SECTION 1 - GENERAL INFORMATION

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This symbol means WARNING or PERSONAL SAFETY INSTRUCTION - read the instruction because it has to do with your safety. Failure to comply with the instruction may result in personal injury or even death.

This manual is intended as a service and repair manual only. The safety instructions provided herein are for troubleshooting, service, and repair of the MY16, MY17, MY19 tractors. The MY16, MY17, MY19 tractors and attachment operator's manuals contain safety information and operating tips for safe operating practices. Operator's manuals are available through your New Holland dealer.

THINK SAFETY FIRST

AVOID UNEXPECTED STARTING OF ENGINE...

Always turn off the engine and disconnect the spark plug wire(s) before cleaning, adjusting, or repair.

AVOID LACERATIONS AND AMPUTATIONS...

Stay clear of all moving parts whenever the engine is running. Treat all normally moving parts as if they were moving whenever the engine is running or has the potential to start.

AVOID BURNS...

Do not touch the engine, muffler, or other components which may increase in temperature during operation, while the unit is running or shortly after it has been running.

AVOID FIRES AND EXPLOSIONS...

Avoid spilling fuel and never smoke while working with any type of fuel or lubricant. Wipe up any spilled fuel or oil immediately. Never remove the fuel cap or add fuel when the engine is running. Always use approved, labeled containers for storing or transporting fuel and lubricants.

AVOID ASPHYXIATION...

Never operate an engine in a confined area without proper ventilation.

AVOID INJURY FROM BATTERIES...

Battery acid is poisonous and can cause burns. Avoid contact with skin, eyes, and clothing. Battery gases can explode. Keep cigarettes, sparks, and flames away from the battery.

AVOID INJURY DUE TO INFERIOR PARTS...

Use only original equipment parts to ensure that important safety criteria are met.

AVOID INJURY TO BYSTANDERS...

Always clear the area of bystanders before starting or testing powered equipment.

AVOID INJURY DUE TO PROJECTILES...

Always clear the area of sticks, rocks, or any other debris that could be picked up and thrown by the powered equipment.

AVOID MODIFICATIONS...

Never alter or modify any part unless it is a factory approved procedure.

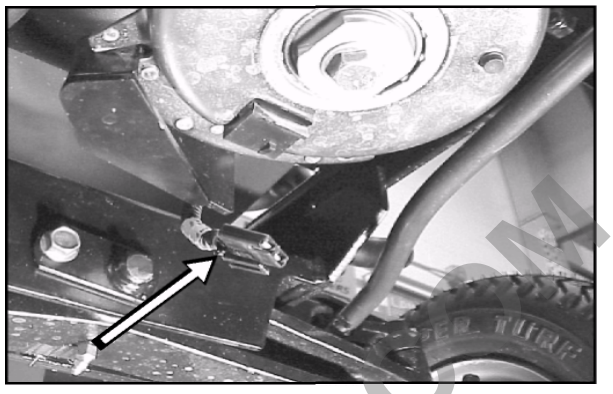
AVOID UNSAFE OPERATION...

Always test the safety interlock system after making adjustments or repairs on the machine. Refer to the Electrical section in this manual for more information.

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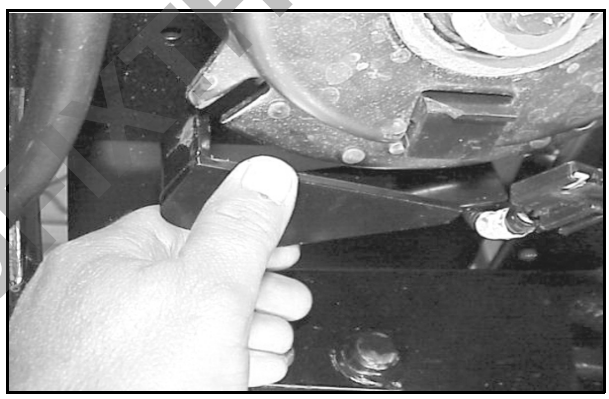
TRACTION BELT REPLACEMENT



1. If the mower deck is installed, remove the mower deck. Remove the power take off (PTO) belt between the pulley box and the electric clutch.

NOTE: *Perform belt installation, routing, and inspection procedures from beneath the tractor.*

2. Disconnect the electric PTO clutch wire clutch.



3. Remove the right hand bolt that hold the PTO stop assembly. Loosen the left hand bolt enough so you can turn the PTO stop assembly enough to disengage it from the slot in the electric PTO clutch housing.

