724VK2 Verification Tester Operation Instructions

Made in the
United States of America

Figure 1. SCS 724VK2 Verification Tester

Description

The SCS 724VK2 Verification Tester is used to perform periodic testing of the SCS 724 Workstation Monitor. The Verification Tester allows the customer to perform NIST traceable calibration verifying that the 724 Workstation Monitor is operating within tolerances. Using the 724VK2 takes only a few minutes and is designed to be used on the shop floor at the workstation to virtually eliminate downtime.

Frequency of recalibration should be based on the critical nature of those ESD sensitive items handled and the risk of failure for the ESD protective equipment and materials. In general, SCS recommends that calibration be performed annually.

The SCS 724VK2 Verification Tester can be used with the following items:

Item	Description
724	Workstation Monitor
724 W/O-PS	Workstation Monitor, without Power Adapter
724K-WM10	Workstation Monitor Kit
724K-WM11	Workstation Monitor Kit

Packaging

1 Verification Tester
1 Certificate of Calibration

Operation

Test Voltage 9 Volts and Resistance Selection 10 Megohms

Set the 724 Workstation Monitor's test voltage to 9 volts and its resistance limit to 10 Megohms.

1. Insert the Verification Tester's stereo plug into the monitor's remote jack #1.

2. Select "1.5M LOW" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate, and the yellow L LED should flash. The audible alarm should not sound.

3. Select "1.5M PASS" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate. The audible alarm should not sound.

4. Select "10M PASS" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate. The audible alarm should not sound.

5. Select "10M HIGH" with the Verification Tester's rotary switch. The monitor's red H LED should illuminate, and the audible alarm should sound continuously.

6. Repeat steps 1-5 for jack #2 on the remote. The audible alarm will chirp when jack #2 fails high.

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Test Voltage 9 Volts and Resistance Selection 35 Megohms

Set the 724 Workstation Monitor's test voltage to 9 volts and its resistance limit to 35 Megohms.

1. Insert the Verification Tester's stereo plug into the monitor's remote jack #1.

2. Select "1.5M LOW" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate, and the yellow L LED should flash. The audible alarm should not sound.

3. Select "1.5M PASS" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate. The audible alarm should not sound.

4. Select "35M PASS" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate. The audible alarm should not sound.

5. Select "35M HIGH" with the Verification Tester's rotary switch. The monitor's red H LED should illuminate, and the audible alarm should sound continuously.

6. Repeat steps 1-5 for jack #2 on the remote. The audible alarm will chirp when jack #2 fails high.

Test Voltage 16 Volts and Resistance Selection 10 Megohms

Set the 724 Workstation Monitor's test voltage to 16 volts and its resistance limit to 10 Megohms.

1. Insert the Verification Tester's stereo plug into the monitor's remote jack #1.

2. Select "1.5M LOW" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate, and the yellow L LED should flash. The audible alarm should not sound.

3. Select "1.5M PASS" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate. The audible alarm should not sound.

4. Select "10M PASS" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate. The audible alarm should not sound.

5. Select "10M HIGH" with the Verification Tester's rotary switch. The monitor's red H LED should illuminate, and the audible alarm should sound continuously.

6. Repeat steps 1-5 for jack #2 on the remote. The audible alarm will chirp when jack #2 fails high.

Test Voltage 16 Volts and Resistance Selection 35 Megohms

Set the 724 Workstation Monitor's test voltage to 16 volts and its resistance limit to 35 Megohms.

1. Insert the Verification Tester's stereo plug into the monitor's remote jack #1.

2. Select "1.5M LOW" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate, and the yellow L LED should flash. The audible alarm should not sound.

3. Select "1.5M PASS" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate. The audible alarm should not sound.

4. Select "35M PASS" with the Verification Tester's rotary switch. The monitor's green OK 1 LED should illuminate. The audible alarm should not sound.

5. Select "35M HIGH" with the Verification Tester's rotary switch. The monitor's red H LED should illuminate, and the audible alarm should sound continuously.

6. Repeat steps 1-5 for jack #2 on the remote. The audible alarm will chirp when jack #2 fails high.

Figure 2. Using the 724VK2 Verification Tester with the 724 Workstation Monitor

Specifications

Dimensions:
3.8" L x 2.4" W x .9" H
(10 cm x 6 cm x 2 cm)

Weight:
0.2 lbs
(0.1 kg)

Resistance Values:

Setting	Nominal Resistance	% Tolerance of Nominal Resistance
1.5M LOW	1.33 Megohms	±2%
1.5M PASS	1.69 Megohms	±2%
10M PASS	8.45 Megohms	±2%
10M HIGH	11.5 Megohms	±2%
35M PASS	29.4 Megohms	±2%
35M HIGH	40.2 Megohms	±2%

These resistance values may be verified using a digital voltmeter and setting it to read Ohms (Ω). Connect your voltmeter's test leads across the Limit Comparator's stereo plug. If any value is out of specification, the Limit Comparator must be returned to the manufacturer for repair.

Limited Warranty, Warranty Exclusions, Limit of Liability and RMA Request Instructions

See the SCS Warranty -
http://staticcontrol.descoindustries.com/warranty.aspx