ESD Glove Test Fixture
Installation, Operation and Maintenance

Made in the
United States of America

Figure 1. EMIT 50755 ESD Glove Test Fixture

Description

The EMIT 50755 ESD Glove Test Fixture is designed to be used with the SmartLog Pro™ and Combo Tester X3 to test operators that wear ESD gloves or finger cots per Compliance Verification required by ESD TR53. The Test Fixture is made with a stainless steel electrode that creates a larger test surface area allowing the path-to-ground of the operator wearing gloves or finger cots to be measured. An infrared sensor activates the ESD Glove Test Fixture when the operator grips the electrode and overrides the test switch on the personnel tester.

ESD Control Programs which include measures to prevent Charge Device Model (CDM) ESD damage will often require the use of finger cots or Static Dissipative Gloves. Operators handling ESD sensitive items wearing gloves or finger cots should be tested using a wrist strap or footwear tester while wearing the gloves or finger cots. The test is in accordance with Compliance Verification ESD TR53.

The ESD Glove Test Fixture is to be used with the following items:

Brand	Item	Description
EMIT	50780	SmartLog Pro™
Desco	19278	Combo Tester X3, North America
Desco	19279	Combo Tester X3 with Stand, North America

NOTE: The ESD Glove Test Fixture is also compatible with the following discontinued EMIT items:

50760, 50761, 50762, 50763, 50766, 50767, 50768, 50769

Packaging

1 ESD Glove Test Fixture
1 Communication Cable
2 Mounting Screws

Installation

SMARTLOG PRO™

1. Mount the ESD Glove Test Fixture next to the SmartLog Pro™ using its mounting tabs located at the top and bottom.

2. Connect the included communication cable to the jack located at the bottom of the ESD Glove Test Fixture.

3. Connect the other end of the communication cable to the ESD Glove Test Fixture port located on the back of the SmartLog Pro™. No power adapter is needed for the ESD Glove Test Fixture. It will draw its power from the tester.
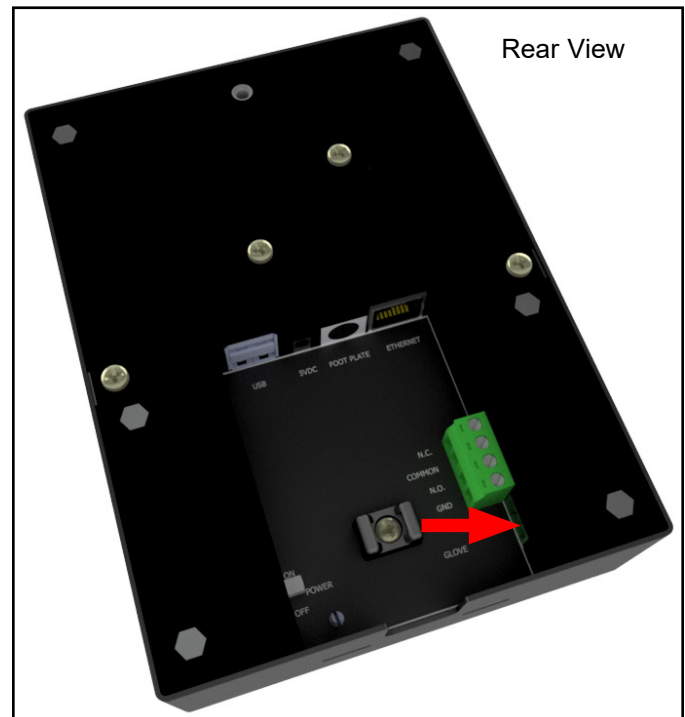

Rear View

Figure 2. Locating the ESD Glove Test Fixture port on the SmartLog Pro™

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COMBO TESTER X3

1. Mount the ESD Glove Test Fixture next to the Combo Tester X3 using its mounting tabs located at the top and bottom.

2. Connect the included communication cable to the jack located at the bottom of the ESD Glove Test Fixture.

3. Connect the other end of the communication cable to the External Reader port located on the bottom of the Combo Tester X3. No power adapter is needed for the ESD Glove Test Fixture. It will draw its power from the tester.

Bottom View

Figure 3. Locating the External Reader port on the Combo Tester X3

Operation

SMARTLOG PRO™

1. A circling light around the test switch indicates when the SmartLog Pro™ is on standby and ready to perform a test.

2. Initiate the test procedure by identifying yourself to the SmartLog Pro™. This may be done using the touchscreen keypad, barcode scanner or proximity reader.

    NOTE: Hold the proximity badge in front of the RFID icon for a full second if using proximity badges. See Figure 4.

Figure 4. Holding a proximity badge in front of the RFID icon on the SmartLog Pro™

3. Follow the prompt on the SmartLog's display.

4. When performing a footwear test, be sure to place both feet on the dual foot plate (one foot per plate).

    NOTE: Keep the foot plate clean with 99% isopropyl alcohol when using the 1 Gigohm high test limit. A dirty foot plate could yield a false pass.

    When performing a wrist strap* test, be sure to completely plug in the wrist cord into the tester's jack.

5. To begin the test, grab the ESD Glove Test Fixture's electrode. The blue standby LED will become solid to indicate that the test has been initiated. Hold the electrode until the test results are displayed on the touchscreen.

    If the electrode is released too early, the tester's blue LEDs will blink three times to indicate that the test was not completed. DO NOT touch any other metal while performing your test as this will affect your results.

6. The relay terminal will activate if the defined tests are passed (if applicable).

*The SmartLog Pro™ may also be used to test smocks or garments that feature a grounding mechanism for operators using a coiled cord connection.

Figure 5. Using the ESD Glove Test Fixture with the SmartLog Pro™

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COMBO TESTER X3

1. A circling light around the test switch indicates when the Combo Tester X3 is on standby and ready to perform a test.

2. When performing a footwear test, be sure to place both feet on the dual foot plate (one foot per plate).

   NOTE: Keep the foot plate clean with 99% isopropyl alcohol when using the 1 Gigohm high test limit. A dirty foot plate could yield a false pass.

   When performing a wrist strap test, be sure to completely plug in the wrist cord into the tester's jack.

3. To begin the test, grab the ESD Glove Test Fixture's electrode. The blue standby LED will become solid to indicate that the test has been initiated. Hold the electrode until the test results are displayed on the touchscreen.

   If the electrode is released too early, the tester's blue LEDs will blink three times to indicate that the test was not completed. DO NOT touch any other metal while performing your test as this will affect your results.

4. The relay terminal will activate if the defined tests are passed (if applicable).

Figure 5. Using the ESD Glove Test Fixture with the Combo Tester X3

Specifications

Operating Voltage	12 VDC
Operating Temperature	41 to 85°F (5 to 30°C)
Environmental Requirements	Indoor use only at altitudes less than 6500 ft. (2 km)
	Maximum relative humidity of 80% up to 85°F (30°C) decreasing linearly to 50% @ 85°F (30°C)
Dimensions	8.3" L x 4.0" W x 3.2" H (210 mm x 102 mm x 81 mm)
Weight	0.9 lbs. (0.4 kg)
Communication Cable Length	2 ft. (610 mm)
Country of Origin	United States of America

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the EMIT Warranty - http://emit.descoindustries.com/Warranty.aspx

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