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SECTION 4 - TRANSAXLE

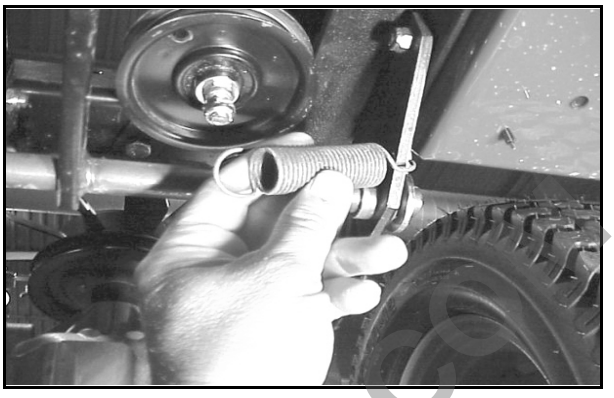
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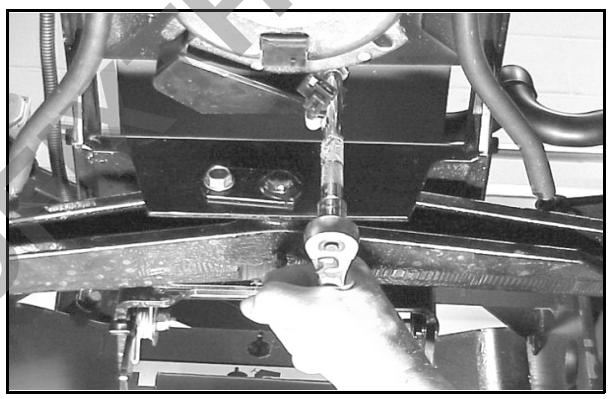
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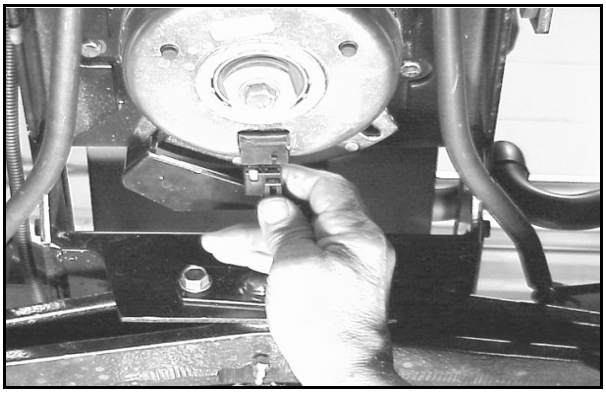
11. Install the idler spring to the idler pulley, located toward the rear of the tractor.



12. Turn the electric PTO clutch housing and align the PTO stop bracket in the slot of the clutch housing. Install the right hand bolt and lock washer in the PTO stop bracket and tighten. Tighten the light hand bolt in the PTO stop bracket.



13. Reconnect the electric PTO clutch wire.



14. Test the tractor to make sure the tractor and the safety system is operating properly.

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FAN AND PULLEY ASSEMBLY

Disassembly

1. Remove jam nut, 115, from input shaft, 12.

2. Remove fan/pulley assembly, 104 & 103.

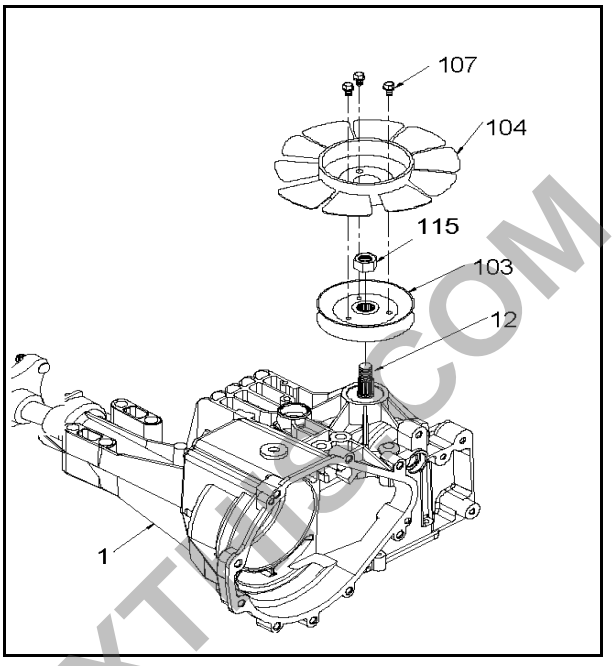
Inspection

1. Inspect fan, 104, for broken and/or damaged blades. If necessary to replace fan, 104, remove screws, 107, and fan, 104, from pulley, 103.

