

**E4417A-13**

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

Supersedes:  
NONE

## EPM-P Power Meter

**Serial Numbers:** ALL

**Compatibility between front panel assembly and processor assembly.**

**Parts Required:**

| P/N  | Description | Qty. |
|------|-------------|------|
| NONE |             |      |

## ADMINISTRATIVE INFORMATION

|                              |                  |
|------------------------------|------------------|
| SERVICE NOTE CLASSIFICATION: |                  |
| <b>INFORMATION ONLY</b>      |                  |
| AUTHOR: CH                   | PRODUCT LINE: WC |
| ADDITIONAL INFORMATION:      |                  |

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Rev. 15



**Situation:**

Agilent Technologies is changing the design of its EPM-P power meter's front panel assembly due to the obsolescence of LCD's IC controller resides inside the front panel assembly. This new version of front panel assembly is incompatible with the old version of processor assembly. The performance and functions of the power meter remain the same. The replacement and calibration procedures remain the same as well. Please refer below for the part numbers to be ordered.

| Description                                                                  | Agilent Part Number |
|------------------------------------------------------------------------------|---------------------|
| Processor Assembly                                                           | E4416-60006         |
| Front Panel Sub-assembly                                                     | E4416-61024         |
| Front Panel Assembly for:<br>Agilent E4417A and<br>Agilent E4417A Option 002 | E4417-61001         |
| Front Panel Assembly for:<br>Agilent E4417A Option 003                       | E4417-61002         |

**Solution/Action:**

When replacing any of the assemblies, it is important to ensure that both assemblies are compatible with each other in order to function properly. It is a must to have the revision for both front panel assembly and processor assembly checked before and after the replacement. The compatibility table is as shown below.

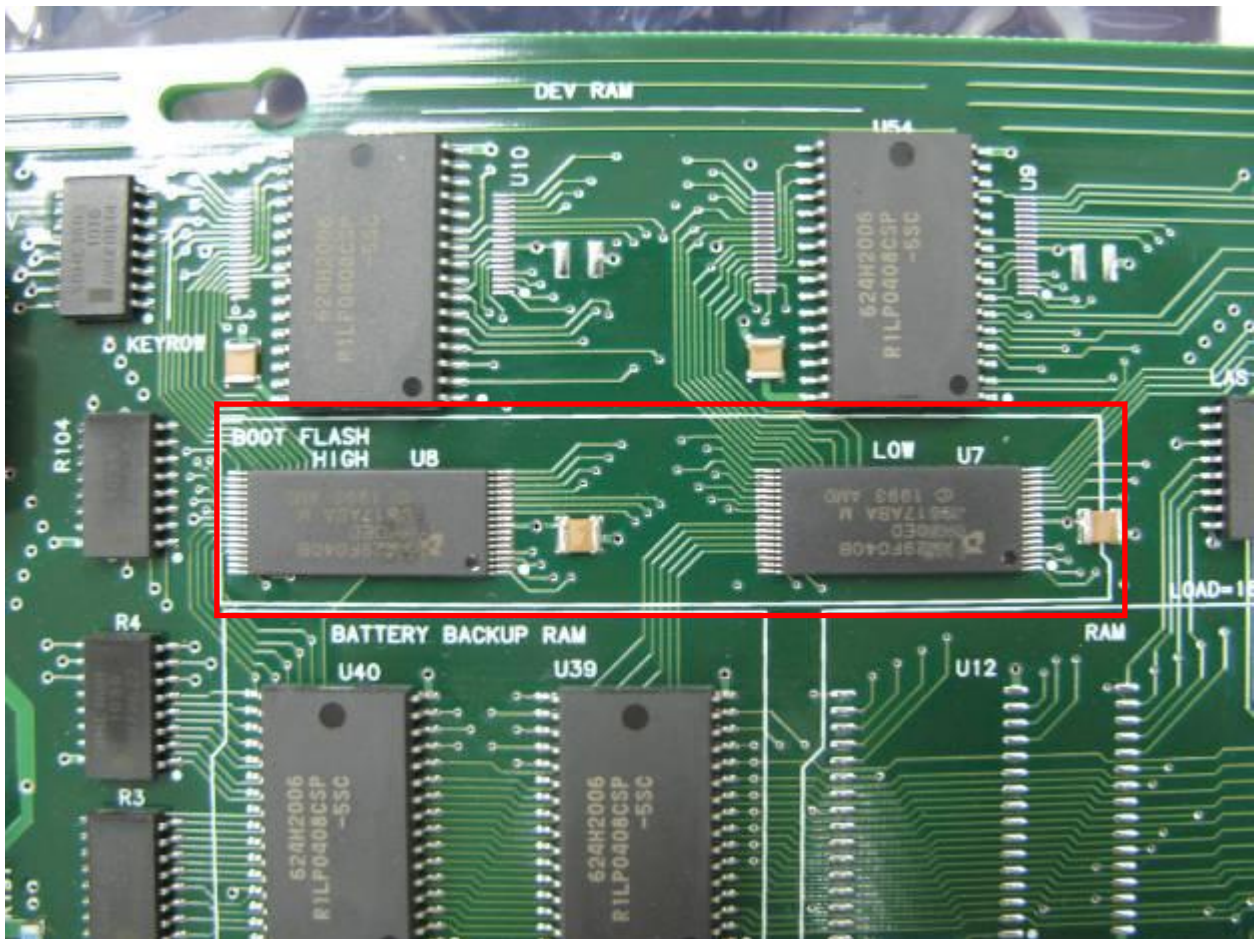
|                                   | Old version of front panel assembly | New version of front panel assembly |
|-----------------------------------|-------------------------------------|-------------------------------------|
| Old version of processor assembly | Compatible                          | Incompatible                        |
| New version of processor assembly | Compatible                          | Compatible                          |

