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Mastech MS6818

Mastech MS6818 Advanced Cable Locator User Manual

Model: MS6818

1. Introduction

The Mastech MS6818 is an advanced, handheld cable locator designed for tracing cables, identifying breaks, and locating short circuits in various electrical installations. This device is ideal for professionals working with telecommunication cables, power cables, and other wiring systems. It consists of a transmitter and a receiver, working together to provide accurate and reliable cable tracing.
This manual provides essential information for the safe and efficient operation, maintenance, and troubleshooting of your MS6818 cable locator. Please read it thoroughly before using the device.

2. Safety Information

Always adhere to the following safety precautions to prevent injury and damage to the device:

- Do not use the device in wet environments or near flammable gases or vapors.
- Ensure proper insulation when connecting the transmitter to live circuits.
- Always disconnect power before connecting or disconnecting the transmitter to avoid electrical shock.
- Use only the specified battery type and ensure correct polarity during installation.
- Do not attempt to repair or modify the device. Refer all servicing to qualified personnel.
- Keep the device out of reach of children.

3. Product Overview

3.1. Components

The Mastech MS6818 system includes the following main components:

- **Transmitter (MS6818T):** Generates a signal that is injected into the cable.
- **Receiver (MS6818R):** Detects the signal from the transmitter to trace the cable path.
- **Test Leads:** For connecting the transmitter to the cable.
- **Ground Rod:** For grounding the transmitter in certain applications.
- **Carrying Case:** For storage and transport.

(Image Placeholder: An image showing the Mastech MS6818 Transmitter and Receiver with their main parts labeled would be displayed here. This image helps users identify each component of the device.)

(Video Placeholder: An official product video demonstrating the unboxing and identification of all components of the Mastech MS6818 would be embedded here. This video provides a visual guide to the product's contents.)

3.2. Transmitter Features

- LCD display for signal level, code, and battery status.
- Selectable signal output modes.
- Integrated AC/DC voltmeter function.

3.3. Receiver Features

- LCD display for signal strength, code, and battery status.
- Adjustable sensitivity for precise tracing.
- Built-in flashlight for dark environments.

4. Setup

4.1. Battery Installation

The MS6818 requires 7 product-specific batteries (included). Ensure correct polarity when installing.

1. Locate the battery compartment on both the transmitter and receiver.
2. Open the battery cover.
3. Insert the batteries, matching the positive (+) and negative (-) terminals as indicated.
4. Close the battery cover securely.

(Image Placeholder: An image illustrating the battery installation process for both the transmitter and receiver would be displayed here. This visual aid helps ensure correct battery placement.)

4.2. Connecting the Transmitter

The transmitter can be connected to the cable using various methods depending on the application:

- **Direct Connection:** For de-energized circuits. Connect the red test lead to the cable to be traced and the black test lead to a known ground.
- **Clamp Connection (Optional Accessory):** For energized circuits without direct contact.
- **Socket Connection:** For tracing circuits from a wall socket.

(Image Placeholder: An image demonstrating different connection methods for the transmitter, such as direct connection to a cable and connection to a wall socket, would be displayed here. This helps users understand how to properly set up the transmitter for various scenarios.)
Important: Always ensure the circuit is de-energized before making direct connections to avoid electrical hazards.

5. Operating Instructions

5.1. Basic Cable Tracing

1. Connect the transmitter to the cable you wish to trace (refer to Section 4.2).
2. Turn on the transmitter and select the desired signal output mode.
3. Turn on the receiver.
4. Adjust the receiver's sensitivity to an appropriate level. Start with a lower sensitivity and increase as needed.
5. Move the receiver along the suspected path of the cable. The signal strength indicator on the receiver's LCD will

increase as you get closer to the cable.

6. Follow the path of the strongest signal to trace the cable.

(Video Placeholder: An official product video demonstrating the basic cable tracing procedure using both the transmitter and receiver would be embedded here. This video visually guides users through the process of locating a cable.)

5.2. Locating Cable Breaks and Short Circuits

To locate a break or short circuit, connect the transmitter to one end of the faulty cable. Trace the cable as described in Section 5.1. The signal will typically drop significantly or disappear past the point of the break or short circuit.
(Image Placeholder: An image illustrating how to identify a cable break or short circuit using the signal strength indicator on the receiver would be displayed here. This visual helps users interpret the readings for fault detection.)

5.3. Using the AC/DC Voltmeter Function (Transmitter)

The transmitter can also measure AC/DC voltage. Connect the test leads to the circuit to be measured. The voltage reading will be displayed on the transmitter's LCD.

6. Maintenance

6.1. Cleaning

Wipe the device with a soft, damp cloth. Do not use abrasive cleaners or solvents. Ensure the device is dry before storage.

6.2. Battery Replacement

Replace batteries when the low battery indicator appears on the LCD. Refer to Section 4.1 for battery installation instructions. Remove batteries if the device will not be used for an extended period to prevent leakage.

6.3. Storage

Store the device in its carrying case in a cool, dry place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

Problem	Possible Cause	Solution
Device does not power on.	Low or dead batteries; incorrect battery installation.	Replace batteries; check battery polarity.
No signal detected by receiver.	Transmitter not powered on; transmitter not connected correctly; receiver sensitivity too low; cable too deep or shielded.	Ensure transmitter is on; verify connections; increase receiver sensitivity; try different connection points.
Inaccurate tracing results.	Interference from other cables/devices; receiver sensitivity too high; improper grounding.	Reduce receiver sensitivity; ensure proper grounding; minimize nearby electrical interference.

8. Specifications

Feature	Detail
Brand	Mastech
Model Number	MS6818
Power Source	7 Product specific batteries (included)
Package Dimensions	28 x 20 x 8.5 cm
Item Weight	0.77 g
First Available Date	26 July 2018

Note: Specifications are subject to change without notice. The listed item weight of 0.77 g may be a typographical error and typically refers to 0.77 kg or 770 g for a device of this type.

9. Warranty and Support

For warranty information, technical support, or service inquiries, please contact Mastech customer service or your local distributor. Keep your purchase receipt as proof of purchase for warranty claims.
You can typically find contact information on the Mastech official website or on the product packaging.

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