

MODIFICATION RECOMMENDED

**N5181A-03**

**S E R V I C E**

**N O T E**

Supersedes:  
NONE

## N5181A MXG Analog Signal Generator

### Serial Numbers:

MY47421094, MY47421097, MY47421099, MY47421100, MY47421102, MY47421107,  
MY47421109, MY47421110, MY47421112, MY47421114, MY47421125, MY47421126,  
MY47421130, MY47421131, MY47421134, MY47421135, MY47421137, MY47421138,  
MY47421139, MY47421140, MY47421148, MY47421152, MY47421155, MY47421158,  
MY47421159, MY47421160, MY47421162, MY47421172

**“Batch related power supply issue may result in a non-functioning instrument”**

### Parts Required:

| P/N         | Description  | Qty. |
|-------------|--------------|------|
| N5180-60060 | Power Supply | 1    |

**Suspect N5181A MXG instruments should be returned to Agilent Technologies for inspection and if necessary, Agilent covered repair.**

### ADMINISTRATIVE INFORMATION

|                                                                                                                                                              |                                                                                                                                             |                                                                                                                                      |                                                                                                                               |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------|
| SERVICE NOTE CLASSIFICATION:                                                                                                                                 |                                                                                                                                             |                                                                                                                                      |                                                                                                                               |
| <b>MODIFICATION RECOMMENDED</b>                                                                                                                              |                                                                                                                                             |                                                                                                                                      |                                                                                                                               |
| ACTION CATEGORY:                                                                                                                                             | <input type="checkbox"/> IMMEDIATELY<br><input type="checkbox"/> ON SPECIFIED FAILURE<br><input checked="" type="checkbox"/> AGREEABLE TIME | STANDARDS<br>LABOR: 1.0 Hours                                                                                                        |                                                                                                                               |
| LOCATION CATEGORY:                                                                                                                                           | <input type="checkbox"/> CUSTOMER INSTALLABLE<br><input type="checkbox"/> ON-SITE<br><input checked="" type="checkbox"/> SERVICE CENTER     | SERVICE INVENTORY: <input type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input checked="" type="checkbox"/> SEE TEXT | USED PARTS: <input checked="" type="checkbox"/> RETURN<br><input type="checkbox"/> SCRAP<br><input type="checkbox"/> SEE TEXT |
| AVAILABILITY:                                                                                                                                                | 7/1/2010                                                                                                                                    | NO CHARGE AVAILABLE UNTIL: 7/1/2010                                                                                                  |                                                                                                                               |
| AUTHOR: AKS                                                                                                                                                  |                                                                                                                                             | PRODUCT LINE: 15                                                                                                                     |                                                                                                                               |
| ADDITIONAL INFORMATION: SPO did not receive any of the suspected power supplies. All suspected power supplies, in the field, were shipped only in new units. |                                                                                                                                             |                                                                                                                                      |                                                                                                                               |

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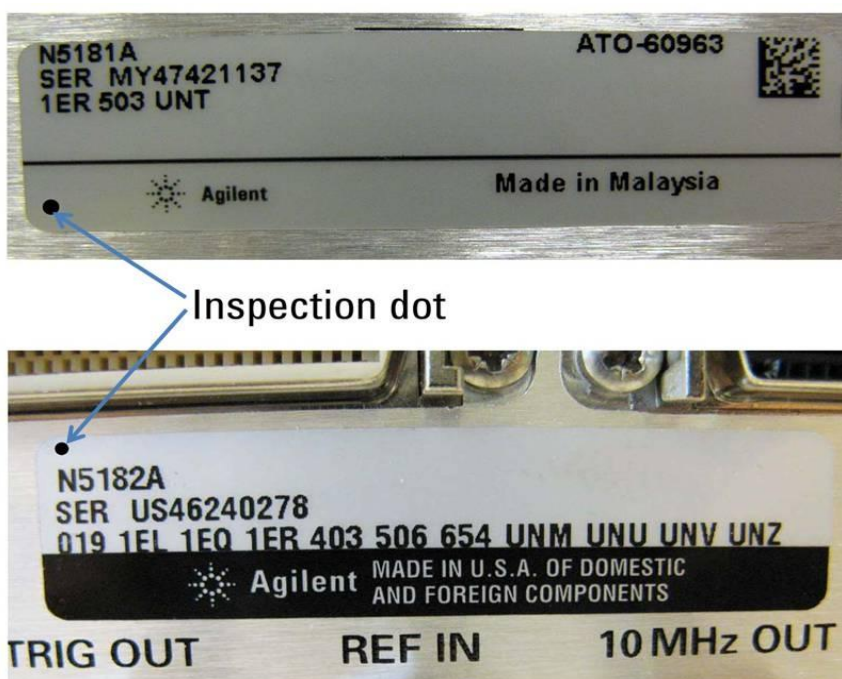
**Situation:**

