

OWNERS MANUAL

JACKS in the BOX

CABLE TESTER



GALAXY AUDIO®

MAKERS OF THE ORIGINAL HOT SPOT PERSONAL MONITOR

Table of Contents

Introduction.....1

Operation..... 2

Battery Installation.....2

Connections.....2

Select Test.....2

Indications..... 3

Advanced Tests.....3

Other Special Cables.....4

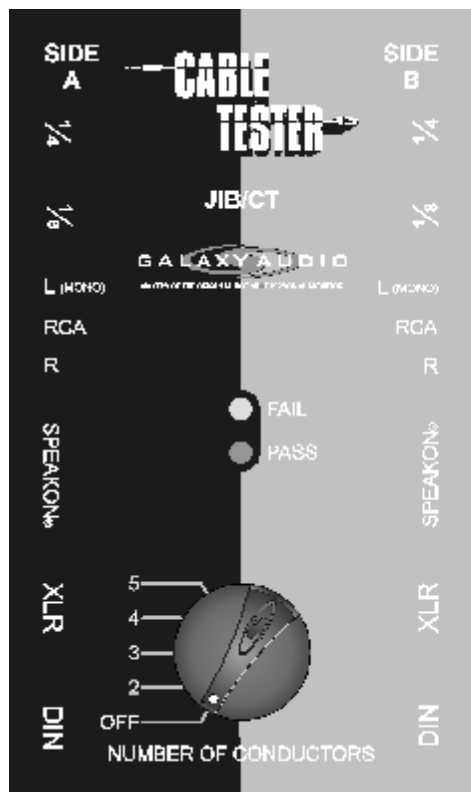
Custom Cables.....5

Warranty.....7

Registration Card.....Back Cover

Introduction

Thank you for purchasing the Galaxy Audio JIB/CT Cable Tester. The CT is designed to test a wide variety of commonly used audio cables and quickly answer the question, "Is this cable good or bad?" A unique computer controlled circuit tests the cable 200 times per second, which allows the CT to detect and display intermittent problems that other cable testers fail to catch. The CT control panel simply consists of a rotary switch, one Green LED, and one Red LED. A quick reference chart is located on the bottom of the unit.



TOP

CABLE TYPE		SWITCH SETTING
		2
		3
	SINGLE RCA L (MONO)	2
	DUAL RCA L & R	4
	SPEAKON 2PIN or 4PIN	2 or 4
	XLR (MIC)	3 or 4
	DIN (MIDI)	3 or 5
	TRS to Dual RCA ADAPTER	3

BOTTOM

Connectors and Controls

Operation

1. Battery Installation: Switch to OFF position. Remove the Battery Drawer and install a 9-volt alkaline battery, being careful to not pinch any of the wires when reinstalling the Drawer. Due to the low power consumption design and the Auto Shutoff feature, the battery life of a standard 9V alkaline should be over 100 hours. The Auto Shutoff feature switches off the CT after approximately 5 minutes of inactivity. To reset the CT after Auto Shutoff, simply rotate the switch to the “Off” position and then back to your previous setting. If the Red LED becomes too dim to see, replace the battery with a fresh 9V alkaline.

2. Connections: Plug one end of the cable to be tested into the appropriate connector on the “A” side of the CT, and the other end of the cable into the “B” side. All of the connectors on the “A” side are duplicated on the “B” side except for the XLR jacks, where the “A” side has a Female XLR and the “B” side has a Male XLR.

CAUTION: Do not connect the CT to any audio device or system. Damage may result to the CT and/or the audio device.

3. Select Test: Rotate the switch to select the number of conductors within the cable.

NOTE: For accurate results it is necessary to select the correct number of conductors within the cable under test. If in doubt, you may want to remove one of the connector covers to count the conductors emerging from the cable.

The following chart lists the number of conductors found in commonly used audio cables. When speaking of 1/4” or 1/8” connectors, the terminology TRS (Tip, Ring, Sleeve) is used to describe the conductors as they appear on the plugs. A Mono cable (2 conductor) would use only the Tip and Sleeve (TS), while a Stereo or balanced cable (3 conductor) would use all three Tip, Ring, and Sleeve (TRS).

