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iFixit IF145-202-5

iFixit Portable Anti-Static Mat User Manual

Model: IF145-202-5

Introduction

The iFixit Portable Anti-Static Mat system is designed to protect sensitive electronic components from damage caused by electrostatic discharge (ESD) during repair or assembly. This kit includes a high-quality anti-static mat, a wrist strap, and a grounding cord, providing a safe working environment for repairing computers, phones, tablets, and other electronics.

Setup

Follow these steps to properly set up your iFixit Portable Anti-Static Mat for safe electronic repair:

1. **Unfold the Mat:** Lay the anti-static mat flat on your workspace. Ensure it is fully extended to provide an adequate surface for your components.
2. **Connect the Grounding Cord:** Attach one end of the grounding cord to the snap connector on the anti-static mat.
3. **Ground the System:** Connect the other end of the grounding cord (typically an alligator clip) to a reliable electrical ground. Suitable grounding points include a grounded metal water pipe, a grounded electrical outlet screw (not the slot), or a metal heater. Ensure the connection is secure.
4. **Wear the Wrist Strap:** Place the adjustable wrist strap snugly around your wrist.
5. **Connect the Wrist Strap to the Mat:** Attach the coiled cord from the wrist strap to the remaining snap connector on the anti-static mat. This ensures a continuous path to ground for your body.



Image: A person demonstrating the proper setup of the iFixit anti-static mat, wrist strap, and grounding cord while working on a smartphone.



Image: A detailed view of the iFixit anti-static wrist strap and its coiled grounding cord, featuring an alligator clip for connection to a ground point.

Operating

Once the anti-static mat system is properly set up, you can begin working on your electronics:

- **Place Components on Mat:** Always place the electronic device and any sensitive components directly on the anti-static mat. The mat's surface resistivity (10^7 - 10^9 Ω) safely dissipates static charges.
- **Maintain Wrist Strap Connection:** Keep the wrist strap securely on your wrist and connected to the mat throughout the repair process. This ensures your body remains at the same electrical potential as the mat, preventing static discharge from your body to the components.
- **Handle Components Carefully:** Even with ESD protection, handle sensitive components by their edges or non-

conductive parts whenever possible.

