Equipment Technical Bulletin

DR-2000: How to Clean Prime Switch Contact Area

PROBLEM

On older units, DR-2000 users are finding that the prime switch often fails. This problem is usually resolved by cleaning the prime switch contact area on the main PCB.

SOLUTION

Clean the prime switch contact area on the PCB following these steps:

1. If you are using line power, turn off power to unit.
2. Disconnect pump cartridge from unit by pressing the two black snap pins and turning them left or right.
3. Remove four black screws that hold cover assembly to unit.
4. Disconnect 6VDC power harness from cover assembly PCB. Cover assembly will now be free to work on separately from the DR-2000 unit.
5. Disconnect motor harness from PCB.
6. Carefully remove the four PCB mounting screws. Pull out PCB, taking care not to disrupt LCD display components. The LCD may slip out of cover with PCB. If it slips out, remove the LCD, zebra strips and retainer from board and place them back into cover assembly.

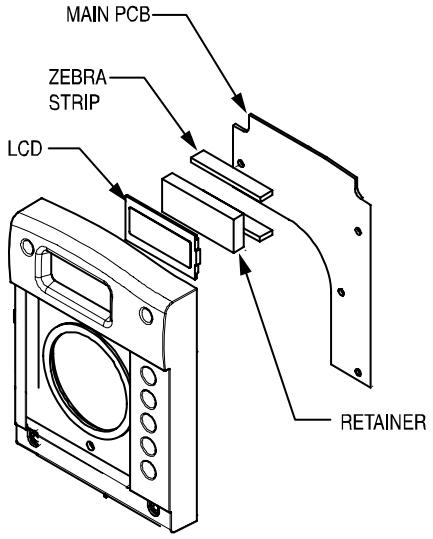

Figure 1. Cover Assembly with LCD Parts and Main PCB

7. Inspect PCB pad switch areas (S6, S7, S8, S9, and S10 on backside PCB) for any noticeable residue. The S7 pad is the prime switch pad.

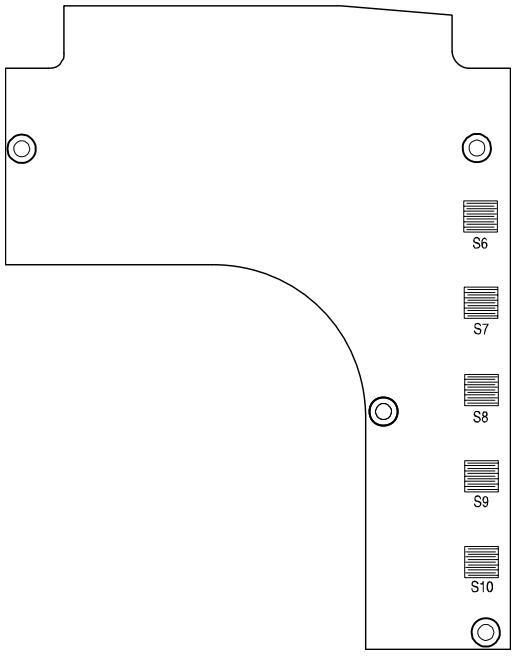

Figure 2. Backside of Main PCB

8. If you see any residue clean in the S7 area, clean it off with cloth using a small amount of rubbing alcohol.
9. Also inspect back of rubber switches (on the inside of the cover assembly) for any residue. If you see any, remove with clean cloth but do not use alcohol on rubber.
10. Reassemble PCB into cover with screws. Make sure to use the two longer screws near the display to secure PCB.
11. Reconnect pump cartridge.
12. Reconnect harness from power supply and reassemble remaining items. Prime function should now be restored.