



Static-Dissipative Portable Field Service Kit 8501

Designed for electrostatic protection of static-sensitive components during field service calls

Although static damage can occur anywhere micro-electronic components are used, these sensitive devices are most susceptible during servicing. The 3M™ Static Dissipative Portable Field Kit 8501 prevents static damage that frequently occurs when an unprotected service technician works on electronic equipment.

The 3M Field Service Kit 8501 is designed to quickly and reliably remove any static charge on the technician and to provide a static-free surface upon which to lay parts. The kit includes one 3M™ Adjustable Wrist Band 2204 and a static-dissipative work surface. Both connect to ground by the 3M™ Ground Cord Assembly 3051. (See “Components” section for details).

The static-dissipative work surface reduces the potential for sparking and shorting that exists with highly conductive mats, and minimizes charge drainage from battery packs. For added safety, cotton trim covers all edges of the mat. The construction of this work surface gives it excellent flexibility over a wide range of temperatures. Its red color keeps both the technician and the customer alert to the potential problem of static electricity.

The Field Service Kit 8501 works on the principle of grounding. When the technician attaches the ground cord to the wrist band and to the static-dissipative mat, then connects the cord to ground, any existing static charge on the technician or on any conductive parts laid on the mat drains away to ground. Also, new charge is unable to accumulate.

Note: Static charge on nonconductors (e.g. plastic boxes, vinyl work order holders, foam coffee cups, synthetic clothing, etc.) cannot be removed simply by grounding. The only effective way to get rid of static on these items is to neutralize the charge with ionized air. Since it is often impractical to carry an ionized air blower to a service call site, the technician must take extra care to keep such nonconductors as far away from the work area and sensitive electronics as possible.

The need for good static control procedures at a customer's site cannot be overemphasized. Practicing proper static precautions in the field can save time, money and aggravation for both your customers and your own company. Static damage caused by an unprotected technician usually results in one or more callbacks – costly not only in time and money, but also in reputation. A callback may suggest to both the customer and your service manager that the job was not done right the first time.



Components

- Static-dissipative work surface, .021" x 22" x 24". Red with dark gray edging. Two pockets, each approximately 8" x 11", sewn into the work surface.
- 3M™ Common Point Ground Cord System 3051 Large center snap connects to the work surface. The 10' (extended length) coiled cord section snaps to technician's wrist band; the 5' (extended length) coiled cord section terminates in a standard banana plug which connects to ground either directly or by way of the 3M™ Alligator Clip 3038 (included). Each of the ground cord sections has its own independent one megohm resistor for user safety. (Note: 3M™ Insulated “Bulldog” Clip 3037 is optional.)
- One 3M™ Adjustable Wrist Band 2204

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