
13. MAINTENANCE AND TROUBLESHOOTING

Care And Maintenance

MiniTrase requires very little maintenance other than periodic charging of the batteries.

Clean plastic surfaces with a moist, clean, soft cloth.

Store the unit in a dry environment. Excessive moisture may damage internal circuits and cause the unit to fail.

Troubleshooting

MiniTrase Will Not Turn On When You Press Power Switch to "ON" position

- 1) Check to see that the Power Switch is in the "ON" position and that the Battery is properly seated. Refer to Section 4, "Requirements Prior to Use."
- 2) If you are using auxiliary power, make sure power cable connections are properly made.

MiniTrase Will Not Zero Set

- 1) Is the Waveguide connect handle plugged into MiniTrase? If you are using a buriable probe, do you have the correct waveguide type selected in the Setup Menu?
- 2) Make sure that waveguides have been removed from the connector if using the Standard Waveguide Connector, and make sure the waveguides are installed if using the Slammer.
- 3) Be sure Waveguide sockets are not touching any surface.
- 4) Make sure all cable connections are properly made, see Section 3, "Acquaint Yourself with the Parts".
- 5) Use correct "connector", "field", or "buriable" setting.

Unable To Measure Moisture

- 1) Check your entries in the Trase Measure Screen to make sure entries are all properly and completely entered. Refer to Section 6, "Using The Trase Measure Screen".
- 2) Check to make sure plug and cable connections to the Waveguides connector or buried Waveguide are intact.
- 3) Check the Capture Window. If you are working with very long Waveguides in very wet soils, the Transit Time through the Waveguides may exceed windowing time of the Capture Window. You must select a time capture window size of 10ns, 20ns or 40ns, which will encompass the full TDR waveform. Refer to Section "The Measuring System", under Section 2, "Principles and Techniques of Operation."
- 4) If you are working with shorter waveguides or standard buriable waveguides, make sure you are using a 10ns capture window.

Cold Booting the MiniTrase

The MiniTrase Processor can be returned to its initial state. The process is sometimes referred to by the computer industry as a “cold start” or a “cold boot”. The process erases all stored data and returns all fields to their original default conditions. This process is normally used only if a computer appears to be malfunctioning in the sequencing of operations or handling of data.

Parts

6002F1	Standard Waveguide Connector
6008L15	Set of 15 cm long Waveguides
6031	MiniTrase Backpack
6050X3K1B	MiniTrase with Multiplexer Card
8001	TraseTerm software on CD
6051V100-240	Power Supply unit for MiniTrase
6910	Palm Handheld Terminal
0898-6050X3K1	MiniTrase Operating Instructions
MEZ036	Connector Cable from MiniTrase to PC

Accessories

6008L15	Standard Waveguides, 15 cm (set of two)
6008L30	Standard Waveguides, 30 cm (set of two)
6008L45	Standard Waveguides, 45 cm (set of two)
6008L60	Standard Waveguides, 60 cm (set of two)
6008L70	Standard Waveguides, 75 cm (set of two)
6008CL15	Coated Waveguides, 15 cm (set of 2)
6008CL30	Coated Waveguides, 30 cm (set of 2)
6010	Waveguide Installation Tool, for 6008 Series Waveguide
6012	Waveguide Alignment Block
6053V120	MiniTrase Battery Charger
7005A	External Bluetooth Module for Trace

Burable Waveguides

6005L2	Burable Waveguide, 20 cm probe, 2 meter cable
6005CL2	Coated Burable Waveguide, 20 cm probe, 2 meter cable
6111	MiniBurable Waveguide, 8 cm probes

Slammer & Accessories

6101	Slammer Waveguide
6101-4000	Slammer Alignment Block
6009L20	Heavy-Duty Slammer Waveguides, 20 cm
6009L30	Heavy-Duty Slammer Waveguides, 30 cm
6009L40	Heavy-Duty Slammer Waveguides, 40 cm
6009L50	Heavy-Duty Slammer Waveguides, 50 cm
6009L60	Heavy-Duty Slammer Waveguides, 60 cm

Extension Cables

6006L02	Extension Cable, 2 meters
6006L05	Extension Cable, 5 meters
6006L10	Extension Cable, 10 meters
6006L15	Extension Cable, 15 meters
6006L20	Extension Cable, 20 meters
6006L25	Extension Cable, 25 meters
6006L30	Extension Cable, 30 meters
6006L35	Extension Cable, 35 meters
6006L40	Extension Cable, 40 meters

Multiplexing	6020B05	Multiplexer Enclosure, 76 channel For connection of up to 5 16-channel switching boards
	6020B17	Multiplexer Enclosure, 256 channel For connection of up to 16 16-channel switching boards
	6021C16	16-Channel TDR Switching Board
	6022	Multiplexer Control Board Controls all functions of the multiplexer switching boards.
	MEZ011	MiniTrase to Multiplexer Enclosure Cable
MiniTrase Replacement Parts	6075-0000-02	Black Rubber Battery Handle
	MEB006	AA-Size Alkaline Batteries (internal to MiniTrase for memory)
	MEB009	NiCad 12 Volt, 1.3 Amp Hr Replacement Battery
	MZL032	Plastic Dust Cover for 8-pin DIN Power Port
	MZL034	Plastic Dust Cover for DB-9 port Terminal Port
	MZL035	Plastic Dust Cover for DB-15 Multiplexer Port