NUMBER OF CONDUCTORS (Switch position)	CABLE TYPES
2	¼" Mono (TS) Guitar / Line, ¼" Speaker, 1/8" Mono (TS) Line, Single RCA (use only the L (Mono) jacks on CT), NL2 Speakon Cables (and 4 conductor NL4 Speakon connectors wired for 2 conductor service), and 2 conductor adapter cables that have mismatched connectors of the above types.
3	Stereo (TRS) ¼", Stereo (TRS) 1/8", Most XLR Mic cables, XLR to TRS Adapters, Stereo (TRS) ¼" or 1/8" to Stereo (L&R) RCA Adapters, and other 3 conductor adapter cables that have mismatched connectors of the above types.
4	NL4 Speakon Cables, Stereo (L&R) RCA, Some XLR Mic Cables (if the #4 shell conductor is used)
5	DIN (MIDI) cables (some may be wired to use only 3 conductors of the 5 available)

4. Indications: As the Selector Switch is rotated from the OFF position, the Green LED will blink twice to indicate the CT is ready to test. The Red LED will then light momentarily to indicate the cable is being tested. If the cable fails the test, the Red LED will remain lit. If the cable passes the test, the Red LED will go out and the Green LED will light. At this point you may want to check for intermittent problems by flexing or wiggling the cable. Be aware that cables can become intermittent because of wiring problems or failure of the connector contacts. Any change in the LED indications, even if only momentary, means that the cable has an intermittent problem and cannot be relied upon.

5. Advanced Tests: Most of the standard audio cables will test either Pass or Fail according to the indications described above. However, there are some alternative indications given for Pass and Fail for certain cables. The chart below describes some of these cables and what indications to expect.

CABLE TYPE	SWITCH POSITION	INDICATIONS
Any 2 Conductor (Mono) "Y" Cables (Splitters)	2	Test in two steps. Plug Common connector into "A" side of CT and one of "Y'd" ends into "B" side. LEDs indicate Pass/Fail. Unplug first "Y'd" end and plug in second "Y'd" end to "B" side. LEDs indicate Pass/Fail. Do not use Right(R) RCA jacks for this test.
Any 3 Conductor (Stereo) "Y" Cables (Splitters)	3	Test in two steps. Plug Common connector into "A" side of CT and one of "Y'd" ends into "B" side. LEDs indicate Pass/Fail. Unplug first "Y'd" end and plug in second "Y'd" end to "B" side. LEDs indicate Pass/Fail. This test is not for cables with RCA jacks.
Stereo (TRS) ¼" or 1/8" to Stereo (L&R) RCA adapters.	3	Plug the TRS into the "A" side and plug the RCA connectors into the "B" side L&R RCA jacks (observe L&R markings on cable, if provided.) Alternately blinking Red and Green LEDs indicate a correctly wired cable. (Correct wiring for this cable is: T to Tip of RCA (L), R to Tip of RCA (R), S to both RCA Shields.) A steady Red or Green LED indicates a failure for this cable. If a steady Red LED is shown, try reversing the L&R RCA plugs (some are unmarked.)
XLR Mic	3	If Green and Red LEDs blink alternately, it indicates pins 4 (shell) and 1 are shorted together. This cable may work OK, but it is not considered correct wiring.
XLR Mic	4	A Green LED indicates the 4 th conductor is wired correctly (shell to shell). If the Red LED is lit under this test, try switching to the 3-conductor position to test for a pin 4 to pin 1 short as in the example above.
DIN (MIDI)	5	If the cable fails on the 5-conductor position, try switching to the 3 conductor setting. Some MIDI cables are wired this way and may work fine in your application. Check with cable manufacturer if in doubt.

