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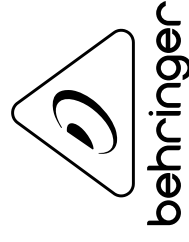


Quick Start Guide



CT200

Microprocessor-Controlled 8-in-1 Cable Tester



EN 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.

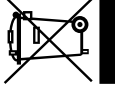
11. Use only attachments/accessories specified by the manufacturer.



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.

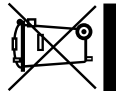
13. Unplug this apparatus during lightning storms or when unused for long periods of time.

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 (WEEE). 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 WEEE. 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.

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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.

ES Instrucciones de seguridad



Las terminales marcadas con este símbolo transportan corriente eléctrica de magnitud suficiente como para constituir un riesgo de descarga eléctrica. Utilice solo cables de altavoz profesionales y de alta calidad con conectores TS de 6,3 mm o de bayoneta prefijados. Cualquier otra instalación o modificación debe ser realizada únicamente por un técnico cualificado.

Este símbolo, siempre que aparece, le advierte de la presencia de voltaje peligroso sin aislar dentro de la caja; este voltaje puede ser suficiente para constituir un riesgo de descarga.



Atención

Las instrucciones de servicio deben llevarlas a cabo exclusivamente personal cualificado. Para evitar el riesgo de una descarga eléctrica, no realice reparaciones que no se encuentren descritas en el manual de operaciones. Las reparaciones deben ser realizadas exclusivamente por personal cualificado.

1. Lea las instrucciones.
2. Conserve estas instrucciones.
3. Preste atención a todas las advertencias.
4. Siga todas las instrucciones.
5. No use este aparato cerca del agua.
6. Limpie este aparato con un paño seco.
7. No bloquee las aberturas de ventilación. Instale el equipo de acuerdo con las instrucciones del fabricante.



Este símbolo, siempre que aparece, le advierte sobre instrucciones operativas y de mantenimiento que aparecen en la documentación adjunta. Por favor, lea el manual.



Atención

Para reducir el riesgo de descarga eléctrica, no quite la tapa (o la parte posterior). No hay piezas en el interior del equipo que puedan ser reparadas por el usuario. Si es necesario, póngase en contacto con personal cualificado.

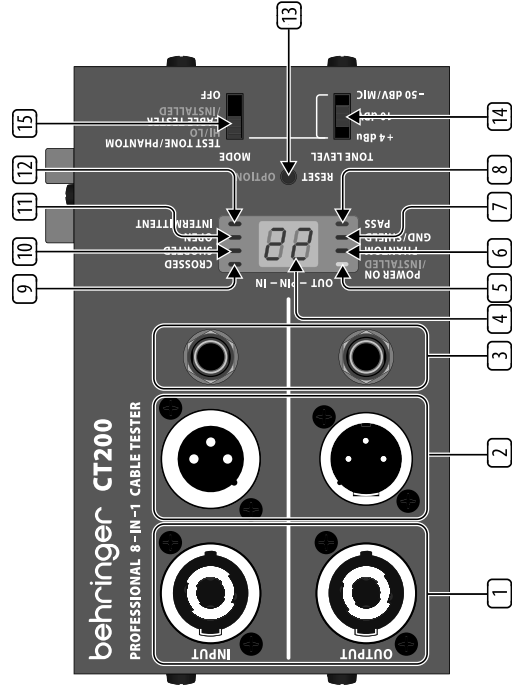
Atención

Para reducir el riesgo de incendio o descarga eléctrica, no exponga este aparato a la lluvia, humedad o alguna otra fuente que pueda salpicar o derramar algún líquido sobre el aparato. No coloque ningún tipo de recipiente para líquidos sobre el aparato.

