



Service Kit 759-04228

Date: September 08, 2009
 Subject: 703-2582 Reverse Switch Actuator Bracket Replacement
 Models Affected: Series 2000 Tractors (2130,2135, 2140,2145,2150,2155,2160,2165,2185)
 Serial Numbers: 239,001 - 359,000

PURPOSE: To offer a Service Kit, including parts and instructions when needing to replace the 703-2582 Reverse Switch Actuator Bracket used on Series 2000 Tractors.

NOTE: These materials are prepared for use by trained technicians who are experienced in the service and repair of equipment of the kind described in this publication, and are not intended for use by untrained or inexperienced individuals. Such individuals should seek the assistance of an authorized service technician or dealer.

NOTE: Save this Instruction Sheet. Refer to it when ordering replacement parts.

Service Kit Contents

ITEM NO.	PART NUMBER	QTY	DESCRIPTION
1	703-2965	1	Rev. Sw. Actuator Brkt.
2	736-0226	1	Flat Washer
3	712-3004A	1	Hex Flange Lock Nut
4	738-0140	1	Shoulder Screw

Instruction sheet included with kit.



FIGURE 1

REMOVAL INSTRUCTIONS:

1. Park unit on a flat level surface.
2. Disconnect the negative battery cable from the negative battery terminal.
3. Remove the mower deck assembly if present. Refer to the Operator's Manual for deck removal instructions.
4. Lift the tractor and support with jack stands or lift the front of the tractor and place car ramps under front tires. If the car ramp method is chosen chock rear tires.

5. Locate the reverse switch actuator mounted to the forward/reverse shaft assembly/clutch cam. **NOTE:** Figure 2 shows the clutch cam configuration used for serial numbers 239,301 through 324,500. Figure 3 shows the forward/reverse shaft assembly configuration for Serial Numbers 324,501 through 359,000.

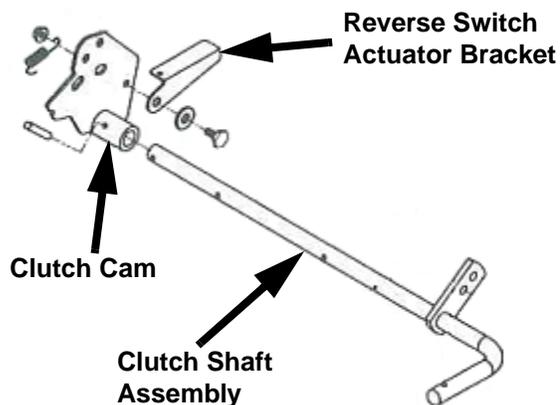


FIGURE 2

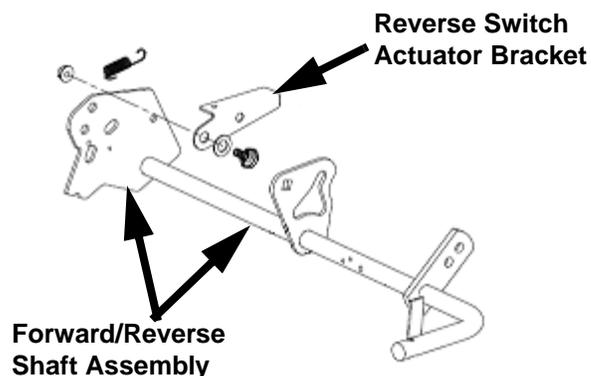


FIGURE 3

6. Disconnect the extension spring from the reverse switch actuator bracket & forward/reverse shaft assembly/clutch cam.
7. Remove the hex flange lock nut from the shoulder screw that secures the reverse switch actuator bracket to the forward/reverse shaft assembly/clutch cam.
8. Discard the hex flange nut, flat washer, shoulder screw and reverse switch actuator. **Do Not** discard the extension spring as it will be used in reassembly.
9. Remove the rear bolt and nut that secures the left side lift arm and bearing mounting bracket to the frame.
10. Remove the front bolt and nut that secures the bearing mounting bracket to the frame. **NOTE: If Serial number is 324501 and below, remove the hair pins from the brake and forward/reverse shafts. Remove the bearing support bracket from the shafts to allow access to enlarge the hole in the forward/reverse shaft assembly/clutch cam.**

