

Introduction

The AVjog^(TM) Rack Cable Tester is a versatile unit that allows the user to either identify the connections within a variety of Professional Audio, Video & digital Network cables. Cables fitted with any of the following connectors may be checked:

- | | |
|---------------------------|-----------------------|
| ● DVI | ● USB A & B |
| ● HDMI | ● 3 pole XLR |
| ● SCART | ● RCA Phono RGB & RWY |
| ● SVGA 15w HD 'd' type | ● BNC / HD SDI 50 75Ω |
| ● RJ45 | ● RGB Horiz & Vert |
| ● S-Video MINI DIN 4 pole | ● F Type |
| | ● COAX |

The AVjog^(TM) Rack 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 AVjog^(TM) Rack Cable Tester.

Warning:

The Cables or AV panel installations 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 AVjog^(TM) Rack Cable Tester, for which the manufacturer and suppliers can accept no liability.

Getting started

AVjog® Rack Cable Tester should be rack mounted (3U 19 inch) using the screws and caged nuts. Next plug the small DC power plug into the back of the AVjog® 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 AVjog® Rack it MUST be isolated from the cabinet by using nylon screws and nylon or plastic washers.

Terminology

Side "A" or "From"



Side "B" or "To"

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 test program while pressing and holding the test button down will put the found cable into memory

Accessories

The one to five SCART adaptor is recommended if prolonged testing of SCART cables is intended:



DECLARATION OF CONFORMITY

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

Type of equipment: Cable tester
Model: AVjog 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 environment".
BS EN61000-6-3 :2007
"Generic EMC Emissions Standard for the residential, commercial & light industry environment".

Edward Stefan Zych, Director.10th April 2014

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:-



BNC-BNC HORIZ
[[OK]] [Next]

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

Test Procedure

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



AVjog 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 Scart extension cable then the display will show:-



Scart
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:-



Scart
Open A02B03 [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:-



Scart
Open A02B03 [Agn]

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



Scart
Short A02B09 [Nxt]

Finishing with:-



Scart
Short A02B09 [Agn]

If no connections are found the display will show:-



Ready
[Test]

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:-

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.

If set the display will show:-

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

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

BNC-BNC HORI
Coax TV
DVI-D single link
DVI-I Dual link-1
DVI-I Dual link-2
DVI-I Dual link-3
DVI-I Single link
DVI HDMI
DVI SVGA 1
DVI SVGA 2
F Type
HDMI
HDMI Audio
HDMI DVI
Monitor cable 1
Monitor cable 2
Monitor cable 3
Phono RW
Phono RWY
Phono single (B)
RJ45/CAT5 no scr
RJ45/CAT5 scr
RJ45/CAT5 Xover
RJ45/CAT5 Xoverg

S-Video
Scart-1
Scart-2
Scart Phono RWY-1
Scart Phono RWY-2
Scart TV lead 1
Scart TV lead 2
Scart TV 16 way
Sart AV
SVGA-BNC RGB+HV1
SVGA-BNC RGB+HV2
SVGA-BNC RGB+HV3
SVGA-BNC RGB+HV4
SVGA cable 10w
SVGA cable 14w
SVGA cable 15w
SVGA DVI
USB
XLR scr
XLR xover scr
XLR no scr
XLR xover no scr

For detailed connection information please contact us via fax or email

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CONNECTOR PIN ASSIGNMENTS

CONNECTOR										PHONO		PHONO			BNC				
DVI	SCART	HDMI	SVGA	SVIDEO	USB	XLR	COAX	FTYPE	RED	WHITE	YELLOW	RED	GREEN	BLUE	RED	GREEN	BLUE	HORIZ	VERT
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	4=>4															
5=>5	5=>5	5=>5	5=>5																
6=>6	6=>6	6=>6	6=>6		6=>1														
7=>7	7=>7	7=>7	7=>7		7=>2														
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32=>GND		32=>GND	32=>GND	32=>GND	32=>GND	32=>GND	32=>GND	32=>GND	32=>SLEEVE	32=>SLEEVE									