

S E R V I C E N O T E

SUPERSEDES: None

35653C Source Module

Serial Numbers: 0000A00000 / 3317A00368

Recommended modification prevents oscillations in the 10 MHz range**Parts Required:**

Part No.	Description	Line Operation
35653-69512	Analog Assembly	

Situation:

It has been found that certain ranges of capacitive loading on the 35653C's outputs cause its output amplifier to oscillate in the ~10 MHz frequency range. The value of two compensation components are changed to enhance output stability over the whole range of specified output capacitances (<0.02uF).

Whether a customer sees this problem is dependent on the loading that they put on the module. Several meters of cable driving a high impedance or open circuit will cause it to oscillate. For example, driving a 1 M Ohm or greater impedance with several meters of cable will cause oscillation, but driving 10 kOhms will not.

Solution/Action:

Replace the 35653-66512 with a new exchange board (35653-69512) that has a date code of 3317 or greater.

Refer to the 3565S System Reference Manual, section 35653A Source Module or the 3566A/3567A Measurement Hardware Service Manual, section 35653A/C for instructions on disassembly and board replacement.

DATE: 24 June 1993

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	☐ IMMEDIATELY ☒ ON SPECIFIED FAILURE ☐ AGREEABLE TIME	STANDARDS: Labor 1.0 hrs	
LOCATION CATEGORY:	☐ CUSTOMER INSTALLABLE ☒ ON-SITE ☐ SERVICE CENTER	SERVICE INVENTORY: ☐ RETURN ☐ SCRAP ☒ SEE TEXT	USED PARTS: ☐ RETURN ☐ SCRAP ☒ SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE		AGILENT RESPONSIBLE UNTIL: July 01, 1995
AUTHOR: LA	ENTITY: A100	ADDITIONAL INFORMATION:	