INSTALLATION INSTRUCTIONS:

11. Pull the bearing mounting bracket on the left side down with the brake and forward/reverse shafts attached. This will allow access to enlarge the 1/4" mounting hole in the forward/reverse shaft assembly/clutch cam that the shoulder screw used to secure the reverse switch actuator bracket was removed from.
12. Use a 5/16" drill bit and electric drill to enlarge the 1/4" hole in the forward/reverse shaft assembly/clutch cam. See Figure 4. **NOTE: Be-careful not to come into contact with any other parts with the drill bit while drilling the hole.**
13. Use a round file and sandpaper to remove any burs left from the drilling process.

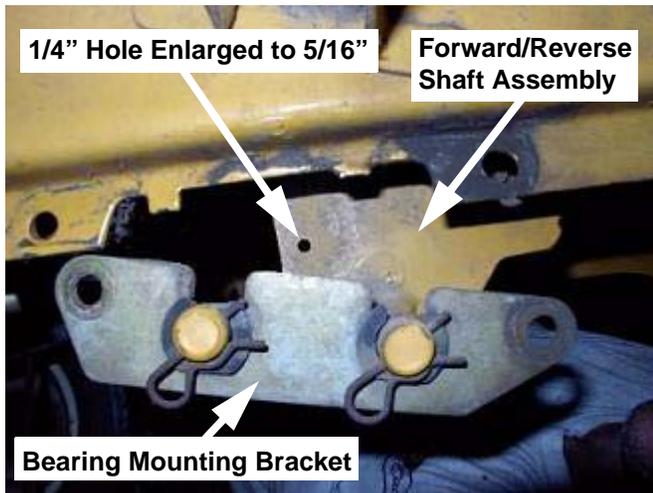


FIGURE 4

14. Raise the bearing mounting bracket on the left side with the brake and forward/reverse shafts back into place.
15. Install the front bolt and nut securing the bearing mounting bracket to the frame. **Do Not** tighten at this time.
16. Install the rear bolt and nut securing the lift arm and bearing mounting bracket to the frame.
17. Tighten both the front and rear bearing mounting brackets bolts and nuts at this time.
18. Install the flat washer (Ref.# 2) onto the shoulder screw (Ref.# 4) from Figure 1.
19. Install the reverse switch actuator bracket (Ref.# 1) onto the shoulder screw as shown in Figure 5.

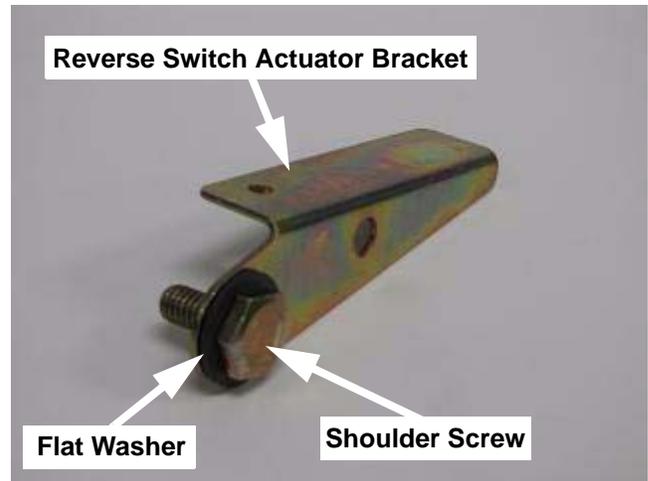


FIGURE 5

20. Install the shoulder screw with assembled parts as shown in Figure 5 into the 5/16" hole that was drilled in the forward/reverse shaft assembly/clutch cam.
21. Install the hex flange lock nut (Ref.# 3) onto the shoulder screw and tighten. **NOTE: Make sure the reverse switch actuator bracket pivots freely.**
22. Connect the extension spring from step 6 to the hole on top, of the reverse switch actuator bracket, connect the other end of the extension spring to the hole in the forward/reverse shaft assembly/clutch cam above the damper cylinder. See Figure 6.

