

## ESD Portable Field Service Kits

### ESD Protection in the Field

Static damage is a constant threat anywhere micro-electronic components are used, but these components are at highest risk during servicing. The **Transforming Technologies' FSM2424 Field Service Kit** is designed to quickly and reliably remove static charge on the service technician and provide a safe static-free surface to lay parts. The kit includes a 24" x 24" rugged mat with two 8" x 12" pockets for storing tools, an adjustable wrist band, coil cord and 15' ground cord.



The FSM2424 Field Service Kits eliminates static charge through the principle of grounding. Both the mat and the operator's wrist band connect to the specialized ground cord which when properly connected to ground, provides a safe path for static charges to drain to ground.

### Field Service Procedure

1. Upon arrival at the service call site, unpack the field service kit in a convenient area near the equipment to be serviced.
2. Remove any accessories from the pockets and attach the ground cord to the mat via one of the two snaps found in the corner of the mat.
3. Connect the opposite end of the cord to a reliable ground. Common ground locations are water pipes, unpainted equipment frames, and building frames.
4. Slip on the wrist band and adjust the size to fit comfortably around the wrist but tight enough to make contact with the skin at all times. Snap the coil cord to the wrist band.
5. Insert the banana plug of the coil cord into the jack of the ground cord. This connects the wrist band to the same common ground as the work surface.
6. It is now safe to remove and handle static-sensitive components.

### Field Service Care

The FSM2424 Field Service Kits can be cleaned with ESD-safe mat and surface cleaner or with a mild detergent and water as needed. Once clean, allow the material to air dry, removing any excess water/moisture with an absorbent cloth. **DO NOT** use heat of any kind to dry mat. Though inherently flame resistant, the field service products will burn with enough exposure to open flame or other heat sources of sufficient temperature. **DO NOT** use a clothes dryer, as the excess heat may cause the PVC material to retain the shape it held in the dryer. Most strong solvents are not recommended. AVOID: Halogens, concentrated Oxidizing Agents, Ethers, ketones, and Low-Molecular Weight Solvents derived from the Ether and ketones families. They include (but are not limited to) TetraHydroFuran (THF), Methyl Ethyl ketone (MEK), Methyl Isobutyl Ketone (MIBK) and Acetone. These chemicals will mar and/or destroy the surface of the PVC product (the Ketones), react with it (Oxidizing Agents), or actually dissolve it (THF and other Ethers). Wrist strap can be hand or machined washed.

#### For More Information

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\*This document is prepared for our customers as a service, and is to the best of our knowledge true and accurate.