

MODIFICATION RECOMMENDED –  
CORRECTS MANUFACTURING OR DESIGN DEFECTS

**E4419B-17A**

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

Supersedes:  
E4419B-17

**Agilent E4419B EPM Average Power Meter**

**Serial Numbers: GB00000000/GB99999999, MY00000000/MY45100720,  
SG00000000/SG45100230**

**Front Panel Display Problems Caused by Power Assembly Cable**

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

**Parts Required:**

<b>P/N</b>	<b>Description</b>	<b>Qty.</b>
E4418-61005	Power Cable Assembly without battery option	1

**ADMINISTRATIVE INFORMATION**

SERVICE NOTE CLASSIFICATION:			
<b>MODIFICATION RECOMMENDED</b>			
ACTION CATEGORY:	<input type="checkbox"/> IMMEDIATELY <input type="checkbox"/> ON SPECIFIED FAILURE <input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS:	LABOR: 0.5 Hours
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input type="checkbox"/> RETURN <input checked="" type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	AGILENT RESPONSIBLE UNTIL: 1 <sup>st</sup> April 2009 for All Warranty Units.	
AUTHOR: CH	PRODUCT LINE: WC		
ADDITIONAL INFORMATION:			

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December 5, 2005

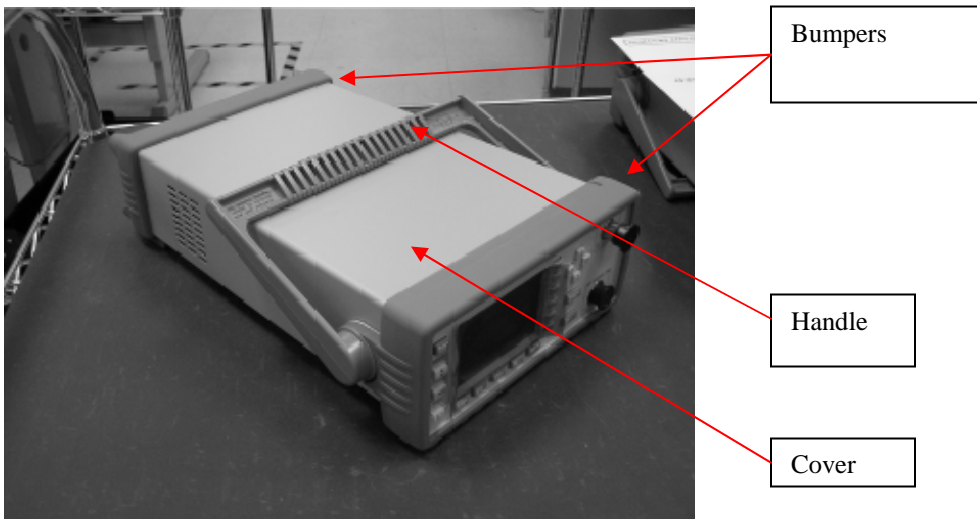
**Situation:**

Recent analysis shows that a lot of problems are caused by the front panel display. The front panels display either blank, flicker or shut down after switch on for some time. After detail troubleshooting the problems, the root cause was found to be with the power cable assembly.

