

## S E R V I C E N O T E

SUPERSEDES: NONE

**54721A Amplifier Plug-In****Serial Numbers:** 0000A00000 / 3334A00000**Upgrading Channel or Trigger Input Connectors From BNC to Type-N****Duplicate Service Notes:** None**To Be Performed By:** Agilent-Qualified Personnel**Situation:**

The Channel and Trigger input connectors on the 54721A Amplifier plug-in have been changed from BNC to Type-N after the serial number range above. This change has been requested for improved mechanical interface with the 54701A 2.5 GHz Active Probe.

If you desire to change either the Channel or Trigger input BNC connector to a Type-N on your 54721A, see the following required parts lists. Since most users only want to change the Channel input connector to Type-N, the Channel input and Trigger input required parts are listed separately.

*Continued*

DATE: 17 May 1994

## ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:

**INFORMATION ONLY**

AUTHOR:

ENTITY:

ADDITIONAL INFORMATION:

RK

0800

**Required Parts:**

<b>Part No.</b>	<b>Qty.</b>	<b>Description</b>
<b>Channel Input</b>		
1250-1811	1	Adapter, Type-N(f)-SMA(f)
54721-61604	1	Cable, Semi-rigid SMA - SMA
1250-0780	1	Adapter, BNC(f)-Type-N(m)

**Trigger Input**

1250-1811	1	Adapter, Type-N(f)-SMA(f)
E1427-61606	1	Cable, 7 inch Coax
1250-0780	1	Adapter, BNC(f)-Type-N(m)

**Tools Required:**

Torx #10 screw driver

8 inch-pound, 5/16 inch torque wrench

Torque wrench with 5/8 socket for 100 inch-pounds (8 foot-pounds)

**Solution/Action:**

Order the parts needed to change the Channel and/or Trigger input/s.

**Installation Instructions:**

1. Remove the right module cover.
2. Unplug the two probe power connector from the board.
3. Unplug the keyboard connector from the board.
4. Disconnect the Channel BNC semi-rigid cable from the attenuator.
5. Disconnect the Trigger cable from the limiter A5.
6. Disconnect the Calibration cable from the board.
7. Remove the six screws from the rail/front panel.
8. Remove the front panel from the module
9. Remove the rear nuts from Channel and/or Trigger BNCs and remove the cables.
10. Install the N-to-SMA adapter/s, 1250-1811, on the front panel, install the washers and start the nuts. (Use the nuts that come with the connector/adapter.)
11. Torque the nuts to 100 inch-pounds (8 foot-pounds).

12. Attach 54721-61604 semi-rigid cable to Channel N-to-SMA adapter and torque to 8 inch-pounds.
13. If you are changing the Trigger input, attach the right-angle connector end of the E1427-61606 cable to Trigger N-to-SMA adapter. Position the cable to point upwards and torque to 8 inch-pounds.
14. Install the module front-panel on the module.
15. Reconnect the calibration cable to the board and torque to 8 inch-pounds.
16. Reconnect the Trigger cable to the limiter and torque to 8 inch-pounds.
17. Reconnect the semi-rigid cable to the attenuator and torque to 8 in-lbs.
18. Reconnect the probe power connectors to the board. Note that the Trigger probe power connector goes to the rear board connector.
19. Reconnect the keyboard cable into the board.
20. Reinstall the 6 screws to the rail/front panel.
21. Reinstall the right module cover.
22. Check module operation.

