Procedure 6.3 - Upper Display Does Not Illuminate

Warning
Hazardous voltages will be tested in the following procedure. Exercise extreme caution when performing these procedures. Do not connect or disconnect any wiring, connectors or other components with power applied to the treadmill.

1. Disconnect the line cord from the AC wall outlet. Using an AC voltmeter, verify that the proper AC voltage is present at the wall outlet. Nominal 120 Vac may vary between approximately 105 Vac and 135 Vac. Nominal 240 Vac may vary between approximately 195 Vac and 245 Vac. If the AC voltage is missing or incorrect, check the AC service or consult an electrician.

2. Set the circuit breaker in the ìoffî position. Plug the treadmillís AC line cord into the AC wall outlet. Using an AC voltmeter, check the line cord between the blue and brown wires for the appropriate AC voltage (as tested in step 1). If the AC voltage is missing or incorrect, replace the line cord.

3. Set the circuit breaker in the ìonî position. Using an AC voltmeter, check between the AC input terminals of the line filter. The AC voltage should read as in step 1. If the AC voltage is missing or incorrect, replace the circuit breaker or the wiring between the circuit breaker and line filter as appropriate.

4. Using an AC voltmeter, check between the AC input terminals of the lower PCA (terminals 1 & 2 of P4). The AC voltage should read as in step 1. If the AC voltage is missing or incorrect, replace the line filter or the wiring between the circuit breaker an lower PCA, as appropriate.

5. Remove the fuse from the lower PCA. Using an ohmmeter, check the fuse for continuity. It should read 1Ω or less. If the fuse is open or reads significantly higher than 1Ω replace the fuse. If the upper display still does not illuminate continue with the next step.

6. Using an AC voltmeter, measure between terminal 4 (White) and terminal 7 (Blue) of P3. The AC voltage should read as in step 1. If the AC voltage is missing or incorrect, replace the lower PCA.

7. Using an AC voltmeter, measure between terminal 5 (Green) and terminal 6 (Yellow) of P3. The AC voltage should read approximately 12 Vac. If the voltage is missing or incorrect, replace the transformer.

8. Using an AC voltmeter, measure between terminal 1 (Red) and terminal 2 (Black) of P3. The AC voltage should read approximately 6 Vac. If the voltage is missing or incorrect, replace the transformer.

9. Refer to block diagram 8.2 and note the ribbon cable connections for ì+6Vî and ìgroundî. Set treadmill circuit breaker in the ìoffî position. Remove the upper PCA from the display housing. With the ribbon cable still connected, set the upper PCA on an insulated surface. Set circuit breaker in the ìonî position. Using a DC voltmeter, measure the voltage between the ì+6vî and ìgroundî connections on the ribbon cable connector on the upper PCA. The voltage should read approximately 6 Vdc ± 0.5 Vdc. If the voltage is correct, replace the upper PCA. If the voltage is missing or incorrect, continue with the next step.

10. Set the circuit breaker in the ìoffî position. Remove the ribbon cable from the upper PCA. Set the treadmillís circuit breaker in the ìonî position. Check the 6 Vdc voltage (as in step 5) on the ribbon cable connector. If the voltage is correct, replace the upper PCA. If the voltage is missing or incorrect, continue with step 7.

11. Set the circuit breaker in the ìoffî position. Remove the ribbon cable from the lower PCA. Set the treadmillís circuit breaker in the ìonî position. Check the 6 Vdc voltage (as in step 5) on the lower PCA ribbon cable connector. If the voltage is correct, replace the ribbon cable. If the voltage is missing or incorrect, replace the lower PCA.

12. If you have performed all of the above procedures and are unable to resolve the problem, contact Precor customer support.