

**WT-1051 Verification Kit
 For WT-1200 Dual Operator Monitor, for Single Wire Wrist Strap
 (WT-1035 Monitor With WT-1050 Impedance Converter)**

I. Contents

- 1 black cord with 1 megohm resistor, banana plug terminations
- 1 red cord with 4 megohm resistor, banana plug terminations
- 1 ring terminal
- 1 alligator clip

To use the Verification Kit the WT-1035 monitor must be set-up. Mats must be connected or an auxiliary cord to by-pass the mat monitoring function must be in use. The unit must be plugged in with both green "SAFE" LEDs flashing before beginning.

The two cords provided with the WT-1051 Verification Kit should be "piggybacked". Plug one banana plug into the jack on the back of a banana plug from the other cord. This helps ensure that results are not skewed by a possible poor connection to ground. It does not matter which cord is plugged into the other. However, the end where the two cords are piggybacked should be the point at which the cords are connected to ground. The ring terminal or alligator clip can be used to facilitate the connection.

II. Verifying mat monitoring function

- a. Connect the piggybacked banana plug of the two cords to a known ground point at equal potential with electrical ground.
- b. Unsnap the white mat connection cord of the WT-1035 from the mat or auxiliary cord. At this point the alarm will sound and the red "MAT" for Operator 1 will be lit.
- c. Touch free banana plug of black WT-1051 Verification Unit cord to metal portion of white mat connection cord snap. At this point the alarm should cease and the green "SAFE" LED for Operator 1 will be lit. Be certain that you hold the cord by insulated plastic housing or wire jacket. Touching metal portions of the cord or snaps can create an alternate path to ground, altering true test results.
- d. Repeat step c. using the free banana plug of the red cord. The alarm should persist and red LED should be lit.
- e. Repeat procedure for Operator 2 ("OP 2") using the black mat connection cord.

III. Verifying wrist strap monitoring function

The WT-1050 impedance converter enables the WT-1035 dual work station monitor to be used with standard single wire wrist straps. As an impedance system this unit detects the ability of a conductive body, such as a person, to hold a charge. Proper functioning of the impedance system can be verified using the WT-1051 Verification Kit as follows:

- a. Connect the piggybacked banana plug of the two cords to a known ground at equal potential with electrical ground.
- b. Insert free banana plug of black cord into "MONITOR" jack on WT-1050 impedance converter for Operator 1 ("OP 1" on WT-1035 monitor). OP 1 "SAFE" LED should switch from flashing green to solid green with no audible alarm.
- c. Unplug banana plug of black cord from impedance converter. Insert free banana plug of red cord into "MONITOR" jack on WT-1050 impedance converter for Operator 1 ("OP 1" on WT-1035 monitor). Lit LED for OP 1 should switch from flashing green to red "HI" with audible alarm.
- f. Repeat procedure for Operator 2 ("OP 2") impedance converter.

IV. Verifying wrist strap test function

Wrist straps should be tested daily using the "WS TESTER" function of the WT-1050. Wrist strap tester function is also useful in alarm situations to verify that the wrist strap is not broken. Proper functioning of the wrist strap test system can be verified as follows:

- a. Attach the alligator clip supplied with the Verification set to the exposed banana plug that is piggybacked. Clip alligator clip to stainless steel plate on bottom of impedance converter for Operator 1.
- b. Insert free banana plug of black cord into "MONITOR" jack on WT-1050 impedance converter for Operator 1 ("OP 1" on WT-1035 monitor). OP 1 "HI" LED should be lit - with audible alarm.
- c. Press "W.S. TESTER" button on Operator 1 impedance converter. Lit LED for Operator 1 ("OP 1" on WT-1035 monitor) should change from red "HI" to solid green "SAFE" and audible alarm should cease.
- d. Unplug banana plug of black cord from impedance converter. Insert free banana plug of red cord into "MONITOR" jack on WT-1050 impedance converter for Operator 1. OP 1 "HI" LED should be lit with audible alarm.
- e. Press "W.S. TESTER" button on Operator 1 impedance converter. OP 1 "HI" LED should remain lit with audible alarm.
- f. Repeat procedure for Operator 2 ("OP 2") impedance converter wrist strap test function.