

# N5241A-01F

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

Supersedes:  
N5241A-01E

## N5241A - PNA Series Microwave Network Analyzers

**Serial Numbers:** See list at end of service note.

**Possible faulty N5241A performance due to defect in microcircuit assembly.**

**Parts Required:**

P/N	Description	Qty.
5087-6315	Microcircuit Cobra Bridge (exchange) <i>Or 5087-7315, if not available</i> <i>Or 5087-7757, if not available</i>	up to 5
5087-6729	Cobra Bridge Napili (exchange) <i>Or 5087-7729, if not available</i>	0 to 1

### ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
<b>MODIFICATION RECOMMENDED</b>		
ACTION CATEGORY: AGREEABLE TIME		STANDARDS LABOR: 5.5 Hours (includes 4 hours of calibration time)
LOCATION CATEGORY:	X ON-SITE X SERVICE CENTER X CHANNEL PARTNER	SERVICE INVENTORY: N/A  USED PARTS: RETURN
AVAILABILITY:	August 31, 2013	NO CHARGE AVAILABLE UNTIL: September 1, 2013
AUTHOR:	MF	PRODUCT LINE: WN
<p>ADDITIONAL INFORMATION: PNA models affected: N5241A, N5242A, N5242AS, and N5242AH85. This Service Note to be reevaluated after August 31, 2013. <b>History:</b> 1) N5241A-01 dated 9-21-2010. 2) N5241A-01A, dated 10-21-2010, changed part descriptions and the Opt 029 replacement bridge from 5087-7716 to 5087-7729. More serial numbers were added. The N5241AS-01 service note was deleted due to updated list that did not include 41AS. 3) N5241A-01B dated Nov 2, 2010 added a link to a web page that shows which PNAs have been reworked. 4) N5241A-01C dated Jan 14, 2011 changed Action Category from "On Specified Failure" to "Agreeable Time." Also changed text in Actions Required top bullet to say that all microcircuits in the table must be replaced. 5) N5241A-01D dated March 25, 2011 changed Actions Required text to emphasize the necessity of doing the post-repair procedures. 6) N5241A-01E dated April 14, 2011 changed Parts Required by including the exchange parts along with the new parts. 7) N5241A-01F dated Jan 31, 2012 changed Parts Required by including the RoHS compliant 5087-7757 Cobra Bridge.</p>		

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**Situation:**

There is a possibility of faulty PNA performance because of a defect in microcircuit assembly. The assembly defect has been fully resolved and Agilent is committed to replacing all affected microcircuits as soon as possible.

**Solution/Action:**

- Replace ALL of the microcircuit listed in the table below unless this rework has already been done. (See [http://na.tm.agilent.com/pna/service/PNA\\_Microcircuits.html](http://na.tm.agilent.com/pna/service/PNA_Microcircuits.html). A green serial number on this Web page indicates the rework has already been done.) If the rework has already been done, replace only those microcircuits that fail.

PNA Options	Reference Designator	Description	Replacement Microcircuit
All	A25, A26, A27, and A28	Test Port Bridge	5087-6315 or 5087-7315 or 5087-7757 (see “Parts Required” on previous page)
224 or 423	A50	Combiner	

- **Option 029 only:** Reference designator A54, described as the Test Port 2 Bridge, is either the 5087-7315 or the 5087-7729 microcircuit. If either fails, replace it with the 5087-6729 or 5087-7729.
- Refer to the PNA Service Guide chapter 7 for repair and post-repair procedures. To view the online Service Guide, see the numbered list below for instructions.
- Return the defective components using the exchange process.
- If you have replaced all of the microcircuits as per this service note, email [scott\\_stewart@agilent.com](mailto:scott_stewart@agilent.com) or [support\\_ctd-soco@agilent.com](mailto:support_ctd-soco@agilent.com), providing the instrument model and serial number along with part numbers and quantities of components that were replaced.

Refer to the PNA Service Guide for instructions on removing/replacing microcircuits, post-repair adjustments/procedures, and verification/performance tests. To view this Service Guide information, use the following steps:

1. Go to <http://www.agilent.com>.
2. Enter your PNA model number (Ex: N5241A) in the **Search** box and click **GO**.
3. Scroll down to the heading **Manuals & Guides** and click on the title/hyperlink for the Service Guide. If you don't find your Service Guide listed on the Web page that is displayed initially, click on the **More** hyperlink.
4. When the PDF of the Service Guide is displayed, look at the bookmarks in the left column. Expand the Contents section by clicking on the plus sign next to its bookmark.
5. Scroll through the Contents section bookmarks to locate “Repair & Replacement Procedures.”
6. Click on the bookmark hyperlinks for the repair and post-repair procedures and follow the instructions.  
Successful completion of the post-repair adjustments/procedures and verification/performance tests will set the analyzer to its pre-repair condition. All pre-repair certification still applies.

**NOTE:** The PNA contains extremely sensitive components that can be ruined if mishandled. Follow instructions carefully when making cable connections, especially wire harness connections.

Serial numbers:

<b>Prefix No.</b>	<b>MY4911...</b>	<b>MY4931...</b>	<b>MY4941...</b>	<b>SG4911...</b>	<b>SG4941...</b>	<b>US4941...</b>
<b>Suffix No.</b>	1002 to 1007	1100	1152 to 1158	0101 to 0102	0101 to 0102	0101 to 0104
	1009 to 1011	1102 to 1104	1160	--	--	--
	1013 to 1014	--	1162 to 1168			