

S E R V I C E N O T E

<p>3612A DC Power Supply</p> <p>Serial Numbers: KR15300101 / KR30701277</p> <p>Duplicate Service Notes: E3610A-02 E3611A-02 E3612A-02</p> <p>Eliminate voltage transient above the output setting during turn-off</p> <p>To Be Performed By: Agilent-Qualified Personnel</p> <p>Parts Required:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 30%;">Part No.</th> <th>Description</th> </tr> </thead> <tbody> <tr> <td>0180-4355</td> <td>Capacitor, 470uF 50V</td> </tr> </tbody> </table> <p>Situation:</p> <p>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).</p>	Part No.	Description	0180-4355	Capacitor, 470uF 50V	<p>SUPERSEDES: E3612A-01 with publication date 26 August 1993</p>
Part No.	Description				
0180-4355	Capacitor, 470uF 50V				
<p><i>Continued</i></p>					
<p>DATE: 24 September 1993</p>					

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input 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 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 correct by replacing C13 (P/N 0180-4085, 330uF 35V) with P/N 0180-4355 (470 uF 50V).