S E R V I C E N O T E

SUPERSEDES: E3612A-01 with publication date 26 August 1993

3611A DC Power Supply

Serial Numbers: KR15300101 / KR30701277

Duplicate Service Notes:
E3610A-02
E3611A-02
E3612A-02

Eliminate voltage transient above the output setting during turn-off

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

Part No.	Description
0180-4355	Capacitor, 470uF 50V

Situation:

Some of the power supplies have turn-off overshoot that exceeds the power supply output setting. If this condition exists it will occur when the power supply has a light load (output current less than 30 mA).

Continued

DATE: 24 September 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

MODIFICATION RECOMMENDED

ACTION CATEGORY:	☐ IMMEDIATELY ☐ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: Labor 0.5 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: 28 February 1996	
AUTHOR: NKP	ENTITY: Y300	ADDITIONAL INFORMATION:	

Agilent Technologies

Solution/Action:

To determine if a particular power supply has “excess turn-off overshoot” follow this test sequence:

1. Connect the power supply to the ac power line.

2. Turn the power supply “on”.

3. Connect a DVM across the power supply output terminals (set the DVM to continuously sample, rate should should be at least two samples per second).

4. Set the power supply output voltage to any value below half scale (no load condition).

5. Observe the DVM readings of the power supply output when the supply is switched to “off”.

6. If the readings increase after the power supply is switched “off” by more than 5% then the power supply has “excess turn-off overshoot”.

   “Excess turn-off overshoot” may be correct by replacing C13 (P/N 0180-4085, 330uF 35V) with P/N 0180-4355 (470 uF 50V).