6. Other Special Cables: Male-to-Male or Female-to-Female XLR Cables: Use a known good adapter cable to "change the gender" of one of the cable ends by connecting it in series with the cable under test. **Female TS or TRS connectors:** Use a known good Male-to-Male cable to "change the gender" to Male by connecting it in series with the cable under test.

7. Custom Cables. The CT is designed to test industry standard and commercially available cables and adapters. The CT may not give accurate results for cables wired otherwise.

NOTES

This image shows a single sheet of white paper with horizontal blue ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

[illegible]

ONE YEAR LIMITED WARRANTY

This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state. This warranty is extended to the purchaser and to any purchaser from him/her for value.

GALAXY AUDIO warrants the materials and workmanship of its products for a period of one year from the date of the original purchase.

The following are not covered by the warranty:

1. Damage to or deterioration of the exterior cabinet which occurs after delivery.
2. Damage after initial delivery resulting from accident, misuse or neglect.
3. Damage resulting from failure to follow instructions contained in the owner's manual.
4. Damage resulting from the performance of repairs by someone other than GALAXY AUDIO.
5. Damage occurring during the shipment or delivery of any GALAXY AUDIO product to GALAXY AUDIO after initial delivery of the product to you.
6. Damage to any GALAXY AUDIO product which has been altered, or on which the serial number has been effaced or removed.

If your unit requires service, it must be returned, shipping charges prepaid to GALAXY AUDIO in the United States. (This warranty is not enforceable outside the U.S.) Please call or write GALAXY AUDIO, 601 E. Pawnee, Wichita, Kansas 67211, (316) 263-2852. We will then issue you to an RMA# (Return Merchandise Authorization) which will need to be applied to the returned item. Under no circumstances should you return your unit to the factory without receiving an RMA or written instruction to do so. If service is required, you must present the original or a copy of the bill of sale as a proof of date of purchase of your unit. Upon receipt of your unit for service, GALAXY AUDIO will repair or replace your unit as soon as possible, but in no event later than 30 days after the receipt of the unit. We will return the unit to you, shipping charges prepaid, provided the necessary repairs are covered by this warranty.

IMPLIED WARRANTIES OF MERCHANT ABILITY AND FITNESS FOR PARTICULAR PURPOSE ARE LIMITED IN DURATION TO THE LENGTH OF THIS WARRANTY, UNLESS OTHERWISE PROVIDED FOR BY STATE LAW. GALAXY AUDIO'S LIABILITY IS LIMITED TO THE REPAIR OR REPLACEMENT, AT OUR OPTION, OF ANY DEFECTIVE PRODUCT, AND SHALL IN NO EVENT INCLUDE INCIDENTAL OR CONSEQUENTIAL DAMAGES OF ANY KIND. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS AND/OR DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THE ABOVE LIMITATIONS AND EXCLUSIONS MAY NOT APPLY TO YOU.

GALAXY AUDIO does not authorize any third party, including any dealer or Authorized Service Center, to assume any liability on behalf of GALAXY AUDIO or to make any warranty for GALAXY AUDIO.

AUDIO SOLUTIONS



MAKERS OF THE ORIGINAL HOT SPOT PERSONAL MONITOR

GALAXY AUDIO
601 E. Pawnee
Wichita, KS 67211

(316) 263-2852
(800) 369-7768
Fax: (316) 263-0642
www.galaxyaudio.com

Specifications subject to change without notice.

REGISTRATION CARD

Registration information is used ONLY by GALAXY AUDIO and will be kept strictly confidential.

Registration

Name _____ Phone _____
Address _____
City, State, Zip _____
email _____
Dealer _____ Purchase Date _____

Serial number	Model
---------------	-------

This Galaxy Audio product will be used for:

Live Sound ☐

Church ☐

Recording

Home/Project Studio ☐

Commercial Studio ☐

Post-Production/Mastering ☐

Broadcast

On-Air ☐

Production ☐

What magazines do you read? _____

How can Galaxy Audio better serve you? _____

PLACE
STAMP
HERE

GALAXY AUDIO
P.O. BOX 16285
WICHITA, KS 67216-0285