

S E R V I C E N O T E

SUPERSEDES: NONE

6813B AC Power Source/Analyzer

Serial Numbers: US38390285 / US38390299
US38390302 / US38390304
US38390306

Possible Intermittent Cable Assembly

Duplicate Service Notes: none

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part Number	Description	Quantity
5081-4971	Cable Assembly, 3 wire.	1
1400-0307	tie-wrap (for 6813B option 020)	1

Situation:

A cable assembly that connects the A10 Control assembly to the A7 inverter assembly might have over-crimped contacts. The over-crimping can cause one or more of the 7 wire strands in each conductor to break off eventually causing a possible intermittent or open connection. Under certain conditions the A7 inverter assembly could be damaged. It was determined that the problem is isolated to cables with date code 11/11/99.

Continued

DATE: February 2000

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR 1.0 Hours
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input checked="" type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
		USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: February 2000	
AUTHOR: PS	ENTITY: 2100	ADDITIONAL INFORMATION:	



Solution / Action:

1. With the AC input power removed from the 6813B, follow the service manual procedure to remove the Top Cover (outer) and the Inner Top Cover.
2. Find the A10 control assembly on the right side of the 6813B (facing the front panel). It is the outer most circuit board. (see fig. 4-12 in the service manual)
3. The cable to be checked is connected to A10J828. J828 is the second connector from the top at the end of the A10 assembly closest to the rear panel (see fig.6-18 sheet 2 of 2). The cable is routed over the top of the A11 Trigger assembly. If date code 11/11/99 is on the plastic sleeve, replace the cable.
4. For a 6813B option 20, the cable can be carefully pulled through an opening below the A11 Trigger assembly on the right side of the unit. If the date code is 11/11/99, replace the cable using step 5 below.
5. Replacing the cable in a 6813B option 20: The A13 AC Sense assembly, which is mounted above the A11 assembly, must be removed to gain access to the cable end that attaches to the A7 inverter assembly. Remove the 2 screws on the rear panel and the single screw attached to the long standoff holding the A13 in place. Carefully slide the A13 forward and turn it over to expose the connections to it. It might be necessary to remove some or all connections so it can be placed to one side. Note the routing of the cable to be replaced and other cables in this area. Cut the tie-wrap that holds the cables to the A11 assembly and remove the suspect cable. Install the new cable and route it as noted earlier. Tie-wrap the cables to the A11 as before. Re-connect the cables to the A13 and re-install it.
6. Re-install the inner and outer top covers and functionally test the AC Source whether or not the cable assembly was replaced.