

Introduction

The AudioJoG[™] Rack Plus Cable Tester is a versatile unit that allows the user to either identify the connections within a variety of Professional Audio & power cables. Cables fitted with any of the following connectors may be checked:

- UTS01823
- Speakon 8 pole
- 3,4 & 5 pole XLR
- Powercon
- Truecon
- IEC
- UK household mains
- 16 Amp RED 3 pole

The AudioJoG[™] Rack Plus tester can test cables for the following conditions:

- Continuity
- Short Circuits (end to end & between unconnected pins)
- Open Circuits (end to end & between unconnected pins)
- Crossed Wires

Please read the following instructions carefully before using the AudioJoG[™] Rack Plus Cable Tester.

Warning:

The Cables to be tested must be fully disconnected from any other equipment or electrical source. Failure to do so could result in electrical shock and permanent damage to the AudioJoG[™] Rack Plus Cable Tester, for which the manufacturer and suppliers can accept no liability.

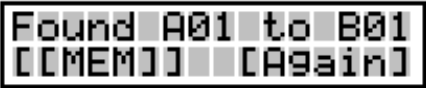
It is recommended that the Male or Plug end of the cable be connect FIRST. This will lessen the chance of power being applied to the tester.

Getting started

AudioJoG® Rack Plus Cable Tester should be rack mounted (6U 19 inch) using the screws and caged nuts. Next plug the small DC power plug into the back of the AudioJoG® Rack and the power supply into a nearby mains outlet. NOTE: If the cabinet is connected to mains earth then for correct operation of the AudioJoG® Plus Rack it MUST be isolated from the cabinet by using nylon screws and nylon or plastic washers. If necessary the display contrast can be adjusted using a small flat bladed screwdriver. The contrast adjustment is above the left hand UTS01823S connector and to the left of the display.



Terminology



Key options:

Single Bracket [] press and release.
Double Brackets [[]] press and hold until the display changes usually about 2 seconds.

In this example pressing and releasing the test button quickly will repeat the

DECLARATION OF CONFORMITY

Manufacturers Name: CableJoG Ltd.
Address: 18 Browmere Drive, Croft, Warrington. WA3 7HT.

Type of equipment: Cable tester
Model: AudioJoG Plus Rack



I hereby declare that the equipment specified above conforms to the provisions of the EC DIRECTIVE 2004/108/EC on Electromagnetic Compatibility (EMC). Having applied the following standards;

BS EN61000-6-1 :2007
"Generic EMC Immunity Standard for the residential, commercial & light industry enviroment".
BS EN61000-6-3 :2007
"Generic EMC Emissions Standard for the residential, commercial & light industry enviroment".

Edward Stefan Zych, Director.10th January 2018

RoHS+WEEE



Special Functions

These special functions are accessed by pressing and holding the test button before switching on.



1. Clear MEMORY
[[OK]] [Next]

Function 1

Press and hold the test button to clear the stored cable from memory.



2. Select Cable
[[OK]] [Next]

Function 2.

If you know what sort of cable you are going to be testing you select this by pressing and hold the test button until the first cable title is shown:-



Galaxis
[[OK]] [Next]

Press and hold the test button to select this cable or step onto the next cable.

Test Procedure

Switch the AudioJoG Rack ON and the display will show the current software version installed:



Audio Rack v1.0
[Next]

To test a cable or lead simply plug the cable or lead one end into the A side and the other into the B side and press the test button. If you are testing asymmetrical cables such as SVGA to BNC's then plug the SVGA end into the A side connector and the BNC's into the B side connectors.

If the tested cable matches any one of the cables held in the program see the table of cables on page . In this example a HDMI cable then the display will show:-



Galaxis
PASS 001 [Again]

If on subsequent testing the cable doesn't match any held in the program then it is assumed that it is probably a faulty version of the last good cable. Faults can either be OPEN circuits in which case the display will show:-



Galaxis
Open A02B02 [Nxt]

When you see the [Agn] display this means that all the faults have been shown and the tester is ready to test the next cable:-



Galaxis
Open A02B03 [Agn]

Faults can also be SHORT circuits in which case the display will show:-




Galaxis
Short A02B09 [Nxt]



Galaxis
Short A02B09 [Agn]

Finishing with:-



Ready
[Test]

If no connections are found the display will show:-

Test Procedure continued

If the connections found do not match any of the stored cables and no cable has been properly identified i.e the first test after switching on then the connections will be displayed:-

Found A01 to B01
[Next]

press the test button to step through the connections.

When the last connection is reached you will have the option of putting this cable into MEMORY so that similar cables can be tested against this one.

Press and hold the test key to place this cable into memory. If you later on want to clear this see the Special Functions page 6.

Found A01 to B01
[[MEM]] [Again]

If set the display will show:-

MEMORY
[Test]

OPEN and SHORTS will be displayed just as in a normal stored cable.

Too many conns
[Again]

Should you see:-

Then the tester has found more connections than it can cope with (96) and there are probably several short circuits in the cable.

Stored cables

Galaxis
MAINS - LNE
Speakon 8
XLR 5 scr
XLR 5
XLR 4 scr
XLR4
XLR 3 scr
XLR 3
XLR3 x over

For detailed connection information please contact us via fax or email

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CONNECTOR PIN ASSIGNMENTS

UTS2301823S	8w Speakon	5w XLR	4w XLR	3w XLR	MAINS
1=>1	1=>1	1=>1	1=>1	1=>1	
2=>2	2=>2	2=>2	2=>2	2=>2	
3=>3	3=>3	3=>3	3=>3	3=>3	
4=>4	4=>4	4=>4	4=>4		
5=>5	5=>5	5=>5			
6=>6	6=>6				
7=>7	7=>7				
8=>8	8=>8				
9=>9					
10=>10					
11=>11					
12=>12					
13=>13					
14=>14					
15=>15					
16=>16					
17=>17					
18=>18					
19=>19					
20=>20					
21=>21					
22=>22					
23=>23					
					29=>L
					30=>N
					31=>E
32=>GND		32=>GND	32=>GND	32=>GND	