

Swizz Army™ 6 in 1 Cable Tester INSTRUCTION MANUAL

Thank you for purchasing the Swizz Army™, 6 in 1 Cable Tester.

Included in package:

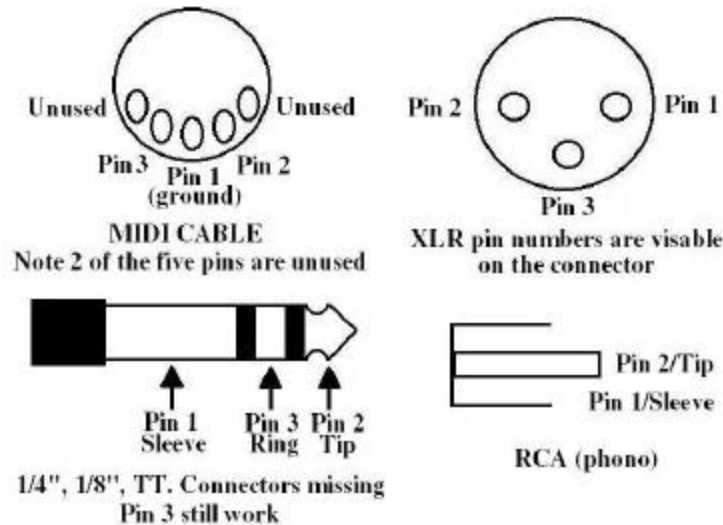
1 Stainless Steel Belt clip with 2 #4-40 screws for attachment.

4 no-slide, rubber feet.

Not Included: 2 AA batteries

The 6 in 1 works with six different types of connectors:

XLR, 1/4"(mono or Tip/Ring/Sleeve), RCA, 1/8"(mono or Tip/Ring/Sleeve), TT, and MIDI.



Overview - The 6 in 1 works in three different modes:

Cable Test Mode: To use Cable Test Mode, move the On switch to the Cable Test position.

Installed Cable Test Mode: To use Installed Cable Test mode, hold down the Reset button while moving the On switch to the Cable Test position. The Power ON LED will blink to indicate the unit is in Installed Cable Mode.

Test Tone Mode: To generate test tones through the OUT jacks, move the On switch to the Test Tone position. Phantom Power detect is engaged in this mode.

Cable Test Mode:

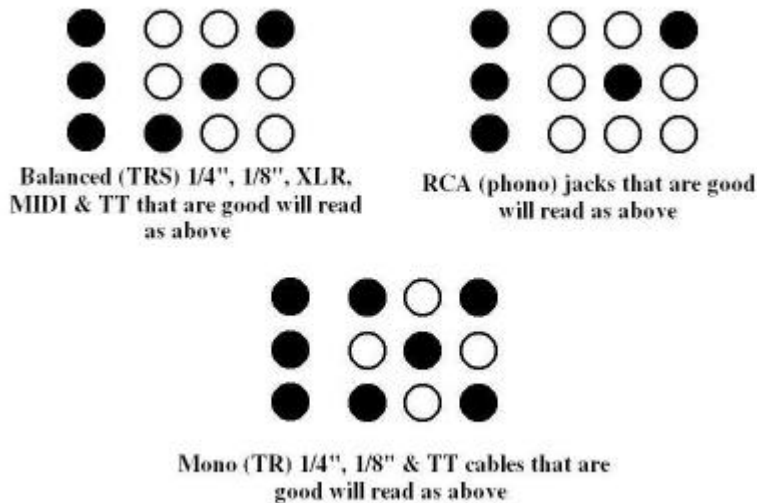
Insert one end of a cable into any OUT jack, and the other end into any IN jack. The 6 in 1 shows you which input pins are connected to each output pin by lighting its LED in the Cable Wiring Display. The Grounded Shield LED will also light if the XLR OUT jack's shield is connected to the Pin1/Sleeve signal as is appropriate.

Testing for Intermittent Connections:

While in Cable Test Mode, pressing Reset stores the current Cable Wiring Display and clears the Intermittent LEDs. If any change occurs in the wiring displayed, the Intermittent LED corresponding to any Input pin which had the change will light and stay lit until the next time Reset is pressed. In this way you'll know if you have an intermittent cable even if it was intermittent for such a small period of time that you didn't see the LED flicker.

Below are the tests for standard line level audio cables.

- To test if the cable is good, set the SWIZZ-CT to "Cable Test Mode". Insert both ends into the SWIZZ-CT (in/out).
- Balanced 1/4", 1/8", XLR, MIDI, and TT cables will appear as a big check mark if the cable is good:
- If the LED's look anything other than above, there are either shorts or wiring problems. The LED's that light up indicate which wires are messed up.
- To test for an intermittent short in a cable, insert one end of the cable into the IN jack of the SWIZZ-CT and set it to "Cable Test Mode". Hit the reset button to make sure it's clear. Shake the cable around a lot. If there's an intermittent short in the cable, the LED corresponding to the shorted wire will light up and stay lit until you reset. Checking again would verify your findings.



Installed Cable Test Mode:

Disconnect both ends of a suspect cable from the equipment it is attached to. Attach one end of the cable to the appropriate Output jack and leave the other end disconnected. The Cable Wiring Display works as before except it now shows any connections between OUT pins, not between OUT and IN pins. If there are no shorts between signals in the cable, then none of the LEDs in the Cable Wiring Display will light. Next, place a shorting jack on the other end of the cable. If the signals in the cable have no opens, then they'll make it all the way to the shorting jack and the Cable Wiring Display will show all pins as being shorted to each other. The display does not show a pin shorted to itself. The Intermittent testing feature works in the same way as Cable Test Mode.

Test Tone Mode:

Warning: DO NOT use Test Tone Mode for MIDI cables. The 6 in 1 does not generate MIDI data. While we won't guarantee it, the audio test tone should not harm MIDI equipment if connected.

A test tone is placed on the Pin2/Tip signal of all OUT jacks. The level can be set to either +4 dBu, -10 dBV, or Mic level (approximately -50dBV). Note that battery voltage level will affect the accuracy of the test tone output level. The Test Tone Mode is intended for use in checking audio system integrity and the rough setting of signal levels, not for use as a voltage standard.

1kHz/440Hz selection: Pressing Reset during Test Tone Mode will switch the test tone frequency between 1kHz and 440Hz. The selection is indicated by its LED: On = 1kHz, Off = 440Hz. Test tone frequency accuracy is +/- 0.1% and is unaffected by battery voltage.

Phantom Power Detect: During Test Tone Mode, pins 2 and 3 are monitored for an external DC voltage as commonly supplied to microphones. The Phantom LEDs will light any time the presence of a DC voltage greater than 5V is detected.