

S E R V I C E N O T E

SUPERSEDES: None

**8712B Network Analyzers**

**Serial Numbers:**

8711B-03 Serial Numbers: US34400100 / US34400765 and GB3500100 / GB3500196

8712B-03 Serial Numbers: US34400100 / US34400258 and GB3500100 / GB3500153

8713B-03 Serial Numbers: US34400100 / US34400452 and GB3500100 / GB3500226\*

8714B-03 Serial Numbers: US34400100 / US34400404 and GB3500100 / GB3500190\*\*

\* Excluding s/n 204, 208, 219, 222, 223, 224    \*\* Excluding s/n 183, 184

**Incorrect Voltage-Rated Capacitors**

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

**Parts Required:**

P/N	Qty.	Description
0180-4771	1	Capacitor, 100uFd 20v Tantalum
0180-4003	2	Capacitor, 10uFd 25v Tantalum

*Continued*

DATE: June 1996

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	Labor 1.0 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: JV	ENTITY: 5320	AGILENT RESPONSIBLE UNTIL: June 1998	
		ADDITIONAL INFORMATION:	

**Situation:**

MID has discovered that all 871xB Network Analyzers in the above serial range have three improperly rated tantalum capacitors on the A2 CPU board. The values used are all rated at 10 volts but they are placed on the +/-15 and +12 volt supplies. Although the number of failures due to this have been relatively low, the potential for failure warrants their immediate replacement.

A 100 uFd capacitor (A2C15) is the most susceptible to failure and can fail somewhat explosively! Use appropriate caution with any exposed board that has power applied. The other two capacitors have never failed in the past and their replacement is not as critical but should be done anyway.

**Solution/Action:**

Any analyzer currently in a service center for any reason should be modified before being returned to the customer. MID will cover the cost of this replacement on all 871xB's. Please indicate on the CSO that this was done as part of Service Note 8711B-03.

The three tantalum capacitors are A2C6, C9, and C15. C15 is a 100 uFd part and is exposed to +12 volts. The replacement part, which has a 20 volt rating, is part number 0180-4771. C6 and C9 are 10 uFd, 10 volt parts, exposed to 15 volts. Change C6 and C9 to part number 0180-4003. All three parts are easily located at the rear of the A2 CPU board, next to their respective green LEDs for the +/- 15 and + 12 volt supplies. They are all gold in color and have both the capacitance and voltage rating marked on them.

This change should be made to all 871xB's within the above serial number range, upon specified failure only, or as they are encountered during normal servicing.