

N5242A-10A

# Information Only Service Note

Supersedes:  
N5242A-10

## N5242A PNA-X Series Microwave Network Analyzers

Serial Numbers: MY00000000-MY53109999, SG00000000-SG53109999, US00000000-US53109999

In June 2013, the N5241A/AS and N5242A/AS network analyzers underwent significant hardware changes. The internal bias tee and test port coupler connectors were changed from 2.4 mm to 3.5 mm. The semi-rigid cables that connect to these components changed similarly. When the bias tee, test port coupler, or one of the interfacing semi-rigid cables with 2.4 mm connectors needs to be replaced, the whole set of components needs to be replaced.

The semi-rigid cables that route to the front panel were also changed. The earlier cable design had an integrated bulkhead connector. This was changed to a separate cable and bulkhead connector. When one of the earlier cables is replaced, a new bulkhead connector must also be ordered.

This information is carefully documented in the service guide for these products. Refer to the service guide for the most current information.

### Parts Required:

NONE

### ADMINISTRATIVE INFORMATION

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Calibration NOT Required

PRODUCT LINE: WN  
AUTHOR: KS

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ADDITIONAL INFORMATION:  
Models affected are N5241A/AS and N5242A/AS.

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**Situation:**

In June 2013, the N5241A/AS and N5242A/AS network analyzers underwent significant hardware changes. The internal bias tee and test port coupler connectors were changed from 2.4 mm to 3.5 mm. The semi-rigid cables that connect to these components changed similarly. When the bias tee, test port coupler, or one of the interfacing semi-rigid cables with 2.4 mm connectors needs to be replaced, the whole set of components needs to be replaced.

The semi-rigid cables that route to the front panel were also changed. The earlier cable design had an integrated bulkhead connector. This was changed to a separate cable and bulkhead connector. When one of the earlier cables is replaced, a new bulkhead connector must also be ordered.

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**Solution/Action:**

If the analyzer’s serial number prefix is MY/SG/US5310 and below:  
The analyzer was originally shipped with 2.4 mm components. However, bias tees, couplers, and their connecting cables with 2.4 mm connectors are no longer available, having been replaced with 3.5 mm items. A coupler and bias tee (and connecting cables) must be replaced as a set so they have the same connector type.

Before replacing any components in the analyzer, refer to the N5241A/AS and N5242A/AS Service Guide dated June 17, 2013 or later.

To view this Service Guide information, use the following steps:

1. Go to <http://www.keysight.com>
2. Enter your PNA model number (e.g., N5242A) in the search box and click the search icon (🔍).
3. Click **Resource Center**.
4. Scroll down and click on the title/hyperlink for the Service Guide.
5. When the PDF of the Service Guide is displayed, use the Chapter 6 bookmarks in the left column to find the appropriate parts lists for your analyzer’s option mix.

If the analyzer’s serial number prefix is MY/SG/US5321 and above:  
Your analyzer was shipped with 3.5 mm components which are compatible with all replacement components that are currently available.

**Revision History:**

Date	Service Note Revision	Author	Reason for Change
02 Oct 2017	02	KS	Clarify Situation/Solution/Action description
01 Jul 2013	01	MF	As published