

# E4445A-17A

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

Supersedes:  
E4445A-17

### E4445A - PSA Series Spectrum Analyzer

Serial Numbers: All Units

#### Rear Panel Label Available to Indicate When Battery Should be Replaced

**Parts Required:**

P/N	Description	Qty.
E4440-80582	Label, CPU Battery Replacement date	1

### ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION: <b>INFORMATION ONLY</b>	
AUTHOR: KL	PRODUCT LINE: 12
ADDITIONAL INFORMATION:	

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**Situation:**

The PSA uses a lithium battery on the CPU assembly to power the non-volatile memory (NVRAM). Instruments with serial prefix US/MY/SG4825 and prior have a battery that has a lifespan of three years with normal usage. Instruments with serial prefix US/MY/SG4924 (October 2009) and later have a battery with a lifespan of approximately five years with normal usage. Instruments put into storage will have a significantly shorter battery lifespan due to the battery being continually drained. There was previously not a way to determine the age of the lithium battery in an instrument. When the battery dies, the following instrument settings will revert to their factory defaults: GPIB address, Remote Language, Auto Alignment, Power on Preset, Time and Date. Also, when the battery dies, the instrument will give the following message upon boot up to indicate that the calibration data was restored from EEPROM: “+609, Restoration of NVRAM data”

**Solution/Action:**

A label is now available to indicate when the lithium battery on the CPU assembly should be changed. On the label, write the appropriate month and date for when the battery should be replaced and place the label on the CPU plate at the back of the instrument next to the serial port. The life span of the 1420-0314 battery used in the E4406-60060 / E4406-69060 or E4406-60242 / E4406-69242 CPU is three years (at 25 degrees C). The life span of the 1420-0905 battery used in the E4406-60243 / E4406-69243 CPU is five years (at 25 degrees C). For example, when replacing the 1420-0314 battery for an instrument where today's date is March 31, 2010, write “March, 2013” on the label using a permanent marker. For instruction on how to replace the lithium battery on the CPU assembly, please refer to the PSA Service Guide. The PSA service guide is available on the internal Agilent web at <http://mktdev.soco.agilent.com/field/service/signal/psa>. The PSA service guide is available to customers as the following model / option upgrade: E4440AU-0BW

Figure 1: Location of Label on Rear Panel



Figure 2: Blank label for the month and year to be written on

