

S E R V I C E N O T E

SUPERSEDES: 8565E-05

**8565E Portable Spectrum Analyzer**

**Serial Numbers:** 0000A00000 / 3611A00408

**Power Supply Reliability Improvement**

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

**Duplicate Service Notes:**

8560E-12A, 8561E-09A, 8563E-11A, 8564E-05A, 8565E-05A

**Parts Required:**

Part No.	Qty.	Description
1901-1214	1	Diode
0698-3429	2	20 Ohm Resistor
1820-4032	1	IC, Driver
0180-3705	1	47uf Capacitor
0160-4835	1	0.1uf Capacitor

*Continued*

DATE: October 1996

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS:	Labor 0.5 Hour
LOCATION CATEGORY:	<input checked="" 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
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: GB	ENTITY: 5320	AGILENT RESPONSIBLE UNTIL: October 1998	
		ADDITIONAL INFORMATION:	

**Situation:**

The circuit application is causing the Buck Regulator Driver IC, A6U132, to operate near its reverse current spec, which can damage the IC. Similarly, the reverse voltage across diode A6CR131 is near its breakdown spec, which can cause the diode to short.

In addition, some instruments can experience intermittent power-up and “kick-start” problems when warm.

**Solution:**

Changing resistors A6R133 and A6R137 from 10 ohms to 20 ohms will protect A6U132 from excessive reverse current. When making this modification, A6U132 should also be changed, even if the power supply is still working. This is because it could be partially damaged.

Changing diode A6CR131 to 1901-1214 will replace a 400V breakdown part with a 600V breakdown part.

Changing A6C201 to 47uf and A6C133 to 0.1uf will eliminate the intermittent power-up problem when the instrument is warm.