICE AS A DEMONSTRATOR.

CUSHMAN INC.'S OBLIGATION UNDER THIS WARRANTY IS STRICTLY AND EXCLUSIVELY LIMITED TO THE REPAIR OR REPLACEMENT OF EMISSION CONTROL SYSTEM PARTS WHICH ARE DEFECTIVE. CUSHMAN DOES NOT ASSUME OR AUTHORIZE ANYONE TO ASSUME FOR THEM ANY OBLIGATION.

CUSHMAN INC. ASSUMES NO RESPONSIBILITY FOR INCIDENTAL, CONSEQUENTIAL, OR OTHER DAMAGES, INCLUDING BUT NOT LIMITED TO EXPENSE FOR GASOLINE, EXPENSE OF RETURNING THE CUSHMAN VEHICLE TO AN AUTHORIZED DEALER AND EXPENSE OF RETURNING IT BACK TO THE OWNER, MECHANIC'S TRAVEL TIME, TELEPHONE OR TELEGRAM CHARGES, TRAILERING OR TOWING CHARGES, RENTAL OF A LIKE VEHICLE DURING THE TIME WARRANTY SERVICE IS BEING PERFORMED, TRAVEL, LODGING, LOSS OR DAMAGE TO PERSONAL PROPERTY, LOSS OF REVENUE, LOSS OF THE USE OF THE VEHICLE, LOSS OF TIME, INCONVENIENCE, OR OTHER DAMAGE WHATSOEVER.

CUSHMAN INC. • A TEXTRON COMPANY
 P.O. Box 82409
 Lincoln, Nebraska 68501-9971

5-19-00

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NOTES

NOTES



WARNING



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

Advertissement



Advertencia

L'émission du moteur de ce matériel contient des produits chimiques que l'Etat de Californie considère être cancérogènes, provoquer des défauts congénitaux et d'autres dangers en matière de reproduction.

El estado de California hace saber que los gases de escape de este producto contienen productos químicos que producen cáncer, defectos de nacimiento y otros daños en el proceso de reproducción humana.