S E R V I C E N O T E

SUPERSEDES: None

6842A AC Power Source / Analyzer

Serial Numbers: 0000A00000 / 9999A99999

False Tripping of Peak Current Limit Circuit

Duplicate Service Notes:
6813A-07
6842A-02

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part No.	Description
0757-0460	Resistor 61.9K (A3R247)
0757-0458	Resistor 51.1K (A3R250)
0757-0446	Resistor 15.0K (A3R253)
0698-3432	Resistor 26.1 (A3R256)

Continued

DATE: August 1996

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ■ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: Labor 2.0 Hour	
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: August 1998	
AUTHOR: BH	ENTITY: 2100	ADDITIONAL INFORMATION:	

Agilent Technologies

Situation:
The AC FET assembly peak current limit circuits may cause premature tripping, shut-down, of the AC source. If the AC source is configured for 200 volt input operation and the input mains are at low line conditions, 174 volts, and output is operating near full power some 6813As may signal a ‘rail fault’. A ‘rail fault’ will activate the protection circuits and the AC source output will be disabled.

Solution/Action:
The AC FET assembly peak current limit circuit is re-adjusted for 174 volt low line input conditions at full power output. To re-adjust the A3 AC FET assembly change the following resistors. See figure 6-6 in service manual 5962-0859 for location of resistors.

- Change A3 R247 to part number 0757-0460 61.9K ohms 1%
- Change A3 R250 to part number 0757-0458 51.1K ohms 1%
- Change A3 R253 to part number 0757-0446 15.0K ohms 1%
- Change A3 R256 to part number 0698-3432 26.1 ohms 1%