

Test Engineering Calibration Procedure		DOCUMENT NUMBER 735000525
TITLE Racal Functional Test System (TE82743)	REVISION B	REVISION DATE 5/11/05
DOCUMENT TYPE CALIBRATION PROCEDURE		PAGE NUMBER 1 of 5

REFERENCED DOCUMENTS	SPECIAL NOTES

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1. Equipment Required

Flat blade screwdriver.

Phillips head screwdriver.

Rear Cabinet Key.

2. Rack Mounted Equipment

2.1 TDS460A Oscilloscope

2.1.1 Disconnect all cables from rear of instrument.

2.1.2 Using Phillips screwdriver, remove front rack mount screws.

2.1.3 Remove instrument through front of cabinet.

2.1.4 Send the instrument out for calibration. The calibration must be performed by a Calibration Laboratory using NIST traceable calibration standards.

2.2 Keithley Model 236 Source Measurement Unit

2.2.1 Disconnect all cables from rear of instrument.

2.2.2 Using Phillips screwdriver, remove front rack mount screws.

2.2.3 Remove instrument through front of cabinet.

2.2.4 Send the instrument out for calibration. The calibration must be performed by a Calibration Laboratory using NIST traceable calibration standards.

2.3 HP6065A Electronic Load with HP60502B Load Modules

2.3.1 Disconnect all power cables (+) and (-) from rear of instrument.

2.3.2 Disconnect sense lines by pulling the 10-pin plug connectors from the instrument.

2.3.3 Using Phillips screwdriver, remove front rack mount screws.

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2.3.4 Remove instrument through front of cabinet.

2.3.5 Send the instrument out for calibration. The calibration must be performed by a Calibration Laboratory using NIST traceable calibration standards.

2.4 HP66000A Power Supply with HP66101A and HP66103A Power Modules

2.4.1 NOTE: Only the Power Supply Modules are removed for calibration.

2.4.2 Locate the pull-tab assembly on the front-bottom of each power supply module.

2.4.3 Using a flathead screwdriver, place it into the slot just below the pull-tab assembly.

2.4.4 Gently turn to release the spring-loaded pull tab.

2.4.5 Grab the pull-tab and pull to remove the power supply module.

2.4.6 Send the module out for calibration. The calibration must be performed by a Calibration Laboratory using NIST traceable calibration standards.

3. VXI 1261B Chassis Equipment

3.1 4152 Racal 6.5 Digit Digital Multi-Meter (slot 1)

3.1.1 Remove the plexi-glass cover mounted in front of the 1261B VXI Chassis.

3.1.2 Disconnect the two BNC cables from the VXI instrument.

3.1.3 Disconnect the five banana plug cables from the VXI instrument.

3.1.4 Loosen the top and bottom mounting screws using a flat blade screwdriver.

3.1.5 Grab the top and bottom pull-tabs and remove the instrument.

3.1.6 Send the instrument out for calibration. The calibration must be performed by a Calibration Laboratory using NIST traceable calibration standards.

3.2 2461 Racal Universal Counter Timer (slot 2)

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3.2.1 Remove the plexi-glass cover mounted in front of the 1261B VXI Chassis.

3.2.2 Disconnect the two BNC cables from the VXI instrument.

3.2.3 Disconnect the five mini coax cables from the VXI instrument.

3.2.4 Loosen the top and bottom mounting screws using a flat blade screwdriver.

3.2.5 Grab the top and bottom pull-tabs and remove the instrument.

3.2.6 Send the instrument out for calibration. The calibration must be performed by a Calibration Laboratory using NIST traceable calibration standards.

3.3 3151 Racal Waveform Generator (slot 3)

3.3.1 Remove the plexi-glass cover mounted in front of the 1261B VXI Chassis.

3.3.2 Disconnect the five BNC cables from the VXI instrument.

3.3.3 Loosen the top and bottom mounting screws using a flat blade screwdriver.

3.3.4 Grab the top and bottom pull-tabs and remove the instrument.

3.3.5 Send the instrument out for calibration. The calibration must be performed by a Calibration Laboratory using NIST traceable calibration standards.

4. VXI 1261B Chassis Enclosure Cooling Fan Filters

4.1 Remove the AC power plug on the rear of the 1261B chassis.

4.2 Locate the filter cover on the lower rear panel of the rear of the 1261B enclosure.

4.2.1 Remove the two thumb screws and panel.

4.2.2 Remove the one thumb screw and filter housing with filter.

4.2.3 Clean the filter and replace the entire assembly.

4.3 Locate the power supply module in the upper rear of the 1261B enclosure.

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4.3.1 Remove the six thumb screws that secure the power supply module.

4.3.2 Using the two spin-out finger loops, gently pull out the power supply module from the 1261B chassis.

4.3.3 Remove the one thumb screw and filter housing from the side of the power supply module.

4.3.4 Clean the filter and replace the entire filter assembly.

4.3.5 Re-install the power supply module and secure with the six thumb screws.

4.3.6 Re-install the AC power plug on the rear of the 1261B chassis.

5. Knurr Enclosure Cooling Fan Filters

5.1 Locate the two filter covers on the lower panels, in the rear of the cabinet enclosure.

5.1.1 Remove the two thumb screws and grill.

5.1.2 Remove the filters. The filters should be cleaned every 1-2 months and replaced periodically.

5.1.3 Filter P/N 3.038.103.0 . Knurr USA 805-526-7733 x22.

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