Foot Grounders - Grounding, Testing, and Maintenance

Description
Desco’s complete line of foot grounders has been created to provide a continuous ground path between the operator and a properly grounded ESD protected flooring. Foot grounders are designed for use in applications where user mobility is required, such as wave solder, kitting, and quality control. Per ANSI/ESD S20.20 Paragraph 6.2.2.2, “ESD protective flooring used with approved footwear, may be used as an alternative to the wrist strap system for standing operations.” Foot grounders quickly and effectively drain the static charges which collect on personnel during normal, everyday activities.

General Guidelines
1. It is recommended that foot grounders be worn on both feet, in order to assure that a continuous path to ground is maintained.
2. Grounding tabs should be tucked inside the shoe with as much contact area as possible to the bottom of the stockinged foot. Foot grounders rely upon the perspiration in the shoe to sustain electrical contact between the conductive grounding tab and the body.
3. Foot grounders should be used in conjunction with floor surfaces which have a surface resistance of less than 1 x 10^9 ohms.
4. A current limiting one or two megohm resistor in series with the grounding tab is recommended.

Testing Your Foot Grounders
The best test of your foot grounder is one that relies upon the perspiration in the shoe to sustain electrical contact between the conductive grounding tab and the body. Foot grounders are to ground static charges, while dirt generally provides an insulative layer adversely effecting reliability. For proper operation, the Foot Grounder and its conductive strip must be kept clean.

Cleaning
Foot grounders are to ground static charges, while dirt generally provides an insulative layer adversely effecting reliability. For proper operation, the Foot Grounder and its conductive strip must be kept clean.

The rubber portion of the Foot Grounder should be cleaned using Desco’s Restore™ Antistatic Surface & Mat Cleaner or “Static-Wipes” wipers. An alternative would be to clean using isopropyl alcohol. Desco Restore products are specially formulated for cleaning ESD control components and are silicone free. This is critical as silicone is an insulator. Desco ESD cleaners should not be used to clean the nylon polyester grounding tab.

Foot Grounder with Snap-loc Fastening System
The Desco model 07515 heel grounders are equipped with a Snap-Loc quick release fastening system. The model 07515 has a cup and lining that will not mar shoes or floors. The 07515 has a molded exterior 2 megohm resistor.

Installation

HOOK & LOOP MARR RESISTANT HEEL GROUNDE

1. Place the foot grounder on the shoe so that the lining is making contact with the shoe.
2. Insert the grounding tab inside of the shoe and under the foot. Make sure that a solid contact is made between the sock and body. Cut grounding tab to desired length.
3. Fasten hook and loop straps together, securing foot grounder firmly on shoes.
4. Test each foot grounder to confirm proper installation.

D-RING HEEL GROUNDE

1. Place foot grounder on the shoe so that the blue lining is making contact with the shoe.
2. Insert the grounding tab inside of the shoe and under the foot. Make sure that a solid contact is made between the sock and body. Cut grounding tab to desired length.
3. Pull the strap through the D-ring and clinch down for a snug, comfortable fit.
4. Test each foot grounder to confirm proper installation.

HOLE & LOOP TOE GROUNDE

1. Insert the grounding tab inside of the shoe and under the foot. Make sure that a solid contact is made between the sock and body. Cut grounding tab to desired length.
2. Fit the heel cup snugly to shoe and connect the Snap-Loc fastener together. Adjust elastic strap for comfortable fit. Tuck excess elastic strap behind itself.
3. Test each heel grounder to confirm proper installation.

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1. Place the toe grounder on the shoe so that the lining is making contact with the shoe.

2. Insert the grounding tab inside of the shoe and under the foot. Make sure that a solid contact is made between the sock and body. Cut grounding tab to desired length.

3. Pull fabric strap through cam and lock in place. This will secure toe grounder firmly on shoe.

4. Test each toe ground to confirm proper installation.

FULL COVERAGE GROUNDERS
Desco model 17290, 17291, and 17292 full coverage grounders are designed for use on standard shoes. They can be easily adjusted to fit the individual wearer. They have a lining that will not mar most footwear. These foot grounders have a discrete one megohm resistor built into the grounding tab.

1. Place the full coverage grounder on the shoe so that the lining is making contact with the shoe.

2. Insert the grounding tab inside of the shoe and under the foot. Make sure that solid contact is made between the sock and body. Cut grounding tab to desired length.

3. Pull the strap through the D-rings and cinch down for a snug, comfortable fit.

4. Test each foot grounder to confirm proper installation.

SOLE GROUNDERS
Desco model 07501, 07502, and 07503 sole grounders are designed for use on standard shoes. Desco sole grounders are available in three sizes and can be easily adjusted to fit the individual wearer. Sole grounders have a lining that prevents marring on white or light colored shoes. Models 07507, 07508, and 07509 also have a non-marring exterior to prevent marks on floors. Sole grounders have a molded exterior 2 megohm resistor.

1. Place the sole grounder on the shoe so that the lining is making contact with the shoe.

2. Insert the grounding tab inside of the shoe and under the foot. Make sure that a solid contact is made between the sock and body. Cut grounding tab to desired length.


4. Test each full coverage grounder to confirm proper installation.

ATTENTION: This product is not recommended for use on equipment with operating voltage exceeding 250 VAC.

CAUTION: The ESD Series is for electrostatic control. It will not reduce or increase your risk of receiving electric shock when using or working on electrical equipment. Follow the same precautions you would use without wrist straps, including:

- Make certain that equipment having a grounding type plug is properly grounded.
- Make certain that you are not in contact with grounded objects other than through the ESD Series.

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions
See Desco’s Terms and Conditions - http://desco.industries.com/Terms-And-Conditions.aspx