

S E R V I C E N O T E

SUPERSEDES: None

**8566B Spectrum Analyzer (standard and Option 462)
85662A IF Section (standard and Option 462)**

Serial Numbers: 85662A IF Section serial numbers 3001A18529 / 3217A21001

Intermittent PC Edge Connectors on A4A4 Bandwidth Filter Assembly

Duplicate Service Notes:

8566B-39
8568B-33

Exceptions:

Of the 2,472 serial numbers listed above, only 250 to 500 instruments contain A4A4 assemblies with the affected date code.

To Be Performed By: Agilent-Qualified Personnel

Parts Required:

A4A4 Bandwidth Filter Assembly
Part number 85662-60189 for standard instruments.
Part number 85662-60184 for Option 462 instruments.

Continued

DATE: 20 February 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:					
MODIFICATION RECOMMENDED					
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS:	Labor 1.5 Hours		
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 checked="" type="checkbox"/> SCRAP <input 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: 01 January 1995			
AUTHOR: BS	ENTITY: 5300	ADDITIONAL INFORMATION:			

Situation:

A4A4 Bandwidth Filter Assemblies with date code 950428 have insufficient gold plating on the printed circuit (PC) edge contacts. This thin gold plating may lead to reliability problems since the nickel layer can be exposed as the gold plating wears away with repeated board insertions. Intermittent or constant failure symptoms may include:

- Bandwidth switching problems where displayed filter bandshape does not change when Resolution Bandwidth is changed.
- 3dB bandwidth is incorrect.
- Loss of displayed signal.

Several PC board suppliers build this board assembly, and the problem only occurs on one supplier's product. The serial number range listed above covers all instruments produced over the period that defective board assemblies were in the factory's stock room. Therefore, each 85662A IF Display Section listed above must have the date code of the A4A4 Bandwidth Filter checked. Only A4A4 assemblies with date code 950428 are covered under this service note.

Solution/Action:

Remove the A4A4 assembly and check the date code which is located on the foil side (back side) of the board, above the P2 connector. If the date code is 950428, replace the A4A4 assembly.