

# **T1-141:**

## **Standards for Handling Antistatic Shoes**

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**PRODUCTION DEPARTMENT**

- ① Purpose of “**Standards for Handling Antistatic Shoes**”
- ② Definition of Terms
- ③ Wearing of Antistatic Shoes
- ④ Use and Maintenance of Antistatic
- ⑤ Maintenance of the Tester
- ⑥ Inspection and maintenance of Conductive Mats

# ① Purpose of “Standards for Handling Antistatic Shoes”

## Purpose

To specify a bare minimum set of rules when using antistatic shoes in production and assembly and thereby achieve stable product quality.



## ② Definition of Terms

### Antistatic shoes tester

- a tester used to measure the resistance of antistatic shoes and so on.



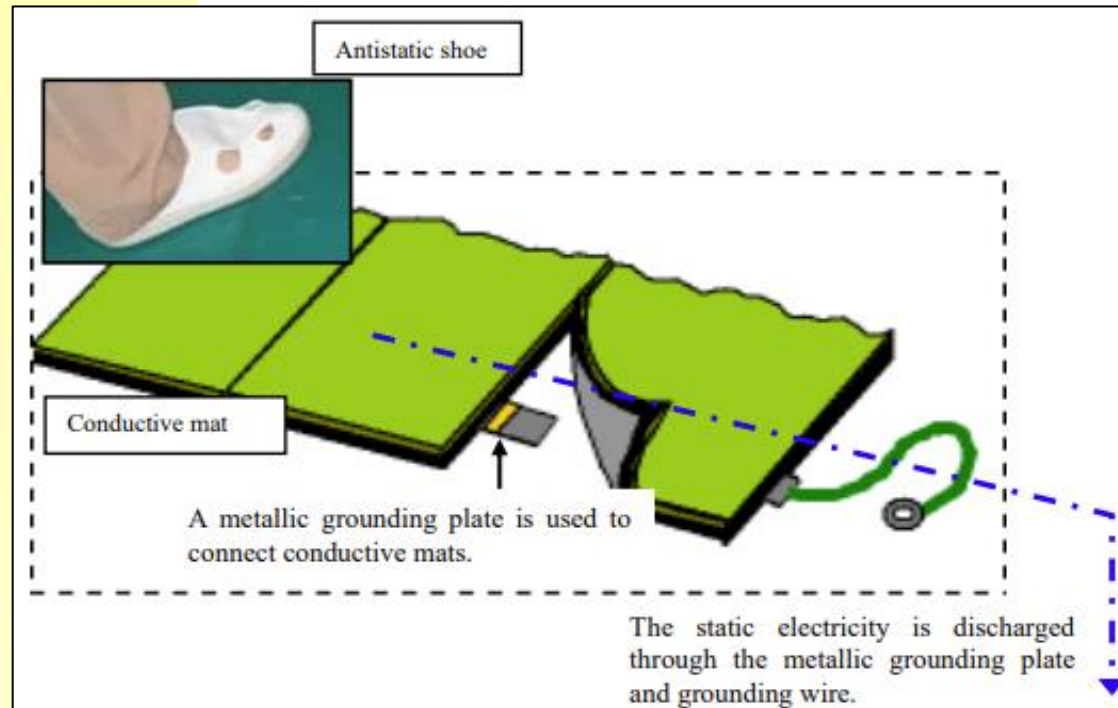
For the related terms, see:

- T1-138 "Standard for Basic Countermeasures against Electrostatic Damage"

### ③ Antistatic Shoes

#### Antistatic Shoes

- It discharges the static electricity generated in the bodies of walking or moving persons through antistatic soles, conductive mat and grounding wire and hereby prevent electrostatic damage.



## ④ Wearing Antistatic Shoes

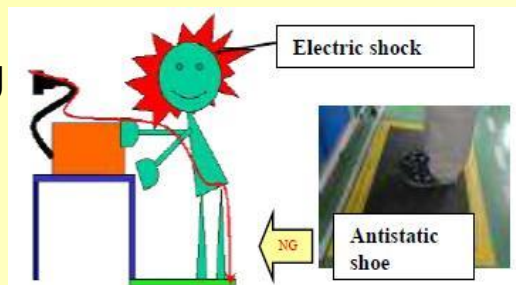
### Correct Way of Wearing Antistatic Shoes

Wear antistatic shoes just in your size with their whole soles in contact with a conductive mat.



