
HP/Agilent 85420E/85460A
High Frequency Filter Assembly
Replacement Kit

Installation Note

Notice

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High Frequency Filter Assembly Replacement Kit

Products Affected:	HP/Agilent 85420E HP/Agilent 85460A
Serial Numbers:	All
Options:	none
To Be Performed By:	(X) Agilent Service Center (X) Personnel Qualified by Agilent Technologies
Estimated Installation Time:	1.0 Hours
Estimated Verification Time:	5.0 Hours

Introduction

This kit contains a replacement HF Filter Assembly (A9).

Installation Kit Parts List

High Frequency Filter Assembly Replacement Kit Contents

Item	Quantity	Description	Part Number
1	1	HF Filter Assembly	85460-60030
2	1	Installation Note	85460-90030

Tools Required:

T-10 TORX Driver, T-15 TORX Driver, 5/16 Open-end Wrench

Calibration and Verification

Refer to the 85460A and 85420E Service Guide for the appropriate adjustment routines and performance verification tests that must be run after replacing the HF Filter Assembly. (Refer to Chapter 2 “Making Adjustments” Table 2-2, A9 High Frequency Filters Board Assembly.)

Remove the Instrument Cover

WARNING

These servicing instructions are for use by qualified personnel only. To avoid electrical shock, do not perform any servicing unless you are qualified to do so.

The opening of covers or removal of parts is likely to expose dangerous voltages. Disconnect the instrument from all voltage sources while it is being opened.

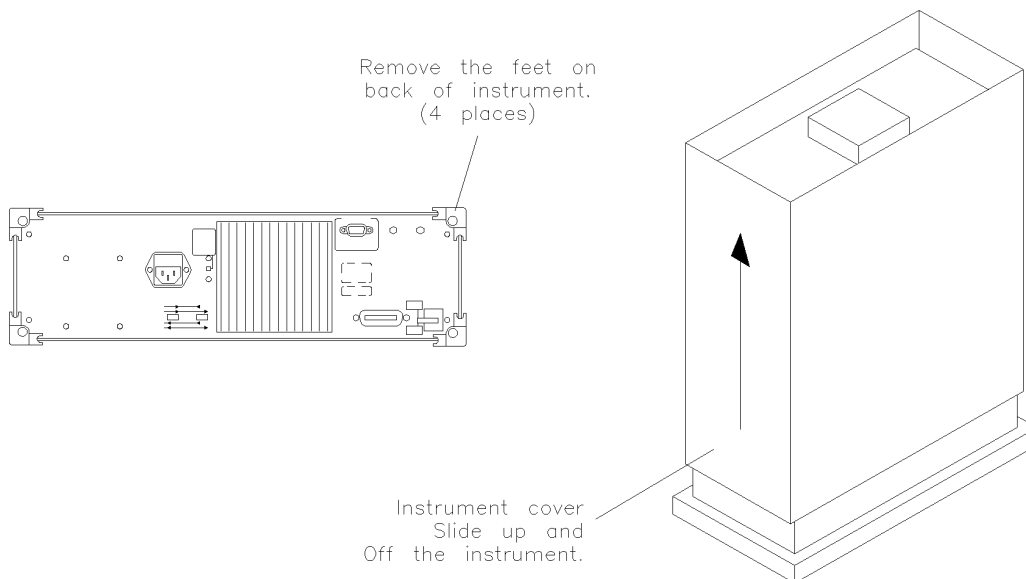
The power cord is connected to internal capacitors that may remain live for 5 seconds after disconnecting the plug from its power supply.

CAUTION

To prevent damage to the front-frame, use a soft cloth or towel between the work surface and the front-frame.

Removal

1. Disconnect the instrument from ac power.
2. Place the instrument on the work surface with its front panel down.
3. Remove the four rear-foot screws using a Torx screwdriver.
4. Pull the cover off towards the rear.

