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TECHNICAL BULLETIN 12-A-33

CAPTIVE PUSHBUTTON, LED LIGHTED, SERIES 90
INSTALLATION OF TIE RETAINER CABLE PN: 15220

PURPOSE OF TIE RETAINER CABLE: TO PROVIDE A MECHANICAL CONNECTION BETWEEN A SERIES 90 SWITCH MODULE AND A LIGHT EMITTING DIODE (LED) LIGHTED PUSHBUTTON SO THAT WHEN PUSHBUTTON IS REMOVED FROM THE SWITCH MODULE IT WILL REMAIN SECURELY ATTACHED TO THAT SWITCH MODULE AND NOT BE INSTALLED IN SOME OTHER SWITCH MODULE BY MISTAKE.

SCOPE: TO PROVIDE INSTRUCTIONS FOR INSTALLING TIE RETAINER CABLES AT THE FACTORY (STACOSWITCH) OR IN THE FIELD. ALTHOUGH NO SPECIAL TOOLS ARE REQUIRED, TWEEZERS WOULD BE VERY HELPFUL.

PROCEDURE FOR INSTALLING THE TIE RETAINER CABLE IN A SWITCH WITH A LED LIGHTED PUSHBUTTON:

A. REMOVE PUSHBUTTON FROM SWITCH MODULE.

B. PER FIGURE 1, INSERT THE SMALLER END OF THE TIE RETAINER CABLE INTO THE HOLE IN THE SWITCH HEADER PLATE. THREAD IT ALL THE WAY THROUGH UNTIL THE SMALLER END EXTENDS ABOVE THE FRONT OF THE SWITCH HOUSING. (A STRAIGHTENED PAPERCLIP IS USEFUL FOR THIS OPERATION.)

C. PER FIGURE 2, PICK UP THE PUSHBUTTON ASSEMBLY AND INSERT THE SMALLER BEAD OF THE TIE RETAINER CABLE END-WISE INTO THE SLOT IN THE LAMPBOARD ASSEMBLY.

D. PER FIGURE 3, GRASP THE CABLE (WITH FINGERS) AND PULL THE CABLE SIDEWAYS SO THAT IT SLIPS BETWEEN THE RESISTOR BOARD AND THE BLACK PLASTIC INSULATOR. THERE IS A RAMP ON THE END OF THE PLASTIC INSULATOR TO FACILITATE THIS MANEUVER. ROTATE THE CABLE ON AROUND THE CORNER OF THE RESISTOR BOARD UNTIL IT LINES UP WITH THE SLOT IN THE RESISTOR BOARD.

E. PER FIGURE 4, PULL THE CABLE UP IN A DIRECTION PERPENDICULAR TO THE RESISTOR BOARD. THIS WILL ROTATE THE CABLE BEAD DOWN INTO THE RECESS IN THE PUSHBUTTON AND SECURE IT IN PLACE.

F. PER FIGURE 5, ORIENT THE PUSHBUTTON TO THE SWITCH MODULE AND SNAP IT INTO PLACE. WHEN INSTALLED CORRECTLY, THE TIE RETAINER CABLE WILL SLIDE UP AND DOWN WITHIN THE SWITCH MODULE AS THE PUSHBUTTON IS ACTUATED.

