MODEL K-002D0776
Charging Circuit Board Replacement Kit for FDO, FDC and FDCL

REMOVE AC AND DC POWER

1. Disconnect AC power to the operator.
2. Open operator cover.
3. Remove DC power by disconnecting the battery connection.

INSTALL NEW CHARGING CIRCUIT BOARD (CCB)

NOTE: *This section references Figure 1 only.*

1. Remove the existing charging circuit board from the mounting posts. ***NOTE:*** *On circuit boards with plastic standoffs, be careful not to detach the standoffs from the chassis. On circuit boards with metal standoffs, see instructions on reverse side to add new plastic standoffs provided with this kit.*
2. Disconnect red wire from J3 on the existing charging circuit board and connect to J3 on the new charging circuit board.
3. Disconnect red wire from J5 on the existing charging circuit board and connect to J5 on the new charging circuit board.
4. Disconnect blue wire from J7 on the existing charging circuit board and connect to J7 on the new charging circuit board.
5. Disconnect red wire from J4 on the existing charging circuit board and connect to J4 on the new charging circuit board.
6. Disconnect black wire from J6 on the existing charging circuit board and connect to J6 on the new charging circuit board.
7. Disconnect white wire from J2 on the existing charging circuit board and connect to J2 on the new charging circuit board.
8. Disconnect white wire from J1 on the existing charging circuit board and connect to J1 on the new charging circuit board.
9. Place the new charging circuit board on the mounting posts.

APPLY POWER AND TEST

- Reconnect the battery power. The alarm should provide a 5 second notification. If alarm does not activate, disconnect power and check battery connections as shown in Figure 2.
- Restore power. Allow 3 minutes for the system to stabilize. The alarm may sound for the first minute. The alarm should remain off after 3 minutes.

TEST CHARGING CIRCUIT BOARD

Test procedure should be conducted to verify charging circuit is properly installed.

1. Pull red wire off of J13 of the logic board and meter for 27.3 - 27.8Vdc versus terminal #15 of the logic board. Replace the loose red wire on J13 of the logic board (Figure 3).
2. Conduct a battery load test by making contact from terminal #6 to #7 of the logic board six times within ten seconds (Key Test).
3. Meter again between the red wire from J13 and terminal #15 of the logic board for a voltage dropping from the reading taken in step 1. An example might be 27.5Vdc was read in the first step and a slow but steady decline from 27.5Vdc is observed under load.
4. Close operator cover.

⚠ WARNING

To prevent possible SERIOUS INJURY or DEATH from electrocution or fire, BEFORE proceeding:
- Disconnect AC power at the fuse box.
- Disconnect DC power at the battery connection.

