

User Manual



CABLE TESTER CT100

Professional 6-in-1 Cable Tester

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Important Safety Instructions



 Terminals marked with this symbol carry electrical current of sufficient magnitude to constitute risk of electric shock. Use only high-quality professional speaker cables with ¼" TS or twist-locking plugs pre-installed. All other installation or modification should be performed only by qualified personnel.

 This symbol, wherever it appears, alerts you to the presence of uninsulated dangerous voltage inside the enclosure - voltage that may be sufficient to constitute a risk of shock.

 This symbol, wherever it appears, alerts you to important operating and maintenance instructions in the accompanying literature. Please read the manual.

 **Caution** To reduce the risk of electric shock, do not remove the top cover (or the rear section). No user serviceable parts inside. Refer servicing to qualified personnel.

 **Caution** To reduce the risk of fire or electric shock, do not expose this appliance to rain and moisture. The apparatus shall not be exposed to dripping or splashing liquids and no objects filled with liquids, such as vases, shall be placed on the apparatus.

 **Caution** These service instructions are for use by qualified service personnel only. To reduce the risk of electric shock do not perform any servicing other than that contained in the operation instructions. Repairs have to be performed by qualified service personnel.

1. Read these instructions.
2. Keep these instructions.
3. Heed all warnings.
4. Follow all instructions.
5. Do not use this apparatus near water.
6. Clean only with dry cloth.
7. Do not block any ventilation openings. Install in accordance with the manufacturer's instructions.
8. Do not install near any heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.

9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding-type plug has two blades and a third grounding prong. The wide blade or the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.

10. Protect the power cord from being walked on or pinched particularly at plugs, convenience receptacles, and the point where they exit from the apparatus.

11. Use only attachments/accessories specified by the manufacturer.



12. Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the apparatus. When a cart is used, use caution when moving the cart/apparatus combination to avoid injury from tip-over.

13. Unplug this apparatus during lightning storms or when unused for long periods of time.

14. Refer all servicing to qualified service personnel. Servicing is required when the apparatus has been damaged in any way, such as power supply cord or plug is damaged, liquid has been spilled or objects have fallen into the apparatus, the apparatus has been exposed to rain or moisture, does not operate normally, or has been dropped.

15. The apparatus shall be connected to a MAINS socket outlet with a protective earthing connection.

16. Where the MAINS plug or an appliance coupler is used as the disconnect device, the disconnect device shall remain readily operable.



17. Correct disposal of this product: This symbol indicates that this product must not be disposed of with household waste, according to the WEEE Directive (2012/19/EU) and your national law. This product should be taken to a collection center licensed for the recycling of waste electrical and electronic equipment (EEE). The mishandling of this type of waste could have a possible negative impact on the environment and human health due to potentially hazardous substances that are generally associated with EEE. At the same time, your cooperation in the correct disposal of this product will contribute to the efficient use of natural resources. For more information about where you can take your waste equipment for recycling, please contact your local city office, or your household waste collection service.

18. Do not install in a confined space, such as a book case or similar unit.

19. Do not place naked flame sources, such as lighted candles, on the apparatus.

20. Please keep the environmental aspects of battery disposal in mind. Batteries must be disposed-of at a battery collection point.

21. Use this apparatus in tropical and/or moderate climates.

LEGAL DISCLAIMER

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LIMITED WARRANTY

For the applicable warranty terms and conditions and additional information regarding MUSIC Group's Limited Warranty, please see complete details online at music-group.com/warranty.

1. Introduction

Congratulations! With the CT100, you have purchased an indispensable tool that enables you to easily check the most common cables used by musicians and sound engineers. Faulty cables are a common cause of failure in live and studio situations. This microprocessor-controlled device was designed to ensure fast, reliable problem location. Various test modes and the included belt clip add to its flexibility.

2. Cable Tester Mode

◇ Move the ON switch to the CABLE TESTER position.

Insert one end of your cable into any OUT jack of the CT100. Connect the other end of the cable to any IN jack. The LEDs will indicate which input pins are connected to each output pin. Additionally, the GROUNDED SHIELD LED indicates whether a XLR OUT jack's shield is connected to the pin 1/sleeve signal.

