TECHNICAL ADDENDUM

PROCEDURE FOR INSTALLING OR REPLACING LEGEND LABELS IN PUSHBUTTON SWITCHES FOR THE FOLLOWING PANELS:

LNS-8
RCP-242
RCP-CSD
RCP-LCXY
RCP-MB
RCP-MB2
RCP-MLDT
RCP-MLDT2
RCP-MLTP
RCP-MLTP2
RCP-MP32
RCP-TP
RCP-XY

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Technical Addendum For Installing/Replacing Switch Legends

1.1 Introduction

Pushbutton switches used in certain QuStream control panels may be labeled as to their function using an interchangeable legend placed under the clear front lens of the switch. This addendum presents the procedure for disassembling and reassembling these switches to install the desired legend label in the switch cap. This procedure pertains ONLY to the following QuStream panels:

LNS-8	RCP-MB2	RCP-MP32
RCP-242	RCP-MLDT	RCP-TP
RCP-CSD	RCP-MLDT2	RCP-XY
RCP-LCXY	RCP-MLTP	
RCP-MB	RCP-MLTP2	

If your panel is not listed above, it contains a different style pushbutton switch, and you should not use this procedure for disassembly/reassembly.

Figure 1-1 is an exploded view showing the installation order of the switch pieces used in labeling the push button switch.

In most installations, switches will be labeled before leaving the factory. If necessary, however, switch legends may be installed or changed in the field. Procedures for disassembling and reassembling the pushbutton switches are provided in the following paragraphs.

Mechanically, the pushbutton switches used in the various remote control panels consist of several parts that may come loose during disassembly. Ideally, the only pieces you should carefully remove are the lens cap, legend and diffuser. If the switch actuator mechanism should come loose from the switch body during disassembly, we have provided instructions for complete reassembly of the switch in Paragraph 1.5.

