

S E R V I C E N O T E

SUPERSEDES: E3610A-01 with
publication date 26 August 1993

E3610A DC Power Supply**Serial Numbers:**

3111K00101 / 3151K02863
KR22702864 / KR30704551

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:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	Labor 0.5 Hour		
LOCATION CATEGORY:	<input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input checked="" 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: 28 February 1996		
AUTHOR: NKP	ENTITY: Y300		ADDITIONAL INFORMATION:		

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 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 corrected by replacing C13 (P/N 0180-4085, 330uF 35V) with P/N 0180-4355 (470 uF 50V).