

### ESD Workstation Bundle

SpartanTWO Constant Monitor, ESD Table Mat, Wrist Strap, Grounding Hardware, and ESD Sign

### Protect your sensitive items and comply to ESD standards with our ESD workstation kit.

#### Work Surface:

The 4500 series ESD control mats from Transforming Technologies are made of a durable 0.080" thick rubber. A conductive layer backs the static dissipative top layer that creates outstanding electrical performance characteristics. The 4500 series offers excellent resistance to hot solders, soldering irons and most solvents. Our cut mats are packaged individually with 10mm snaps and a common point ground cord. Available in nasa blue, royal blue, green and gray colors in 2'x3' or 2'x4'

#### SpartanTWO Constant Monitor

The constant monitor ensures ESD protection by continuously verifying the ground path of a wrist strap and ESD work surface and alarms if there is a problem. Constant monitors eliminate the need to test wrist straps and reduce ESD damage from broken wrist straps that go unnoticed. The SpartanTWO is compatible with most single wire wrist straps. The compact design fits nicely on the underside of bench tops.

#### Grounding: Wrist Strap and Hardware

**Wrist Strap:** The soft, blue woven fabric and curved buckle of the wrist band allows the skin to breathe and makes it very comfortable to wear. The band uses hypoallergenic silver-plated nylon thread for conductivity and has a maximum resistance of 160 ohms. The coil cord's 2.5mm polyurethane insulation offers excellent coil memory. A swivel type banana jack increases coil life and prevents cord tangles.

**Common Point Ground:** Transforming Technologies GK1000 Table Mat Ground Kit offers the hardware required by ANSI/ESD S-6.1 and ANSI/ESD-S20.20 to ground an ESD table mat.

#### Applications:

**Creates an ESD-Safe workstation for electronics repair, manufacturing, and more. ESD constant monitors reduce production costs by eliminating the time spent on testing wrist straps. Further savings may be realized by reduced ESD damage from broken wrist straps and work surface failures.**

This document is prepared for our customers as a service, and is to the best of our knowledge true and accurate. However, it is understood and agreed by the users of this document that we will accept no liability for the conclusions reached. Users of this document may therefore wish to perform additional testing before determining that products mentioned are suitable.



### Features

- Complete ESD Workstation Kit
- Monitors up to One Wrist Strap, and One Work Surfaces
- Two Layer Rubber: Excellent Resistance to Hold Solders, Soldering Irons and Most Solvents
- Includes Grounding Hardware and Wrist Strap
- Kit Meets or Exceeds Requirements of ANSI ESD-S20.20

#### Part Numbers:

TTB312X3B  
TTB312X4B

Kit, CM310, Mat 2x3, Light Blue WB1637, Hardware  
Kit, CM310, Mat 2x4, Light Blue WB1637, Hardware

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### Part Numbers:

TTB312X3B Kit, CM310, Mat 2x3, Light Blue WB1637, Hardware  
 TTB312X4B Kit, CM310, Mat 2x4, Light Blue WB1637, Hardware

Replace "RB" with "LB" for Light Blue, "GY" for Gray and "GN" for Green



### Model CM310

### Specifications

Wrist open circuit voltage	0.7 VDC, +0.1VDC @ < 2mA	Verification Tool	CM410 PV
Mat open circuit voltage	5.0—7.5 VDC	Adjustment	No adjustments required
Alarm indicators	Alarm/LED (green: safe, red: unsafe)	Weight	7.8 oz
Alarm set point :	6.5 megohm	Power Input	120VAC—60hz
Audible Alarm	10 beeps (max); 5 seconds	Power Output:	12VDC, 200mA



### Specifications:

#### GK1000—Table Mat Ground

#### CP2522 Specifications

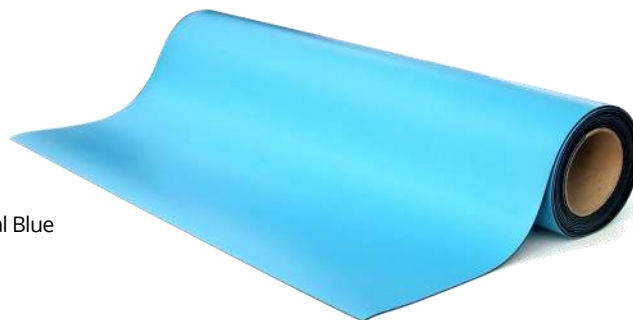
Cord Length: 15'  
 Gnd Terminal: #10 ring type  
 Wire Insulation: PU/PVC  
 Resistor: 1 Meg ohm  
 Color: Black

#### CS1090 Specifications

Material: Stainless Steel  
 Size: 10mm Male Socket  
 10mm Female Socket

### Specifications:

Thickness 0.080"  
 Hardness 60 Shore A  
 Tensile Strength >1000 PSI  
 Elongation >300%  
 Temperature 190F (87C)  
 Color Nasa Blue, Gray, Royal Blue  
 Rubber Premium NBR  
 RTGP  $8 \times 10^{6\text{ohms}}$   
 RTT  $2 \times 10^{6\text{ohms}}$   
 Charge Decay 0.01Seconds



The ESD matting is rated to 190F (87C). The mats are heat resistant, not heat proof. They will withstand exposure to high temperatures, but it is dependant on exposure time.

### Product Specifications

#### Wrist Band

Fabric: Polyester with silver-plated nylon  
 Resistance: 100 ohms typical  
 Contact: 360 degrees around wrist  
 Color: Blue  
 Snap: 4, 7 and 10mm  
 Snap Release: 1-5 pounds  
 Back Plate: Stainless Steel  
 band, 4mm

#### Coil Cord

Length: 6 feet, extended  
 Resistor: 1 meg ohm  
 Flex Life: > 50,000 flexes  
 Color: Black  
 Banana: Swivel type



### About Transforming Technologies

Since 1998, Transforming Technologies has helped electronic manufacturing facilities to protect their products and processes from the many serious problems associated with static electricity.

Transforming Technologies offers a wide range of unique and outstanding products to detect, protect, eliminate and monitor electrostatic charges. Our products are integral components of an effective static control program.