A functional and potential reliability concern due to a batch related issue has been identified on a few MXG Signal Generators. This identified issue can cause a MXG not to power on properly. No safety issue exists due to this component issue, only the concern that the MXG could not operate properly.

Only N5181A model MXG's with the serial numbers identified in this Service Note are suspected of having this batch related issue.

**Solution/Action:**

1. For a suspected N5181A, check the rear panel serial tag for a small black inspection dot (see images below). If a black dot is present, similar to what is depicted, the instrument has been checked or previously repaired and no further action is required
2. If the dot is missing proceed to step 3.



3. Remove the external and then the internal top cover; using the instructions in the MXG Service Guide.
4. Check the A1 power supply serial number. (See images below for location and examples). The power supply identification label can be located on either the top or sides of the power supply.

## Identification label locations



## Examples:

The serial numbers below are the 10 alpha-numeric digits on the identification label. In the following examples the formatting is different between identification labels. The serial numbers depicted are KR73502511 and KR73501295.



5. If the suspected A1 power supply serial number does not match one of the suspected power supply serial numbers listed below, go to step 7. If the serial number is on the list, continue to step 6.

|             |             |             |             |             |             |
|-------------|-------------|-------------|-------------|-------------|-------------|
| KR81103285, | KR81103297, | KR81103301, | KR81103303, | KR81103307, | KR81103308, |
| KR81103309, | KR81103338, | KR81103340, | KR81103343, | KR81103344, | KR81103358, |
| KR81103371, | KR81103380, | KR81103387, | KR81103388, | KR81103389, | KR81103405, |
| KR81103415, | KR81103420, | KR81103426, | KR81103428, | KR81103429, | KR81103430, |
|             | KR81103433, | KR81103454, | KR81103455, | KR81103473  |             |

6. Following the step by step instructions in the MXG Service Guide, remove and replace the power supply.
7. Following the instructions in the MXG Service Guide, re-assembly the MXG.
8. Following the Manual Performance Tests documented in Chapter 4 of the Service Guide, perform instrument Self Tests.

**Note: Product Design Engineering has confirmed that full TME performance tests are not required after inspecting and repairing the instrument in accordance to this Service Note.**

9. If the generator passes all the Self Tests go to step 10. If the generator fails any of these tests, use the troubleshooting procedure in the Service Guide to repair the instrument.

#### **Identifying inspection and or repair has been completed**

10. Using a permanent marker, place a black dot on the serial tag as depicted in step 1. Doing so will assist in future quick recognition that a specific unit has been inspected or repaired.
11. The instrument is now ready for use.

#### **Return the removed suspect power supply for analysis:**

The suspected affected power supply needs to be returned to the Asian Manufacturing Center (AMC). Send the assembly to:

Agilent Technologies Microwave Products (Malaysia) Sdn.Bhd.  
Bayan Lepas Free Industrial Zone,  
11900 Penang,  
Malaysia.

Attention: Ang May Yin (telnet: 1- 680-7034)

Reference this Service Note **N5181A-03** in all correspondence.