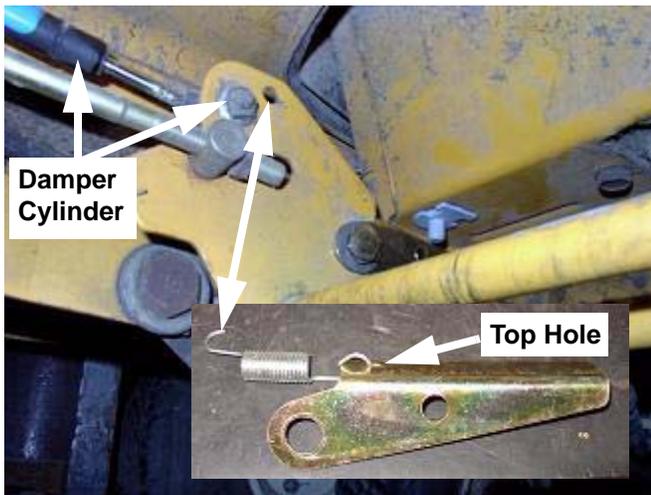


FIGURE 6

23. Figure 7 shows the 703-2965 reverse switch actuator from the 759-04228 Service Kit installed with the forward/reverse shaft assembly in the neutral position.

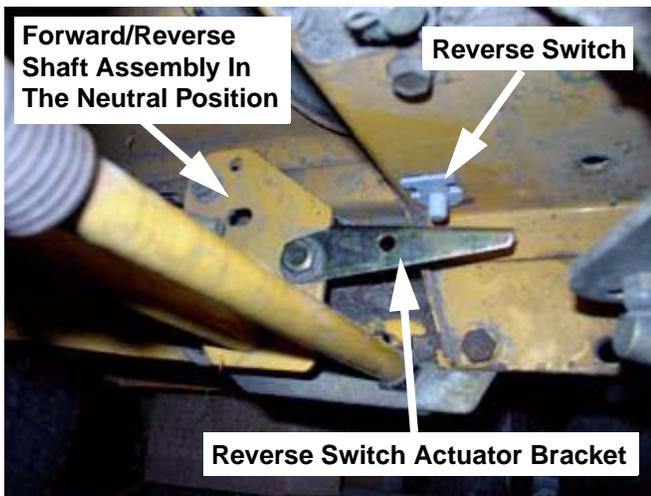


FIGURE 7

24. Have a co-worker step on the reverse pedal. Make sure the reverse actuator switch is making contact with the reverse switch. See Figure 8.

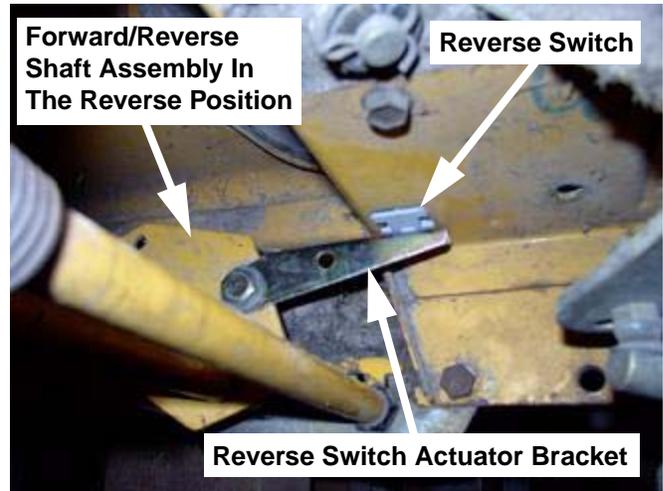


FIGURE 8

25. Lower tractor back to the ground. Remove the chocks from rear wheels.

26. Connect the negative battery cable to the negative battery terminal.

27. Start the tractor. Engage PTO switch. Step on the reverse pedal, the PTO clutch should disengage.

28. Install the deck if removed in step 3. Refer to the Operator's Manual for deck installation instructions.

29. Check that all safety features are functioning properly.