

8447D/E/F-08

S E R V I C E N O T E

SUPERSEDES: None

PRELIMINARY SERVICE NOTE

HP 8447D Amplifier
HP 8447E Amplifier
HP 8447F Amplifier

Serial Numbers:

8447D Amplifier (standard version and option 010) 2648A04687 / 9999A99999
8447D Amplifier (options 001, 011) 2727A04987 / 9999A99999
8447E Amplifier 2631A02229 / 9999A99999
8447F Amplifier (power amplifier) 2634A02017 / 9999A99999
8447F Amplifier (preamplifier) 2727A02199 / 9999A99999

Exceptions: See note at end of Service Note.

Microcircuit preamplifier and power amplifier replacement now available

To Be Performed By: HP-qualified personnel

Parts Required:

5086-7767 Preamplifier (for 8447D and 8447F)
5086-7768 Power Amplifier (for 8447E and 8447F)

Continued

DATE: 26 September 1991

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

INFORMATION ONLY

AUTHOR:	ENTITY:	ADDITIONAL INFORMATION:
BS	5300	

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Situation:

Microcircuit preamplifier 5086-7767 was only available as part of the 08447- 60044 Preamplifier Replacement Kit. The kit is designed to allow earlier 8447D and 8447F instruments (which had different preamps) to use the 5086-7767 amplifier which is included in the kit. The kit also includes three Service Notes which explained which specifications changed as a result of installing the new preamplifier, and cautioned the user to ESD damage and maximum power levels which can cause damage to the preamplifier.

Microcircuit power amplifier 5086-7768 was only available as part of the 08447- 60029 Power Amplifier Replacement Kit. This kit is similar to the Preamplifier Kit in that it includes not only the replacement amplifier, but also specification documentation and Service Notes.

Instruments shipped after the middle of 1987 have the latest amplifiers installed (5086-7767 and 5086-7768). Many earlier instruments have had the 08447-60044 or 08447-60029 amplifier replacement kit installed, and now they also contain the latest amplifier. Ordering one or more amplifier replacement kits to repair an instrument which only requires a new amplifier is expensive because of the kit cost, and wastes materials included in the kit which are not needed for the repair.

Solution/Action:

The 5086-7767 Preamplifier and 5086-7768 Power Amplifier will be available for instruments which already contain either amplifier. Purchasing the amplifiers separately will reduce the repair cost of the instrument since the A1 Power Supply modification components (08447-60044 kit) and Service Notes / warning stickers are no longer included. The repair tech may need to remind the user of the instrument's maximum input levels, that the amplifier is broadband, and to discharge cables before connecting them to the amplifier.

The 08447-60044 Preamplifier Replacement Kit and the 08447-60029 Power Amplifier Replacement Kit will still be available and must be used to retrofit earlier instruments which contain amplifiers other than the latest versions.

Application Chart:

Preamp to be replaced in 8447D,F:	Order this part number:
0960-2013	08447-60044
5086-7005	08447-60044
5086-7767	5086-7767
Power Amp to be replaced in 8447E,F:	Order this part number:
0960-2014	08447-60029
5086-7006	08447-60029
5086-7768	5086-7768

Note: Always check the part number of the amplifier removed from the instrument before ordering the new part.