

E7515A-01C

Modification Recommended Service Note

Supersedes:
E7515A-01B

E7515A UXM Wireless Test Set

Serial Numbers: MY54010001 → MY57159999
TH54010001 → TH57159999

Modify the Embedded PC to improve boot reliability.

Parts Required:

| P/N | Description | Qty. | |
|-------------|------------------------|------|--------------------------------------|
| 1819-1185 | Micron SDRAM DDR3L 4GB | 2 | |
| N5101-20005 | Bumper square poron | 1 | |
| E7515-40021 | Bumper poron | 1 | |
| 1400-3557 | 4in Cable Tie ESD Safe | 6 | (OK to use equivalent ESD cable tie) |
| 1400-0482 | 11in Cable Tie | 2 | (OK to use equivalent ESD cable tie) |

ADMINISTRATIVE INFORMATION

| | | | |
|---------------|---|----------------------------|--|
| ACTION | <input checked="" type="checkbox"/> ON SPECIFIED FAILURE | STANDARDS | |
| CATEGORY: | <input type="checkbox"/> AGREEABLE TIME | LABOR: | 1.0 Hours |
| LOCATION | <input type="checkbox"/> CUSTOMER INSTALLABLE | SERVICE: | <input type="checkbox"/> RETURN |
| CATEGORY: | <input type="checkbox"/> ON-SITE (active On-site contract required) | INVENTORY: | <input checked="" type="checkbox"/> SCRAP |
| | <input checked="" type="checkbox"/> SERVICE CENTER | | USED <input type="checkbox"/> RETURN |
| | <input type="checkbox"/> CHANNEL PARTNERS | | PARTS: <input checked="" type="checkbox"/> SCRAP |
| | | | <input type="checkbox"/> SEE TEXT |
| | | | <input type="checkbox"/> SEE TEXT |
| AVAILABILITY: | PRODUCT'S SUPPORT LIFE | NO CHARGE AVAILABLE UNTIL: | November 1 st 2018 |
| | <input checked="" type="checkbox"/> Calibration Required | PRODUCT LINE: | PL13 |
| | <input type="checkbox"/> Calibration NOT Required | AUTHOR: | PR |

ADDITIONAL INFORMATION:

Modifications to the Embedded PC within the UXM Wireless test set to improve boot reliability after transportation.

Situation:

The E7515A will fail to boot if either of the RAM modules on the Embedded PC are not fully engaged in the memory slots or if the gold plating on the RAM modules has been damaged during transportation shock and vibration.

A design change from MY5716xxxx onwards was implemented to improve the UXM boot reliability by changing RAM module supplier and changing the locking mechanism used to hold the RAM modules in place.

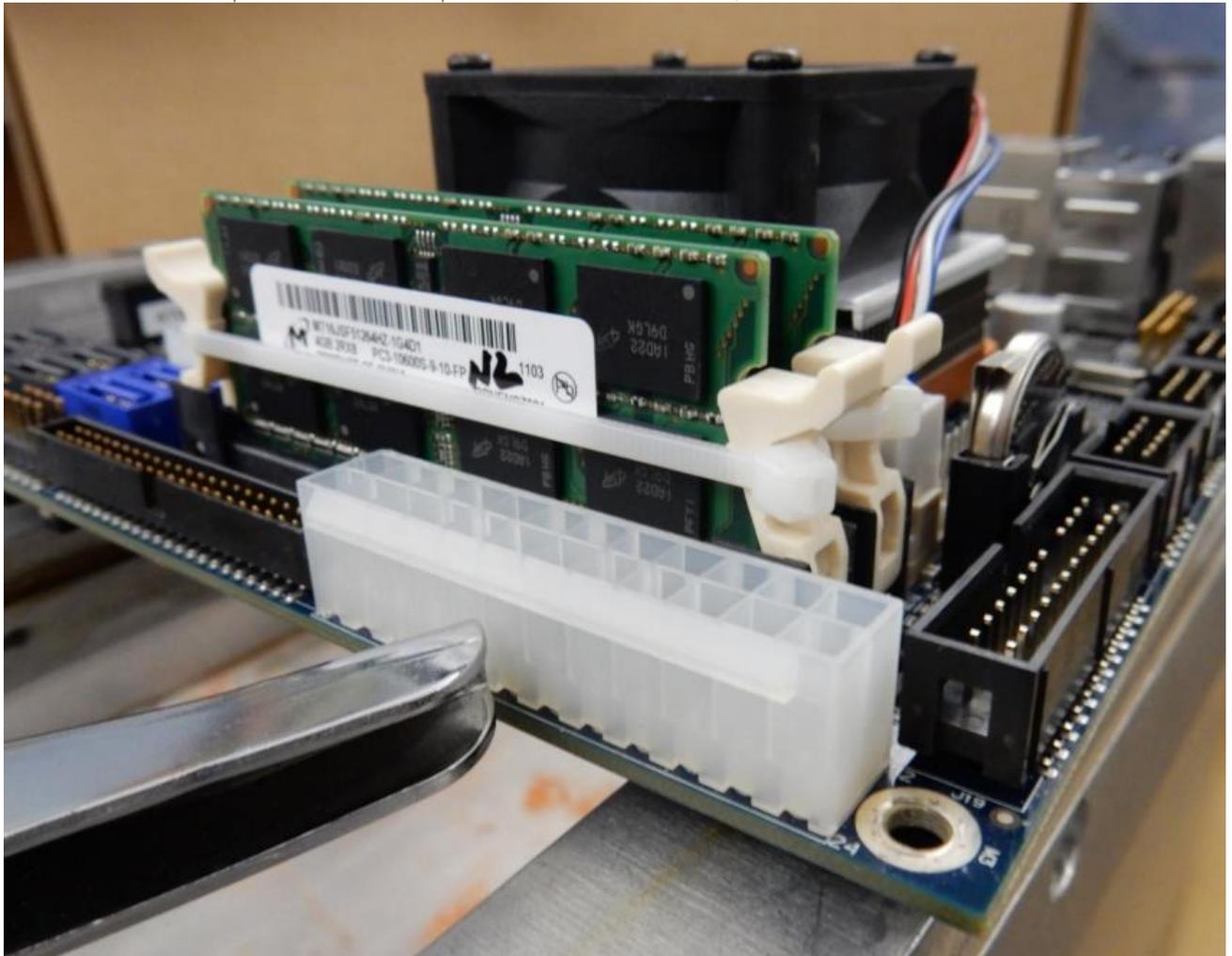
Extra padding was also added to the underside of the Embedded PC to further dampen the vibration and improve the boot reliability after transportation vibration.