Assembly

1. Install fan/pulley assembly, 104 & 103, onto input shaft, 12.

2. Secure fan/pulley assembly, 104 & 103, onto shaft, 12, by installing jam nut, 115.

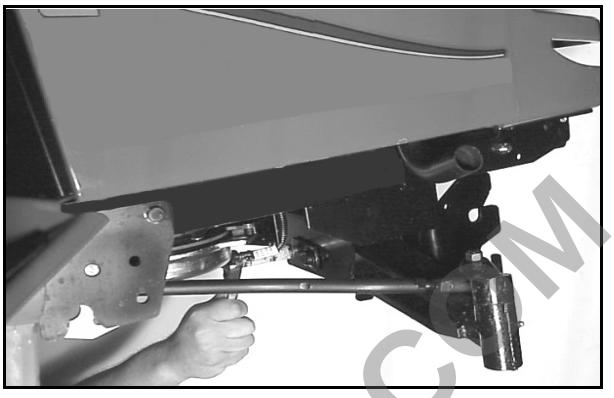


1. Main Housing
12. Input Shaft
103. Pulley
104. Fan
107. Screw
115. Jam Nut

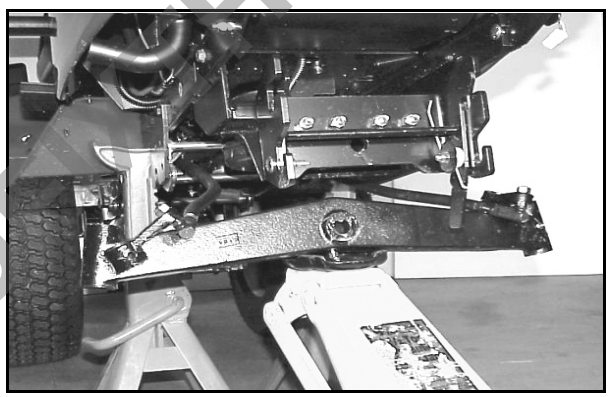
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4. On the back side of the transaxle assembly, remove the bolt securing the axle pin.



5. Remove the axle pin; use a drift punch and hammer to tap the axle pin out; if needed. Lower the axle assembly out of the tractor frame.



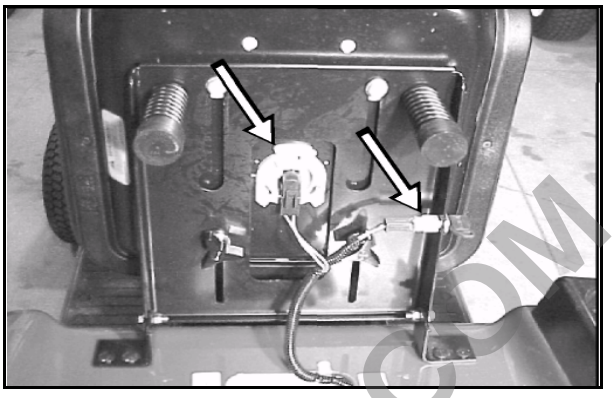
6. For installation, reverse the order of removal.

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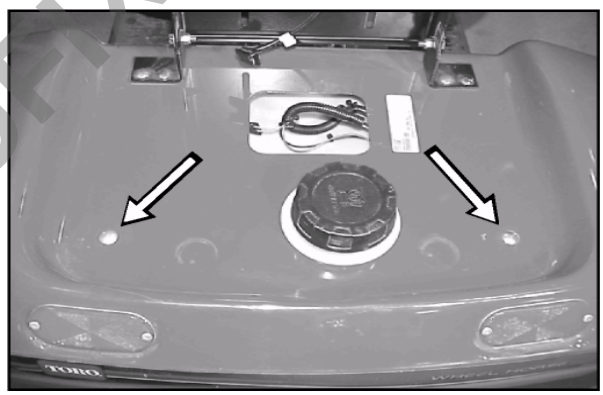
SEAT AND FENDER REMOVAL

1. Unplug the seat switch, and the KeyChoice™ Reverse operating switch.

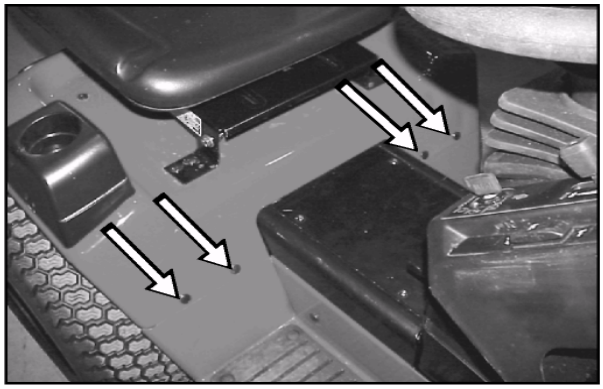


2. To make it easier to remove the fasteners for the fender assembly, jack the tractor up in the rear and remove both rear tires.