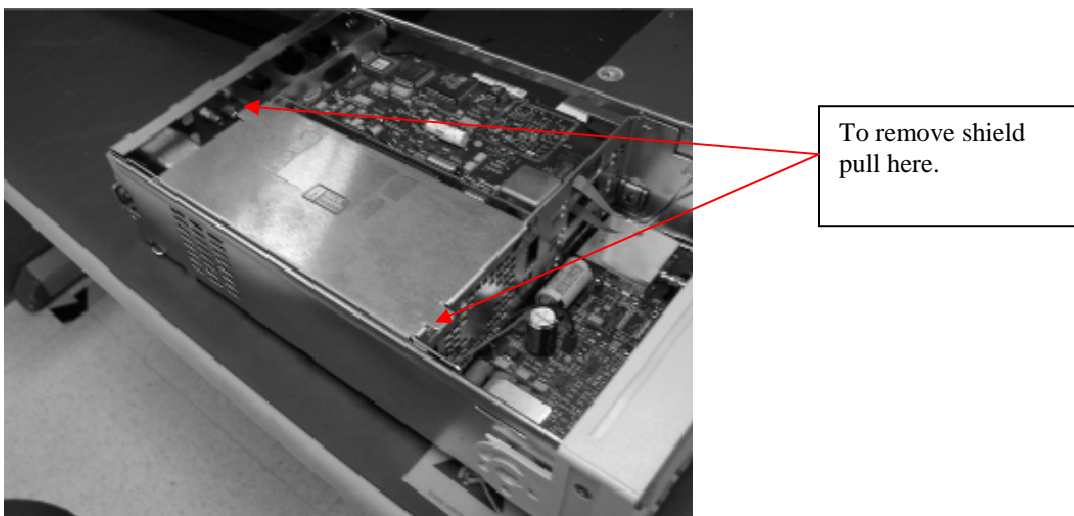
**Solution/Action:**

This Service Notes is to guide engineers on how to change the power cable assembly in E4416A.

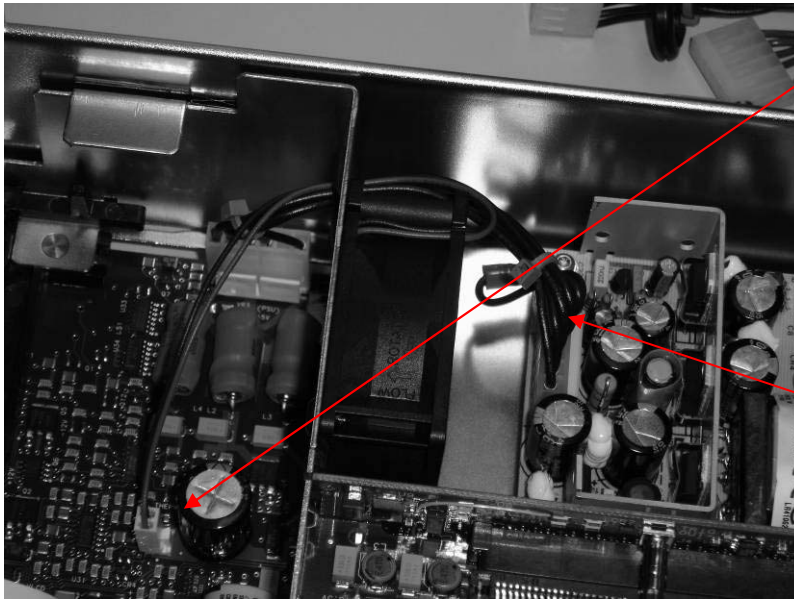
- 1) Remove bumpers, handle and cover.



- 2) Remove power supply shield



- 3) Remove fan connector and PSU cable assembly and replace with new PSU cable assembly E4418-61005. You can differentiate the cable assembly by the colors. The old cable is Black and new cable is RED.

