

**SWITCH KIT**

for Lawn Tractors

PART NO. 93-3897  
PART NO. 93-3899**INSTALLATION  
INSTRUCTIONS**

This kit contains parts and instructions to replace blade control (PTO) and clutch\brake interlock switches for Lawn Tractors.

**Loose Parts**

**Note:** Use the chart below to verify all parts have been shipped.

DESCRIPTION	QTY.	USE
Switch <b>without dust boot</b>	1	Replace blade control (PTO) switch.
Screw	2	
Tinnerman nut	1	
Decal	1	
Switch <b>with dust boot</b>	1	Replace clutch\brake switch.
Screw	2	
Tinnerman nut	1	

**Replace Blade Control Switch**

**Note:** Block the wheels so the machine does not move. Do not set parking brake.

1. Park the machine on a level surface, disengage the blade control (PTO), shift into gear, and turn the ignition key to "OFF" to stop the engine. Remove the key.
2. Raise the seat and disconnect the negative (-) battery lead. Move lead to the side out of the way so it does not contact terminal.
3. Drain the fuel tank; refer to operator's manual.

**! CAUTION**

**POTENTIAL HAZARD**

- In certain conditions gasoline is extremely flammable and highly explosive.

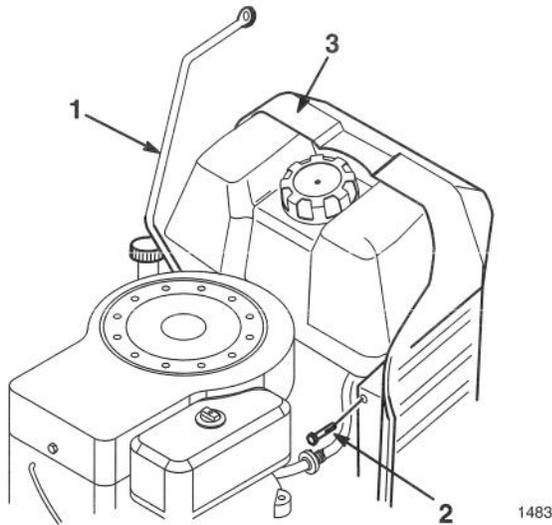
**WHAT CAN HAPPEN**

- A fire or explosion from gasoline can burn you, others, and cause property damage.

**HOW TO AVOID THE HAZARD**

- Drain gasoline from the fuel tank when the engine is cold. Do this outdoors in an open area. Wipe up any gasoline that spills.
- Never drain gasoline near an open flame or where gasoline fumes may be ignited by a spark.
- Never smoke a cigarette, cigar or pipe.

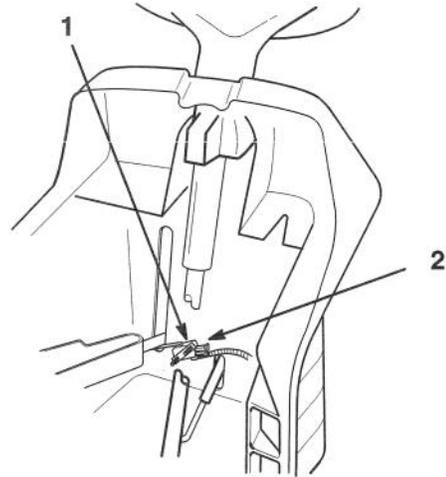
4. Open the hood.
5. Remove the left side screw securing the fuel tank rod and tilt rod up. Set the fuel tank on engine to gain access to the back side of the dash (Fig. 1).



**Figure 1**

1. Fuel tank rod
2. Screw
3. Dash

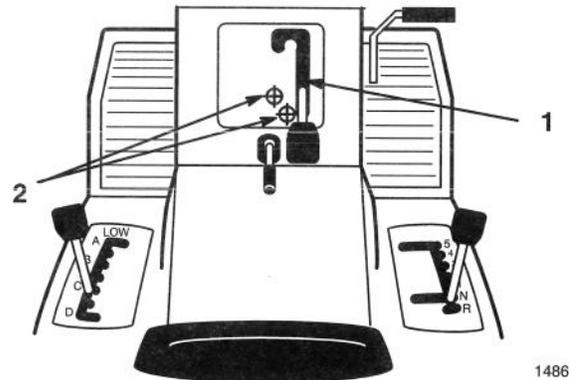
6. Unplug wire harness connector from the blade control switch (Fig. 2).



**Figure 2**

1. Blade control switch
2. Connector

7. On outside of steering tower locate recesses under decal for switch mounting screws. At bottom and to the side of the blade control lever opening (Fig. 3).
8. Puncture the decal with a Phillips screwdriver and remove switch mounting screws.



**Figure 3**

1. Blade control slot
2. Screw locations

9. Position new blade control switch **WITHOUT DUST BOOT** in location of previously removed switch. Switch arm must be below blade control lever. Secure with new screws and Tinnerman nut (Fig. 4).
10. Push wire harness connector onto switch terminals (Fig. 4).

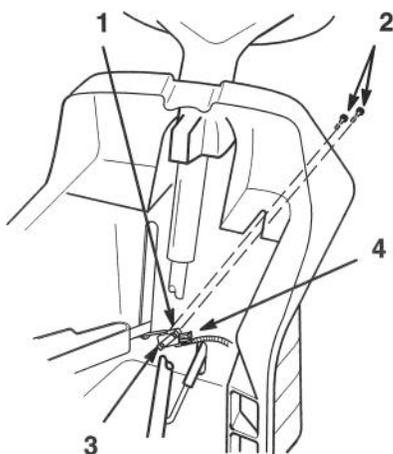


Figure 4

- |                                    |                  |
|------------------------------------|------------------|
| 1. Switch <b>without dust boot</b> | 3. Tinnerman nut |
| 2. Screw                           | 4. Connector     |

11. Clean surface and remove any loose or torn sections of old decal so new decal sticks securely.
12. Line up the top of new decal with top of old decal. Hold lower half in place while removing backing from top half. Press adhesive smoothly and firmly into position then repeat for the lower half of the decal.

