

## USING A MEGA-OHMMETER (MEGGER) TO TEST THE INSULATION RESISTANCE OF YOUR HEATING SYSTEM

The world's **best-selling** electric floor heating brand™

WARNING: HIGH VOLTAGE! Follow instructions and avoid direct contact with probes and wires during testing. High Voltage is being emitted and can cause injury or death. If unsure, contact a licensed electrician.

## WHAT IT DOES

The megger is used as a quality control measure to test the insulation resistance to detect any fault in the heater cable jacket. Such leaks cannot be spotted with a regular ohmmeter and help spot any damage to the cable and cable jacket.

## **HOW IT WORKS**

The megger sends voltage through the cable to calculate the amount of current flowing through the cable jackets for an accurate indication of insulation integrity. Higher resistance means good insulation.

## **HOW TO USE IT**

- Make sure no power is running to the heating system you are testing. 1.
- 2. Insert the test probes into the **L** and E2 input terminals.
- Turn the dial to the 500V. 3.
- Clip the black probe to the black wire coming from the heater cold tail 4. lead.
- Clip the red probe to the ground wire. 5.
- The display should show "- - -" until the **TEST** button is pressed. 6.
- Push and hold the TEST button to begin the test.

Please note: The number in the bottom right of the display screen shows the voltage being applied to the circuit. The resistance will show in the middle of the screen in  $M\Omega$  or  $G\Omega$ . The TEST icon will appear in the bottom right corner until the test is complete. If the resistance is higher than the maximum display range, the megger will display the > symbol on the left side of the screen. Higher resistance means good insulation. The minimum and maximum IR (insulation resistance) values can be found in the megger manual.

- 8. Keep the probes connected and release the TEST button.
- 9. Remove both probes and repeat the test by clipping the black probe to the red heating wire if testing a 240V system, or solid yellow if testing 120V system. Then repeat steps 5-8.
- Your reading should be higher than 1 mA. Anything lower, please call Warmup. 10.

Please note, if the resistance (which should be greater than 1) is greater than 2000Mohms, the reading may not be displayed.

WARNING: HIGH VOLTAGE! Follow instructions and avoid direct contact with probes and wires during testing. High Voltage is being emitted and can cause injury or death. If unsure, contact a licensed electrician.

