

S E R V I C E N O T E

SUPERSEDES: NONE

E3631A Triple Output DC Power Supply

Serial Numbers:

STD: KR90917251 - KR90919730
0E3: KR90917351 - KR90920097
0E9: KR90917551 - KR90918891

Firmware upgrade to eliminate a transient spike on the outputs

To Be Performed By: Agilent-qualified Personnel or Qualified customers (Technician level)

Parts Required:

P/N	Description	Quantity
E3631-60040	ROM revision 2.1	1

Situation:

With the power supply output enabled, a transient spike occurs on all outputs for approximately 30 ms under any of the following conditions:

- The "OUT Put ON" command is sent over the remote interface (GPIB or RS-232)
- The "*RCL" command is sent over the remote interface
- The "Recall" key is pressed on the front panel

Continued

DATE: July 1999

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 Hours
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input checked="" 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: YCP	ENTITY: Y300	AGILENT RESPONSIBLE UNTIL: July 2001	
		ADDITIONAL INFORMATION:	



Solution / Action:**Note:**

A firmware upgrade is available for units with ROM revision 2.0 code (see serial ranges above). The best way to identify the revision code is to use the "*IDN?" command over the remote interface. This command returns a string with the following format:

"AGILENT TECHNOLOGIES,E3631A,0,2.0-X.X-X.X" (2.0 is revision code)

- The transient spike can be eliminated by replacing the ROM in the unit. Replace the ROM (U14) on the top PC board assembly (E3631-60002) with the P/N E3631-60040 (revision 2.1). U14 is a large integrated component in a socket. Use the E3631A component locator drawing (E3631-60002) in the E3631A Service Guide to help locate U14.
- Installation of this part into the E3631A will not affect the calibration.

Verification: (Has this E3631A been modified properly?)

- After replacing the ROM in the unit, the complete self-test is required to check whether the upgrade is done properly.
- The complete self-test is enabled by pressing the RECALL key (actually any front panel key except the ERROR key) and the power-line switch simultaneously, then continuing to press the RECALL key for about 5 seconds. It will be finished in 2 seconds.
- If the complete self-test is successful, "PASS" is displayed on the front panel. If the self-test fails, "FAIL" is displayed and the ERROR annunciator turns on. After completing the ROM upgrade, please mark on the unit "UPGRADED to 2.1 CODE"

Recommended Test Equipment: None