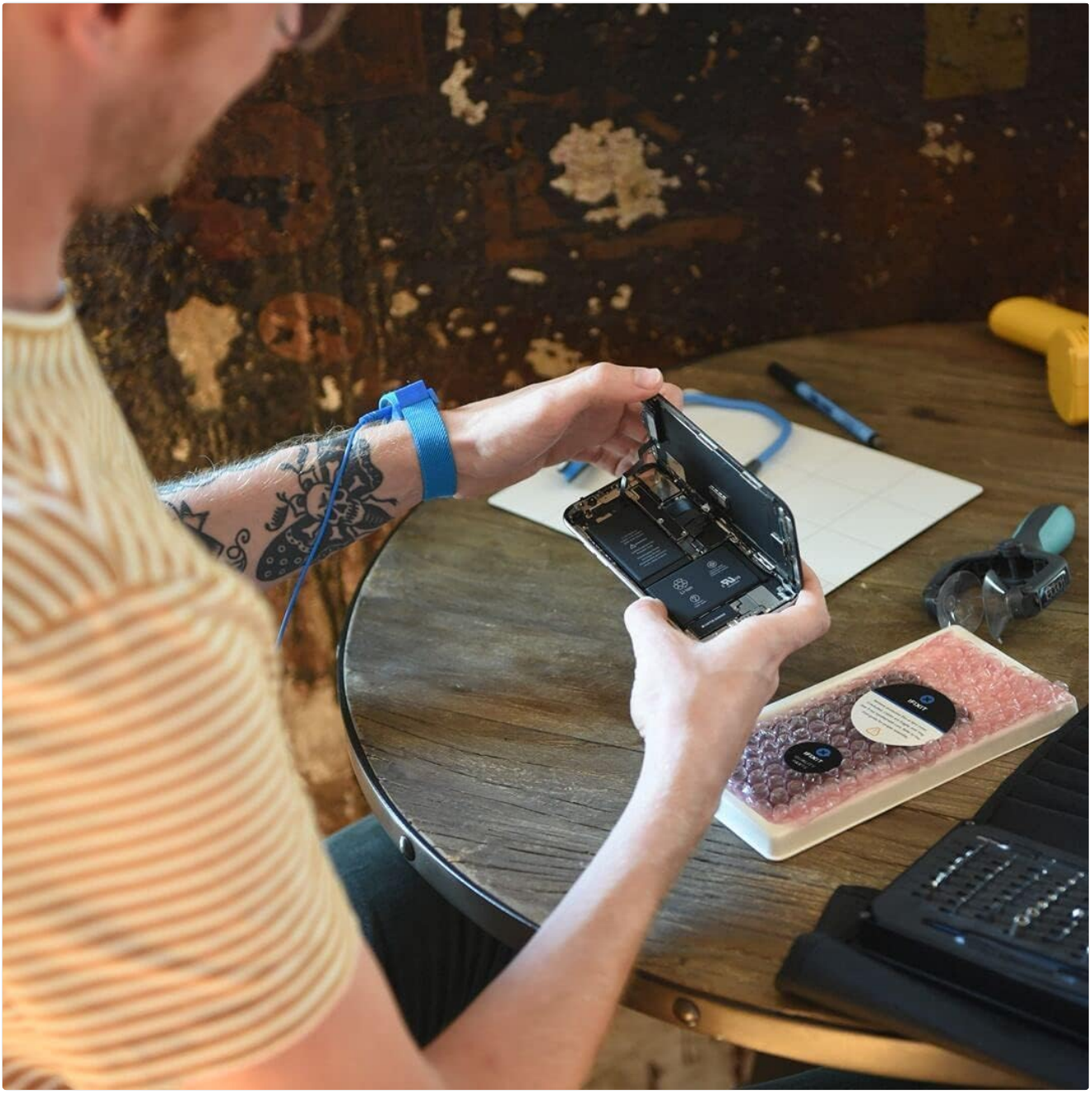


Image: A person wearing the iFixit anti-static wrist strap, actively engaged in repairing an open smartphone, highlighting the importance of personal grounding during delicate electronic work.

Maintenance

To ensure the longevity and effectiveness of your iFixit Portable Anti-Static Mat, follow these maintenance guidelines:

- **Cleaning:** Keep the mat clean and free of debris. Use a mild soap and water solution if necessary, and allow it to air dry completely before storage or reuse. Avoid harsh chemicals or abrasive cleaners.
- **Storage:** Store the mat in a dry place when not in use. Its portable design allows it to be easily folded or rolled for compact storage.
- **Inspection:** Periodically inspect the mat, wrist strap, and grounding cord for any signs of wear, damage, or frayed connections. Replace any damaged components immediately to maintain effective ESD protection.

Troubleshooting

If you suspect your anti-static setup is not functioning correctly, consider the following:

- **No Grounding:** Ensure the grounding cord is securely connected to both the mat and a verified electrical ground. A loose connection will compromise ESD protection.
- **Wrist Strap Fit:** The wrist strap must make good contact with your skin. Adjust it to be snug but comfortable.
- **Component Placement:** Always keep sensitive components on the mat. Placing them on an ungrounded surface can expose them to static.
- **Environmental Factors:** Very low humidity can increase static electricity. While the mat provides protection, working in extremely dry environments may require additional precautions.

Specifications

Feature	Detail
Material	Nylon, Rubber
Surface Resistivity	10^7 - 10^9 Ω
Grounding Snap	10 mm
Grounding Cord Length	1.8 m (6 ft)
Grounding Cord Resistance	10^5 Ω
Mat Dimensions	60 cm x 60 cm (approx. 23.6 in x 23.6 in)
Wrist Strap Length	1.8 m (6 ft), adjustable to size XL
Wrist Strap Resistance	50 Ω
Color	Black (Mat), Blue (Wrist Strap/Cord)
Model Name	Ifixit Portable Anti-static Mat - Esd Pad, Wrist Strap, Grounding Cord
Model Number	IF145-202-5
Item Weight	0.25 kg

Warranty

This iFixit product comes with a **Lifetime Guarantee**. iFixit stands behind its tools and products. If something breaks, it will be replaced for as long as you own it. For warranty claims or details, please refer to the official iFixit website or contact customer support.

Support

For additional assistance, repair guides, or to purchase replacement parts and tools, please visit the official iFixit website:

Visit iFixit.com



Image: An illustration showcasing iFixit's offerings: Guides, Solutions, Parts, and Tools, with the slogan "Together we can fix anything."

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