



**98-031 REV B  
2 May, 2007**

## **INSTALLING THE API KIT 21 (SWITCH CARD FOR “A” STYLE PSM’S)**

### **I. Scope:**

To guide the customer through installing the KIT 21 into API analyzers.

### **II. Tools Required:**

- A. Phillips head screwdriver.
- B. #6 nut driver.

### **III. Parts:**

- A. API KIT 21

### **IV. Procedure:**

- A. Remove power from the analyzer and remove the cover from the analyzer.
- B. Disconnect the following connectors from the front of the PSM: P2, J6, J8, J10, J9, & J11.
- C. Remove the four screws from the bottom of the analyzer and remove the PSM from the analyzer.
- D. Remove the four screws from the top of the PSM and remove the cover.
- E. Remove the one Phillips head screw from the outboard side of the PSM (if installed)
- F. Remove all of the electrical connectors from the switch card (the outboard card in the PSM).
- G. Slide the switch card up a little bit and then inboard to come off of the keyhole slots in the switch card.
- H. Lift up and forward. There will be a small four pin Molex connector on the rear of the switch card that supplies power to the cooling fan in the rear of the PSM. Disconnect this connector and pull up on the card until you see the last connector. Disconnect this connector and remove the card from the PSM.
- I. Lay the card flat onto the work bench so that the 15 VDC switcher is facing up.
- J. Remove the four screws that hold the switching power supply from the metal plate.

- K. Lay the old switching power supply onto the switching plate of the new switch card and put the four screws back in.
- L. Connect the switching power supply back onto the switching card (J1 on the switch card).
- M. Installation is reverse of removal.

**Remember to hook up the small four-pin connector to the rear of the switch card. If you don't, the fan will not have power and the analyzer will not have any cooling.**

- N. Make sure all of the connectors are hooked up.
- O. Plug in the analyzer and turn it on.
- P. Ensure that all of the temps are correct and check to make sure the DCPS is  $2500 \pm 100$  mV.
- Q. Place your hand on the rear of the analyzer and make sure that the fan is blowing OUT. If it is not blowing then remove the cover of the PSM and check to make sure that the fan is hooked up.

Should you have any questions please feel free to contact the customer service department.

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