

S E R V I C E N O T E

SUPERSEDES: NONE

6653A 500W General Purpose Power Supply

Serial Numbers: See below

Bridge Rectifier Failure**Duplicate Service Notes:**

6653A-07 Serial Number: US000000000 / US36401180

6553A-04 Serial Number: US000000000 / US36340337

To Be Performed By: Agilent-Qualified Personnel**Parts Required:**

P/N	Description	Quantity
5064-0143	Diode Svc Kit	1

Situation:

There have been a number of failures in the field. A diode bridge on the main board was found to be the cause of the problem. The input surge was found to be close to the rating of that bridge.

Continued

DATE: December 1999

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: End of Support Life		
AUTHOR: FJP	ENTITY: 2100	ADDITIONAL INFORMATION:		



Solution / Action:

To remedy this situation, a diode heat sink assembly will replace the diode bridge that continues to fail. The procedure for replacing these units can be found in the paragraphs below.

Procedure:

1. Follow disassembly procedures in the troubleshooting section of the service manual.
2. Remove the rear panel and main board of the power supply. This may require disconnecting wires and telephone style links.

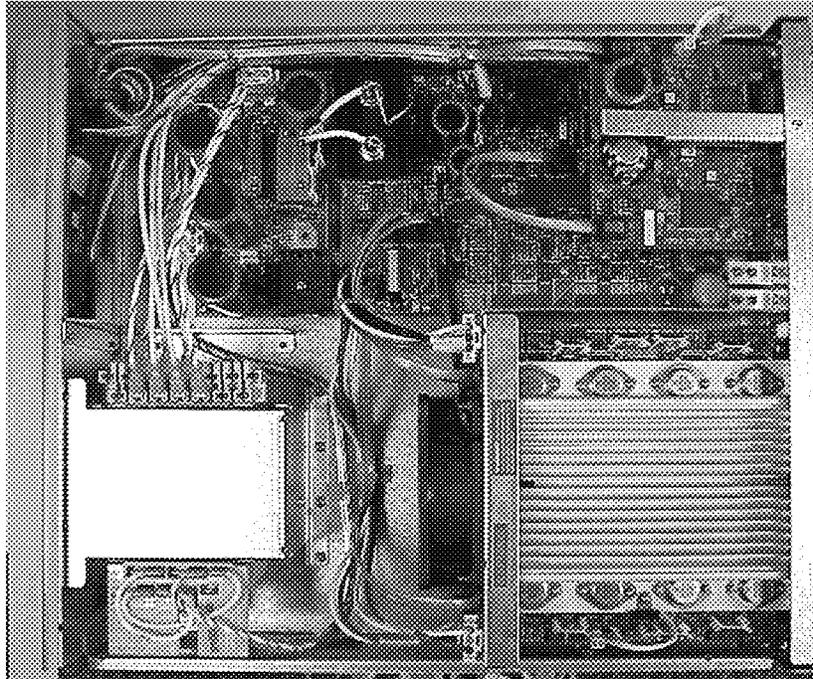


Figure 1. Topview

3. With a pair of wire cutters, snip the leads of the bridge on the main board. (See Figure 2a and 2b.) It is not necessary to remove the remaining leads from the board. Please inspect the board to check for any shorts.

