

E6680A-02

# Modification Recommended Service Note

Supersedes:  
NONE

## E6680A Wireless test set

Serial Numbers: E6680A units MY60370101 to MY61323029

The Problem – E6680A displays poor TX EVM results due to low power out. Also, can be displayed as self-test failures on the 11 volts supply.

### Parts Required:

P/N	Description	Qty.
M9414-69801	Refurbished M9414A TRX Module	1 TRX module
Or		
M9414-61801	M9414A Replacement TRX Module	1 TRX module

### ADMINISTRATIVE INFORMATION

ACTION	<input checked="" type="checkbox"/> ON SPECIFIED FAILURE	STANDARDS			
CATEGORY:	<input type="checkbox"/> AGREEABLE TIME	LABOR:	1.0 Hours		
LOCATION		SERVICE:	<input type="checkbox"/> RETURN	USED	<input checked="" type="checkbox"/> RETURN
CATEGORY:	<input type="checkbox"/> ON-SITE (active On-site contract required)	INVENTORY:	<input type="checkbox"/> SCRAP	PARTS:	<input type="checkbox"/> SCRAP
	X SERVICE CENTER		<input type="checkbox"/> SEE TEXT		<input checked="" type="checkbox"/> SEE TEXT
	<input type="checkbox"/> CHANNEL PARTNERS				
AVAILABILITY:	PRODUCT'S SUPPORT LIFE	NO CHARGE AVAILABLE UNTIL:	December 31, 2023		
	<input type="checkbox"/> Calibration Required	PRODUCT LINE:	PL13		
	X Calibration NOT Required	AUTHOR:	MJW		

### ADDITIONAL INFORMATION:

Only for specified serial number range of M9414A modules. Defective modules get returned to the factory for repair

Situation:

Customer will report that the E6680A has poor TX EVM results due to low power out. This failure displays itself as a self-test FAIL for the 11V supply test points.

Result	Test Limit	ABUSVoltage [V]	ABUS Node	Gain	Offset
Fail	(F) 8.2 < x < 13.6	1.01	Vmon_P11V_RF12	4.8381	0
Pass	8.1 < x < 13.5	10.58	Vmon_P11V_RF34	4.8381	0

**ABUS VMON\_P11V\_RF12 dropping to 0.7 to 0.9V (normally should be 10.8 V)**

This is caused by U160, on the RFIO board is missing a capacitor modification” which ties the VGG1 pin boards to ground.

**This service note only applies to M9414A SN: MY6036003 through to MY61220192**

Solution/Action:

Replaced the TRX module (PN: M9414-69801- Refurbished M9414A TRX Module)  
If refurbished module is not available use M9414-61801 - M9414A replacement TRX Module.

Revision History:

Date	Service Note Revision	Author	Reason for Change
19 Sept 2022	01	Michael Woichik	As Published