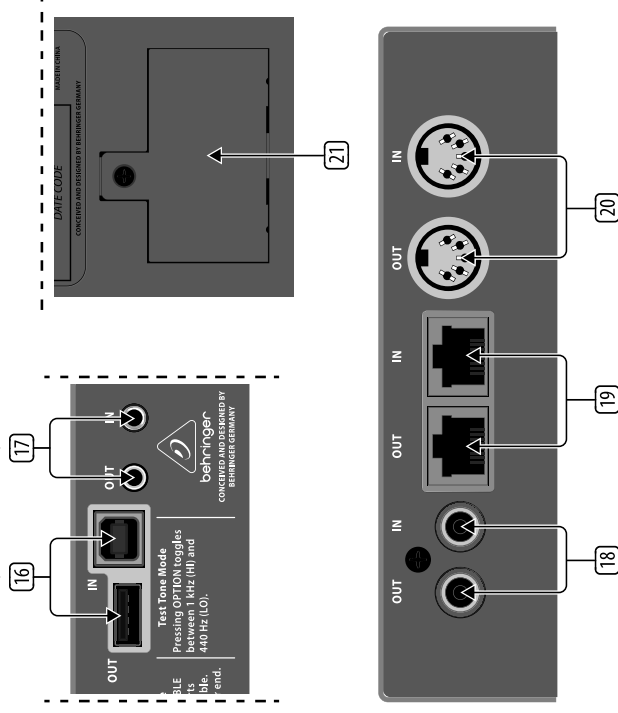


Este símbolo, siempre que aparece, le advierte de la presencia de voltaje peligroso sin aislar dentro de la caja; este voltaje puede ser suficiente para constituir un riesgo de descarga.

CT200 Controls



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CT200 Controls

Step 1: Controls

- 1

Professional locking connectors (compatible with Neutrik Speakon) accept 2 and 4-pole cables.
- 2

XLR male and female connectors accept balanced XLR cables.
- 3

1/4" TRS/TS connectors accept balanced and unbalanced 1/4" cables.
- 4

DISPLAY shows relevant information about pin connectivity depending on which mode is active.
- 5

POWER ON/INSTALLED LED lights solid when the unit is switched on, and blinks when Installed Cable Tester mode is selected.
- 6

PHANTOM LED lights when more than 9V is detected between XLR pins 2 and 3 in Test Tone / Phantom mode.

- 7

GND/SHIELD LED lights when the ground plug of the XLR OUT socket connects to the ground pin of the XLR cable, and lights when the shield connects at both ends of the MIDI, CAT-5 or USB cable.
- 8

PASS LED lights when all pins on the output connector are connected to the respective pins on the input connector.
- 9

CROSSED LED lights when an out pin is cross-wired to an in pin. The display will indicate which pin numbers are crossed.
- 10

SHORTED LED lights when a short circuit is detected between 2 pins.
- 11

OPEN LED lights when one end of a cable pin is not detected.

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- 12

INTERMITTENT LED lights in Auto, Manual or Installed Cable Tester mode when an intermittent interruption is detected on a pin, likely indicating a loose connection. Press the **OPTION/RESET** button to reset and test again.
- 13

RESET/OPTION button performs several functions depending on which mode is active. See the Operation Modes chapter for details.
- 14

tone level switch selects between +4 dBu, -10 dBV, and -50 dBV/MIC output level when using Test Tone mode.
- 15

MODE switch selects between the Cable Tester modes (default is Auto), Test Tone / Phantom mode, and powers the unit off.
- 16

USB type A and B connectors accept standard USB cables.
- 17

1/8" TRS/TS connectors accept balanced and unbalanced 1/8" cables.
- 18

RCA connectors accept unbalanced RCA cables.
- 19

RJ45 connectors accept Ethernet/CAT5 cables.
- 20

MIDI connectors accept standard 5-pin DIN cables.
- 21

Install 2 AA batteries to power the unit.

CT200 Operation Modes

Step 2: Operation Modes

Cable Tester (Auto)

To begin an automatic cable test, move the Mode switch to the Cable Tester setting. The switch defaults to Auto mode. Connect a cable to an input and an output. Press the Reset/Option button to begin an automated test. The Pass LED will light if all pins connect properly, and the maximum pin number will be indicated in the display. If a bad connection is detected, the failed pin number will flash in the display and an LED will light to indicate the specific problem (Shorted, Crossed, etc.). Shake the cable plugs to check for any loose connections, which will be indicated by the Intermittent LED.

Cable Tester (Manual)

To begin a manual cable test, move the Mode switch to the Cable Tester setting, then hold the Reset/Option button down for 2 seconds. The display will blink twice to indicate that manual mode has been selected. This mode is similar to Auto, but rather than a fully automated check where multiple problems could potentially be displayed with flashing pin numbers, each step of the test can be proceeded manually. Press the Reset/Option button to clear the Intermittent LED. Press the Reset/Option button again to check all pin connections. If a problem is discovered, only the first failed pin numbers will flash in the display. Press the Reset/Option button again to proceed through any other issues.

Installed Cable Tester

When testing cables in fixed installation environments, it may not be possible to plug both ends of the cable into the CT200 at the same time. For these situations, the Installed Cable Tester can check for short circuits on one end of the cable. Disconnect the cable that is to be checked from any other equipment.

Press and hold the Reset/Option button, move the Mode switch to the Cable Tester position, then release the Reset/Option button. The Power On/Installed LED will flash to indicate that Installed mode is active. Attach one end of the cable to the appropriate Out Jack on the CT200. Attach a shorting jack (with pins short circuited) to the other end of the cable, or manually short the cable by using a piece of wire. Check each pair of shorted pins, which will be indicated by the Shorted LED. If the LED does not light, there is a break in the signal flow and the cable is defective.

