

HP 89430A YIG Adaption Kit

This kit provides the parts needed to upgrade the YIG oscillator in an HP 89430A from part number 89430-67550 to 89430-67551. This kit includes the following parts.

Description	Part number	Quantity
YIG Oscillator assembly	89430-67551	1
Bracket	89431-01202	1
Shield	89431-01213	1
Ribbon Cable	08590-60035	1
Screw 6-32 x 0.25 in	2360-0181	4
Hex Nut M3 x 0.5	0535-0031	4
Screw M3 x 0.5 - 20mm	0515-1410	1
Screw M3 x 0.5 - 6mm	0515-0430	3
Installation Guide	89430-90002	1

Equipment required

- T-10 Torx Driver
- T-15 Torx Driver
- #2 Pozi Driver
- 5.5 mm Nut Driver
- 5/16" Open End Wrench
- HP 89430A Service Guide

Caution

The following steps must be performed at a static protected site to prevent static discharge damage during the handling of the PC assemblies.

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Part Number 89430-90002
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For more information, call your local HP sales or service office or, in the US, call • East (201) 265-5001 • Midwest (312) 255-9800 • South (404) 955-1500 • West (213) 970-7500 or (415) 968-9200 or write, Hewlett-Packard, 1820 Embarcadero, Palo Alto, California 94303. In Europe, call your local HP sales or service office or write, Hewlett-Packard S.A., 7, rue du Bois-du-Lan Case Postale 365 CH 1217 Meyrin 1 - Geneva, Switzerland. In Japan, Yokogawa-Hewlett-Packard Ltd., 1-27-15, Yabe Sagami-hara City, Kanagawa Prefecture, Japan 229.

Step 1. Remove the front panel.

Using the instructions in the replacing assemblies section of the HP 89430A Service Guide remove the front panel.

Step 2. Remove the A10, A60, and A70 assemblies.

1. Using the instructions in the replacing assemblies section of the HP 89430A Service Guide remove the A10, A60, and A70 assemblies.

Step 3. Remove the A50 assembly.

1. Using a 5/16" open end wrench, disconnect the cable from A60 J201.
2. Using a T-10 torx driver, remove the three screws that attach the A50 assembly to the bracket.
3. Discard the A50 assembly.

Step 4. Remove the A80 assembly.

1. If the A80 oven oscillator assembly is not installed continue with the next step.
2. Using a #2 pozi driver, remove the six screws that attach the A80 and oven oscillator to the bracket.
3. Remove the oven oscillator from the A80 board.

Step 5. Remove the bracket.

1. Using a T-15 torx driver, remove the 4 screws that attach the A10 and A60 assemblies to the bracket.
2. If the source is installed, remove the two screws that attach the A70 assembly to the bracket.
3. Discard the bracket.

Step 6. Install new bracket.

1. Using the screws removed in the previous step and a T-15 torx driver, install the new bracket from the kit.

Step 7. Install A80 board.

1. If the A80 oven oscillator assembly was not installed continue with the next step.
2. Using the three M3 x 0.5 - 6mm screws from the kit and a T-10 torx driver, attach the A80 board to the bracket in three corners. Do not install a screw in the corner next to A80 J1.

Step 8. Install new YIG assembly.

1. Using the four M3 x 0.5 hex nuts and a 5.5 mm nut driver, attach the new YIG assembly to the bracket.
2. Using the M3 x 0.5 - 20mm screw from the kit and T-10 torx driver, attach the shield to the bracket.
3. Using a 5/16 open end wrench, attach the coax cable from the YIG oscillator to A60 J201.

Step 9. Install oven oscillator.

1. If the A80 oven oscillator assembly was not installed continue with the next step.
2. Using two 6-32 x 0.625" screws that were removed in step 4 and a #2 pozi driver, attach the oven oscillator to the A80 board.

Step 10. Install the A10, A60, and A70 assemblies.

1. Reverse the instructions in the replacing assemblies section of the HP 89430A Service Guide and install the A10, A60, and A70 assemblies.

Step 11. Install the front panel.

1. Reverse the instructions in the replacing assemblies section of the HP 89430A Service Guide and install the front panel.

Step 12. Power up and verify proper operation.

1. Connect the HP 89430A to an HP 89410A and press the following keys.

[Instrument Mode]

[receiver]

[RF 2-1800 MHz]

[System Utility]

[single cal]

If the self calibration fails check that the assemblies and cables are installed properly.

It is recommended that the operation verification be done after installing the YIG assembly. Refer to the Required Adjustments and Performance Tests table in chapter 3 of the HP 89430A Service Guide.