

S E R V I C E N O T E

SUPERSEDES: 6643A-01A
 "01B" adds ending serial number

6643A System DC Power Supply

Serial Numbers: 3142A00101 / 3236A00435

Relay Link does not operate or occasionally produces error -240

Duplicate Service Notes:

- 6651A-02B
- 6652A-02B
- 6653A-02B
- 6654A-02B
- 6655A-02B
- 6641A-01B
- 6642A-01B
- 6643A-01B
- 6644A-01B
- 6645A-01B
- 6671A-01B
- 6672A-01B
- 6673A-01B
- 6674A-01B
- 6675A-01B

To Be Performed By: Agilent-Qualified Personnel

Parts Required: None

Continued

DATE: 18 October 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	Labor 1.0 Hour
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input 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
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: DF	ENTITY: 2100	AGILENT RESPONSIBLE UNTIL: January 1996	
		ADDITIONAL INFORMATION:	

Situation:

The relay link configuration to drive the Relay units 59510A and 59511A does not operate due to Capacitor C138 on the Revision B, A2 GPIB board attenuating the digital readback signal from the relay unit. A relay command sent to the supply will cause a power supply error -240 (Hardware error). The previous Service Note (6655A-02) changed the value of A2 C138 and R134. This change improved the supplies performance but it would still occasionally produce the error.

Solution/Action:

When configuring the supply for relay operation, in addition to moving the GPIB board jumper (A2 J106), you must remove the capacitor A2 C138. This Cap is located at D118 position in the Revision A PC board layout drawing in the service manual.

After removing C138, check that the supply passes self test, accepts GPIB commands and passes the verification test in the operating manual. If either of the relay units, 59510A or 59511A are available, check the Digital Port operation in the Relay Link mode as described in Appendix D of the operating manual.

If a relay unit is not available, test Remote Inhibit by shorting pin 3 to 4 of the Digital Control Port. The Protect annunciator on the display will come on.

Press the Protect key and the display will read "-- -- -- RI"