

## 3M 724VK Verification Kit

### Verification Procedure for 3M™ Model 724 Workstation Monitor Using the 3M Model 724 VK Verification Kit

The 724 Workstation Monitor cannot be re-calibrated after the initial factory calibration. 3M recommends that the operation of the monitor be verified at a 1 year interval or more frequently if used in harsh environments such as high humidity & temperature, excessive dust, or if the monitor has been abused in some way.

The procedure outlined below uses mono-plugs that contain an appropriate resistor for testing the wrist strap input jacks located on the front of the 3M 732 & 733 Remote Input Jacks. Use of this kit eliminates the need of a resistance substitution box when testing the wrist strap input function. For additional information on the operation of the 724 Monitor see instruction manual.

Procedure:

#### **Test Voltage 9 Volts & Resistance Selection 10 Megohms** **Use plugs 1 through 4 on wrist strap inputs.**

*Set the 724 Test Voltage to 9 Volts and the Resistance Limit to 10 Megohms. In the order outlined below insert each test plug into the #1 input of the Remote Input Jack and observe the lamps and audible alarm on the 724 Monitor:*

1. Test Plug #1 (1.33 Megohms) – Green (OK) lamp (1) ON, Yellow low lamp (L) flashing, and audible alarm OFF.
2. Test Plug #2 (1.69 Megohms) - Green (OK) lamp (1) ON, Yellow low lamp (L) OFF, and audible alarm OFF.
3. Test Plug #3 (8.45 Megohms) – Red high wrist strap lamp (H) OFF, Green (OK) lamp (1) ON, and audible alarm OFF.
4. Test Plug #4 (11.5 Megohms) – Red high wrist strap lamp (H) ON, audible alarm ON (continuous tone), and Green (OK) lamp (1) OFF.
5. Repeat steps 1 through 4 for input #2 of the 732 Remote Input Jack. Audible alarm will be a fast chirping beep.

### **Test Voltage 9 Volts & Resistance Selection 35 Megohms**

**Use plugs 1, 2, 5, and 6 on wrist strap inputs.**

*Set the 724 Test Voltage to 9 Volts and the Resistance Limit to 35 Megohms. In the order outlined below insert each test plug into the #1 input of the Remote Input Jack and observe the lamps and audible alarm on the 724 Monitor:*

1. Test Plug #1 (1.33 Megohms) – Green (OK) lamp (1) ON, Yellow low lamp (L) flashing, and audible alarm OFF.
2. Test Plug #2 (1.69 Megohms) – Green (OK) lamp (1) ON, Yellow low lamp (L) OFF, and audible alarm OFF.
3. Test Plug #5 (29.4 Megohms) – Red high wrist strap lamp (H) OFF, Green (OK) lamp (1) ON, and audible alarm OFF.
4. Test Plug #6 (40.2 Megohms) – Red high wrist strap lamp (H) ON, audible alarm ON (continuous tone), and Green (OK) lamp (1) OFF.
5. Repeat steps 1 through 4 for input #2 of the 732 Remote Input Jack. Audible alarm will be fast chirping beep.

### **Test Voltage 16 Volts & Resistance Selection 10 Megohms**

**Use plugs 1 through 4 on wrist strap inputs.**

*Set the 724 Test Voltage to 16 Volts and the Resistance Limit to 10 Megohms. In the order outlined below insert each test plug into the #1 input of the Remote Input Jack and observe the lamps and audible alarm on the 724 Monitor:*

1. Test Plug #1 (1.33 Megohms) – Green (OK) lamp (1) ON, Yellow low lamp (L) flashing, and audible alarm OFF.
2. Test Plug #2 (1.69 Megohms) - Green (OK) lamp (1) ON, Yellow low lamp (L) OFF, and audible alarm OFF.
3. Test Plug #3 (8.45 Megohms) – Red high wrist strap lamp (H) OFF, Green (OK) lamp (1) ON, and audible alarm OFF.
4. Test Plug #4 (11.5 Megohms) – Red high wrist strap lamp (H) ON, audible alarm ON (continuous tone), and Green (OK) lamp (1) OFF.
5. Repeat steps 1 through 4 for input #2 of the 732 Remote Input Jack. Audible alarm will be a fast chirping beep.

## **Test Voltage 16 Volts & Resistance Selection 35 Megohms**

**Use plugs 1, 2, 5, and 6 on wrist strap inputs.**

*Set the 724 Test Voltage to 16 Volts and the Resistance Limit to 35 Megohms. In the order outlined below insert each test plug into the #1 input of the Remote Input Jack and observe the lamps and audible alarm on the 724 Monitor:*

1. Test Plug #1 (1.33 Megohms) – Green (OK) lamp (1) ON, Yellow low lamp (L) flashing, and audible alarm OFF.
2. Test Plug #2 (1.69 Megohms ) – Green (OK) lamp (1) ON, Yellow low lamp (L) OFF, and audible alarm OFF.
3. Test Plug #5 (29.4 Megohms) – Red high wrist strap lamp (H) OFF, Green (OK) lamp (1) ON, and audible alarm OFF.
4. Test Plug #6 (40.2 Megohms) – Red high wrist strap lamp (H) ON, audible alarm ON (continuous tone), and Green (OK) lamp (1) OFF.
5. Repeat steps 1 through 4 for input #2 of the 732 Remote Input Jack. Audible alarm will be fast chirping beep.

## **3M**

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