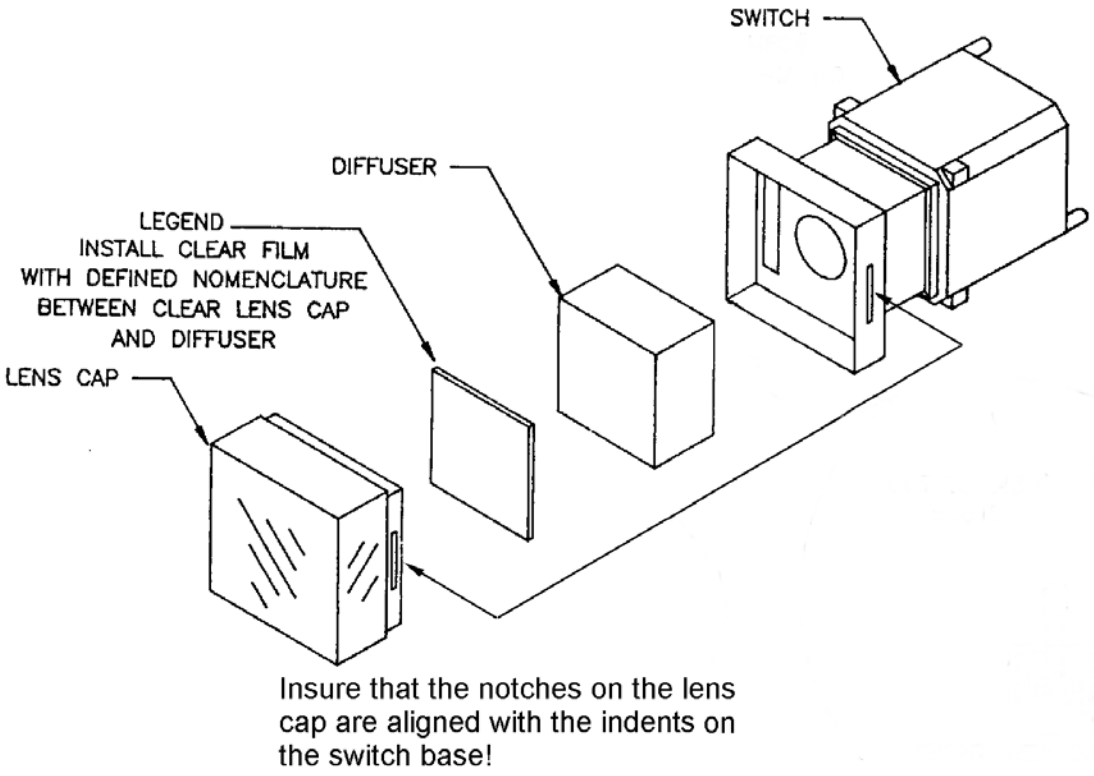


Figure 1-1 Pictorial View of Lens Cap Assembly

1.2 Remove Panel from Equipment Rack

Disconnect power and control bus cables from rear of remote control panel

Remove screws securing panel to equipment rack.

Lay panel flat on a protective surface with the switches facing up before attempting to remove any parts of the switch.

There are many small parts that may become dislodged during disassembly. Having the panel laying flat with the switches up will help prevent any loose parts from falling free of the switch assembly and being lost.

It will also be tremendously helpful in gaining access to the lens cap to remove the metal front cover from the panel. This is done by removing four screws, two each, from the top and bottom edges of the panel. Once the screws are removed, pull the front cover away from the panel.

1.3 Remove and Disassemble Lens Cap

Wrap the teeth of a pair of channel lock or other slip lock type pliers with bandage tape or other non-slip material. Wrapping the teeth will help prevent scratches or other damage to the lens caps during disassembly.

Carefully apply the teeth of the pliers to the lateral edges of the switch cap as shown in Figures 1-2 and 1-3. The cap is held to the switch actuator by locking tabs located on the left and right sides of the cap which mate to indent slots on the switch actuator, as illustrated in Figure 1-1.

If necessary, press switches adjacent to the one you are disassembling to gain better access to the cap edges.

GENTLY rock the pliers in a left to right motion to loosen the lens cap from the switch body.

Remove the diffuser and legend from the cap.

1.4 Install New Legend and Replace Lens Cap

Insert the new legend into the lens cap and re-install the diffuser, Figure 1-1.

Ensure that the tabs on the sides of the lens cap line up with the mating slots on the edges of the switch actuator and gently but firmly press the cap assembly back in place on the switch body.

NOTE

It is essential that you align the tabs of the cap with the mating slots on the switch actuator. If the cap is installed otherwise, the tabs will cause the cap to bulge and not provide enough lateral clearance for the switch to freely press.

Figure 1-2 Grasp Lateral Edges of Switch Cap with Wrapped Pliers

Figure 1-3 Panel Shown with Front Cover Removed for Better Access

1.5 In the Event of Trouble

While it is rare, occasionally when removing a lens cap the entire switch actuator will come loose from the switch body. If this happens, you will need to ensure that all parts are replaced in the switch body and reassemble the switch. Figure 1-4 identifies the various parts of the switch assembly.

