

16195B-02B

Information Only Service Note

Supersedes:
16195B-02A

16195B Calibration Kit, 7mm

Serial Numbers: ALL
Manufacturing ID Number: NA

16195B calibration/repair strategy

Parts Required:

P/N	Description	Qty.
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NONE

ADMINISTRATIVE INFORMATION

Calibration Required
 Calibration NOT Required

PRODUCT LINE: WN
AUTHOR: BS

ADDITIONAL INFORMATION:

Situation:

The 16195B contains Open, Short, 50 Ω Load and Low-loss Capacitor terminations for calibrating the LCR Meter/ Impedance Analyzer and Network Analyzer. The 16195B itself does not have warranted specification as independent product. Maintenance of the 16195B depends on what instrument you calibrate with 16195B.

[For LCR Meter or Impedance Analyzer]

When 16195B is used with LCR Meter or Impedance Analyzer (4287A/ E4991A/ E4991B/ E4982A), 16195B does not need to be separately calibrated.

The reason not to calibrate 16195B separately from LCR Meter or Impedance Analyzer is as below.

LCR Meter or Impedance Analyzer uses 16195B pre-defined value stored in LCR Meter/Impedance Analyzer itself to calculate correction. When the instrument passes the impedance measurement accuracy test using the 16190B Performance Test Kit, it is verified that the total accuracy of the 16195B's terminations and the instrument meet the accuracy specification. Additionally, the DC resistance of 50 Ω Load termination and the impedance of Low-loss Capacitor termination are verified by separate test procedures included in the instrument performance tests. Since the total accuracy of the 16195B and the instrument is verified, the 16195B does not require any calibration data.

[For Network Analyzer (NA)]

When 16195B is used with Network Analyzer (E5061B), 16195B needs to be calibrated periodically. This is due to Network Analyzer does not have pre-defined value of 16195B and require actual response characteristic of each device in 16195B to perform NA calibration.

Solution/Action:

When LCR Meter/Impedance Analyzer customer or Network Analyzer customer requests 16195B calibration with the calibration data or 16195B repair, Japan MSC is well equip with the capability of 16195B's calibration and repair. Customer could contact Keysight service center. Keysight service center will then send it to Japan MSC for calibration or repair.

[For LCR Meter or Impedance Analyzer]

16195B will be verified when you send together with your LCR Meter or Impedance Analyzer for Keysight Calibration Service of LCR Meter/Impedance Analyzer.

[For Network Analyzer (NA)]

You could get the response characteristic for your 16195B by ordering Keysight Re-characterization service of 16195B. This service provides the value set of Open, Short and 50 Ω Load with no Pass/Fail judgment. Keysight will notifies customer to replace the device if there's a large gap from nominal value on the device. Send your 16195B to Keysight service center, when you want to re-characterize 16195B.

Revision History:

Date	Service Note Revision	Author	Reason for Change
07 Sep 2015	16195B-02	Is	As Published

14 Jul 2016	16195B-02A	jm	Added calibration strategy for Network Analyzer
15 Mar 2017	16195B-02B	bs	Modified Situation and Solution for clearer content
