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8513A-1A

SERVICE NOTE

DO NOT REMOVE

Supersedes: HP 8511A HP 8512A-1 HP 8513A-1 HP 8514A-1 HP 8415A-1

HP 8510A Network Analyzer System Test Sets

Sampler Assembly Replacement Kit

There are three possible configurations of mounting the 5086-6402/7402 sampler assembly to the frequency converter baseplate. These different configurations came about from a change in the sampler assembly mounting scheme. This new mounting scheme resulted in a converter baseplate. This service note describes these configurations and provides a guide to the field replacement of the sampler assemblies.

The three possible mounting configurations are:

1. new style sampler assembly/old style baseplate
2. new style sampler assembly/new style baseplate
3. old style sampler assembly/old style baseplate

To determine which mounting configuration is used to fasten a particular sampler to the frequency converter baseplate, proceed as indicated in the installation procedure on the following pages.

PARTS INCLUDED IN SAMPLER REPLACEMENT KIT

HP Part Number 08513-60154 (New)

Qty	Description	HP Part No.
1	Sampler Assembly	5086-7402
2	Hex nut 4-40	2260-0009
2	Screw 4-40 1.5 in.	2200-0125
1	Service Note	8513A-1A

HP Part Number 08513-60155 (Rebuilt)

Qty	Description	HP Part No.
1	Sampler Assembly	5086-6402
2	Hex nut 4-40	2260-0009
2	Screw 4-40 1.5 in	2200-0125
1	Service Note	8513-1A

DJS/WN

10/85-45/JH



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INSTALLATION PROCEDURE

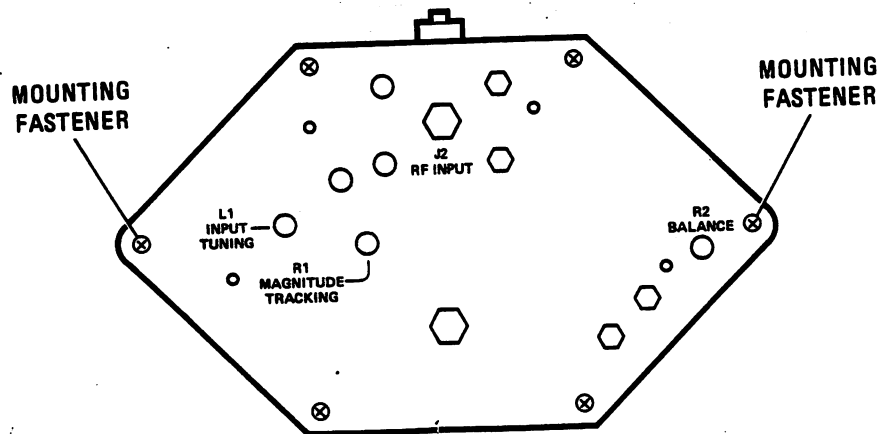
CAUTION

If the frequency converter must be removed from the test set, care must be taken so that the hard-line RF cables are not damaged (bent) upon removal or installation.

CAUTION

The heatsink on the VTO may have to be removed to facilitate the removal of some sampler assemblies

1. locate the sampler to be replaced
2. locate either of the sampler assembly mounting fasteners (shown below) on the sampler of interest. The fastener will either be a screw or a nut.



Sampler Assembly Mounting Fastener Locations

3. If the fastener is a nut, you have a new style sampler housing with an old style frequency converter base plate. Proceed as follows:
 - i. remove the frequency converter from the test set.
 - ii. remove the defective sampler assembly's mounting screws and nuts (2 ea).
 - iii. disconnect the sampler assembly's LO input connector from the power splitter on the VTO.
 - iv. replace the sampler assembly by reversing steps i through iii above.
4. If the fastener is a screw, remove one of them. If the screw is 1.5 in. long (i.e. long enough to reach the frequency converter base plate) then you have a new style sampler assembly housing with a new base plate. This configuration does not require the frequency converter to be removed. Proceed as follows:
 - i. remove the two 1.5 in. screws holding the sampler assembly to the frequency converter base plate.
 - ii. disconnect the sampler assembly's LO input connector from the power splitter on the VTO.
 - iii. replace the sampler assembly by reversing steps i and ii above.
5. If the screw removed is 0.375 in. long, then you have an old style sampler assembly housing and an old style base plate. The sampler assembly that will be used as a replacement for the defective sampler assembly will probably have the new sampler assembly housing. Proceed as follows:
 - i. remove the frequency converter from the test set.
 - ii. remove the defective sampler assembly's mounting screws (2). The mounting screws are accessible from the bottom of the frequency converter base plate.
 - iii. disconnect the sampler assembly's LO input connector from the power splitter on the VTO.
 - iv. connect the replacement sampler assembly's LO input connector to the power splitter on the VTO.

- v. fasten the sampler assembly to the frequency converter base plate by inserting the two 1.5 in. 4-40 screws (provided in the replacement kit) up from the bottom base plate and into the sampler assembly's mounting holes. The threaded ends of the screws should be visible on the top of the sampler assembly. Screw the two 4-40 hex nuts (supplied with the kit) onto the end of the mounting screws and tighten.
- vi. install the frequency converter back into the test set.

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For more information, call your local HP sales office listed in the telephone directory white pages. Ask for the Electronic Instruments Department. Or write to Hewlett-Packard: **U.S.A.** - P. O. Box 10301, Palo Alto, CA 94303-0690. **Europe** - P. O. Box 999, 1180 AZ Amstelveen, The Netherlands. **Canada** - 6877 Goreway Drive, Mississauga L4V 1M8, Ontario. **Japan** - Yokogawa-Hewlett-Packard Ltd., 3-29-21, Takaide-Higashi, Suginami-ku, Tokyo 168. **Elsewhere** in the world, write to Hewlett-Packard Intercontinental, 3495 Deer Creek Road, Palo Alto, CA 94304.

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