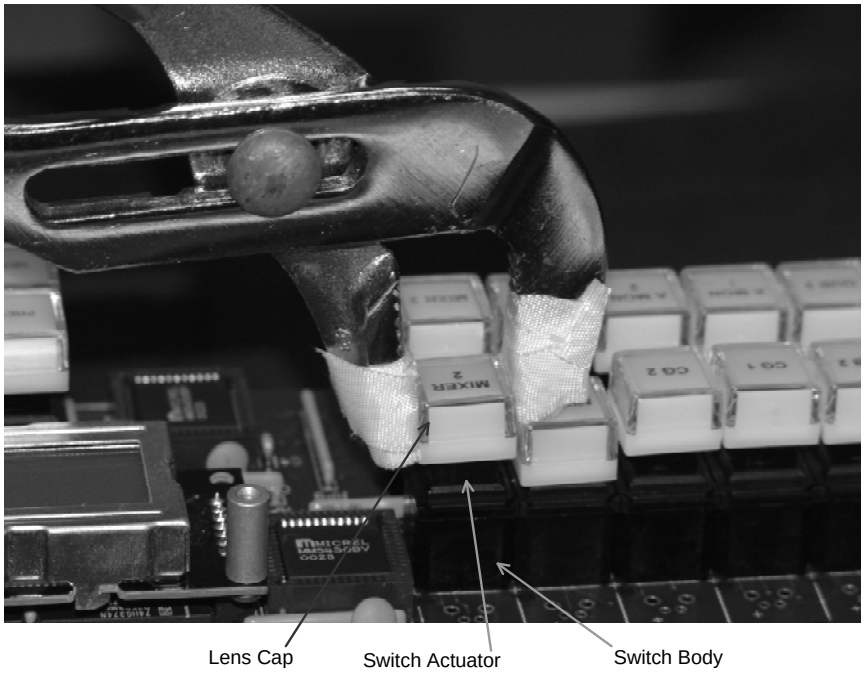


Figure 1-4 Identification of Switch Parts

Figure 1-5 shows two views of a switch with the actuator removed. You will note the spring fitted around the LED in the center of the switch. This spring is loose and can become dislodged from the switch body.

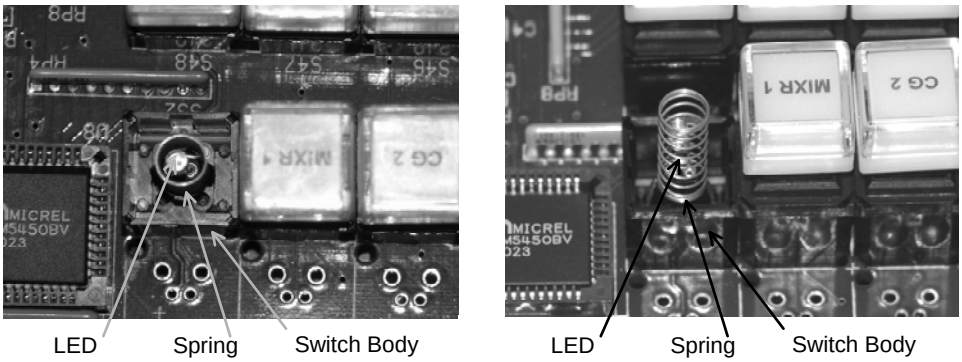


Figure 1-5 Identification of Switch Body Components

1.6 Reassembling Switch Body

Place spring over LED as shown in Figure 1-6

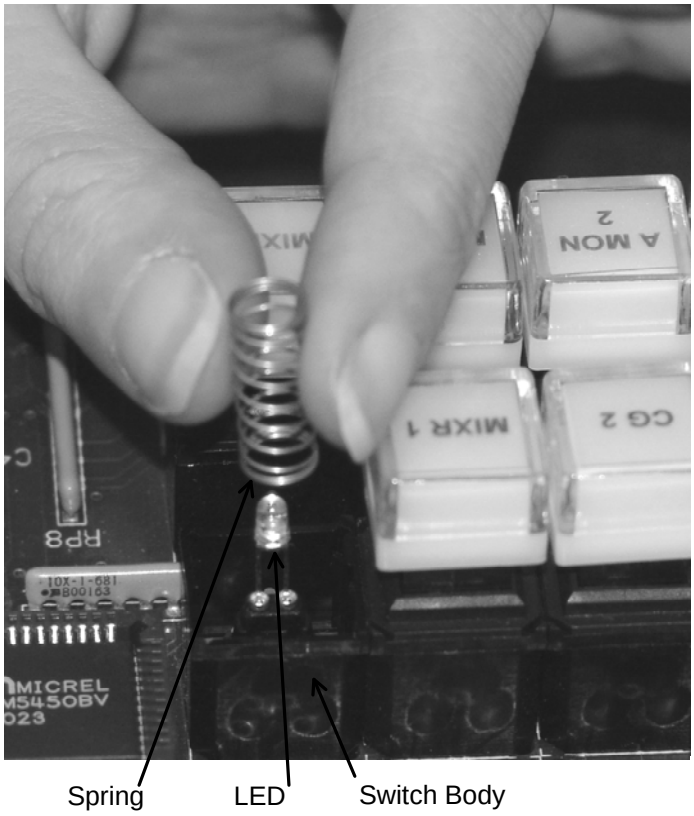


Figure 1-6 Placement of Spring

Carefully orient the switch actuator as shown in Figure 1-7 and align the corners of the switch actuator with the switch body.