The revision of the front panel assembly and processor assembly can be differentiated based on instructions below.

### Processor Assembly

The new processor assembly can be differentiated through U7 and U8 on the assembly.

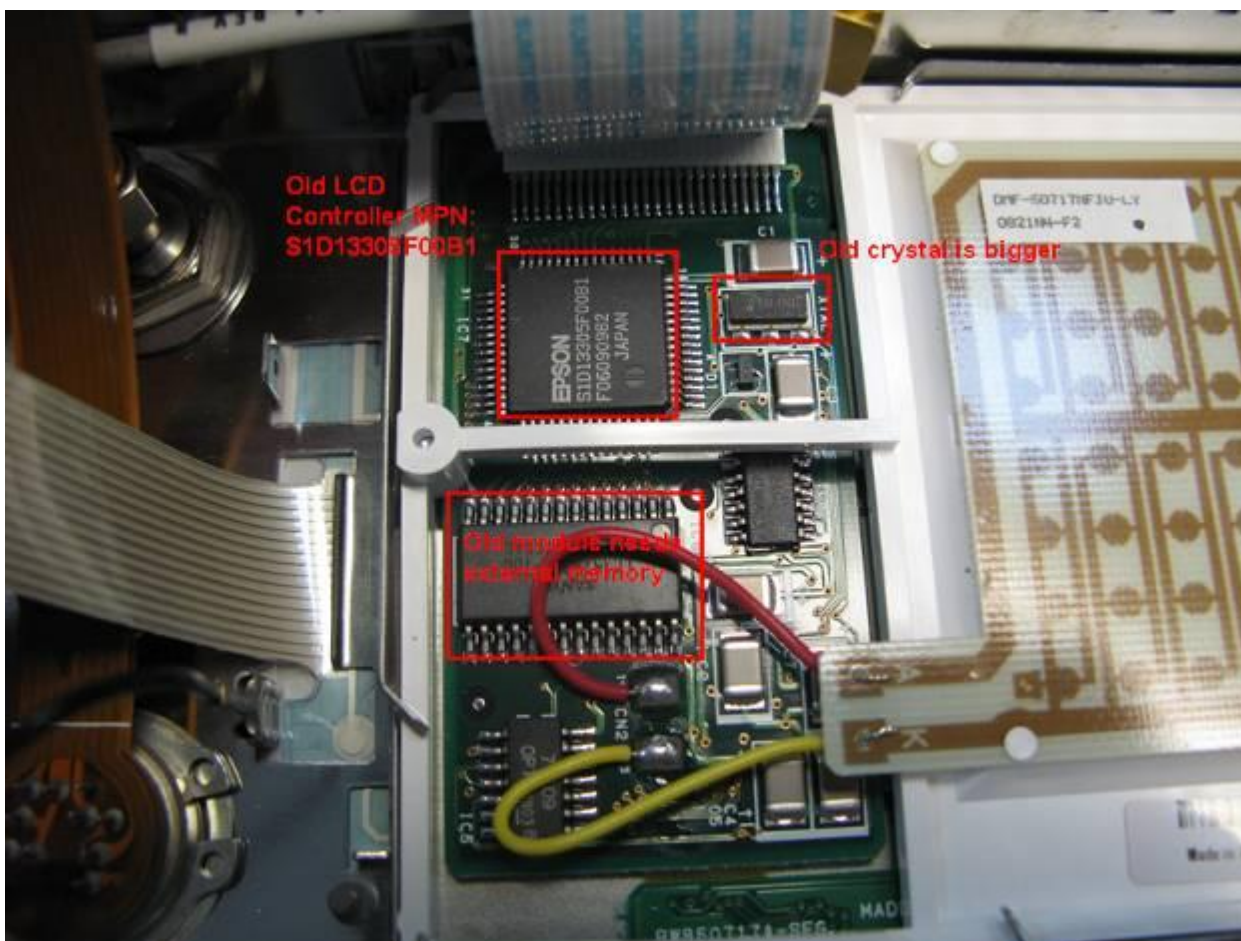
1. Zoom to location U7 and U8 of the processor assembly.