Solution/Action:

1. Remove the outer covers from the instrument
2. Remove the Front Panel to fully inspect the RAM modules on the Embedded PC.
3. Replace the failing **SwissBit** or **Samsung** DRAM with **Micron** RAM part number - 1819-1185.
NOTE: You may need to cut away Glue or RTV holding the existing memory in place.

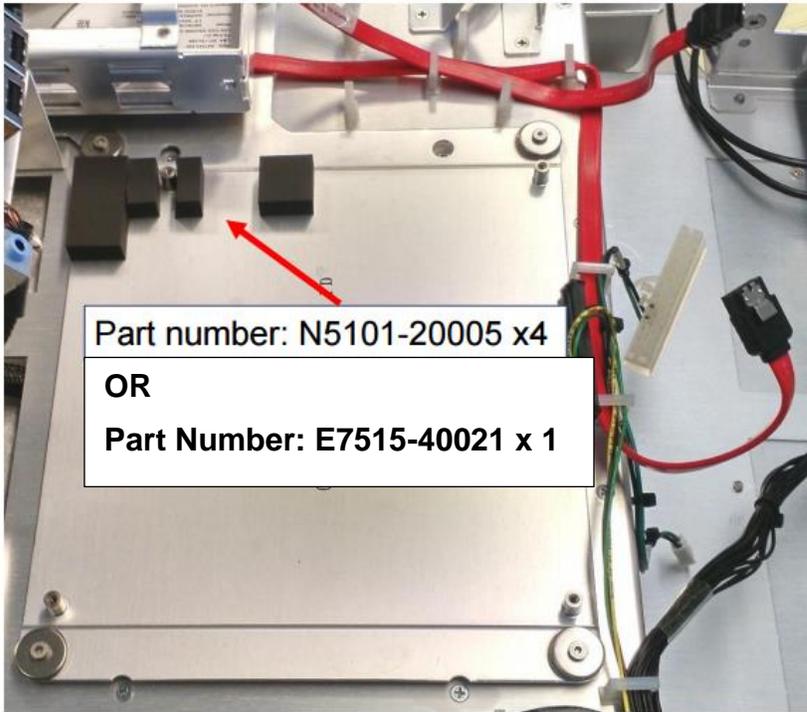


- Secure the RAM in place with ESD Zip Ties - 1400-0482 or equivalent



5. Inspect the underside of the Embedded PC and add 4x N5101-20005 or 1x E7515-40021 if not already installed.

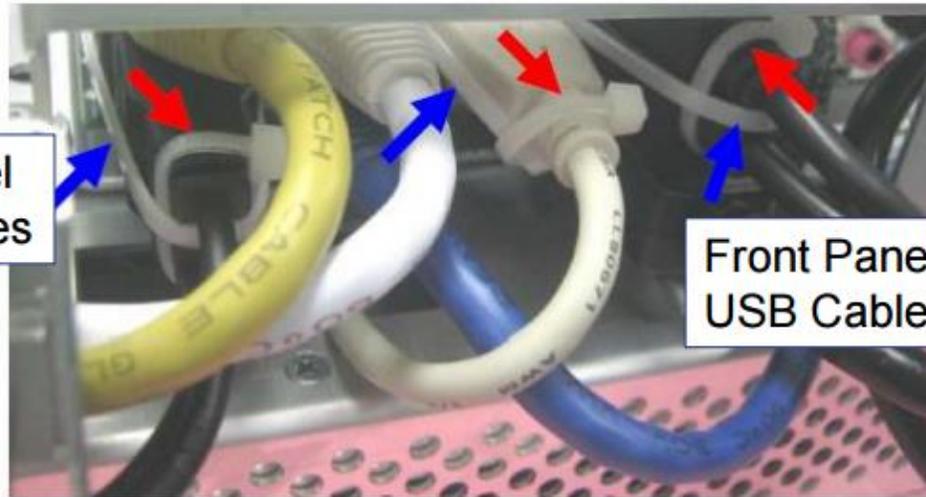
NOTE: If not using E7515-40021 you will need cut one square padding in half to straddle the standoff



6. Re-install the Embedded PC and attach cables. Add cable ties, 1400-3557, to the USB Cables



Touchscreen USB Cable (white)



Rear Panel USB Cables

Front Panel USB Cables

7. Fully reassembly the UXM and test the boot sequence to make sure the UXM is now operational. No re-calibration is required.

Revision History:

| Date | Service Note Revision | Author | Reason for Change |
|---------------|-----------------------|-------------|---|
| 11 Feb 2015 | 01 | Frank Corry | As Published |
| 23 Sept 2015 | 02 | Frank Corry | Revised to further improve reliability. Expanded the serial number range. Re-issued as E7515A-01A |
| 21 April 2017 | 03 | Paul Rooney | Revised to further improve reliability |
| 21 Aug 2017 | 04 | Paul Rooney | Add new replacement part numbers |