Gently press the switch actuator until it snaps in place on the switch body.

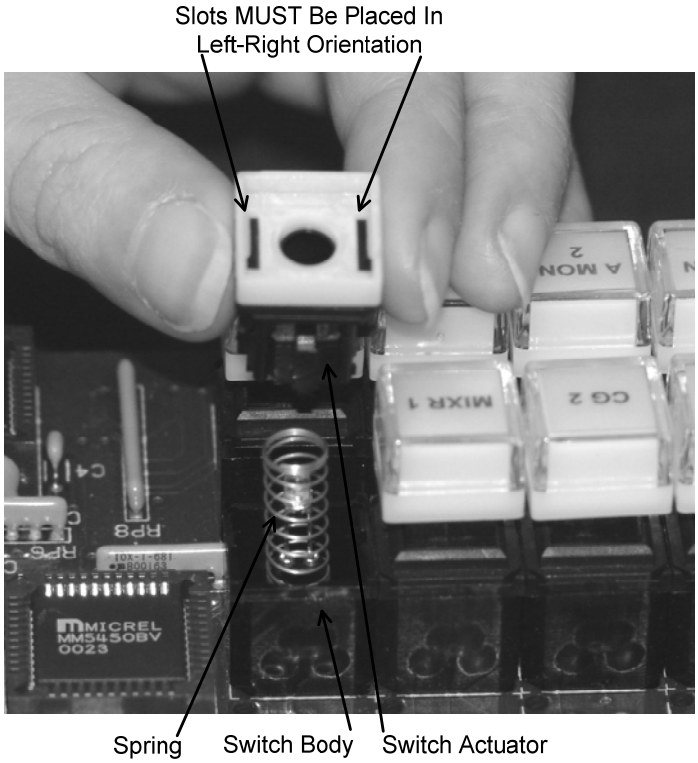


Figure 1-7 Switch Actuator Placement and Orientation

Inspect the switch actuator to insure that all edges are seated flush to the switch body. If an edge is raised, as shown in Figure 1-8, use a small screwdriver inserted through the slot as shown and gently press the edge into place.

Install the lens cap with the legend and diffuser in place onto the switch actuator and gently press until the cap snaps in place.

NOTE

It is essential that you align the tabs of the cap with the mating slots on the switch actuator. If the cap is installed otherwise, the tabs will cause the cap to bulge and not provide enough lateral clearance for the switch to freely press.

