

S E R V I C E N O T E

SUPERSEDES

HP 8447F RF Amplifier Option H64

Serial Numbers: 0000A00000 / 2944A04271

Exceptions: 3113A04262 and 3113A04268

Parts Required: 08447-60051

Modification to eliminate 20 kHz to 40 kHz residuals that appear on the output of the 9 kHz to 50 MHz amplifier.

Situation:

The low frequency amplifier in the HP8447F Option H64 instrument is susceptible to 20-40 kHz residuals. The residuals can best be seen when the amplifier's input (J4) is terminated with a 50 ohm load. Residuals will not appear if there is no load on the input. A spectrum analyzer set to a 10 hz resolution bandwidth, a 10-30 kHz video bandwidth, and a center frequency of 20 to 40 kHz can be used to view the residuals at front panel output connector J5. The rep rate of the residuals is 120 Hz.

Continued

DATE: 15 August 1991

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
MODIFICATION RECOMMENDED			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input checked="" type="checkbox"/> ON SPECIFIED FAILURE <input type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR 0.5 Hours
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> HP LOCATION	SERVICE INVENTORY:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	USED PARTS:	<input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AUTHOR: BS	ENTITY: 5300	RESPONSIBLE ENTITY: 5300	UNTIL: August 1993
ADDITIONAL INFORMATION:			

Solution/Action:

A new W4 input cable HP Part Number 08447-60051 contains ferrite material which provides common mode rejection and eliminates the problem. Removing the existing W4 cable, HP Part Number 08447-60046, and replacing it with the new cable is all that is required to correct the problem. The parts list in the Operating And Service Manual Modification, HP Part Number 08447-00059 must be corrected to show W4 as 08447-60051. The serial prefix of instruments which have the latest W4 cable installed at the factory is 3113A.