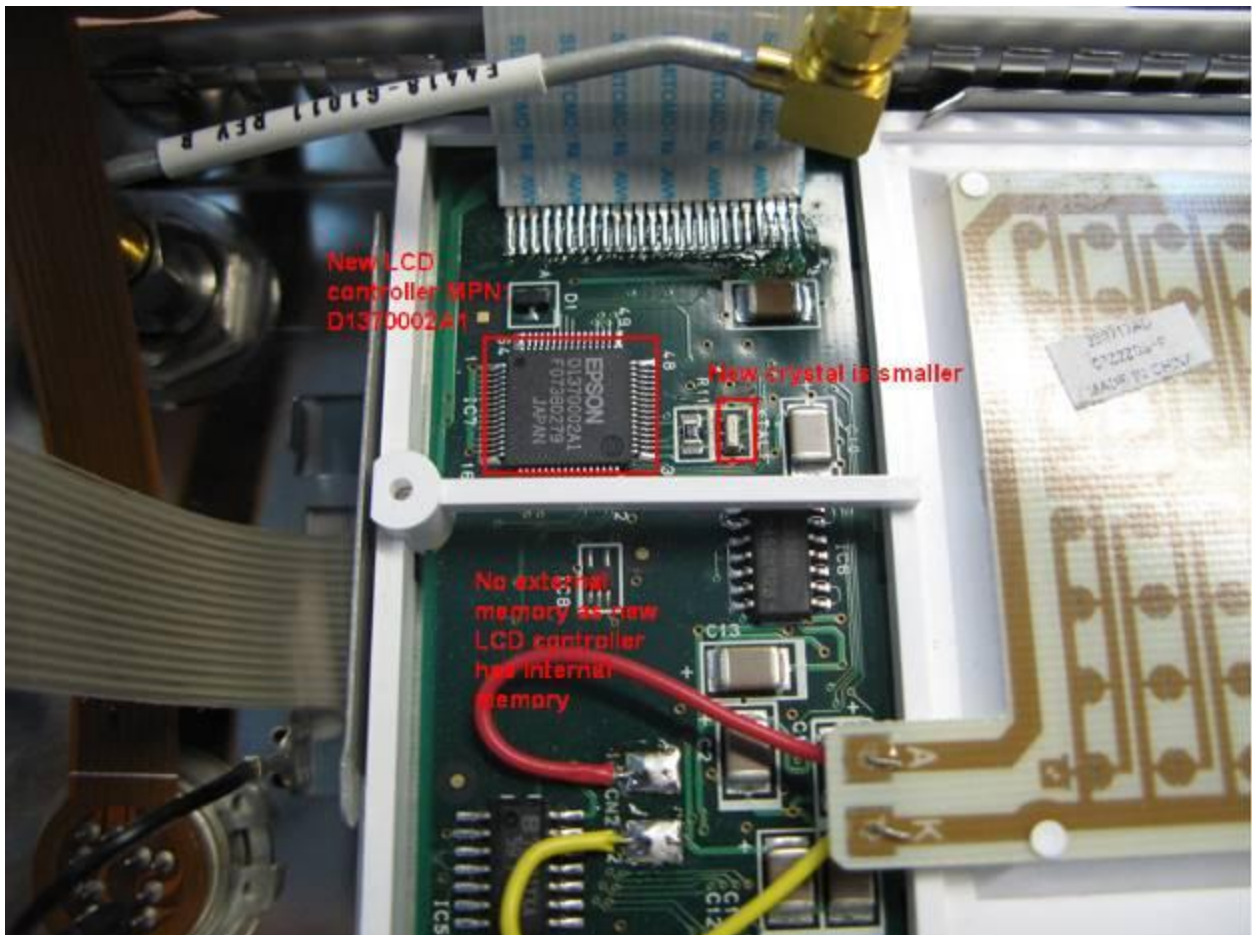
2. Verify that the 5X5 part number on the flash IC is E4416-80003 and E4416-80004 for U7 and U8 respectively. The old 5X5 part number is E4416-80001 and E4416-80002 for U7 and U8 respectively.

Front Panel Assembly (for standard option, option 002 and option 003)

The new front panel assembly can be differentiated through some components as illustrated below.



Old Front Panel Assembly



New Front Panel Assembly