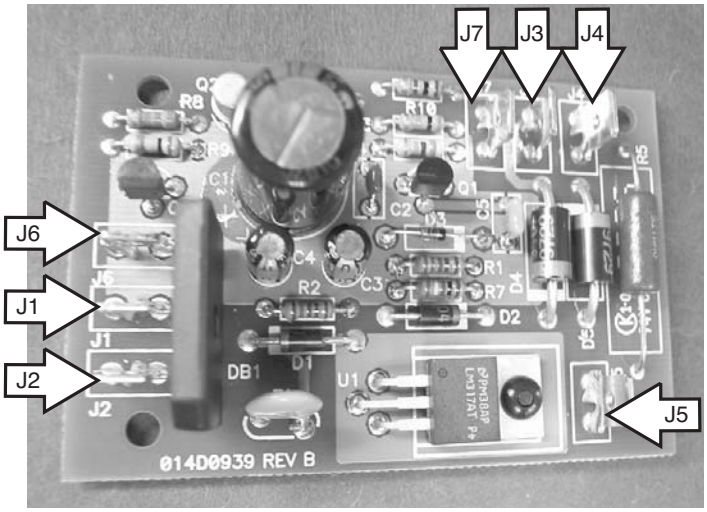

Figure 1

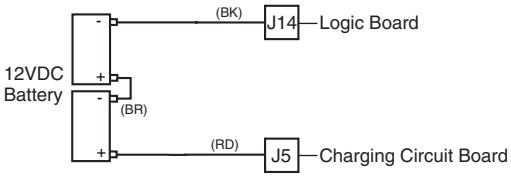

Figure 2

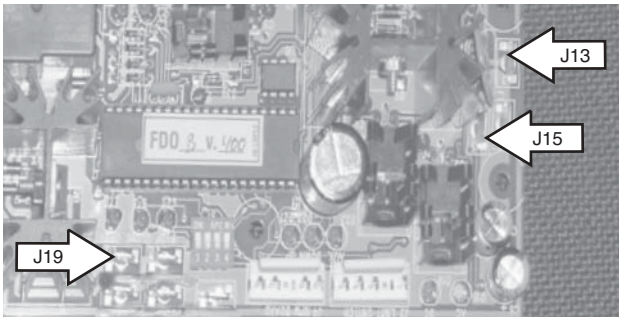

Figure 3

MOUNT CHARGING CIRCUIT BOARD

1. Clean the intended location of the charging board standoffs with alcohol prep pad (Figures 4-6). ***NOTE:*** *This area must be clean for the standoff adhesive pads to be firmly affixed.*
2. Mount the plastic standoffs provided to the Charge Circuit Board leaving the adhesive strip covers on the standoffs.
3. Remove the strips from the standoffs. Attach the charging circuit board to the location indicated.
    a. FDC and FDOB operators reference Figure 4
    b. FDCL Operators reference Figures 5 and 6
4. Apply pressure to the charging circuit board for 10 to 20 seconds to ensure that the adhesive bonds to the metal.

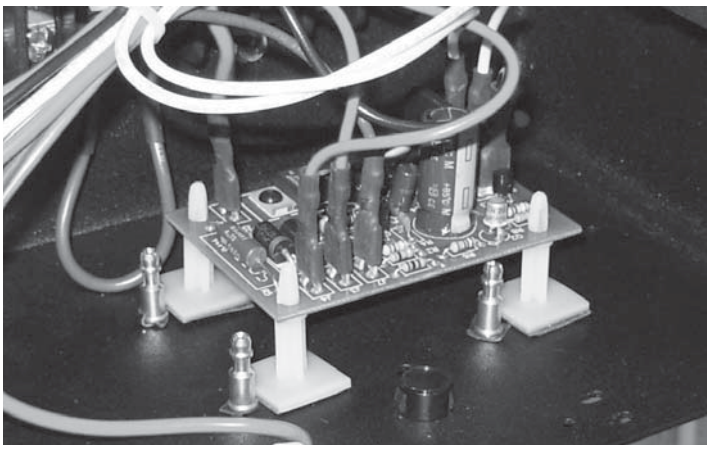

Figure 4

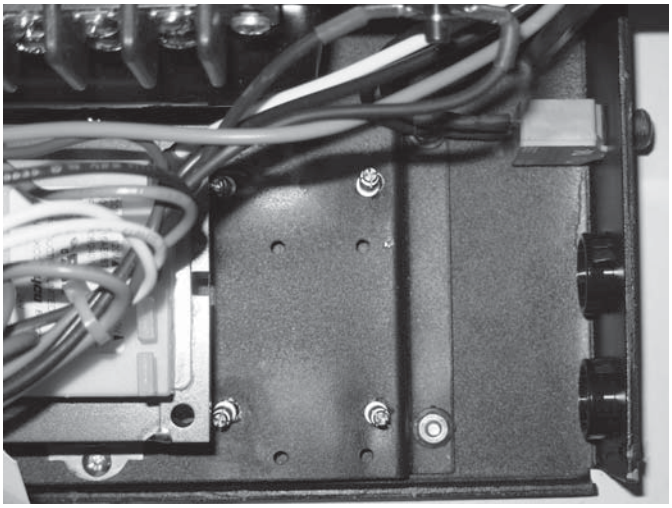

Figure 5

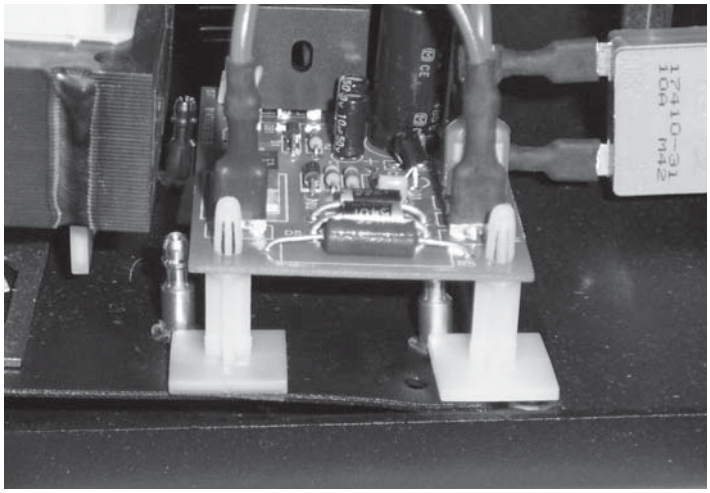

Figure 6