

10260A series Actuator Limit Switch Replacement Instructions 51205550-501

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Summary

Enclosed is a limit switch kit. Use these switches to replace or add 10260A switches.

The kit contains 6 limit switches—4 are preassembled. Use this assembly for replacing or adding switches 1-4. If you want 5 or 6 switches you must add switch 5 and 6 to the assembly.

Note: If you are replacing faulty switches, replace *all* the switches.

Procedure

See Table 1 for the procedure.

WARNING

Disconnect power before accessing components inside the instrument.

ATTENTION

When working with circuit cards always protect against electrostatic discharge by wearing a grounded wrist strap.

Table1 10260A Limit Switch Installation Procedure

Step	Action
1	<p>Remove covers:</p> <ul style="list-style-type: none"> Remove screws from top and top rear covers. Remove covers.
2	<p>Assemble switches:</p> <ul style="list-style-type: none"> This kit contains switches 1-4 preassembled. If your instrument currently has more than 4 switches, add the extra switch(es) to the 4-switch assembly, according to Figure 1. Longer bolts are provided to accommodate extra switches. <div data-bbox="367 625 1404 1129" style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">Connectors for even-numbered (left side) switches</p> <p>Yellow ——— NC Orange ——— NO Brown ——— COM</p> <p style="text-align: center;">Switch #6</p> <p style="text-align: center;">Switch #5</p> <p style="text-align: center;">Switch #4</p> <p style="text-align: center;">Switch #3</p> <p style="text-align: center;">Switch #2</p> <p style="text-align: center;">Switch #1 (innermost)</p> <p style="text-align: center;">Connectors for odd-numbered (right side) switches</p> <p>NC ——— Gray NO ——— Purple COM ——— Blue</p> </div> <p style="text-align: center;">Figure 1 Exploded view of switch assembly</p>

Table1 10260A Limit Switch Installation Procedure

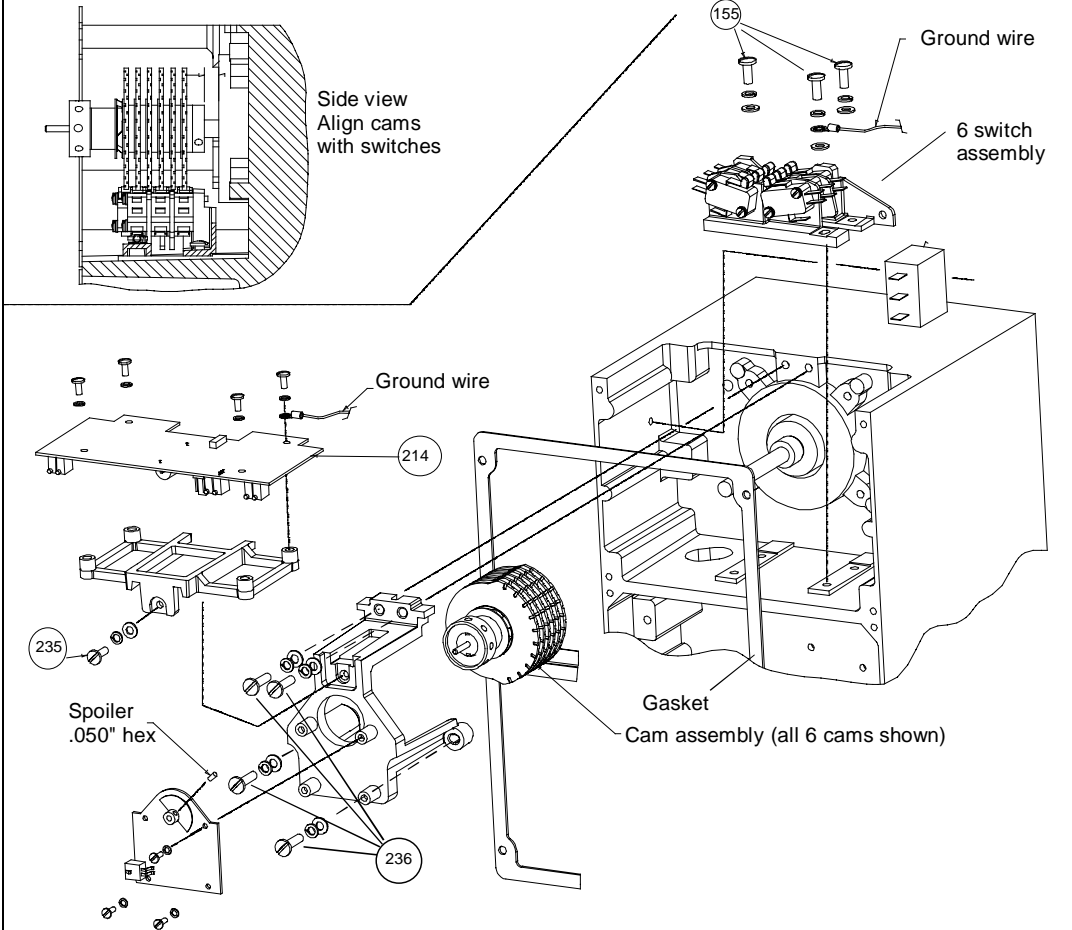
Step	Action
3	 <p style="text-align: center;">Figure 2 Exploded view of 10260A</p> <p>Remove non-contact sensor hardware:</p> <ul style="list-style-type: none"> • With .050" hex wrench, loosen spoiler. See Figure 2. • Remove screw from non-contact sensor board frame. See Figure 2, item 235. Set the frame and board aside or on top of the instrument out of the way. • Remove 4 screws securing bracket. See Figure 2, item 236. It is suggested you use a screwdriver that grips the screws to prevent dropping them. Do not use a magnetic screwdriver; you can damage the sensitive electronics nearby. Set the bracket assembly hanging out of the way. • Remove screw from right screw hole, if applicable. See Figure 2, item 155. If your unit has 6 switches you must first remove the #5 switch connector to gain access to the screw. To remove the connector, insert the tip of a screwdriver into the bottom groove of the connector, then push the connector off the terminals.

