

Limit Switch Operating Head Replacement

Bulletin Number 802T

Two Pole Vertical Construction - Maintained Contact

IMPORTANT It is imperative that the operating head is adjusted according to these instructions during the replacement or installation process.



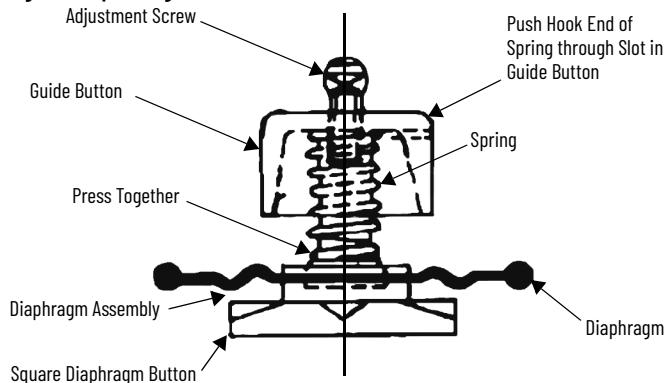
ATTENTION: To avoid electrical shock and/or unintended operation of equipment, disconnect all power to the limit switch and the controlled equipment before proceeding with any repair or adjustment of the limit switch.

Side Push Rod Operated

1. To remove the old operating head, remove the four mounting screws.
2. Turn the adjustment screw on the new operating head inward, or clockwise, until it can turn no further. See [Figure 1](#).
3. Turn the adjustment screw outward, or counter clockwise, one complete turn.

IMPORTANT Verify that the guide button is pushed down firmly on the spring so that the hook end of the spring fits through the slot of the guide button and the guide button sits squarely on the diaphragm assembly, as shown in [Figure 1](#). For the switch to operate, the square diaphragm button must be aligned with the square hole in the operating head.

Figure 1 - Operating Head



4. Secure the operating head to the switch base and check the switch operation.
 - a. If the switch contacts operate when the head actuator is moved back and forth, proceed to [step 5](#).
 - b. If the switch does not operate, remove the operating head from the base and turn the adjustment screw outward, or counter clockwise, in 1/3 turn steps (two flats on the adjustment screw) until the switch operates. Proceed to [step 5](#).

IMPORTANT Use a continuity indicator to check across electrical contacts for proper switch operation. Check both contact blocks. Do not rely on the audible indication of the switch action.

5. Remove the operating head from the base and turn the adjustment screw outward, or counter clockwise, one additional complete turn.
6. Fasten the operating head permanently to the base. Tighten the four mounting screws to approximately 0.68 N·m (6 lb·in).

Side Lever Operated

1. To remove the old operating head, remove the four fillister head screws.
2. Turn the adjustment screw on the new operating head inward, or clockwise, until it can turn no further. See [Figure 1](#).
3. Turn the adjustment screw outward, or counter clockwise, two complete turns.

IMPORTANT Verify that the guide button is pushed down firmly on the spring so that the hook end of the spring fits through the slot of the guide button and the guide button sits squarely on the diaphragm assembly, as shown in [Figure 1](#). For the switch to operate, the square diaphragm button must be aligned with the square hole in the operating head.

4. Secure the operating head to the switch base. Rotate the operating head shaft slowly from one extreme of travel to the other extreme of travel and back to the starting point.
5. Verify that the operating head mechanism goes over center mechanically in both directions before the switch contacts operate. The mechanical over center position is the point at which the shaft cannot return toward its initial position without the aid of an external force. If the switch does not operate or operates before the mechanical over center position is reached, turn the adjustment screw outward, or counter clockwise, in 1/3 turn steps (two flats on the adjustment screw) until the contacts operate properly.

IMPORTANT Use a continuity indicator to check across electrical contacts for proper switch operation. Check both contact blocks. Do not rely on the audible indication of the switch action.

6. Remove the operating head from the base and turn the adjustment screw outward, or counter clockwise, an additional 1/3 turn.
7. Fasten the operating head permanently to the base. Tighten the four mounting screws to approximately 0.68 N·m (6 lb·in).

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Waste Electrical and Electronic Equipment (WEEE)



At the end of life, this equipment should be collected separately from any unsorted municipal waste.

Rockwell Automation maintains current product environmental compliance information on its website at rok.auto/pec.

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