

MANUAL IDENTIFICATION

Model Number: 8447A
Date Printed: April 1970
Part Number: 08447-90003

This supplement contains important information for correcting manual errors and for adapting the manual to instruments containing improvements made after the printing of the manual.

To use this supplement:

Make all ERRATA corrections

Make all appropriate serial number related changes indicated in the tables below.

Serial Prefix or Number	Make Manual Changes
1145A00356A thru -01517, -01566, and -01571	1
1145A01518 thru -01565, -01567 thru -01570, 01572 thru -01575, and 1529A prefix	1, 2

Serial Prefix or Number	Make Manual Changes
▶ 1616A	1, 2, 3

▶ NEW ITEM

ERRATA

Page 1-1, Table 1-1:

Add Reverse Isolation: >30 dB

Page 4-2, Paragraph 4-6:

Add 10 dB attenuator (2 required) HP 8491A Opt. 010 to the equipment list.

Change specification for "Output Level (Compression)" to >+7 dBm at 1-dB compression point.

Page 4-3, Paragraph 4-6:

Change step 6 to read as follows:

To check flatness, set the signal level at Channel A to -30 dBm. Connect a 10 dB attenuator to each tee, between the tee and the adapter. Note the level difference between Channel A and Channel B as the generator frequency is tuned from 10 MHz to 400 MHz. Keep the input level to the amplifier (CHANNEL A) constant and note the variation in Channel B. Channel B should change >1 dB (±0.5 dB).

Page 4-5, Paragraph 4-7:

Under SPECIFICATION: Change "parts" to "ports."

NOTE

Manual change supplements are revised as often as necessary to keep manuals as current and accurate as possible. Hewlett-Packard recommends that you periodically request the latest edition of this supplement. Free copies are available from all HP offices. When requesting copies quote the manual identification information from your supplement, or the model number and print date from the title page of the manual.

ERRATA (Cont'd)

Page 4-10, PERFORMANCE TESTS:

Add the following performance test:

PERFORMANCE TESTS

4-10. REVERSE ISOLATION

SPECIFICATION:

Reverse Isolation: > 30 dB

DESCRIPTION:

Using a signal generator and a vector voltmeter, a known signal level loss is measured from OUTPUT to INPUT port.

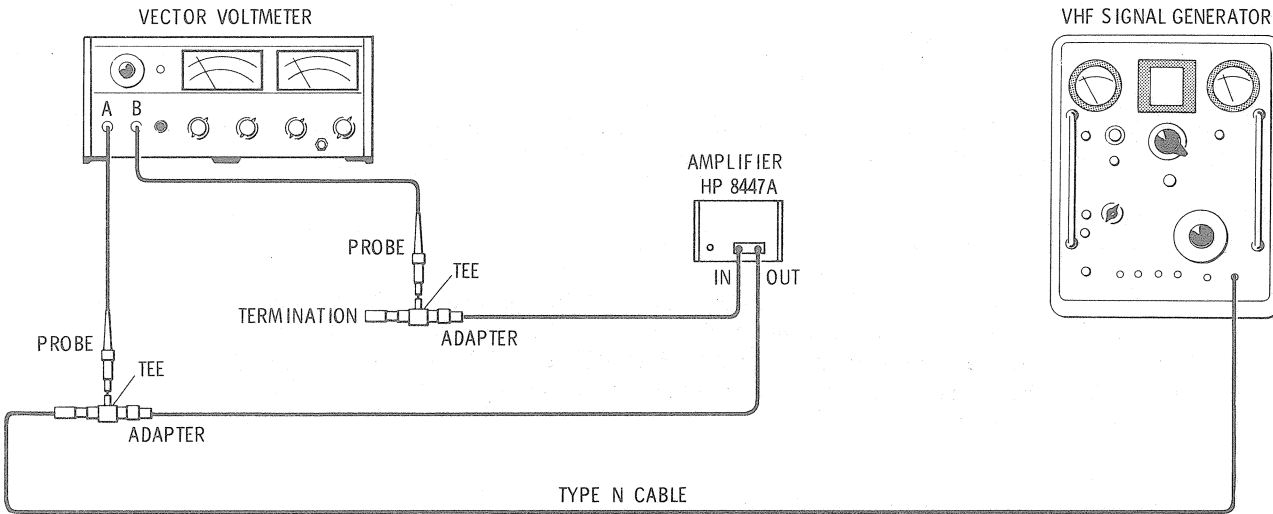


Figure 4-8. Reverse Isolation Test Setup

EQUIPMENT:

Signal GeneratorHP 608E/F
Vector Voltmeter HP 8405A
Feedthrough Tee (2).	HP 11536A
Termination HP 908A
Adapter	UG-201A/U
Type N Cable	HP 11500A

ERRATA (Cont'd)

PERFORMANCE TESTS

PROCEDURE:

1. Connect the test setup as shown in Figure 4-8. Make the following control settings.

608E/F:

MODULATION CW
 ATTENUATION Maximum (lowest output level)
 FREQUENCY RANGE D
 MEGACYCLES 100

8405A:

FREQUENCY RANGE — MHz 100 — 200
 AMPLITUDE RANGE — dB 0
 CHANNEL A

2. Adjust the generator signal level for 0 dBm (read on vector voltmeter).
3. Switch voltmeter to CHANNEL B. Signal at INPUT shall be at least 30 dB below signal at output.

Reverse Isolation: > 30 dB _____

Page 4-11, Table 4-1
Add:

4-10	Reverse Isolation		
3	Reverse Isolation	dB	30 _____

Page 5-2, Paragraph 5-8:
Change "Figure 4-1" to "Figure 5-1" in step 1.

Page 6-2, Table 6-2:
Change C2 to 0160-2049, C: FXD 5000 PF +80 —20% 500 WVDC, 28480, 0160-2049.

Page 8-9, Figure 8-4:
Delete line connecting CR8 and C4.

CHANGE 1

Page 6-4, Figure 6-1:

Change to read as follows:

Figure 6-1. Cabinet Parts

1	08747-0003	DECK:MAIN
2	5000-8766	SIDE COVER:3x8, OLIVE GRAY
3	5060-0247	FRAME ASSY-
4		NOT ASSIGNED
5	5060-8553	TOP COVER:5x8, OLIVE GRAY
6	08447-00002	REAR PANEL
7	5060-0727	FOOT ASSY
8	08447-00032	FRONT PANEL, MINT GRAY
8	08447-00033	FRONT PANEL OPTION 001, MINT GRAY
9	5000-8569	BOTTOM COVER, OLIVE GRAY

CHANGE 2

Page 1-1, Table 1-1:

Change the following specifications:

Output Level: $>+6$ dBm at 1-dB compression point.

Distortion: Harmonics at least 32 dB down at output levels up to 0 dBm.

Page 4-2, Paragraph 4-6:

Change specification for "Output Level (Compression)" to $>+6$ dBm at 1-dB compression point.

Page 4-3, Paragraph 4-6, Step 5:

Change "+7 dBm" to "+6 dBm" in first line.

Page 4-8, Paragraph 4-8:

Change specification to read:

Harmonics at least 32 dB down at output levels up to 0 dBm.

Change 35 dB to 32 dB in Step 3 (two places).

Page 4-11, Paragraph 4-8:

Change limit under "Min." to -32 .**► CHANGE 3**

Page 6-2, Table 6-2:

Change A1CR9 to 1884-0073, THYRISTOR-SCR.

Add A1R13, 0757-0401, R:FXD MET FLM 100 OHM 1% 1/8W.

Page 8-9, Figure 8-4:

Add resistor R13, 100 ohms, from junction of CR8 anode/CR9 gate to ground.