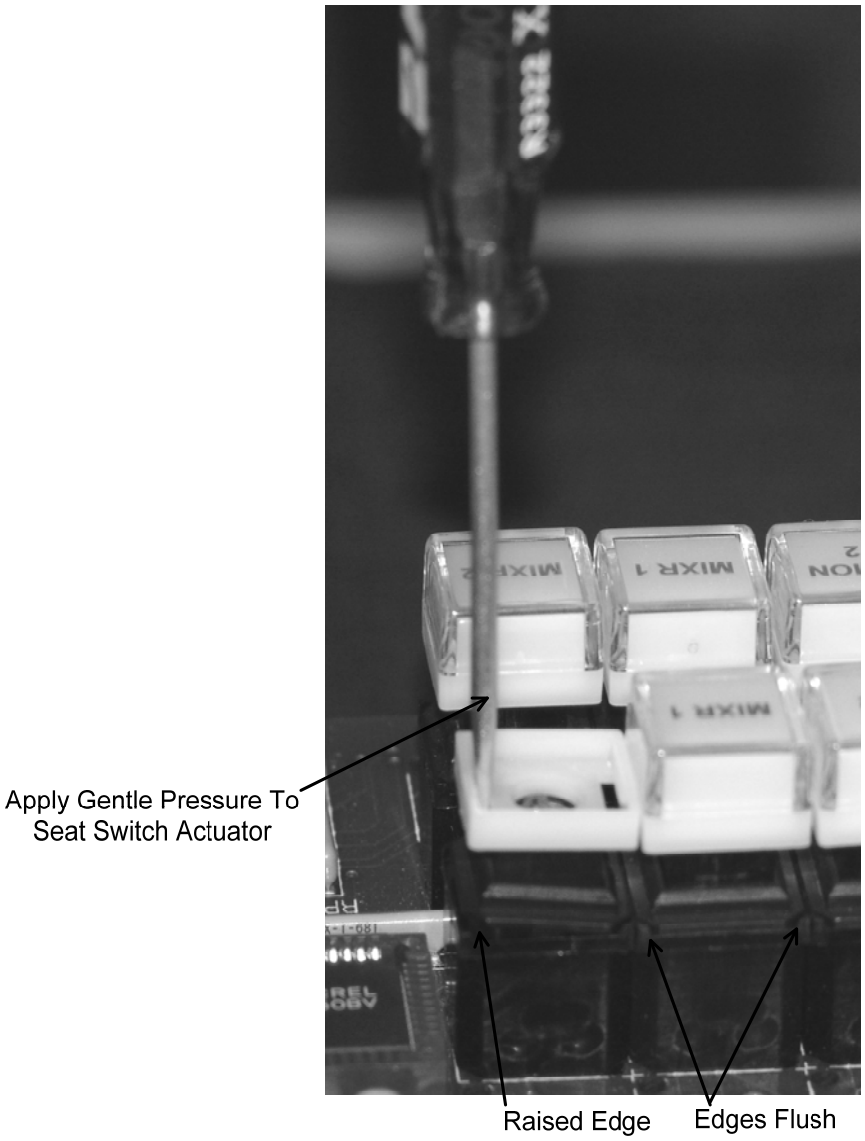


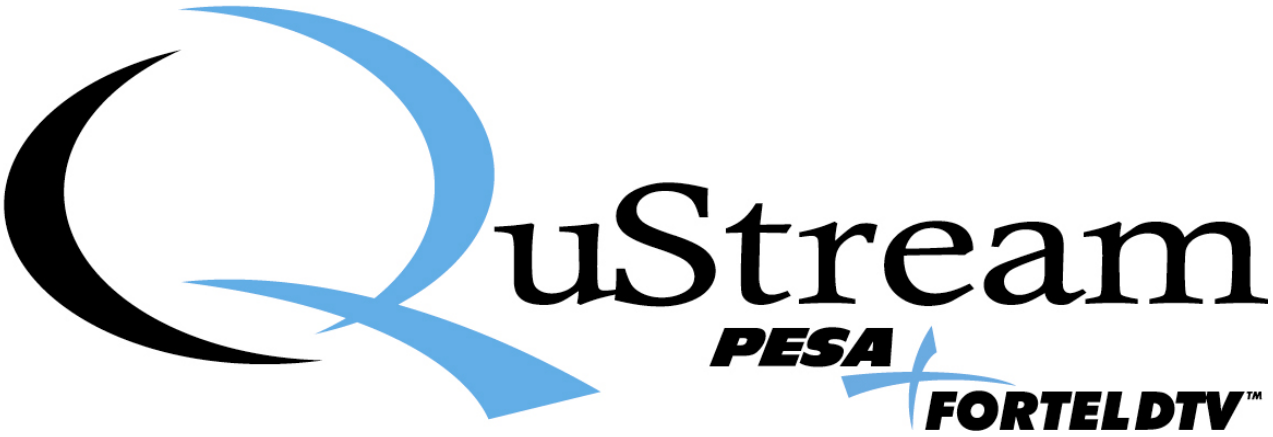
Figure 1-8 Seating Switch Actuator Edges

1.7 Final Assembly Steps

If you chose to remove the metal front cover from the remote control panel, reinstall the panel at this time and secure it with four screws, two each, on the top and bottom edges of the panel.

Sequentially press all panel buttons to ensure they all activate freely and do not “stick” when released.

Return the panel to the equipment rack and reinstall power and control bus cables.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