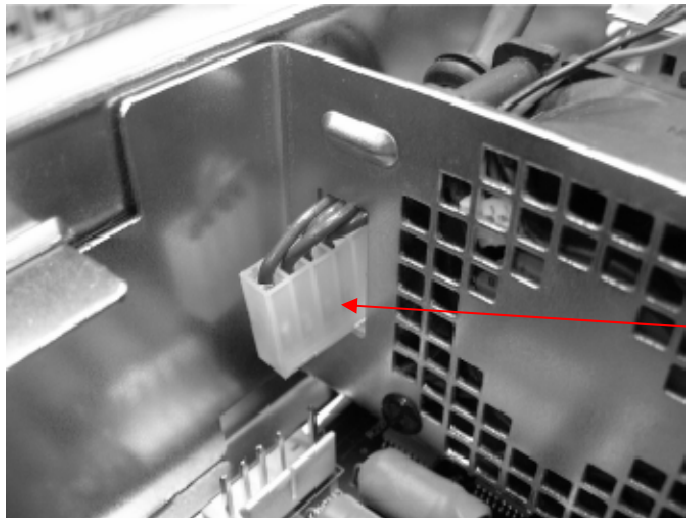


Fan connector

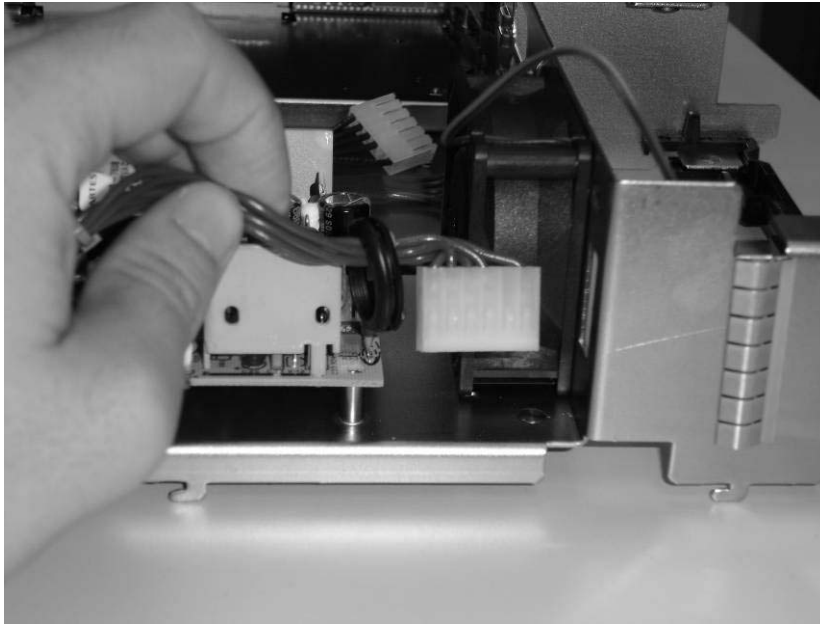
PSU cable New cable is RED in color

- 4)

- 5) Here are some tips regarding the new cable. Since the plastic casing is slightly bigger in size, so you cannot directly pass through connector through hole. So you need to insert the cable horizontally. See illustration below.

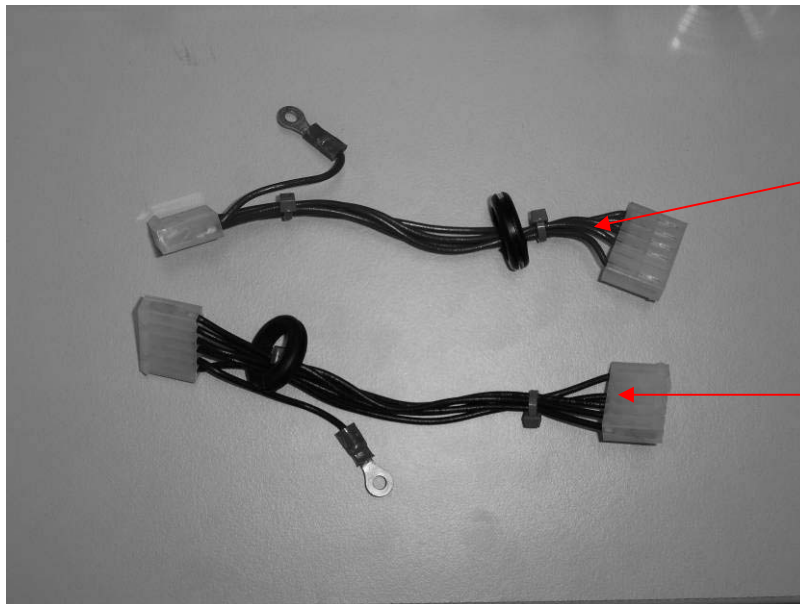


Insert the plastic casing horizontally



6)

