

MODIFICATION RECOMMENDED

E8363C-02A

S E R V I C E N O T E

Supersedes:
E8363C-02

E8363C PNA Microwave Network Analyzers

Serial Numbers:

MY00000000-MY48500000, SG00000000-SG48500000, US00000000-US48500000

A new touchscreen display inverter shield is available to improve PNA noise floor performance.

Parts Required:

P/N	Description	Qty.
N5230-00017	Inverter Shield	1

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:		
MODIFICATION RECOMMENDED		
ACTION CATEGORY:	ON SPECIFIED FAILURE	STANDARDS LABOR: 0.5 Hours
LOCATION CATEGORY:	ON-SITE SERVICE CENTER	SERVICE INVENTORY: N/A USED PARTS: SCRAP
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL: end of service life
Calibration Not Required		PRODUCT LINE: WN AUTHOR: MF
ADDITIONAL INFORMATION: Affected PNA Models: E836xC & E8362/3/4CH85. Service Note History: E8363C-02 released Jan 2009. E8363C-02A released Dec 4, 2012 to revise serial numbers.		

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Situation:

Some PNA C-models may exhibit poor noise floor performance caused by inverter shield N5230-00013.

Solution/Action:

NOTE: The PNA contains extremely sensitive components that can be ruined if mishandled. The person performing the work accepts responsibility for the full cost of the repair or replacement of damaged components.

All cables, including wire harnesses and ribbon cables, that are removed should be labeled for reconnection later. Follow instructions carefully when making cable connections, especially wire harness connections.

If a PNA C-model exhibits poor noise performance, examine the inverter shield to see if it is the N5230-00013. Figure 1 shows that the N5230-00013 shield has vent holes. If present, replace the old shield (N5230-00013) with the new shield (N5230-00017) as per the following instructions.

Refer to the PNA Service Guide for instruction on removing the PNA front panel. To view this Service Guide information, use the following steps:

1. Go to <http://www.agilent.com>.
2. Enter your PNA model number (Ex: E8363C) in the **Search** box and click **Search**.
3. Scroll down to the heading **Manuals** 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 title/hyperlink for the section "Removing & Replacing the Front Panel Assembly."
7. Follow the instructions in the subsection "Removal Procedure."
8. Once the front panel has been removed from the PNA, place it on a flat surface. Figure 1 shows that the N5230-00013 inverter shield has vent holes.

Figure 1



Figure 1: Old inverter shield N5230-00013

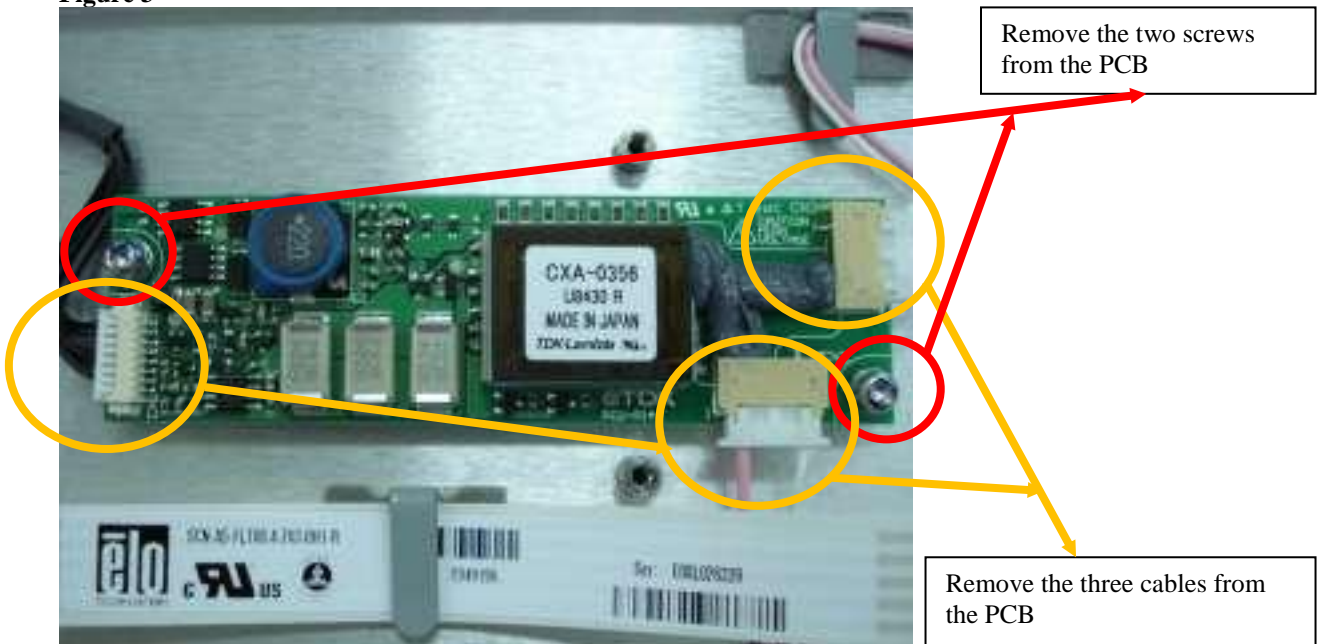
9. Loosen the two screws on the inverter shield shown in Figure 2, using a T-10 wrench.

Figure 2



10. Remove the two screws from the PCB shown in Figure 3, using a T-10 wrench.
Disconnect the three cables connected to the PCB.

Figure 3



11. Slide the PCB into the new shield (N5230-00017), as shown in Figure 4.

Figure 4



12. Position the shield and PCB on the display assembly frame, as shown in Figure 5.

Use a T-10 wrench to reinstall the two screws on the PCB. Reconnect the cables on the PCB.

Figure 5



13. The finished repair is shown in Figure 6.

Figure 6



14. Replace the front panel assembly on the PNA as per “Removing and Replacing the Front Panel Assembly” in the Service Guide.