

Made in America

Portable Wrist Strap Tester Operation and Maintenance



Figure 1. SPI 95400 Portable Wrist Strap Tester

Description

By pushing the TEST button on the SPI Portable Wrist Strap Tester, the operator can check the wrist strap, skin contact with the wrist strap, coil cord, work surface, floor mat, heel straps, or any series combination of these items to a maximum of 10 megohms or 100 megohms.

“The wrist strap system should be tested daily to ensure proper electrical value.” (ANSI/ESD-S1.1 section 6.1.3 Frequency of Functional Testing)

“Typical test programs recommend that wrist straps that are used daily should be tested daily. However, if the products that are being produced are of such value that knowledge of a continuous, reliable ground is needed, and then continuous monitoring should be considered or even required.” (ESD Handbook TR 20.20 section 5.3.2.4.4)

Packaging

- 1 Portable Wrist Strap Tester
- 1 Banana Plug to Ring Terminal Cord
- 1 9V Battery
- 1 Certificate of Calibration

Installation

- I. Install the 9V battery into the backside of the Portable Wrist Strap Tester.
- II. Insert the banana plug of the included cord into the banana jack located at the top of the tester.
- III. Connect the ring terminal end of the cord to Earth ground.

It is recommended that the tester and wrist strap do not share the same ground connection. By utilizing separate grounding points, the integrity of the ground connections will also be tested during operation.

Operation

Set the tester's range switch to the resistance that you would like to test to: 10 megohms or 100 megohms.

WRIST STRAP TESTING

Snugly fit the wrist band to your wrist and connect the wrist cord to its appropriate ground point (different than ground point of the tester).

Push and hold the "PUSH TO TEST" button to begin the test.

TEST RESULTS

Red LOW LED:

Series resistance is below 0.8 megohms

Green PASS LED:

Series resistance is within the set range

Yellow HIGH LED:

Series resistance is above the set range

LOW and HIGH LEDs:

Battery voltage is below 7V. Change battery for proper operation.

WORK SURFACE TESTING

NOTE: No wrist strap is necessary.

Place one hand flat on the work surface while using the other to press the PUSH TO TEST button. Observe the tester's LEDs and compare with the TEST RESULTS section above.

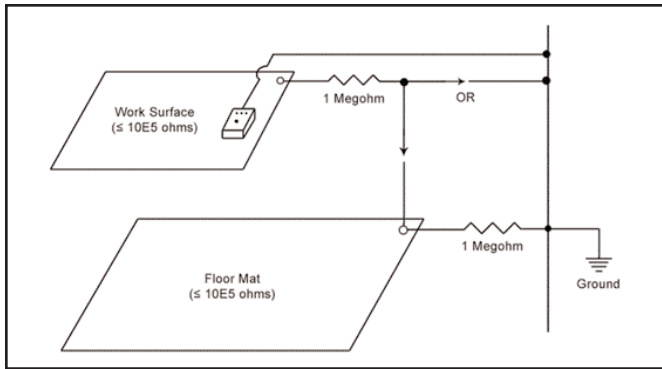


Figure 2. Work surface and floor mat test loops

FLOOR MAT TESTING

NOTE: No wrist strap is necessary.

Floor mat testing may be done in two ways:

1. Place one hand flat on the floor mat while using the other to press the PUSH TO TEST button. Observe the tester's LEDs and compare with the TEST RESULTS section above.
2. While wearing a heel strap, stand on the floor mat and press the PUSH TO TEST button. Observe the tester's LEDs and compare with the TEST RESULTS section above.

Limited Warranty

SPI expressly warrants that for a period of one (1) year from the date of purchase, SPI Portable Wrist Strap Testers 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.

Warranty Exclusions

THE FOREGOING EXPRESS WARRANTY IS MADE IN LIEU OF ALL OTHER PRODUCT WARRANTIES, EXPRESSED AND IMPLIED, INCLUDING MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE WHICH ARE SPECIFICALLY DISCLAIMED. The express warranty will not apply to defects or damage due to accidents, neglect, misuse, alterations, operator error, or failure to properly maintain, clean or repair products.

Limit of Liability

In no event will SPI or any seller be responsible or liable for any injury, loss or damage, direct or consequential, arising out of the use of or the inability to use the product. Before using, users shall determine the suitability of the product for their intended use, and users assume all risk and liability whatsoever in connection therewith.