

MODIFICATION RECOMMENDED

E5515C-100C

S E R V I C E N O T E

Supersedes:
E5515C-100B

E5515C/T Wireless Communications Test Set (8960 Series)

Serial Numbers: US00000000/US99999999, GB00000000/GB44309999

Recover-On-Failure (ROF) Program for Multiple Module Identification, Replacement and Test Verification

To Be Performed By: Agilent-Authorized Personnel

Parts Required:

P/N	Description	Qty.
E5515-69829	MDC Module, Refurbished	1
E5515-69891	RFIO Module, Refurbished	1
E5515-69843	DSP Module, Refurbished	1
0950-4702	HDD (Hard Disk Drive) Module, New	1

Note: Refer to the table in the Situation section for affected module part numbers and identification/replacement criteria.

ADMINISTRATIVE INFORMATION

SERVICE NOTE CLASSIFICATION:					
MODIFICATION RECOMMENDED					
ACTION CATEGORY:		IMMEDIATELY X ON SPECIFIED FAILURE AGREEABLE TIME		STANDARDS: LABOR: 1.5 Hour	
LOCATION CATEGORY:		CUSTOMER INSTALLABLE ON-SITE X SERVICE CENTER		SERVICE INVENTORY:	RETURN SCRAP SEE TEXT
AVAILABILITY:		PRODUCT'S SUPPORT LIFE		USED PARTS:	X RETURN SCRAP X SEE TEXT
NO CHARGE AVAILABLE UNTIL: 30 NOV 2008					
AUTHOR: SW		PRODUCT LINE: 13			
ADDITIONAL INFORMATION:					

© AGILENT TECHNOLOGIES, INC. 2007
PRINTED IN U.S.A.



October 18, 2007

Situation:

This service note provides an overview of the Recover-On-Failure (ROF) program as it applies to E5515C/T Wireless Communications Test Sets returned to Agilent service centers for repair. Test Sets returned for routine calibration or maintenance are not covered by this program. E5515As are not covered by this program.

Up to four modules (MDC, RFIO, DSP, HDD) which have an increased potential for failure may require replacement. The revision of each suspect module in the Test Set must be identified and meet the replacement criteria in the table below. Once identified, the modules will be replaced and the Test Set should be verified for proper operation.

ROF Replacement Criteria:

Module/Board	Test Set	<u>Test Set Serial Number</u>	Module/Board Replacement Criteria	Comment
RFIO – RF Interface	E5515B	\leq GB4236 or \leq US4236	< E5515-61248 or E5515-61812 Board P/Ns	E5515-61812 is a valid RFIO Board P/N. \geq E5515-61248 Boards are good.
	E5515C/T	\leq GB4243 or \leq US4243		
MDC – Measurement Down Converter	E5515B	\leq GB4347XXXX	< E5515-60562 Board P/N	\geq E5515-60562 Boards are good.
	E5515C/T	\leq GB4430XXXX		
HDD – 10 GByte Hard Disk Drive	E5515B	GB4236XXXX through GB4420XXXX	All 10 GByte drives require replacement	Verify the size of the HDD with TDA or a visual inspection of the HDD label.
	E5515C/T	GB4236XXXX through GB4405XXXX		
DSP –Digital Signal Processor E5515-61218 (Note: The DSP module E5515-61218 includes the E5515- 60176 DSP Processor Board and the E5515- 60167 Interface Board.)		\leq GB4405XXXX	E5515-60167 Interface Board The faulty SRAM (U48) is manu- factured by Cypress and is labeled “CY7C1021-“	You must visually verify the presence of the part number of the U48 SRAM on E5515-60167 DSP Interface board AND verify if a Compact Flash RAM is located on the E5515-60176 Processor board.
			E5515-60176 DSP Processor Board which has the Compact Flash	Replace DSP module if it has the faulty U48 SRAM on the Interface board or the Compact Flash on the DSP. Note: A good U48 SRAM will have the “CY7C1021B-“ P/N or have another manu- facturers name on it.