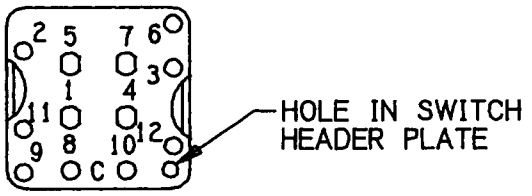

FIG. 1

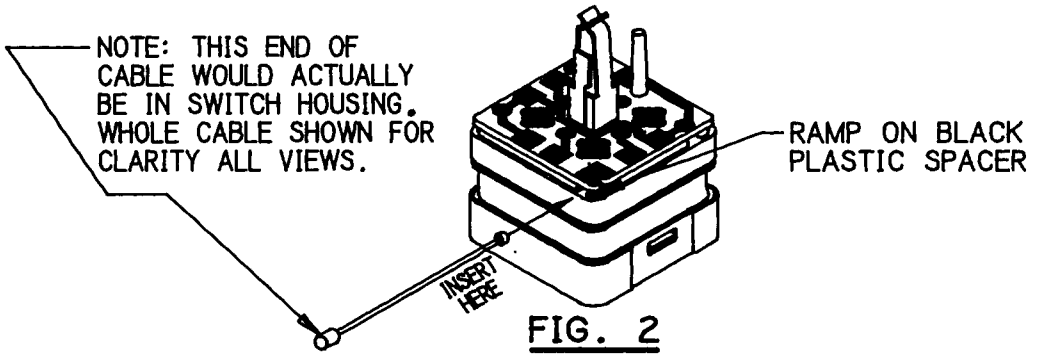

FIG. 2

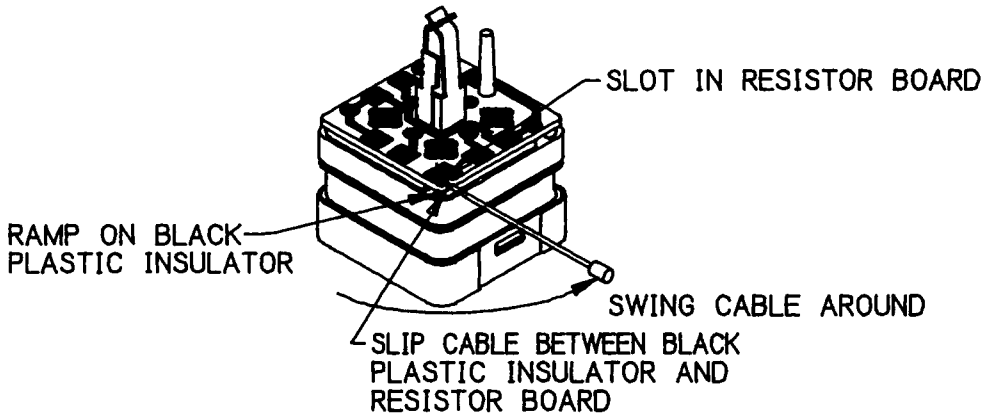

FIG. 3

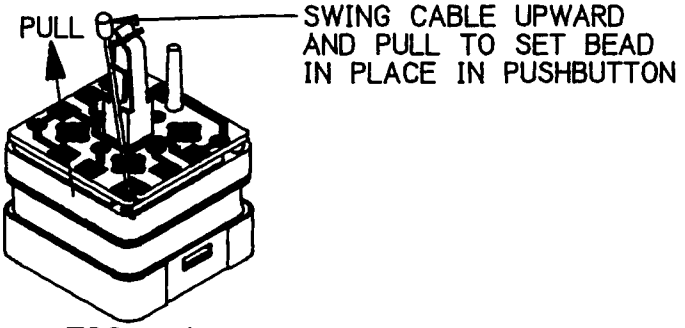

FIG. 4

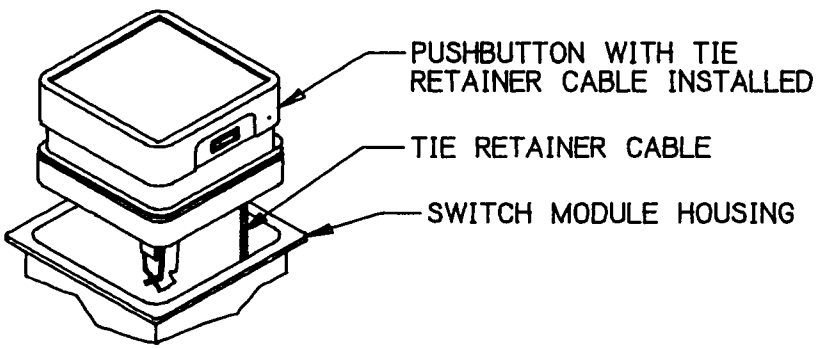

FIG. 5