S E R V I C E N O T E

SUPERSEDES: NONE

E1685A DS3 Transceiver

Serial Numbers: 0000U00000 / 9999U99999

Fuse Replacement on the Series 95

To Be Performed By: Agilent Qualified Service Personnel

Situation:

The normal repair strategy on the E1685A is module exchange, however all failed modules should be checked for fuse failures as they can be easily repaired on-site by qualified Service Personnel.

Solution/Action:

This procedure documents how to replace the on-board fuses in the E1685A DS3 Transceiver module. The E1685A has fuses associated with each DC supply as described in the following table:

Fuse Identifier	DC Supply Line	Agilent Part Number
F1 (1A)	+12V	2110-0665
F2 (5A)	+5V	2110-0699
F3 (0.5A)	-12V	2110-0716
F4 (3A)	-5.2V	2110-0688
F5 (1A)	-2V	2110-0665

Continued

DATE: January 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ■ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: LABOR 1.0 Hours			
LOCATION CATEGORY:	■ CUSTOMER INSTALLABLE ☐ ON-SITE ☐ SERVICE CENTER	SERVICE INVENTORY:	☐ RETURN ☐ SCRAP ☐ SEE TEXT	USED PARTS:	☐ RETURN ☐ SCRAP ☐ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: November 2004			
AUTHOR: JMW	ENTITY: E610	ADDITIONAL INFORMATION:			

Agilent Technologies

Some important notes on servicing the E1685A.

Ensure all static handling guidelines are observed when servicing the module and that work is performed at a suitable static protected workbench.

Access to the E1685A is obtained by removing the right cover. The main board assembly containing the fuses is located component side up underneath a piggy-back or auxiliary board. The auxiliary board has a 96-way interconnection to the main board so care must be taken when removing this board.

Replacing the fuses

1. Loosen the three torx screws (size 8) on the front panel that secure the front panel to the right cover. It is necessary only to loosen the screws to about 1/2 way, it is not necessary to remove the screws.

2. Remove all the torx screws (size 10) that secure the right cover and remove the cover.

3. Remove the torx screws (size 8) that secure the auxiliary board assembly to the main board assembly. Do not separate the boards - yet.

4. Carefully lift the auxiliary board from the main board, taking care to slowly separate the 96-way interconnect between the two boards.

5. Once separated lay the auxiliary board to the side.

6. Remove the hexagonal posts that secure the main assembly to the chassis, taking note of where the holes in the main board that the posts are located, for easy re-assembly.

7. Remove the screws from the top and bottom edge connectors on the main board.

8. Remove the coax cables coming from the front panel to the main board assembly. Label each cable for easy re-connection. Withdraw the main board from the module chassis.

9. Locate components F1 to F5 on the main board. These are located at the right of the component side of the board between the two 96-way edge connectors.

10. Using a suitable multi-meter, check the continuity of each fuse in turn.

11. Unsolder and replace any defective fuses.

12. To reassemble the module, perform steps 1-8 in reverse.

Note:

Special care should be taken when re-assembling the 96-way inter-connect.

End of procedure.