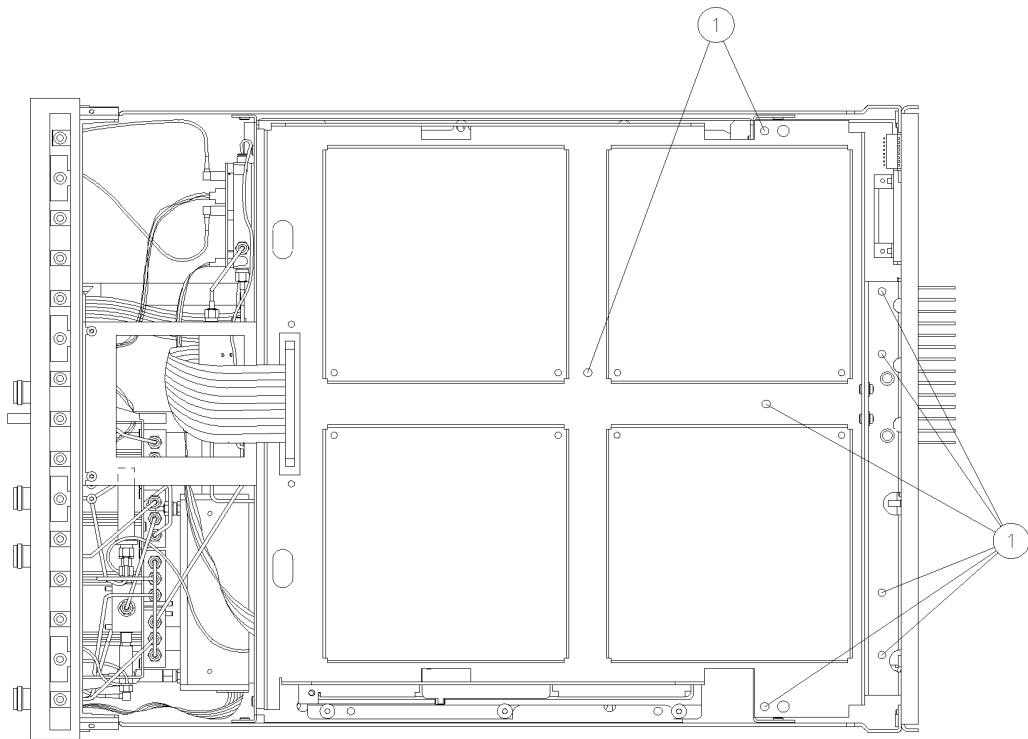


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Figure 0-1 Instrument Cover Replacement

Remove the A9 HF Filter Assembly

1. Place the instrument with the top facing up on the work surface.
2. Remove eight screws on the front to access the components underneath the top lid (1). Refer to Figure 0-2 on page -6.
3. Disconnect the five cables that go to the A9 HF Filter assembly (2). Refer to Figure 0-3 on page -vi.
4. Disconnect the ribbon cable (3) from the HF filter assembly.
5. Remove the six screws that attach the HF filter housing to the front strut (4).
6. Lift the housing out of the instrument.



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Figure 0-2 A9 HF Filters Replacement, Removing Lid Screws

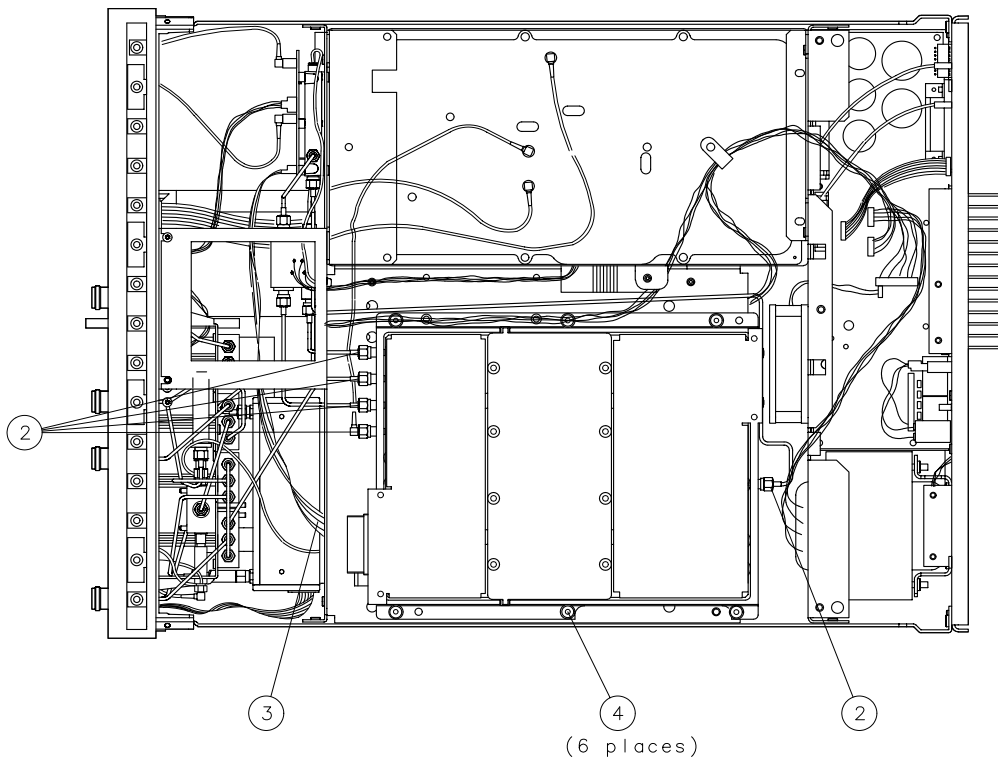


Figure 0-3 A9 HF Filters Replacement, Lid Removal

Replace the A9 HF Filter Assembly

1. Place the A9 HF filter board assembly into the instrument. Refer to Figures 0-2 and 0-3 on page -vi.
2. Connect the ribbon cable (3) to the HF filter.
3. Replace the six screws that attach the HF filter housing to the front strut (4).
4. Connect the five cables that go to the HF filter assembly (2).
5. Replace the eight screws on the front (1).

Replace The Instrument Cover

CAUTION

To prevent damage when replacing the instrument cover, remember the following:

Place a soft cloth or towel between the work surface and the front-frame.

Ensure that cables do not bind between the instrument cover and its internal assemblies.

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1. Disconnect the instrument from ac power.
 2. Place the instrument on the work surface with its front panel down.
 3. Replace the instrument cover assembly by matching the seam on the cover with the bottom of the instrument.
 4. Fit the leading edge of the cover completely into the slot on the back of the front-frame assembly. The cover should fit snugly against the EMI gasket in the slot.
 5. Replace and tighten the four rear-feet screws using a Torx screwdriver.