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Megger ETK100

Megger ETK100 Cable Reel Kit User Manual

Model: ETK100 (Part Number: 1010-178)

INTRODUCTION

The Megger ETK100 Cable Reel Kit is designed to facilitate earth/ground resistance testing with compatible Megger earth testers. This kit includes 330 ft (100 m) of test leads on easy-to-use reels, ensuring efficient deployment and retrieval. It is intended for use by qualified personnel in accordance with local safety regulations.

SAFETY INFORMATION

Always observe standard safety precautions when working with electrical testing equipment. Failure to do so may result in injury or damage to equipment.

- Ensure all connections are secure before conducting tests.
- Do not use the kit if any components appear damaged.
- Refer to the instruction manual of your specific Megger earth tester for detailed safety guidelines related to the testing procedure.
- Keep the kit away from moisture and extreme temperatures.

PACKAGE CONTENTS

Verify that all items are present and undamaged upon unpacking:

- Cable Reel Kit (330 ft / 100 m test leads on reels)
- Holdall for storage and transport
- Tape measure
- Instruction Manual (this document)



Image: The Megger ETK100 Cable Reel Kit, showing the cable reels, leads, and associated accessories within its protective holdall.

SETUP

The ETK100 kit is designed for quick and easy deployment.

1. **Unpack the Kit:** Remove the cable reels and accessories from the holdall.
2. **Connect to Earth Tester:** Connect the appropriate ends of the test leads from the reels to your Megger earth tester (e.g., DET2/2, DET2/3, DET3, DET4, or MFT models). Refer to your tester's manual for specific connection points.
3. **Deploy Test Leads:** Place the earth tester at the desired starting point. Unwind the test leads from the reels by walking towards the test spike locations. The reels feature a smooth action for easy unwinding.
4. **Position Test Spikes:** Use the provided tape measure to ensure accurate placement of the test spikes/pins according to the requirements of your earth resistance test method. Clip the ends of the test leads directly into the spikes.

OPERATING INSTRUCTIONS

Once the ETK100 Cable Reel Kit is set up and connected to your Megger earth tester, proceed with the testing as follows:

1. **Perform Test:** Follow the operating instructions of your specific Megger earth tester to conduct the earth resistance measurement.
2. **Record Readings:** Note down the test results as required.
3. **Retrieve Test Leads:** After completing the test, unclip the test leads from the spikes.

4. **Wind Leads:** Use the large, comfortable handle on each reel to smoothly wind the test leads back onto the reels. Ensure the leads are wound neatly to prevent tangling.
5. **Pack Away:** Once all leads are wound, disconnect them from the earth tester and store the reels and tape measure back in the holdall for protection and easy transport.

MAINTENANCE

Proper maintenance ensures the longevity and reliability of your ETK100 Cable Reel Kit.

- **Cleaning:** Wipe down the reels and leads with a damp cloth as needed. Do not use abrasive cleaners or solvents.
- **Inspection:** Regularly inspect the test leads for any signs of wear, cuts, or damage to the insulation. Check the reel mechanisms for smooth operation.
- **Storage:** Store the kit in its provided holdall in a clean, dry environment, away from direct sunlight and extreme temperatures.
- **Cable Management:** Always wind the cables neatly onto the reels after use to prevent kinks and tangles, which can lead to damage.

TROUBLESHOOTING

If you encounter issues with your ETK100 Cable Reel Kit, consider the following:

- **Leads not unwinding/winding smoothly:** Check for any obstructions or kinks in the cable. Ensure the reel mechanism is clean.
- **Poor test results:** Verify that all connections to the earth tester and test spikes are secure and clean. Ensure the test leads are not damaged. Refer to your earth tester's manual for troubleshooting specific measurement issues.
- **Damaged components:** Do not attempt to repair damaged leads or reels. Contact Megger customer support for assistance or replacement parts.

SPECIFICATIONS

Feature	Specification
Model	ETK100
Part Number	1010-178
Cable Length	330 ft (100 m)
Compatible Testers	Megger DET2/2, DET2/3, DET3, DET4, MFT models
Material (Leads)	Copper
Item Weight	6 Pounds
Item Dimensions (L x W x H)	4.72 x 6.3 x 15.75 inches

WARRANTY AND SUPPORT

Megger products are manufactured to high standards and are typically covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or visit the official Megger website. For technical support, service, or replacement parts, please contact Megger customer service directly.

Contact information can usually be found on the official Megger website or on your purchase invoice.