



EMO CABLE TESTER E448 INSTRUCTIONS FOR USE

CAUTION: UNDER NO CIRCUMSTANCES SHOULD THE UNIT BE CONNECTED TO ANY EQUIPMENT WHICH IS IN OPERATION OR CONNECTED TO MAINS POWER.

Models

- EMO Remote Cable Tester E448 (25-448)

Description

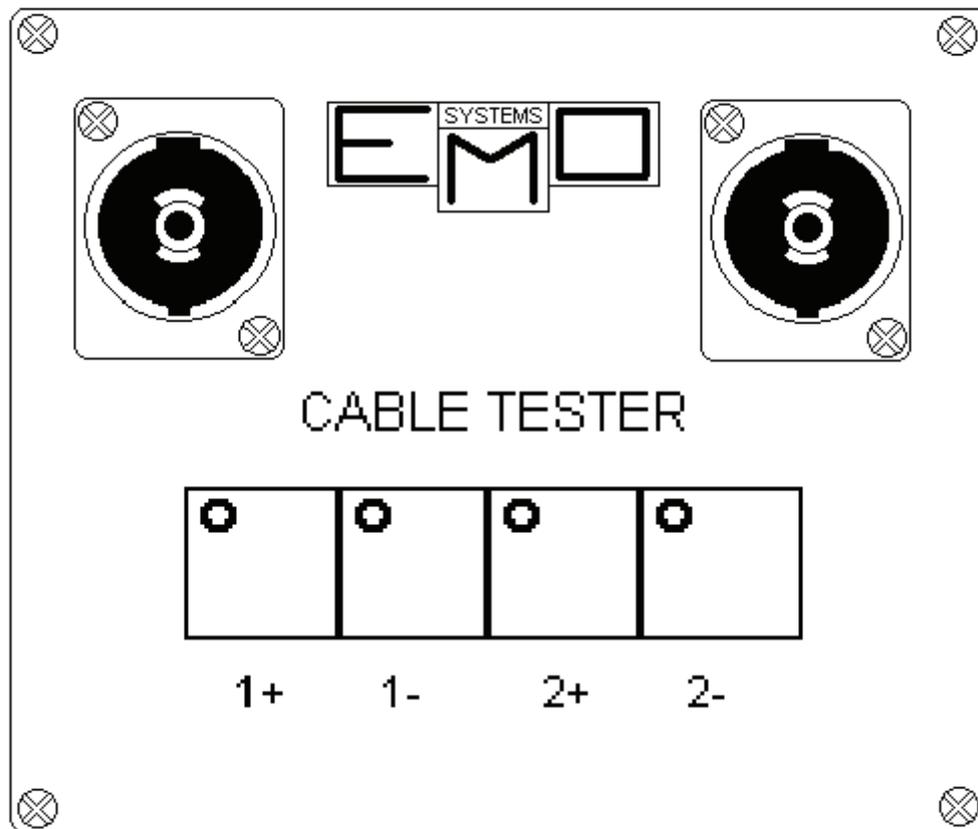
The E448 Cable Tester will test loudspeaker leads that utilise Neutrik 4-pole cable connectors.

It will test for continuity, short circuits and cross connections.

Power

The unit is powered by a 9V battery; type 4022, MN1604, 6LR61 or equivalent. (Old PP3 style.)

The battery can be changed by removing the lid of the unit. When replacing the lid, ensure that the battery lead is not trapped. It is recommended that the battery is replaced at least annually, to prevent any possible leakage. If the LEDs are dull or do not light then the battery should be checked.



Cable Testing

To test a cable assembly, insert each connector into the socket on the tester and press each button in sequence, observing the LED indicators within the buttons. If the LED illuminates when the button is pushed then there is continuity between similar pins. If another LED is illuminated then there is a cross connection. If more than one LED is lit then there is a short in the cable assembly. The actual fault can be found by referring to the table below. Although this table may appear a little complicated, a short time spent experimenting with the CABLE TESTER should allow the user to identify faults without needing to refer to the table.

BUTTON 1+	BUTTON 1-	BUTTON 2+	BUTTON 2-
● ○ ○ ○ correct	○ ● ○ ○ correct	○ ○ ● ○ correct	○ ○ ○ ● correct
○ ● ○ ○ cross-wire 1+/1-	● ○ ○ ○ cross-wire 1-/1+	● ○ ○ ○ cross-wire 2+/1+	● ○ ○ ○ cross-wire 2-/1+
○ ○ ● ○ cross-wire 1+/2+	○ ○ ● ○ cross-wire 1-/2+	○ ● ○ ○ cross-wire 2+/1-	○ ● ○ ○ cross-wire 2-/1-
○ ○ ○ ● cross-wire 1+/2-	○ ○ ○ ● cross-wire 1-/2-	○ ○ ○ ● cross-wire 2+/2-	○ ○ ● ○ cross-wire 2-/2+
● ● ○ ○ short 1+/1-	● ● ○ ○ short 1-/1+	● ○ ● ○ short 2+/1+	● ○ ○ ● short 2-/1+
● ○ ● ○ short 1+/2+	○ ● ● ○ short 1-/2+	○ ● ● ○ short 2+/1-	○ ● ○ ● short 2-/1-
● ○ ○ ● short 1+/2-	○ ● ○ ● short 1-/2-	○ ○ ● ● short 2+/2-	○ ○ ● ● short 2-/2+
● ● ● ○ short 1+/1-/2+	● ● ● ○ short 1-/1+/2+	● ● ● ○ short 2+/1+/1-	● ● ○ ● short 2-/1+/1-
● ● ○ ● short 1+/1-/2-	● ● ○ ● short 1-/1+/2-	● ○ ● ● short 2+/1+/2-	● ○ ● ● short 2-/1+/2+
● ○ ● ● short 1+/2+/2-	○ ● ● ● short 1-/2+/2-	○ ● ● ● short 2+/1-/2-	○ ● ● ● short 2-/1-/2+
● ● ● ● short 1+/1-/2+/2-	● ● ● ● short 1-/1-/2+/2-	● ● ● ● short 1+/1-/2+/2-	● ● ● ● short 1+/1-/2+/2-
○ ○ ○ ○ open circuit 1+	○ ○ ○ ○ open circuit 1-	○ ○ ○ ○ open circuit 2+	○ ○ ○ ○ open circuit 2-

On cables which show continuity faults it is possible for the cable to be cross wired, a condition which the CABLE TESTER will only show after the short has been corrected. It is recommended that cables are checked after repair to ensure that all faults have been corrected.

The tester cannot determine where faults actually lie, only that they exist. In the case of a lead shown to have an open circuit, the fault could lie in either of the connectors or the cable itself. The actual position can only be determined by visual inspection.