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TECHNICAL BULLETIN TB-217 SOLDERING PROCEDURE FOR SERIES 90 / 100 SWITCH / INDICATOR ASSEMBLY

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PART NO.

TB-217

SHEET 1 of 5

TB-21

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Revision Log					
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1.0	ER-42764	K.NGUYEN			

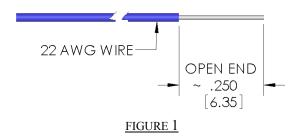
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12522	TB-217	1.0	2

PURPOSE:

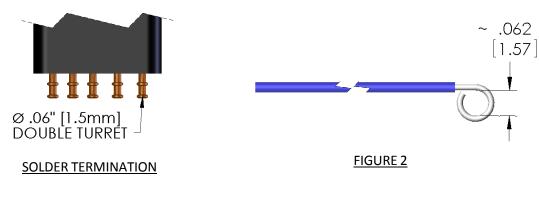
THE PURPOSE OF THIS TECHNICAL BULLETIN IS TO PROVIDE NECESSARY INSTRUCTIONS TO THE CUSTOMER FOR PROPER SOLDERING OF SERIES 90 / 100 SWITCH / INDICATOR ASSEMBLY.

PREPARATION

- A. REQUIRED MATERIALS:
 - 1. DOUBLE TURRETS SWITCH / INDICATOR ASSEMBLY.
 - 2. WIRE SIZE AMERICAN WIRE GAUGE (AWG) #22.
 - 3. FLUX.
 - 4. SOLDER.
 - 5. SOLDERING IRON TIP.
 - 6. SOLDER HOT POT.
- B. SWITCH/INDICATOR PREPARATION
 - 1. PRIOR TO THE SOLDERING, BE SURE TO CLEAN THE TERMINATION PINS AND SURROUNDING AREA WITH NON-ABRASIVE CLEANING BRUSH AND ALCOHOL.
 - 2. IT'S RECOMMENDED THAT THE SWITCH TO BE HELD ON THE Z-AXIS (OR VERTICALLY) OR X-AXIS (HORIZONTALLY).
- C. AMERICAN WIRE GAUGE #22 PREPARATION
 - 1. STRIP THE END OF THE 22 GAUGE WIRE TO APPROXIMATELY 0.25" [6.35MM] IN LENGTH. SEE FIGURE 1.



- 2. APPLY A DROP OF FLUX ONTO THE OPEN END' OF THE WIRE FROM ITEM C-1.
- 3. DIP THE 'OPEN END' OF THE WIRE ONTO SOLDERING HOT POT (QUICK DIP AND REMOVE IMMEDIATELY), OR APPLY SOLDER AROUND THE 'OPEN END' SURFACE OF THE WIRE.
- 4. LOOP THE 'OPEN END' OF THE WIRE INTO A CIRCULAR SHAPE WITH A DIAMETER SLIGHTLY LARGER THAN THE DIAMETER OF THE SOLDER PIN.

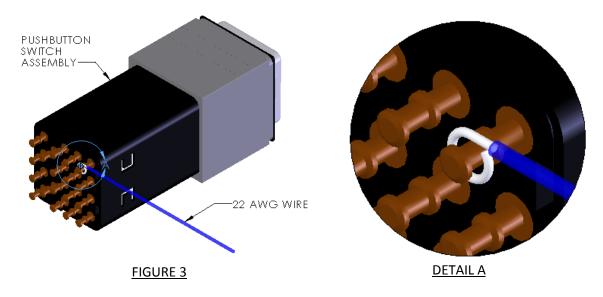


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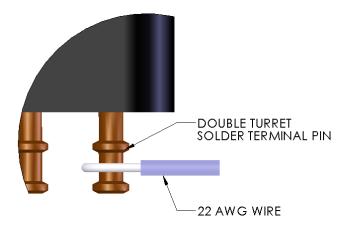
- D. PREPARATION FOR SOLDERING IRON TIP TEMPERATURE AND SOLDERING DURATION.
 - 1. SET SOLDERING IRON TIP TEMPERATURE TO BE APPROXIMATELY 700°F (MAX).
 - 2. TERMINAL CONTACT S TIME: 5 SECONDS MAX.

HAND SOLDERING PROCEDURE

1. HOLD THE CIRCULAR WIRE END FROM ITEM C-4 AROUND THE SOLDER PIN THAT NEEDS TO BE SOLDERED. SEE FIGURE 3 AND DETAIL A.



2. TO PREVENT ACCIDENTAL BURNT OR OVERHEATED OF THE SWITCH INSULATION BOARD, THE WIRE SHALL BE SOLDERED BETWEEN THE TURRETS. SEE FIGURE 4.



- 3. PLACE THE SOLDERING IRON ON THE SOLDER TO FORM THE REQUIRED HEAT BRIDGE AND WATCH FOR THE FLUX TO BUBBLE (THIS INDICATES THE BRIDGE IS MADE).
- 4. APPLY LIGHT PRESSURE ON THE SOLDERING IRON TIP TO THE SWITCH TERMINAL. NOW SOLDER SHOULD FLOW AROUND THE TERMINAL.
 - NOTE: BE SURE CONTACT SOLDERING TIME SHALL NOT EXCEED 5 SECONDS.
- 5. REMOVE THE SOLDER AND THE SOLDERING IRON SIMULTANEOUSLY FROM THE TERMINAL.

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NOTE: BE SURE THAT THE TIP IS CLEAN. A DIRTY TIP MAY NOT TRANSFER HEAT EFFICIENTLY; AND MAY REQUIRE A LONG DWELL TIME, AS WELL AS INCREASE PRESSURE. 6. USE A LIGHT BRISTLE BRUSH TO SKIM AWAY ANY EXCESS FLUX, SOLDER, OR DEBRIS DURING SOLDERING PROCESS. CAGE CODE PART NO. REV. SHT. TB-217 12522 1.0 5