Solution/Action:

NOTE: For more detailed installation information, refer to the “ROF for SSU Process” document. This can be obtained by contacting Spokane Service at spokane_service@agilent.com. This document is restricted to Agilent personnel.

NOTE: This service note supersedes the following E5515C and E5515T service notes while it is in effect:

- **MDC** – E5515C-03D, No E5515T Service Note issued
- **RFIO** – E5515C-02A, E5515T-03
- **DSP** – E5515C-05C, No E5515T Service Note issued
- **HDD** – E5515C-06B, No E5515T Service Note issued

Use the following steps to implement this program:

NOTE: Proper ESD precautions must be observed. Dust and dirt should be removed from the Test Set to ensure proper air flow.

STEP 1) Complete the Standard Repair

- **Repair the Test Set:** Repair the Test Set and verify for proper operation.
- **Fill out the Service Order (S.O.) with the correct repair parts(s), labor, and billing information:** Certain failures may result in replacement of one or more modules **not covered by the ROF program**. Modules and labor associated with these repairs should be charged according to the Test Set’s warranty status (i.e. Trade Repair, Extended Warranty, Factory Warranty, etc.).

If the Test Set failure **is** associated with an ROF module, document the replaced ROF part(s) and labor associated with the repair, enter the Billing Type as a “Factory Warranty”, and reference the E5515B/C-100B Service Note.

STEP 2) Complete the ROF Process

- **Identify and Replace Module(s):** After the repair has been validated and documented, use the Troubleshooting and Diagnostic Application (TDA) to query the Test Set. TDA will identify which modules need to be replaced and/or visually inspected. Replace all modules that meet the replacement criteria. Refer to the “ROF for SSU Process” document for details.
- **Run User-Calibration(s), RF Path Maintenance and Test Set Verification:** After modules are replaced, perform all required User-Calibration, RF Path Maintenance (if RFIO was replaced) and run Test Set Verify to verify proper operation. Refer to the “ROF for SSU Process” document for details.

NOTE: *Completing the User-Calibration and test procedures maintain the integrity of the calibration interval. Re-certification of the Test Set is not required after completion of the ROF process.*

- **Fill Out S.O. with correct ROF part(s), labor, and billing information:**
 1. Add a Service Note “Repair Activity” section in the S.O. to document the incremental labor and parts used for the recovery.
 2. The Billing Type should be coded as “Factory Warranty”.
 3. Include the following information in the Problem Resolution Field of the S.O.:
 - a. “2007/2008 ROF according to Service Note E5515B/C-100C”.
 - b. List the ROF modules that were replaced (i.e., MDC, RFIO, DSP, HDD)
- **Customer Notification Letter and Test Set ROF Process Identification Label:**
Include the “Customer Notification” letter in the paperwork returned with the Test Set. Place the label below (supplied by Spokane Service Engineering or self-made) onto the rear panel of the Test Set near the product option label:

2007/2008 ROF
MDC RFIO DSP HDD

- **Return/Dispose of Replaced Modules Properly:** Return the MDC and RFIO to SQF and the DSP module to Roseville. The HDD can be scrapped locally. See below shipping information.

Module Name	Return Modules Labeled	Ship to Location
MDC	E5515-61219	South Queensferry ≤ 31 March 2008 AMC >1 April 2008
RFIO	E5515-61248	South Queensferry ≤ 31 March 2008 AMC >1 April 2008
DSP	E5515-61218	Roseville
HDD	All 10 GByte Drives	South Queensferry

South Queensferry

Agilent Technologies (UK) Ltd
Attention: PL13 Field Returns
South Queensferry
West Lothian EH30 9TG
United Kingdom

Service Centers in Singapore, China, Korea, Brazil, Japan, and US should use DHL-Danzas Air & Ocean. Contact Alan for the account number. All charges will be billed to SQF.

Roseville

Agilent Technologies, Inc.
Attn: Chuck MacWilliam
Roseville K02-DC, Bldg. RL
10066 Foothills Blvd.
Roseville, CA 95747

AMC address and contact information to be provided early in 2008