Procedure 6.3 - Upper Display does not Illuminate (C556 Navy, only)

1. Because this is self powered unit, the display will not illuminate until it is used or the option external power supply is equipped. If the optional external power supply is equipped, the display should be constantly illuminated. If the optional external power supply is not equipped, the unit must be used at a stride rate of 40 strides per minute or higher for the display to illuminate.

2. If the optional external power supply is not equipped, skip to step 5.

3. Disconnect the optional external power supply from the EFX and measure between the inner and outer sleeves of the power supply's output jack with a DC voltmeter. You should measure approximately 18 VDC.

4. If the voltage measured in step 3 was significantly low, replace the optional external power supply. If the voltage measured in step 3 was 0 Vdc, disconnect external power supply from its AC outlet and measure the voltage at the AC outlet. If the AC outlet voltage is normal replace the optional external power supply. If the AC outlet voltage is significantly low or 0 Vdc, the AC system must be inspected by an electrician.

5. Troubleshoot the generator per Procedure 6.5 (C556 Navy) or Procedure 6.6 (C556i Navy).

6. If the generator was found to be good, the problem will be in either the lower PCA, upper PCA or the upper to lower PCA interconnect cables.

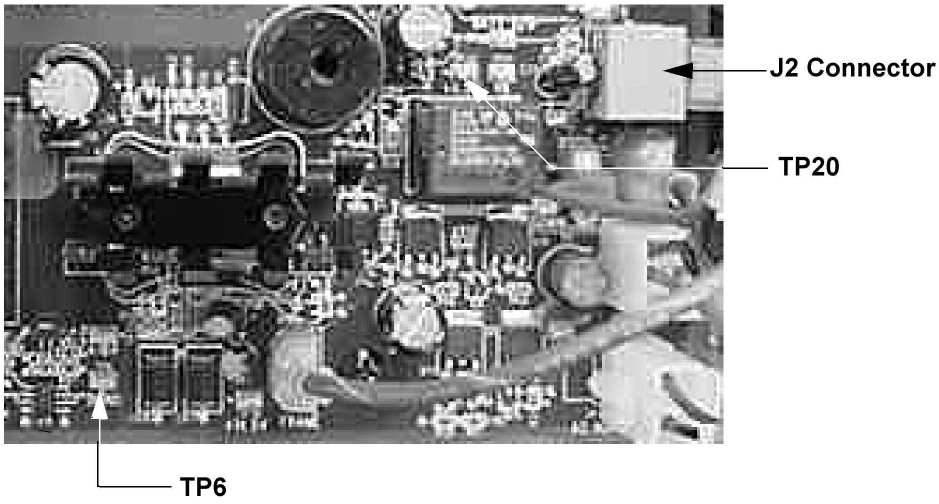
Warning
Because this is a self powered unit, it will either be necessary to either equip the unit with the optional external power supply or have an assistant pedal on the unit while voltage measurements are being taken. Because of the danger of working on the unit while it is in motion using the optional external power supply is strongly recommended.

7. Remove the rear cover and disconnect the interconnect cable from the J2 connector of the lower PCA.

8. The following voltage reading must be taken while the unit is in motion. Extreme care must be taken to keep meter leads, hands, etc. clear of all moving parts. Using a DC voltmeter, measure the voltage between pins 1 and 8 of the J2 connector or between TP20 and TP6. See Diagram 6.3. The voltage measured should be approximately 8.5 Vdc. If the voltage is significantly low, replace the lower PCA.

9. Reconnect the interconnect cable to the J2 connector of the lower PCA and repeat the voltage measurement in step 8. The voltage measured should be approximately 8.5 Vdc. If the voltage is significantly low, the problem is in the upper PCA or the upper to lower PCA interconnect cables.

Diagram 6.3 - Partial View of Lower PCA



10. Troubleshoot the upper to lower PCA interconnect cables per Procedure 6.1.

11. If the upper to lower interconnect cables are found to be good, replace the upper PCA.

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