

S E R V I C E N O T E

SUPERSEDES: None

8753C Network Analyzer

Serial Numbers: 3029A01251 / 9999Z99999

Source Amplifier Replacement Kit**Parts Required:**

Parts Kit 08753-60102 (new) or 08753-69102 (exchange)

Situation:

The A3 source assembly, part number 08753-60084 (new) and 08753-69003 (exchange), has been a common cause of failure for the 8753 network analyzer. Most source failures are due to electrical overstress of the output power FET in the amplifier portion of the source assembly. In the past, the entire source assembly had to be replaced when the source failed. A kit is now available which allows sources to be repaired by replacing just the amplifier module instead of the entire source assembly.

Solution/Action:

The new source amplifier replacement kit is available as both a new part (part number 08753-60102) and an exchange part (08753-69102). There are two requirements for using the amplifier replacement kit to repair a source assembly.

1. The source assembly must have a serial number ending with a letter K. Nearly all of these will be serial number 8631K or higher. The source serial number is engraved along the top edge of the assembly. It is visible when the top cover is removed from the analyzer.

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DATE: 13 December 1991

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
INFORMATION ONLY		
AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:
ML	4500	

2. The failure of the amplifier module must be confirmed. To do this, measure the voltage across the test points ID+ and ID-. They are TP2 and TP3 on the A3A1 source bias board (the source PC board closest to the samplers). Normal voltage is between 200 mV and 400 mV. Any other voltage indicates a failed amplifier.

If these two requirements are not met, the amplifier replacement kit should not be used. Instead, the entire A3 source assembly should be replaced.