## Replace Clutch\Brake Switch

1. Using a small hammer, gently tap screws through Tinnerman nut until flush with frame (Fig. 5).

2. Remove screws, spacer and switch from frame (Fig. 5). Disconnect switch from wire harness connector. Discard switch, screws and Tinnerman nut.

**Note:** Save spacer for use when installing new switch.

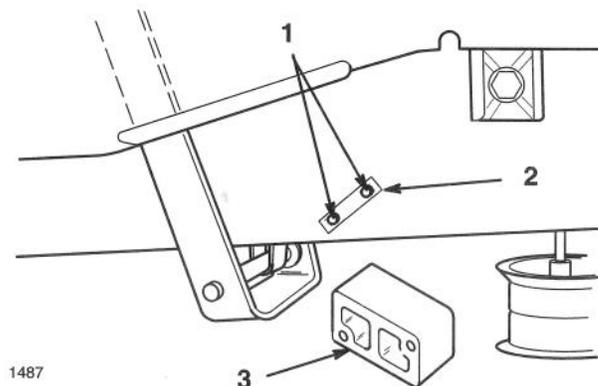


Figure 5

- |                  |                             |
|------------------|-----------------------------|
| 1. Screw         | 3. Spacer (save for re-use) |
| 2. Tinnerman nut |                             |

**IMPORTANT: Install dust boot onto switch, if not already installed. Check switch for proper plunger operation.**

3. Using toothpicks (or similar item) as a guide assemble switch **with dust boot**, spacer and Tinnerman nut (Fig. 6).

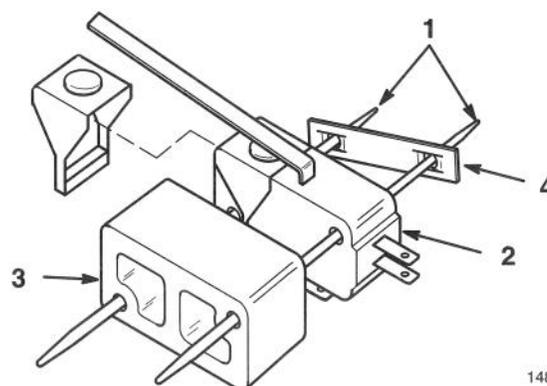


Figure 6

- |                                 |                    |
|---------------------------------|--------------------|
| 1. Toothpick                    | 3. Spacer (re-use) |
| 2. Switch <b>with dust boot</b> | 4. Tinnerman nut   |

4. Connect switch to wire harness connector (Fig. 7).

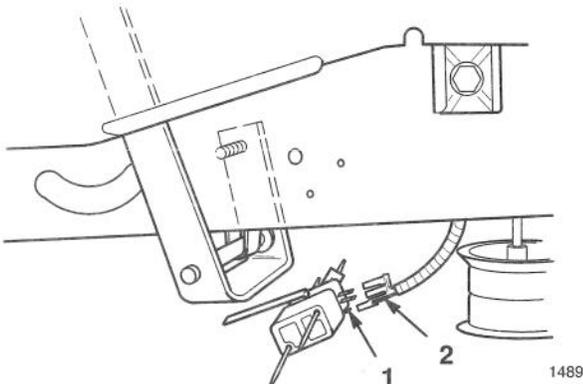


Figure 7

1. Switch
2. Connector

5. Locate switch assembly inside frame using toothpicks as a guide (Fig. 8).

**IMPORTANT: Switch arm must be installed below bolt on clutch/brake lever.**

6. Holding switch assembly firmly in place, behind frame, push toothpick through assembly with a screw. Thread screw into Tinnerman nut (Fig. 8). Repeat procedure with second switch mounting screw. Tighten mounting screws securely.

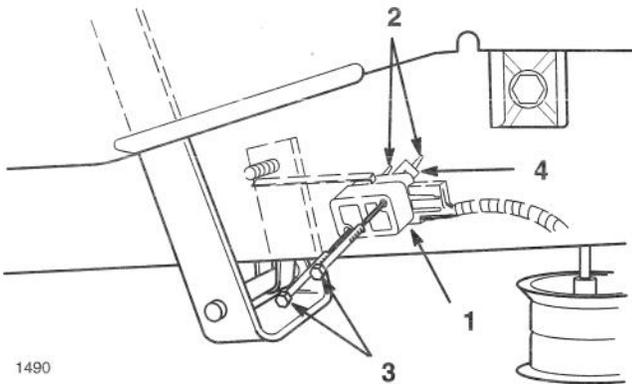


Figure 8

1. Switch assembly
2. Toothpick
3. Screw
4. Tinnerman nut

7. Install the fuel tank securing with fuel tank rod and screws removed previously (Fig. 1). Close the hood.
8. Connect negative (-) battery cable; refer to operator's manual.

## Test the Safety System

Test the safety system for proper operation. It must meet all requirements.

1. Move the ground speed selector into neutral "N." Set the parking brake. Move the blade control (PTO) to "ENGAGED." Now turn the ignition key to "START"; the engine should not crank.
2. With the ground speed selector in neutral "N," move the blade control (PTO) to "DISENGAGED" and release the parking brake. Now turn the ignition key to "START"; the engine should not crank.
3. With the ground speed selector in neutral "N," set the parking brake and move the blade control (PTO) to "DISENGAGED." Now start the engine. While the engine is running, release the parking brake and rise slightly from the seat; the engine should stop.