Test Tone / Phantom

The CT200 can send a test tone through a connected cable to check for proper functionality. Set the Mode switch to the Test Tone / Phantom setting. Connect an audio cable (Speakon, XLR, $\frac{1}{4}$ ", $\frac{1}{8}$ ", RCA) to the proper Out jack, then connect the other end to the input of a mixer or speaker. Select the proper output level with the Tone Level switch, then press the Reset/Option button to select the tone frequency. The display will show LO or HI. If the cable functions properly, the signal will reach its destination.

Note — this feature is not available for MIDI, RJ45, or USB sockets.

The CT200 can also test for phantom power on XLR cables. Enter Test Tone / Phantom mode as described above, then connect an XLR cable to the XLR Out jack of the CT200 and to the input of a mixer or preamp. Engage phantom power

on your source device. The Phantom LED will light whenever more than 9 volts of phantom power is detected between XLR pins 2 and 3.

CT200 Pin Description Chart

Step 3: Pin Description Chart

Connector	Pin Description	Display Pin Number
Speakon 2-pin (1- / 1+ only) Speakon 4-pin	1- (Ground / Ch. 1)	1
	1+ (Life / Ch. 1)	2
	2- (Ground / Ch. 2)	3
	2+ (Life / Ch. 2)	4
XLR	1 (Ground / Shield)	1
	2 (Hot / +)	2
	3 (Cold / -)	3
¼" and ⅜" TRS	Sleeve (Ground / Shield)	1
	Tip (Hot / +)	2
	Ring (Cold / -)	3
¼" and ⅜" TS	Sleeve (Ground / Shield)	1
	Tip (Hot / +)	2
RCA (Cinch)	Sleeve (Ground / Shield)	1
	Tip (Hot / +)	2
MIDI (DIN)	1 (Unused)	1
	2 (Ground / Shield)	2
	3 (Unused)	3
	4 (Data +)	4
	5 (Data -)	5

Connector	Connector	Connector
USB type A and B	1 (+5 Volts)	1
	2 (Data -)	2
	3 (Data +)	3
	4 (Ground / Shield)	4
RJ45 (CAT5)*	1 (White / Orange, Transmit +)	1
	2 (Orange, Transmit -)	2
	3 (White / Green, Receive +)	3
	4 (Blue, Unused)	4
	5 (White / Blue, Unused)	5
	6 (Green, Receive -)	6
	7 (White / Brown, Unused)	7
	8 (Brown, Unused)	8

*CAT5 pin color code and wire assignments may differ depending on the network cable used.

Examples

Mode	Connection	LED / Display
Cable Tester (Auto/Manual)	1/4" TRS cable --> 1/4" Input / Output jacks	PASS: Display = 3 3 CROSSED: Display = 1 2 < > 2 1 < > 1 2 ... SHORTED: Display = 2 3 < > 3 2 < > 2 3 ... OPEN: Display = 3 3 ... 3 3 ... 3 3 ...
Installed Cable Tester	XLR Out jack --> XLR cable --> manually shorted pins	Pin 1 + 3 = SHORTED LED on Pin 1 + 2 = SHORTED LED off Pin 2 + 3 = SHORTED LED off Pin 2 = defective
Phantom	XLR Out --> XLR cable --> mixer input	PHANTOM LED on = >9V detected

Other important information

EN Important information

1. Register online. Please register your new MUSIC Group equipment right after you purchase it by visiting behringer.com. Registering your purchase using our simple online form helps us to process your repair claims more quickly and efficiently. Also, read the terms and conditions of our warranty, if applicable.

2. Malfunction. Should your MUSIC Group Authorized Reseller not be located in your vicinity, you may contact the MUSIC Group Authorized Fulfiller for your country listed under "Support" at behringer.com. Should your country not be listed, please check if your problem can be dealt with by our "Online Support" which may also be found under "Support" at behringer.com. Alternatively, please submit an online warranty claim at behringer.com BEFORE returning the product.

3. Power Connections. Before plugging the unit into a power socket, please make sure you are using the correct mains voltage for your particular model. Faulty fuses must be replaced with fuses of the same type and rating without exception.

ES Aspectos importantes

1. Registro online. Le recomendamos que registre su nuevo aparato MUSIC Group justo después de su compra accediendo a la página web behringer.com. El registro de su compra a través de nuestro sencillo sistema online nos ayudará a resolver cualquier incidencia que se presente a la mayor brevedad posible. Además, aproveche para leer los términos y condiciones de nuestra garantía, si es aplicable en su caso.