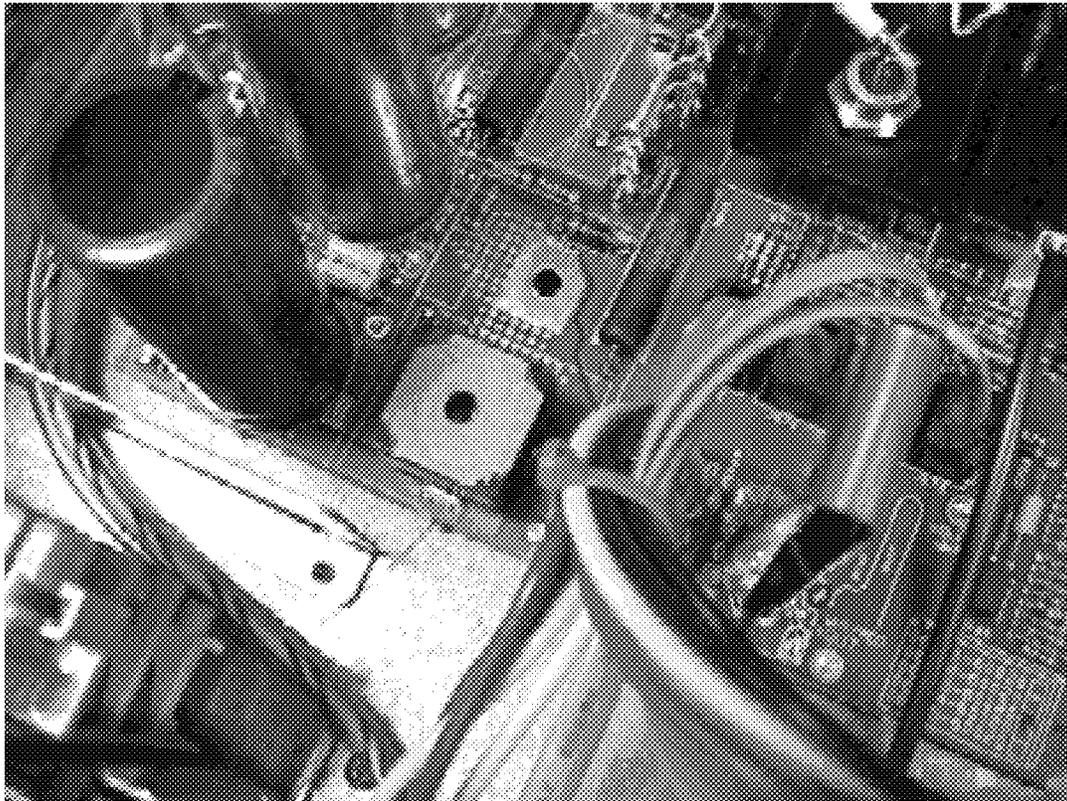


Figure 2a. Diode Assembly

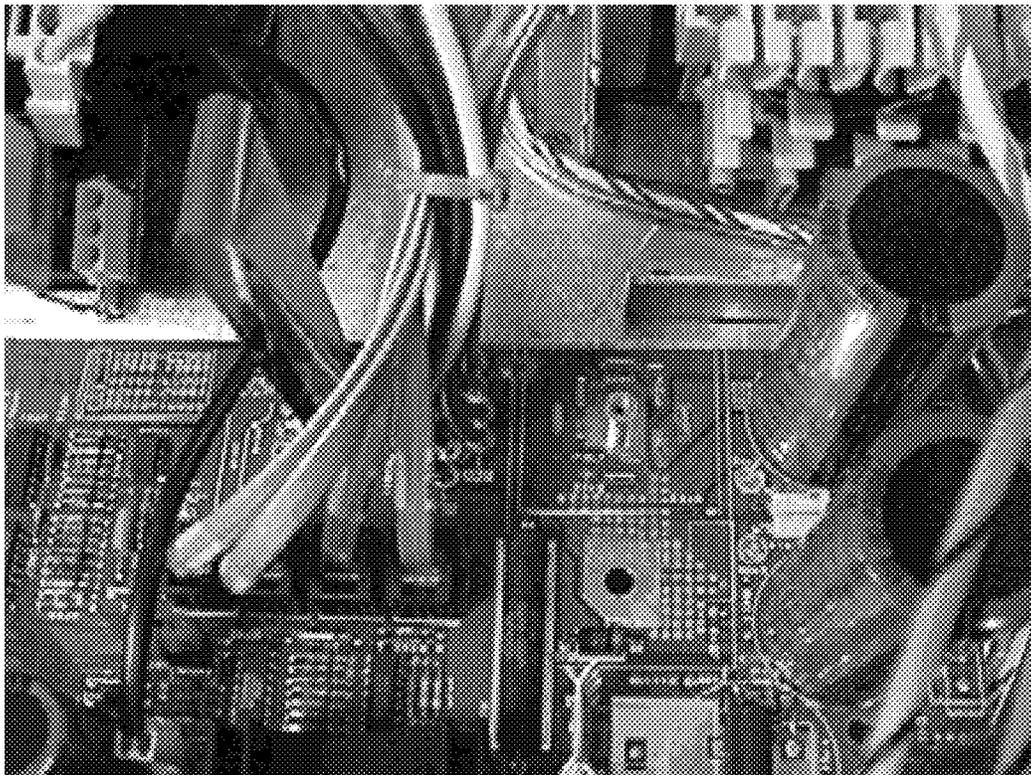
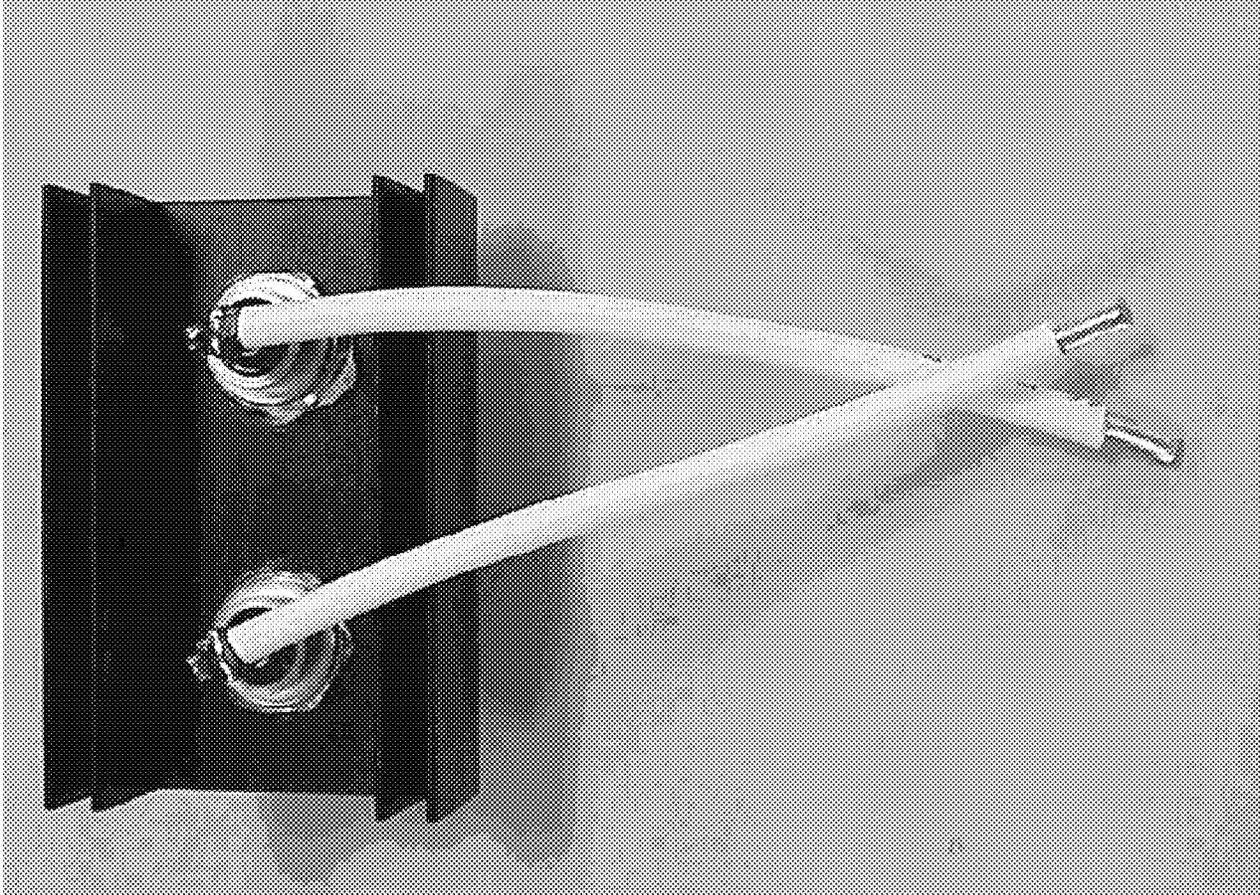


Figure 2b. Standoff

4. Turn the board over to remove the standoff located under the bridge rectifier. Crimp stand-off towards middle for easy removal. This will decrease damage to the inner plating of the standoff hole.
5. Remove solder from holes E405 and E406. Insert and solder the wires seen in Figure 3 into these holes.

Figure 3. Assembly



6. Mount the assembly onto the board and tighten with screwdriver.
7. Follow assembly procedures found in the service manual for reinstallation of board.
8. After reassembling unit, verify unit operation as in User's Manual.