2.1 How to test intermittent connections

The following method allows you to detect intermittent connections caused by wire breaks or faulty solder points. While in CABLE TESTER MODE, press RESET to store the current cable-wiring display and to clear the INTERMITTENT LEDs. Move the cable vigorously in all directions and watch the LEDs. Any change in wiring or break in the signal flow will cause the LED of the corresponding input pin to light up. The LED will stay lit until RESET is pressed again, assuring detection of even the shortest breaks in the signal flow. It is a good idea to repeat the test after resetting the LEDs to double-check the initial results.

3. Installed Cable Tester Mode

This mode enables you to test cables in fixed installations or situations that don't allow you to connect both ends of the cable to the CT100.

- ◇ Hold down the RESET button while moving the ON switch to the CABLE TESTER position. The ON LED will blink to indicate that the CT100 is in INSTALLED CABLE TESTER MODE.

To test a cable for short circuits, connect one end of the cable to the appropriate OUT jack of the CT100. The display works as in CABLE TESTER MODE (see chapter 2). However, it now indicates connections between out pins. If no LEDs light, the cable is free of short circuits.

3.1 Continuity check in Installed Cable Tester Mode

For a continuity check, connect a shorting jack (a jack in which pins are short-circuited to one another) to the other end of the cable. If there are no breaks in the signal flow, the display will show the corresponding pins as being shorted to each other. If the display indicates no short circuit, there is a break in the signal flow.

- ◇ The testing of intermittent connections works exactly as in CABLE TESTER MODE (see chapter 2.1).
- ◇ INSTALLED CABLE TESTER MODE will not indicate connections between out and in pins. This is done in CABLE TESTER MODE (see chapter 2).

4. Test Tone Mode

- ◇ Move the ON switch to the position TEST TONE.
- ◇ Do not use the TEST TONE MODE for MIDI cables!

TEST TONE MODE may be used to check signal flow and to facilitate level adjustments. It routes a test tone to the “+ pin” (pin 2/tip) of all OUT jacks. Use the TEST TONE LEVEL switch to choose between +4 dBu, -10 dBV, or -50 dBV mic level. Please note that this mode is not intended to work as a voltage standard and that battery voltage will affect the test tone output level.

4.1 Selection between 1 kHz and 440 Hz

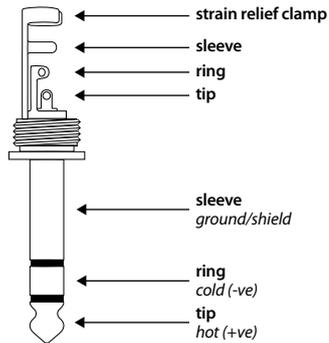
While in TEST TONE MODE, pressing RESET toggles between 1 kHz and 440 Hz. The TEST TONE LED indicates the selected frequency: On = 1 kHz, Off = 440 Hz.

EN 5. Phantom Power Detect

In TEST TONE MODE, pins 2 and 3 are monitored for external DC voltage (commonly supplied for condenser microphones). The PHANTOM LEDs will light if DC voltage above approx. 9 V is detected.

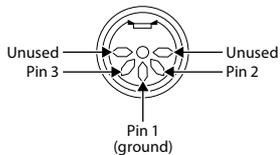
6. Wiring

Balanced ¼" TRS connector



For connection of balanced and unbalanced plugs, ring and sleeve have to be bridged at the stereo plug.

¼", TT, ⅛" TRS connectors (mono or TS connectors also work)



MIDI connector (2 pins unused)



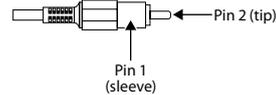
input

output

1 = ground/shield
2 = hot (+ve)
3 = cold (-ve)

For unbalanced use, pin 1 and pin 3 have to be bridged

XLR connectors (pin numbers visible on connectors)



RCA connector

FEDERAL COMMUNICATIONS COMMISSION COMPLIANCE INFORMATION



Responsible Party Name: **MUSIC Group Services NV Inc.**

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Las Vegas, NV 89118
USA**

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CABLE TESTER CT100

complies with the FCC rules as mentioned in the following paragraph:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Important information:

Changes or modifications to the equipment not expressly approved by MUSIC Group can void the user's authority to use the equipment.

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