2. Averías. En el caso de que no exista un distribuidor MUSIC Group en las inmediaciones, puede ponerse en contacto con el distribuidor MUSIC Group de su país, que encontrará dentro del apartado "Support" de nuestra página web behringer.com. En caso de que su país no aparezca en ese listado, acceda a la sección "Online Support" (que también encontrará dentro del apartado "Support" de nuestra página web) y compruebe si su problema aparece descrito y solucionado allí. De forma alternativa, envíenos a través de la página web una solicitud online de soporte en período de garantía ANTES de devolvernos el aparato.

3. Conexiones de corriente. Antes de enchufar este aparato a una salida de corriente, asegúrese de que dicha salida sea del voltaje adecuado para su modelo concreto. En caso de que deba sustituir un fusible quemado, deberá hacerlo por otro de idénticas especificaciones, sin excepción.

FR Informations importantes

1. Enregistrez-vous en ligne. Prenez le temps d'enregistrer votre produit MUSIC Group aussi vite que possible sur le site Internet behringer.com. Le fait d'enregistrer le produit en ligne nous permet de gérer les réparations plus rapidement et plus efficacement. Prenez également le temps de lire les termes et conditions de notre garantie.

2. Dysfonctionnement. Si vous n'avez pas de revendeur MUSIC Group près de chez vous, contactez le distributeur MUSIC Group de votre pays : consultez la liste des distributeurs de votre pays dans la page "Support" de notre site Internet behringer.com. Si votre pays n'est pas dans la liste, essayez de résoudre votre problème avec notre "aide en ligne" que vous trouverez également dans la section "Support" du site

behringer.com. Vous pouvez également nous faire parvenir directement votre demande de réparation sous garantie par Internet sur le site behringer.com AVANT de nous renvoyer le produit.

3. Raccordement au secteur. Avant de relier cet équipement de votre région soit compatible avec l'appareil. Veillez à remplacer les fusibles uniquement par des modèles exactement de même taille et de même valeur électrique — sans aucune exception.

DE Wichtige Informationen

1. Online registrieren. Bitte registrieren Sie Ihr neues MUSIC Group-Gerät direkt nach dem Kauf auf der Website behringer.com. Wenn Sie Ihren Kauf mit unserem einfachen online Formular registrieren, können wir Ihre Reparaturansprüche schneller und effizienter bearbeiten. Lesen Sie bitte auch unsere Garantiebedingungen, falls zutreffend.

2. Funktionsfehler. Sollte sich kein MUSIC Group Händler in Ihrer Nähe befinden, können Sie den MUSIC Group Vertrieb Ihres Landes kontaktieren,

der auf behringer.com unter „Support“ aufgeführt ist. Sollte Ihr Land nicht aufgelistet sein, prüfen Sie bitte, ob Ihr Problem von unserem „Online Support“ gelöst werden kann, den Sie ebenfalls auf behringer.com unter „Support“ finden. Alternativ reichen Sie bitte Ihren Garantieanspruch online auf behringer.com ein, BEVOR Sie das Produkt zurücksenden.

3. Stromanschluss. Bevor Sie das Gerät an eine Netzsteckdose anschließen, prüfen Sie bitte, ob Sie die korrekte Netzspannung für Ihr spezielles Modell verwenden. Fehlerhafte Sicherungen müssen ausnahmslos durch Sicherungen des gleichen Typs und Nennwerts ersetzt werden.

PT Outras informações importantes

1. Registre-se online. Por favor, registre seu novo equipamento MUSIC Group logo após a compra visitando o site behringer.com. Registrar sua compra usando nosso simples formulário online nos ajuda a processar seus pedidos de reparos com maior rapidez e eficiência. Além disso, leia nossos termos e condições de garantia, caso seja necessário.

1. Funcionamento Defeituoso. Caso seu fornecedor MUSIC Group não esteja localizado nas proximidades, você pode contatar um distribuidor MUSIC Group para o seu país listado abaixo de "Suporte" em behringer.com. Se seu país não estiver na lista, favor checar se seu problema pode ser resolvido com o nosso "Suporte Online" que também pode ser achado abaixo de "Suporte" em behringer.com. Alternativamente, favor enviar uma solicitação de garantia online em behringer.com ANTES da devolução do produto.

2. Ligações. Antes de ligar a unidade à tomada, assegure-se de que está a utilizar a voltagem correcta para o modelo em questão. Os fusíveis com defeito terão de ser substituídos, sem qualquer excepção, por fusíveis do mesmo tipo e corrente nominal.



We Hear You

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