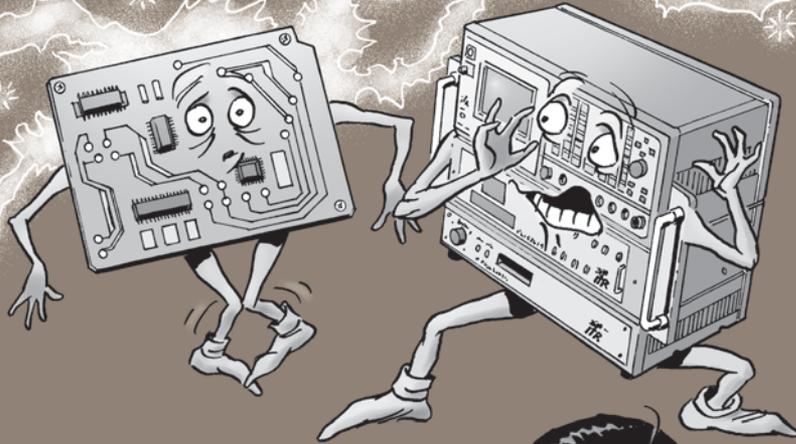


# ESD TAKES OUT CIRCUIT CARDS



YOUR AN/GRM-122 RADIO TEST SET HAS THREE MAJOR COMPONENTS THAT CONTAIN CIRCUIT CARD ASSEMBLIES (CCA)...

- TS-4317/GRM
- J-4843A/GRM
- PL-1536/GRM

BEFORE YOU HANDLE ANY OF THE CCAs, CONSIDER THIS...



CCAs are sensitive to electrostatic discharge (ESD). ESD can degrade or destroy transistors, resistors and the integrated circuits of CCAs. The discharge can happen while packaging, shipping, handling or installing CCAs.

Where does ESD come from? It comes from electrically charged objects all around you: clothing, rugs, chairs, papers, manuals, ordinary packaging materials or the work surface itself.

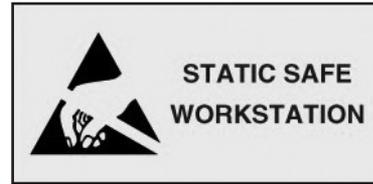
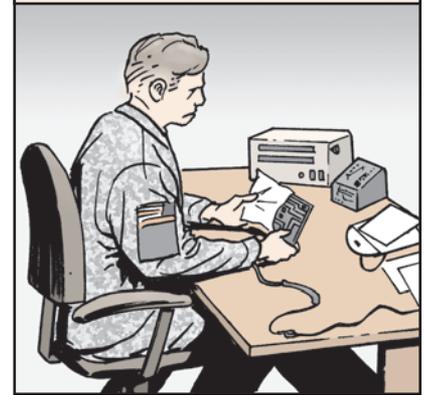
But more than anywhere else, ESD comes from **you**. Your body has thousands of volts of static electricity. When you handle a CCA without proper grounding, that static electricity is discharged. You may not feel the discharge or see the damage — but it's there.



## Protect Your AN/GRM-122 CCAs from ESD

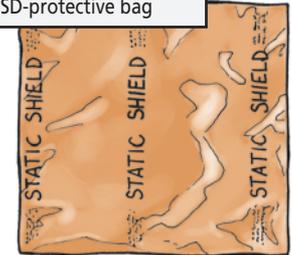
- Make sure you're grounded **before** you open the test set's components and handle the CCAs.
- Open the components and handle the CCAs only at a static-safe work station that includes a grounded table mat, floor mat and wrist strap. They're designed to limit static buildup and carry already existing charges to ground.

Use a static-safe work station to handle CCAs



- When you receive CCAs, make sure they're in their original, unopened packages. If they aren't, the CCAs must be downgraded to supply condition code F, unserviceable.
- **If you return a CCA to the depot for any reason, make sure it's packaged in an ESD-protective bag. ESD-protective packaging is required no matter what condition the CCA is in.**
- When you store CCAs on shelves, work benches or in tool boxes, they must remain packaged.
- When you open the packages, handle the CCAs only at a static-safe work station.

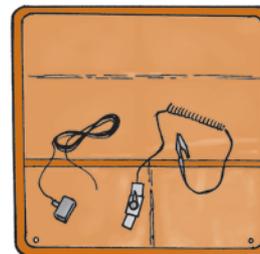
Return CCA to depot in ESD-protective bag



### Here are some available static-safe products:

Item	NSN 5920-01-
Table mat, common point ground and wrist strap	250-4236
Portable work surface, common point ground and wrist strap	250-4237
Field service kit (includes mat, pouches, wrist straps and grounding cord)	253-5368

Portable work surface



FOR MORE ON ELECTROSTATIC DISCHARGE, SEE NEXT MONTH'S ARTICLE ON PAGE 47 IN PS 719.