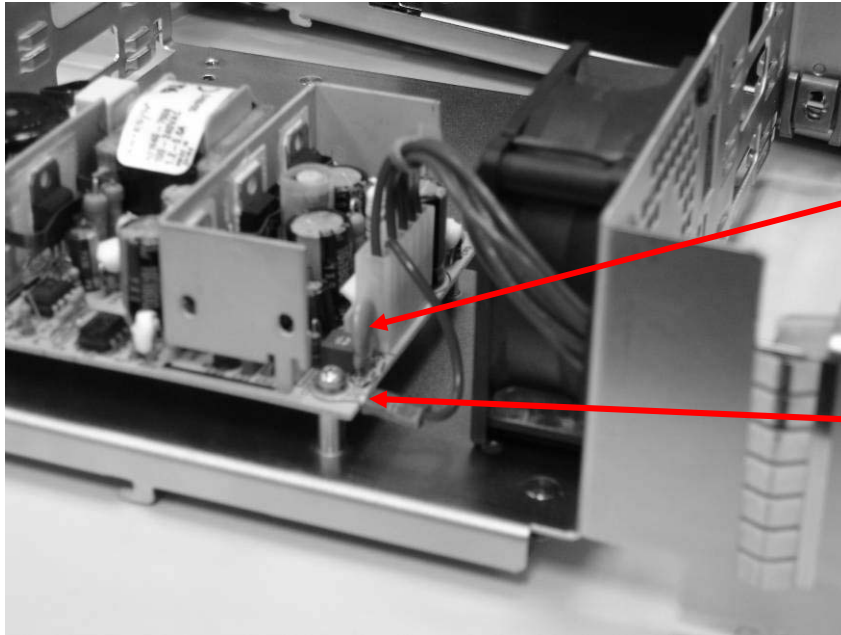
7) Photo below show different of old and new cable. The new cable is red in color whereas the old cable is black in color. The E4418-61005 has 1 ground wire.



New cable assembly

Old cable assembly

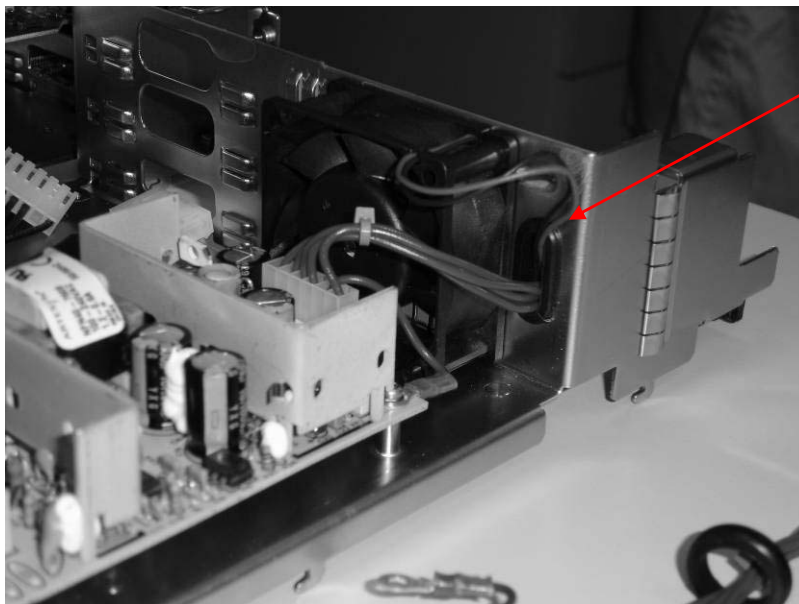
Note: If the power cable assembly is red in color, indicates that the cable already been changed. No action is needed.



Yellow Capacitor.

Ground wire connected to PCB

10) This picture above shows the ground wire connection to the PCB. Please be aware that the ground connection is very close to the leg of the yellow capacitor. PLEASE DO NOT LET THE GROUND WIRE TOUCHES THE CAPASITOR'S LEG.



The Fan wire goes into the rubber.

- 8) Place back the power supply shield.
- 9) Place back the Cover, Handle and bumpers.

**CAUTION**

- Do not dismantle the front panel.
- Do not touch the 1mW reference.
- Once the front panel is dismantled or 1mW is affected, service and calibration are needed.
- Information about verification of 1mW is documented in service guide.