



**06-013A
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Differences in Power Supply Connectors

I. PURPOSE:

The following procedure lists the differences in connectors for the switching power supplies in the "E" series instruments. Because the suppliers and vendors of the power supplies occasionally change the layout of various components on the circuit boards, the connectors are sometimes placed "upside down". This instruction will call out how connector sets are to be matched together.

II. TOOLS and EQUIPMENT:

#1 or #2 Phillips screwdriver
Slot head screwdriver
Multimeter, DVM, or similar

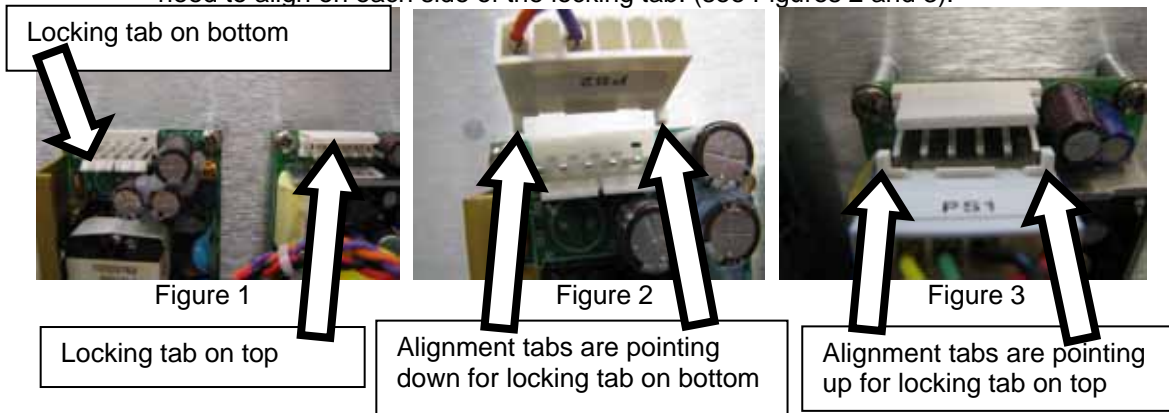
III. PARTS and MATERIALS:

PS0000037 PS, 40W SWITCHING, +5V, +/-15V(KB)
PS0000038 PS, 60W SWITCHING, 12V(KB)
Similar Power Supplies used in Teledyne-API Instruments

III. PROCEDURE:

Warning, the connector may be forced on the wrong way and break the tabs, and if power is applied, the analyzer electronics will be damaged.

1. If you are replacing one of the power supplies, observe the output connectors for which way the locking tab is oriented. It can be above the electrical pins (on top), or below the pins (on bottom). (see Figure 1)
2. For the new power supply that you are about to install, observe where the locking tab is located in relation to the electrical pins (top or bottom).
3. If the orientation is different, when installing the new power supply, you must simply turn the connector (and wires) over to plug the connector back on to the new board.
4. There is also another protection from accidentally connecting the wrong way. There is additional keying on the connector set besides the locking tab. There are 2 alignment tabs on the connector that the wires are terminated into. These 2 tabs need to align on each side of the locking tab. (see Figures 2 and 3).



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06-013 Rev A

Page 1 of 1