



TELEDYNE INSTRUMENTS

Advanced Pollution Instrumentation

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Service Note

95-029 Rev B
2 May, 2007

M100A/M200A/M700 POWER SUPPLY MODULE SWITCH CARD REPLACEMENT

Scope: Replacement of the switch card in the failed power supply module.

Parts: API part number 01206, Power Supply Switchboard

Tools:

1. Phillips head screwdriver
2. Wire cutters

Procedure:

1. Turn the power off.
2. Remove the power cord from the unit.
3. Remove the screws holding the PSM (Power Supply Module) to the chassis.
4. Disconnect all of the electrical connectors from the PSM.
5. Remove the PSM from the unit.
6. Remove the screws holding the PSM cover and take the cover off.
7. Remove the gray safety cover.
8. Take a look at how the switch card is attached to the PSM wall.
9. There are four standoffs (you can see one of them on the left side of J5 switch card behind the small power supply corner) which are holding the switch card attached to the PSM wall.
10. To release the switch card from the PSM, you need to lift it up so the head of the standoff moves to the bigger hole and pull it away from the PSM wall.
11. It can take some more effort to lift the switchboard up.
12. After you released the board, please remove the connectors. NOTE: Please be careful while removing the connectors J5 and the connectors from the power supply which sits on the switch card. These connectors are not keyed, therefore, please observe carefully how they are connected so you can reconnect them later.
13. Remove J2 connector with the red MOV's.
14. Take the Phillips head screwdriver and remove four screws which are holding the small power supply module to the switch card. Make sure you do not lose the spacers, if your PSM has some. Service Note 95-029

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15. Take another switch card (new one). Attach the small power supply module, connectors, gray safety cover and install it into the power supply module. Please be very careful reconnecting the connectors. Failure to connect the connectors correctly can cause damage to the unit.
16. Reinstall J-2 connector with the MOV's.
17. Install the power supply module back into the unit.
18. If you need any assistance, please do not hesitate to contact customer service at 1-800-324-5190.