3. Remove the two rear carriage bolts, washers, and nuts located in the rear of the fender assembly.



4. Remove the four carriage bolts, washers, and nuts, (two on the right and two on the left), located between the footrest and fender.



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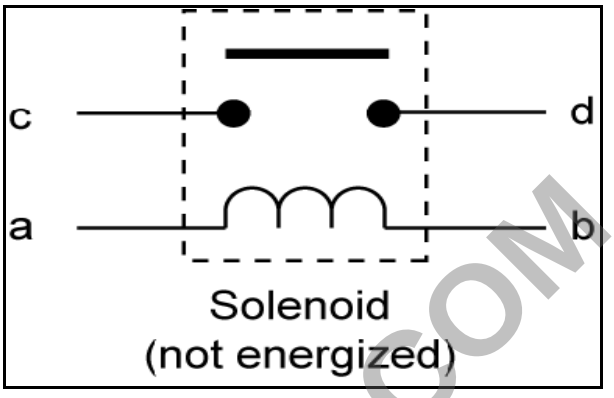
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Testing

1. Disconnect the solenoid from the wiring harness.

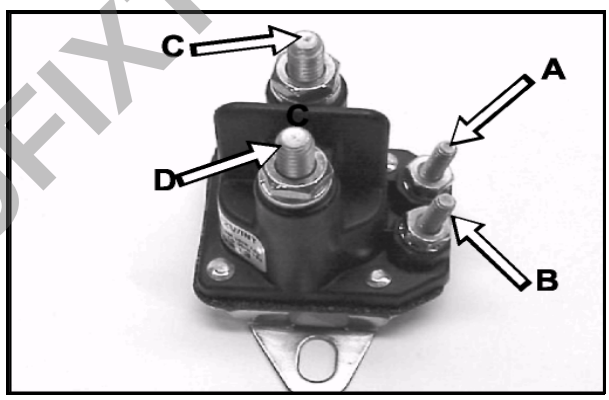
2. With a multimeter (ohms setting), check to ensure that terminals “c” and “d” are open (no continuity).

3. Apply +12 VDC to terminal “a” and ground terminal “b”. Terminals “c” and “d” should now be closed (continuity).



4. You should be able to hear the solenoid “click” when you make the connection.

(A) & (B) Coil Terminals	(C) & (D) Contact Terminals



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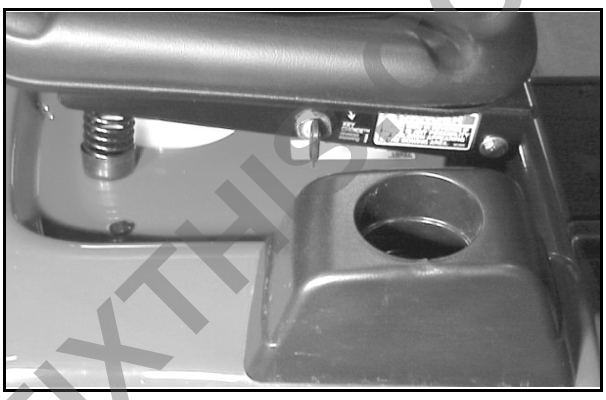
KEYCHOICE™ REVERSE OPERATING SYSTEM SWITCH

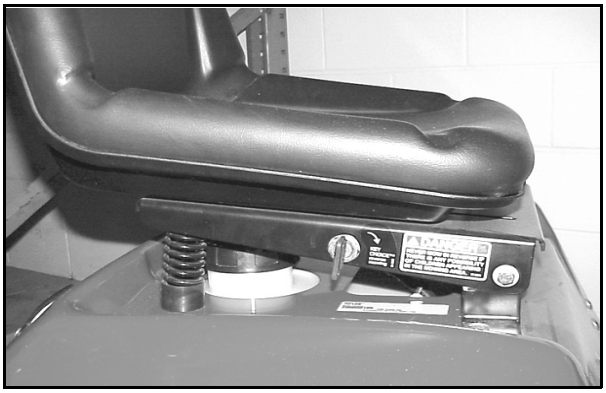
Purpose

This switch is used in the KeyChoice™ Reverse Operating System circuit. When turned to the ON position, it allows the operator to mow in reverse.

Location

The switch is located on the right side, below operator's seat.





How It Works

The switch is basically an on/off switch spring loaded to return to off position. When turned to the ON position with the PTO engaged, it activates circuits in the KeyChoice™ Reverse Operating System reverse module and allows the operator to mow in reverse.

Testing

1. Disconnect the switch from the circuit.
2. With a multimeter, check the continuity across the two terminals. There should be NO continuity.
3. Turn the key to the "ON" position and hold, since the switch is spring loaded. There should be continuity across the two terminals.

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