*In case of a dielectric resistance test*

**Do not wear** antistatic shoes when performing a dielectric test where a **high voltage** is used.



### Compliance items:



- Wear antistatic shoes correctly.

❖ **Wear antistatic shoes correctly to give a positive effect to discharge the static electricity and prevent unsafe conducts.**

### ❖ Incorrect way to wear shoes:



1. with their heels trampled over,
2. not in your size,
3. with nylon or thick socks,
4. with insoles in them, or

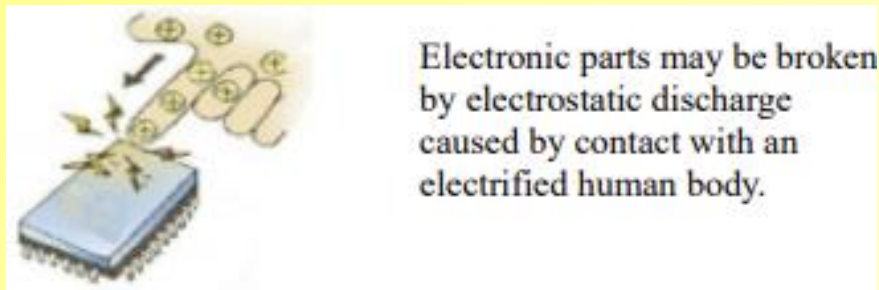


# ⑤ Use and Maintenance of Antistatic Shoes

## 5.1 Use of antistatic shoes

Wear antistatic shoes that have **passed** the resistance test.

*\*Wearing antistatic shoes rejected by the test may cause damage to electronic parts.*



## 5.2 Maintenance of antistatic shoes

### Compliance items:

Antistatic shoes should be kept in the specified place and maintained by each operator.

- They should be kept with care to prevent intrusion of other shoes and protect the operator's health.
- Use of antistatic shoes is limited to inside the factory





## ⑤ Use and Maintenance of Antistatic Shoes

### 5.3 Testing antistatic shoes

#### Compliance items:

- (1) Inspect and record the resistance of your antistatic shoes with an antistatic shoe tester every day before work.
- (2) Also test antistatic shoes when renewed and record test results.



Since it may be that it cannot be correctly measured since the antistatic shoes are sticking out from the measurement electrode, correctly place antistatic shoes on the measurement electrode. Confirm the measurement method in the instruction manual.



## ⑤ Use and Maintenance of Antistatic Shoes

### 5.4 Method for handling rejects by the tester

Take appropriate action against rejects by the tester

#### If the High Lamp Lights:

1. **Check the cleanliness:** The antistatic shoes may have their soles contaminated. Clean the soles.
2. **Check the tester for poor connection:** Poor contact with the measurement or contact electrode is suspected.
3. **Make close contact with the electrodes.**

#### If the Low Lamp Lights:

1. The measurement electrode may be wet. **Wipe it dry.**
2. The antistatic shoes may have their **soles worn out. Replace them with a new pair.**

If the above action does not solve the problem:

- Test with another antistatic shoe tester.

If the OK lamp lights: Notify the supervisor that the tester is supposed be the cause of the problem. If not, dispose of the antistatic shoes and replace with a new pair.

## ⑥ Maintenance of the tester

### Compliance items:

- The tester shall be **inspected** at intervals **not exceeding a year**.
  - ❖ The tester shall be inspected at the frequency specified below according to **R3301-03 “Measuring Instruments Maintenance Procedure.”**
  - ❖ Attach an expiration date label to certify the validity of inspection and calibration results.

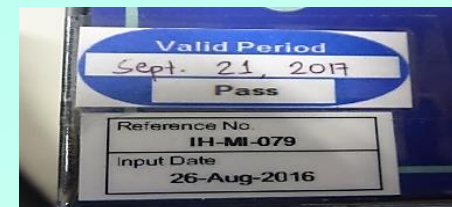
Attach an expiration date label to certify the validity of inspection and calibration results.



<Example expiration date labels>



Measuring instrument	Inspection frequency (for production)
Antistatic shoe tester	A year



Caution: Before using the fixed checker, it must be recalibrated.

# Thank You!