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### ESD SYSTEMS, COM—TECHNICAL BULLETIN TB-5505

# **Ground Gard 4.5 Calibration Tester Routine Test and Calibration Instructions**







Figure 1. SPI 94335 Ground Gard Calibration Tester

#### **Description**

The SPI 94335 Ground Gard Calibration Tester can be used to calibrate the 94392 Ground Gard 4.5 Monitor.

#### **Test Procedure**

- I. Connect the Calibration Tester's alligator clip to a known electrical ground.
- II. Connect a male-male banana plug to the ground jack of the Calibration Tester. Insert the other end of the banana plug into the OPERATOR jack of the Ground Gard Monitor's remote module.
- III. Set the right-hand switch of the Calibration Tester to "CHECK."
- IV. Alternately switch the left hand "FAIL PASS" switch between the "FAIL" and "PASS" positions. The LEDs on the Ground Gard Monitor should correspond to the Calibration Tester's settings. If the LEDs on the monitor do not duplicate the switch positions, the monitor's remote modules should be re-calibrated.

#### **Calibration Procedure**

**NOTE:** Calibration of the Ground Gard remote modules is only necessary when they fail the test procedure described above.

An adjustment trimpot can be found through a small access hole located on the remote module. Use a proper tool to adjust this trim pot. This adjustment resets the gain in the negative loop of the sensor oscillator.

I. Connect the Calibration Tester's alligator clip to a known electrical ground.

- II. Insert the Calibration Tester's banana plug into the OPERATOR jack located on the remote module.
- III. Set the right-hand switch on the Calibration Tester to "CALIBRATE."
- IV. Set the left-hand switch on the Calibration Tester to "FAIL." Carefully adjust the remote module's trim pot in a counter-clockwise direction until the Ground Gard Monitor indicates a FAIL condition. If properly calibrated, the monitor should now indicate a FAIL condition when the Calibration Tester's left-hand switch is set to "FAIL" and a PASS condition when the Tester is set to "PASS."

#### **Limited Warranty**

SPI expressly warrants that for a period of one (1) year from the date of purchase, SPI Calibratrion Units will be free of defects in material (parts) and workmanship (labor). Within the warranty period, the product will be tested, repaired, or replaced at our option, free of charge. Call our Customer Service Department at 909-664-9986 for a Return Material Authorization (RMA) and proper shipping instructions and address. Include a copy of your original packing slip, invoice, or other proof of purchase date. Any unit under warranty should be shipped prepaid to the SPI factory. Warranty repairs will take approximately two weeks.

If your unit is out of warranty, call Customer Service at 909-664-9986 for a Return Material Authorization (RMA) and proper shipping instructions and address. SPI will quote repair charges necessary to bring your unit up to factory standards.

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