

## RX-500, RX-700 & RX-900 REAR LEGTUBE PRESSURE SWITCH ADJUSTMENT

Roadtec milling machines are equipped with a safety mechanism called the cutter drum clutch interlock. What this mechanism is designed to do is to automatically disengage the cutter drum when dangerous milling conditions or practices are present. Any abrupt change in the rear legtube down pressure will cause the clutch interlock to disengage the cutter drum.

A pressure switch attached to the rear legtube detects this change in pressure and sends a signal to the clutch interlock telling it to disengage the cutter drum clutch. It is recommended that this pressure switch be checked every time the clutch interlock is activated. On occasion the pressure switch will have to be readjusted. The following instructions will explain how to check and adjust the rear legtube pressure switch.

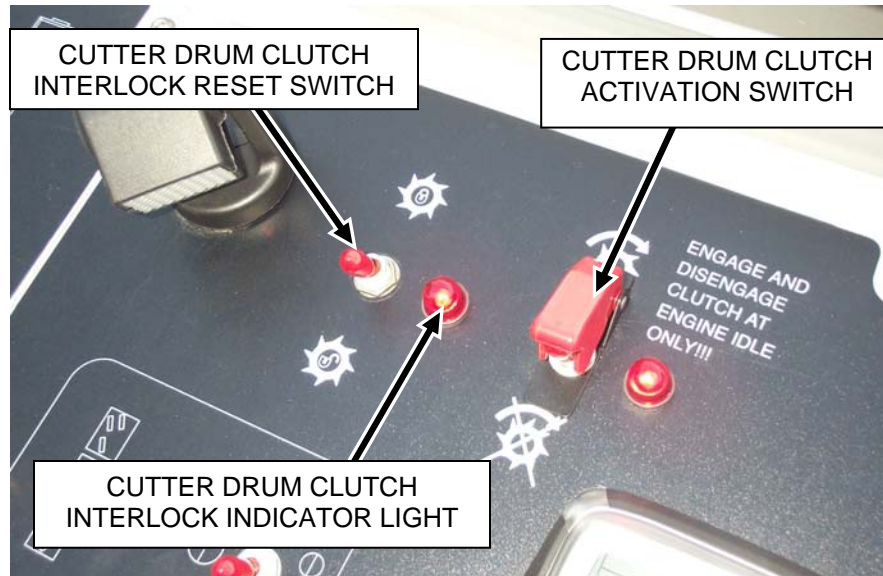
1. Position the machine on a hard level surface.
2. Place a  $\frac{3}{4}$ " piece of plywood under the cutter drum to prevent the cutter teeth from leaving holes in the ground.
3. Lower the rear of the machine until the pointer on the rear leg is on zero.
4. Lower the front of the machine evenly until the cutter drum teeth are within  $\frac{1}{4}$ " of the ground or plywood.
5. Make a mark on the inner legtube with a marker or pencil where the inner and outer legtubes meet.



**FIGURE 1**

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6. Go up to the operator's platform and reset the clutch interlock switch. This will make the light go "OFF".



**FIGURE 2**

7. Using both front elevation switches, simultaneously start lowering the front of the machine. When the clutch interlock light comes on, stop immediately.

**NOTE:** When lowering the front of the machine, use the cutter drum as a pivot point. The rear leg will automatically adjust and extend itself out of the machine.

8. The mark you made earlier should now be lower than it was. Make another mark where the inner and outer legtubes now meet and measure between the two marks.

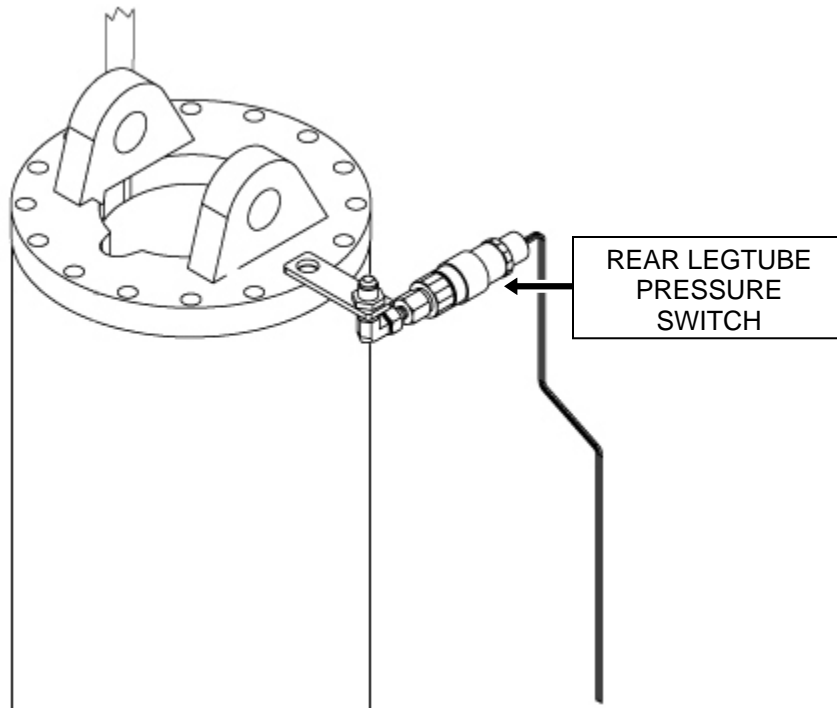
9. The distance should be between  $\frac{3}{4}$ " to 1". If the distance is less or more, then the rear legtube pressure switch will need to be adjusted.



**FIGURE 3**

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10. The rear legtube pressure switch is located on the top of the rear leg. On a four track machine it can be located on top of the right rear leg.



**FIGURE 4**

11. The switch is equipped with a slide collar. Underneath the slide collar is an adjustment dial.

12. Using a small screwdriver, rotate the adjustment dial to the right to increase sensitivity and to the left to decrease sensitivity.

**NOTE:** left and right are determined by looking at the switch from the end opposite the wires.

**NOTE:** If the distance between the two marks is less than  $\frac{3}{4}$ ", then turn the adjustment dial to the left. If the distance between the two marks is greater than 1", then turn the adjustment dial to the right.

13. Repeat the steps above until there is no more than 1" and no less than  $\frac{3}{4}$ " gap in the marks made on the rear legtube.