

SAFETY – IMPLEMENTED DURING NORMAL COURSE  
OF PROVIDING SUPPORT

**E4418B-08A-S**

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

Supersedes:  
E4418B-08-S

## Agilent E4418B EPM Power Meter

### Serial Numbers:

**E4418B-101**

**GB00000000 to GB99999999, US00000000 to US99999999, MY00000000 to MY45102182**

### **E4418B-001 (Battery Option)**

**GB00000000 to GB99999999, US00000000 to US99999999, MY00000000 to MY99999999**

### POSSIBLE SHOCK HAZARD

**WARNING**

### **HAZARD CLASS 3**

Failure to take heed of the information contained in this safety service note may lead to a repaired unit failing to meet the creepage and creepage requirements for the altitude specification of 3,000m. In this instance, the unit will fail to comply with the following standards; IEC 61010-1:2001, EN 61010-1:2001 and CAN/CSA C22.2 No 61010-1:04. Agilent currently claim compliance with these standards in the unit specifications

## Correct Orientation of the Power Supply's Force-fit Connector

### ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:			
<b>SAFETY</b>			
ACTION CATEGORY:	<input checked="" type="checkbox"/> AGREEABLE TIME	STANDARDS	LABOR: 0.25 Hours
LOCATION CATEGORY:	<input checked="" type="checkbox"/> CUSTOMER INSTALLABLE <input type="checkbox"/> ON-SITE <input checked="" type="checkbox"/> SERVICE CENTER <input type="checkbox"/> CHANNEL PARTNER	SERVICE INVENTORY: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT	USED PARTS: <input type="checkbox"/> RETURN <input type="checkbox"/> SCRAP <input type="checkbox"/> SEE TEXT
AVAILABILITY:	EOS	NO CHARGE AVAILABLE UNTIL: EOS	
AUTHOR:	LCW	PRODUCT LINE: DISCO	
ADDITIONAL INFORMATION: <i>Before proceeding with this service request, kindly check the service history for the received E4419B based on its serial number. If the E4419B had been serviced per service note E4419B-8-S, no further service is required for the E4419B. This check should be carried out once only on the E4419B units returned for calibration or repair.</i>			

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PRINTED IN U.S.A.

January 3, 2012

Rev. 20



**Agilent Technologies**

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**Situation:**

It has been highlighted that the force-fit connector connecting the earth wire to the Power Supply Unit, (P/N: 0950-3681) can be fitted in two different ways on the E4418B.

By fitting the connector with the bottom (flat) side facing the large capacitor on the Power Supply Unit, the gap between them is maximized (approximately 2mm).

By fitting the connector with the top (rounded) side facing the large capacitor on the Power Supply Unit, the gap between them is minimized (approximately 1.2mm).

The gap should be maximized at all times to ensure the unit meets the design and regulatory requirements relating to electrical insulation. This requirement is such that the gap should be at least 1.71mm.

**Solution/Action:****Attention:**

*Before proceeding with this service request, kindly check the service history for the received E4418B based on its serial number. If the E4418B had been serviced per service note E4418B-8-S, no further service is required for the E4418B. This check should be carried out once only on the E4418B units returned for calibration or repair.*

**1) For E4418B**

The Power Supply Unit, P/N: 0950-3681 has been replaced by another Power Supply Unit, P/N: 0950-2649 for the standard E4418B since June 2007 for E4419B with serial number MY45102182. The design layout of 0950-2649 is different from 0950-3681 and does not cause the possible shock hazard as described in this service note.

**Therefore, no further service is required for the E4418B starting from MY45102182.**

The interior layout of the respective power supply unit is shown in figure 1 and figure 2.



Figure 1: Interior Layout of Power Supply Unit, P/N: 0950-3681



Figure 2: Interior Layout of Power Supply Unit, P/N: 0950-2649

## 2) For E4418B-001

The Power Supply Unit, P/N: 0950-3681 is still used in all the E4418B with battery option (Option 001).

During the replacement of the Power Supply Unit, the force-fit connector will be disconnected.

Ensure that this connector is re-fitted such that the bottom (flat) side of it is facing the large capacitor on the Power Supply Unit, P/N: 0950-3681.

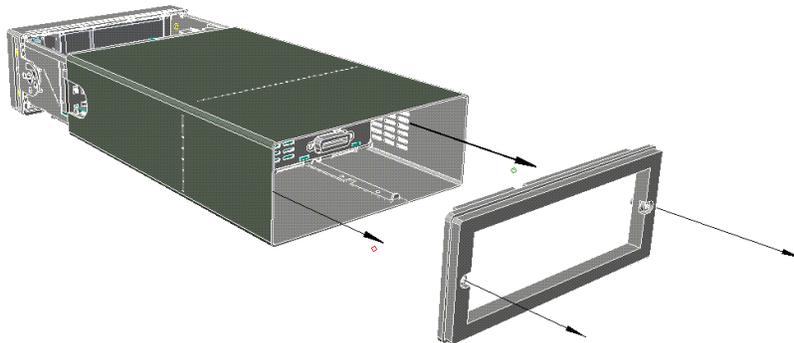


Figure 3: Correct orientation of force-fit connector.

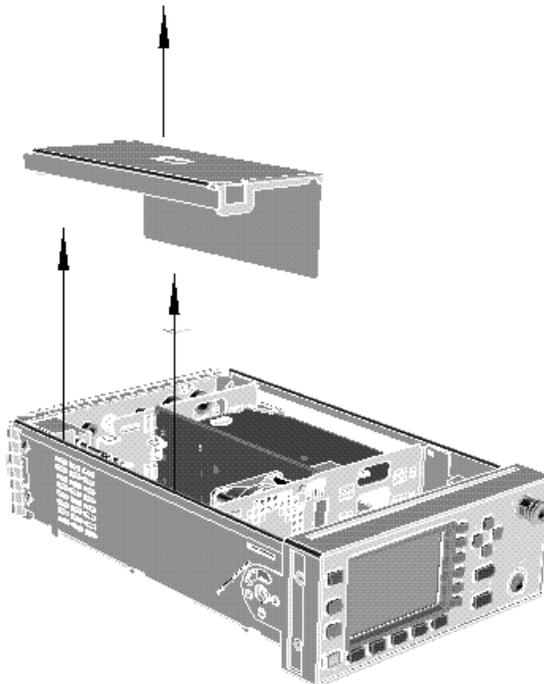
Note: Refer to the Appendix below for the disassembly process

## Appendix – Disassembly Procedure

1. Remove the optional battery if fitted before removing the cover as shown below.



2. Remove the power supply cover by lifting it out as shown below.



3. Check if the bottom (flat) side of the force-fit connector is facing the large capacitor on the Power Supply Unit, P/N: 0950-3681.