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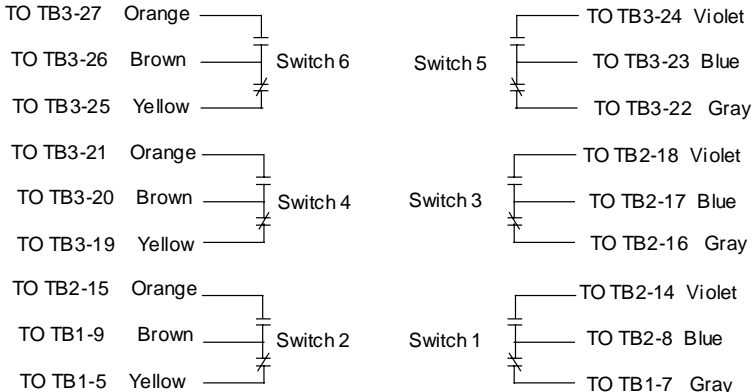
Step	Action
4	<p>Remove existing switches (if applicable):</p> <ul style="list-style-type: none"> Loosen but do not remove the 2 remaining screws securing the switches. See Figure 2, item 155. A long screwdriver is needed. Leave the loosened screws balancing in the holes ready to be lifted out. To remove the switches you must slide them out the rear from beneath the cams. The switch roller levers may spring up and get caught on the cams preventing their removal. To remove the switches, insert a thin screwdriver horizontally between the cams and the switch levers and press down on the switch levers and with your other hand pull the switches out. You may have to jiggle the switches to free them from the cams—do not force them.
5	<p>Transfer wiring from old to new switches (if applicable):</p> <ul style="list-style-type: none"> Once the switches are out from beneath the cams, <i>one at a time</i> remove the connector from each old switch and reconnect it to the same switch on the new 4 or 6 switch assembly. If you removed less than 4 switches, install the 4 new switches anyway—the extra switches will be unused. Do not connect switch #5 yet.
6	<p>If adding switches, wire switches:</p> <ul style="list-style-type: none"> Using one group of 6 wires for every 2 switches, connect wires to each switch except switch #5. See Figure 1. Remove bottom rear cover. Feed wires through hole to lower compartment and connect to terminals as shown here: 
7	<p>Install switches:</p> <ul style="list-style-type: none"> Install the switch assembly according to Figure 2. If cams are present, slide the assembly beneath the cams. The switch roller levers may spring up and get caught on the cams preventing their insertion. To insert the switches, insert a thin screwdriver horizontally between the cams and the switch levers and press down on the switch levers and with your other hand gently push the switches in. You may have to jiggle the switches to free them from the cams—do not force them. Install the 2 rear screws securing the switch assembly. Install the screw into right screw hole. See Figure 2, item 155. Connect wires to switch #5, if applicable.

Table1 10260A Limit Switch Installation Procedure

Step	Action
8	Reassemble components: <ul style="list-style-type: none"><li data-bbox="358 344 1421 428">• Install 4 screws securing bracket. See Figure 2, item 236. It is suggested you use a screwdriver that grips the screws to prevent dropping them. Do not use a magnetic screwdriver; you can damage the sensitive electronics nearby.<li data-bbox="358 449 1248 480">• Install screw to attach non-contact sensor board frame. See Figure 2, item 235.
9	Adjust the non-contact spoiler according to document 62-86-25-06, 10260A Series Actuators with Non-Contact Position Sensing Installation, Operation and Maintenance Manual.
10	Re-gasket top and rear covers. Reattach covers.