

Information Only Service Note

Supersedes:
E4991B-06

E4991B – Impedance Analyzer

Serial Numbers: All
Manufacturing ID Number: N/A

E4991BU Option 007 Temperature Characteristic Test Kit Installation Procedure

Parts Required:

E4991BU-007 Upgrade kit – Refer to [Table 1-1](#)

ADMINISTRATIVE INFORMATION

<input type="checkbox"/> Calibration Required	PRODUCT LINE: WN
<input checked="" type="checkbox"/> Calibration NOT Required	AUTHOR: YC

ADDITIONAL INFORMATION:
E4991B-06A Adapter-Coaxial straight Female-N Female-SMA change part number

Situation:

This service note describes on the Opt 007 Temperature Characteristic Test Kit upgrade procedure on E4991B. When customer orders the upgrade kit, factory would send the upgrade kit to service center. Customer would send their intended E4991B to the nearest Keysight service center. Keysight service centers that can support E4991B are able to upgrade E4991B with the following procedure. Shown in Table 1-1 would be the upgrade kit product number governed by this service note.

Table 1-1

Upgrade Kit Product No.	Description	E4991B Option	
		From	To
E4991BU-007	Temperature Characteristic Test Kit upgrade kit	-	007

Solution/Action:

- I. Install the latest E4991B firmware from Keysight.com.
 - II. Assembly and installation of Opt 007 Temperature Characteristic Test Kit.
 - III. Apply Option label on rear panel.
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- I. Assembly and installation of Opt 007 Temperature Characteristic Test Kit.
 - 1. Attach the test head of E4991B to the Test Head Stand (provided in the upgrade kit).
 - 2. Mount the cable holder (attached to the 7-mm coaxial connector module of the Heat-Resistant Cable) on the Fixture Stand with its captive screws.
 - 3. The test head stand included with the upgrade kit is optional depending on application. Skip the following step if the Test Head stand is not used.
 - i. Place the Fixture Stand on a box (a carton or substitute) to level the Heat-Resistant Cable at the same height as the DUT Port on the test head. Adjust the height of the Fixture Stand for 223 mm ± 10 mm with a spacer (another carton or books) inserted between the Fixture Stand and box as shown in figure 1-1.
 - 4. Connect the 1 meter RF Extension Cable Assembly and Heat-Resistant Cable to the test head of the E4991A as shown in figure 1-1. Figure 1-2 illustrates the setup without Test Head Stand.

Note: Do not force the RF extension cable assembly. It is highly recommended that the RF extension cable assembly to be connected only at the final setup procedure in order to prevent the joint of the SMA connectors on the cable from being forced and damaged.

Note: Do not force the heat-resistant cable or else the cable may be impaired. Avoid bending the cable.

5. Refer to E4991B Web Help (Measurement → Temperature Characteristics → Installation) for the latest installation procedure.
http://ena.support.keysight.com/e4991b/manuals/webhelp/eng/measurement/temperature_characteristic_test_kit_option_007/installation.htm

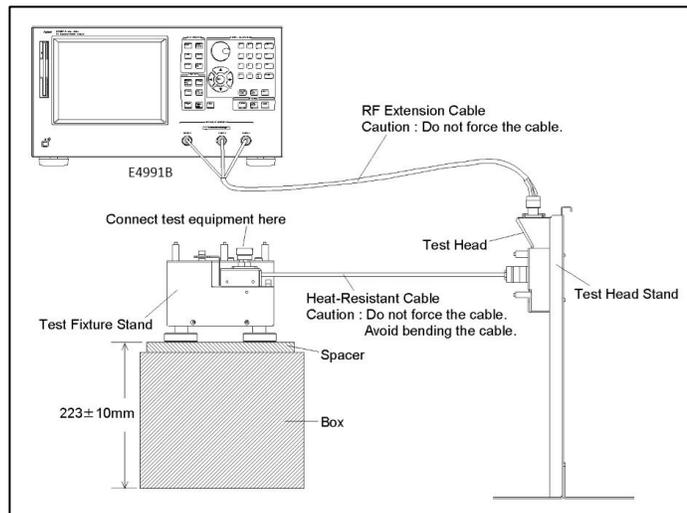


Figure 1-1



Figure 1-2

- II. Install the latest E4991B firmware from Keysight.com.
1. Update E4991B firmware to A.01.03 or later. Latest firmware is available from E4991B Impedance Analyzer Firmware Update page in Keysight.com.

- III. Apply Option Label on rear panel.
 - 1. Add the opt. 007 option label on the rear panel.

Post upgrade requirement:

- 1. Perform Full Performance Verification with the latest E4991B P.V. Software. Refer to the performance verification software on screen instructions on test procedure.

Note: Ensure that the Opt 007 check box is enabled before proceeding with the performance verification.

Figure 1-3

Appendix:

Shown would be the upgrade kit content reference.
Always refer to the latest content list from upgrade kits.

E4991BU-007 Add Temperature Characteristic Test kit

Part Number	Qty.	Description
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04291-09001	1	Packaging material, Pad
1250-3437	3	Adapter-Coaxial straight Female-N Female-SMA
1250-2879	3	Adapter-Coaxial straight Male-N Female-SMA 50Ohm 12.4GHz
1400-0584	3	Cable-Tie pressure sensitive Adhesive mounting 750-mil-LG 750-mil-Wide ABS (Acrylonitrile Butadiene Styrene) White
5183-4001	1	Carton-corrugated RSC 34X23.5X15-cm Flute B ECT 55 Burst Strength 275
5185-1643	2	Plastic bag 30x35 cm
5185-1644	2	Plastic bag 25x17cm
5185-1645	1	Plastic bag 13x9cm
5185-3799	2	Pad Buffering
9211-4600	1	Carton
9211-5110	1	Carton-Corrugated Regular Slotted; Inside Dimensions: 500 mm LG; 400 mm ; WD; 50 mm DPTH; 8 KGF/CM SQ; Single Wall; KRAFT; Stitched; Process Black; Branding Per Design STDS. 5964-8761
9211-6738	1	Carton-Corrugated RSC 601-mm-LG Carton-Corrugated
9220-0005	1	Bag Envelope Film Heat Seal 18-in-LG 24-in-Deep 4-mil-THK Polyethylene
9222-0222	6	P-Bag
E4982-61617	1	Kit, RF Cable Assembly
E4991-60006	1	Test head stand unit
E4991-60015	1	Fixture station
E4991-61010	1	Cable Unit
E4991-61011	1	Compensation Set
5182-0431	1	Label

Revision History:

Date	Service Note Revision	Author	Reason for Change
20 Aug 2015	E4991B-06	ls	As Published
6 April 2023	E4991B-06A	YC	Update part number 1250-1404 to 1250-3437