

S E R V I C E N O T E

SUPERSEDES: NONE

**6683A GP-IB DC Power Supply**

**Serial Number:** See below

**Incorrect response to a query over GP-IB**

**Duplicate Service Notes:**

- 6680A-05      3648A00206 / 9999A99999 and US00000000 / US36480208
- 6681A-05      US36400121 / US36400645
- 6682A-04      US36440111 / US36440408
- 6683A-04      US36420106 / US36420511
- 6684A-04      US36410116 / US36410681

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

**Parts Required:**5080-2553 Programmed ROM Revision A.01.02 or later.

**Recommended Special Tool:**PLCC SMT Removal Tool Agilent p/n 5041-2553

**Situation:**

With ROM 5080-2553, firmware revision A.01.01, installed as U106 on the A2 GPIB Assembly, a user can get an incorrect response from a query over the GP-IB.

*Continued*

DATE: January 2001

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input 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 checked="" 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: January 2003	
AUTHOR: PS	ENTITY: 2100	ADDITIONAL INFORMATION:	



The following is a possible GPIB programming sequence that could cause the situation to occur only in compatibility mode: Send a query to the power supply. Read back part of the response. Send another query to the power supply. Quickly read back the response from the power supply.

The second response can contain the first unread character of the first response and, depending on the computer, possibly the second response as well.

**Solution / Action:**

Remove ac line power (mains) from the unit. Following Disassembly Procedures in the service manual, remove top cover (it is not necessary to remove the protective RFI Shield (galvanized sheet metal). Locate the A2 GPIB Assembly mounted on the rear panel (accessible through the RFI shield). Using the recommended special tool, remove the socketed ROM in the center of the assembly and replace it with the new ROM containing the updated firmware. Reassemble and verify operation.