

SAFETY – IMPLEMENTED DURING NORMAL COURSE  
OF PROVIDING SUPPORT

**53310A-04A-S**

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

Supersedes:  
53310A-04-S

**53310A Modulation Domain Analyzer (Option 010)**

**Serial Numbers:** KY92700053/KY93200235 (Option 010 units only)  
MY40000152/MY40000527 (Option 010 units only)  
SG40000334/SG40000374 (Option 010 units only)

**POTENTIAL SHOCK HAZARD**

**WARNING**

**Chassis ground wire may detach and contact line voltage. Shock hazard will then exist if the instrument is not grounded through the line cord.**

**To Be Performed By: Agilent-Qualified Personnel**

**Parts Required:**

P/N	Description	Qty.
53310-67101	Alternate Ground Kit	1

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:			
<b>SAFETY</b>			
ACTION CATEGORY:           x ON SPECIFIED FAILURE x AGREEABLE TIME		STANDARDS: LABOR: 0.5 Hours	
LOCATION CATEGORY: <input type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE x SERVICE CENTER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP x SEE TEXT	USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP x SEE TEXT	
AVAILABILITY:           ALWAYS	AGILENT RESPONSIBLE UNTIL: ALWAYS		
AUTHOR: DLL	PRODUCT LINE: 9E		
ADDITIONAL INFORMATION:			

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**Situation:**

Rivets used to secure the ground lugs to the instrument chassis are too short. The rivet attachment may fail which detaches the ground lugs from the chassis. The wires attached to the ground lugs can move allowing the ground lugs to contact line voltage inside the 53310A. If this condition occurs in a 53310A that is properly grounded through the line cord the line fuse will open protecting the operator from this potential hazard.

However, the combination of all of the following conditions will create a hazard to the operator (line voltage present on the instrument chassis):

- The instrument is connected to the power source (line) and the recommended ground connection through the power cord is open,
- The ground wire has become detached (as described above), and
- The detached ground wire comes in contact with line voltage (line voltage is present on a switch terminal adjacent to the ground wire lug)

**Solution/Action:**

A modification kit is available that replaces the existing connections through the ground lugs. The wires to the ground lugs are removed and connected to a new grounding point secured by a large (6 mm) screw. This screw attaches to the rear panel through a vent slot adjacent to the rear panel toggle switch. Installation instructions are provided with the modification kit.

Agilent Service Centers should install this modification on all eligible instruments that come into the service center for any reason.

Arrangements for Agilent to install this modification can be made by contacting your local Agilent Service Center. Phone numbers can be found at:

<http://www.agilent.com/find/contactus>

Please reference this Service Note when arranging for this modification.

NOTE: No hazard exists when the instrument is properly grounded (the instrument is designed to be grounded for all measurement applications). If the user verifies that a proper ground connection is made through the power cord, then this modification can be delayed to coincide with the next calibration event.

**Identification of Instruments Previously Modified:**

The large screw (6 mm) that is secured to the rear panel through the vent slot adjacent to the rear panel toggle switch provides an easy way to recognize the Option 010 -- 53310A instruments that have already been modified.