AN IKONIX BRAND

QUICK START GUIDE

# 260 Series

## GROUND BOND TESTERS

Models: 264 / 266


## SAFETY CHECKLIST

**[S]** urvey the test station. Make sure it is safe & orderly.

**[A]** lways keep unqualified/unauthorized personnel away from the test area.

**[F]** amiliarize yourself with safety protocols in the event of a problem.

**[E]** xercise caution and never touch products or connections during a test.

**[T]** rain operators. Connect the return lead first and never touch clips directly.

**[Y]** ou should always know when a test is being performed.

**WARNING:** THIS GUIDE WAS CREATED FOR OPERATORS HAVING SOME FAMILIARITY WITH ELECTRICAL SAFETY TESTING. AN ELECTRICAL SAFETY TESTER PRODUCES VOLTAGES AND CURRENTS THAT CAN CAUSE HARMFUL OR FATAL ELECTRIC SHOCK. TO PREVENT ACCIDENTAL INJURY OR DEATH, THESE SAFETY PROCEDURES MUST BE STRICTLY OBSERVED WHEN HANDLING AND USING A TEST INSTRUMENT.

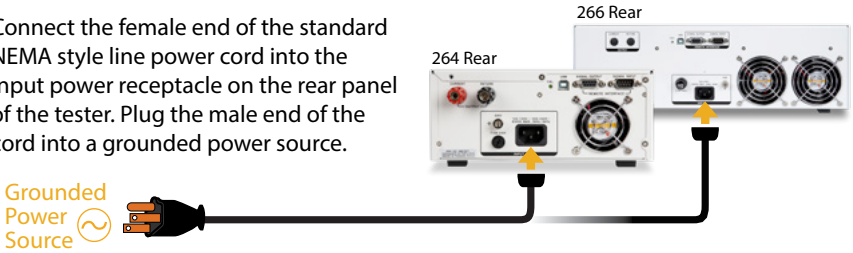
# TESTER SETUP

**WARNING:** LOCATE A SUITABLE TESTING AREA WITH A THREE-PRONG, GROUNDED OUTLET. BE SURE THAT YOUR THREE-PRONG OUTLET HAS BEEN TESTED FOR PROPER WIRING. READ THE SAFETY CHECKLIST OF THIS GUIDE BEFORE STARTING TO TEST.

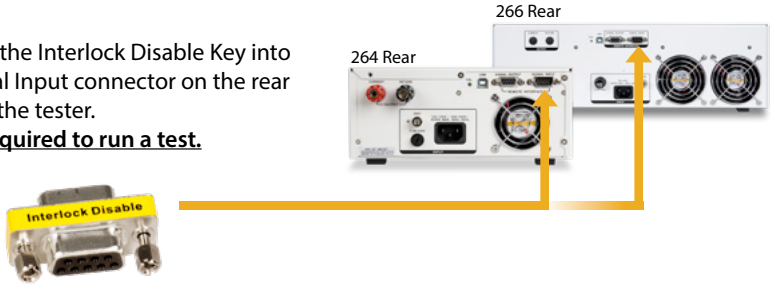
Model 266

Model 264

1. Connect the female end of the standard NEMA style line power cord into the input power receptacle on the rear panel of the tester. Plug the male end of the cord into a grounded power source.




2. Connect the Interlock Disable Key into the Signal Input connector on the rear panel of the tester.
**<u>This is required to run a test.</u>**




3. Turn the POWER switch ON.

266 Front

264 Front

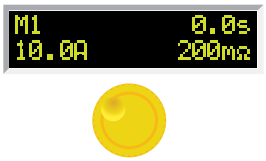
Upon start up an initial screen will appear briefly. After two seconds the Home screen will appear as shown below. Tests are performed from the Home screen.


Home Screen

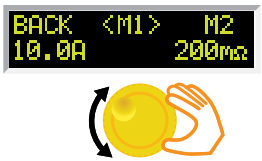
# SETTING TEST MEMORIES

If you wish to have multiple test setups, you will need to begin by choosing a Memory Location (M1 - M5) for each test.

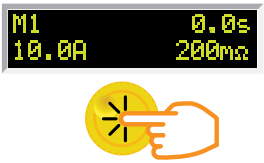
## PROGRAM A MEMORY

1. 


Home screen.

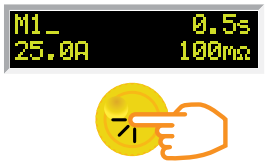
2. 


Turn the yellow rotary knob to scroll to **M1** to edit Memory 1. (M2 = Memory 2, etc.)

3. 


When **M1** is selected. Press the rotary knob to recall Memory 1.

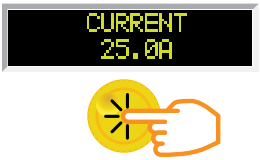
# EDIT TEST PARAMETERS

1. 

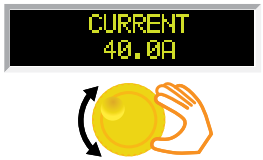

From the Home screen, begin by pressing the yellow rotary knob.

2. 

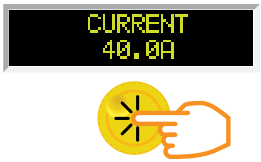

Turn the rotary knob to scroll to desired parameter to edit: **CURRENT, HIGH-LIMIT, LOW-LIMIT, DWELL, FREQUENCY, OFFSET, CONNECT.**

3. 


When the parameter is selected, Press the rotary knob to edit the parameter. The options will blink.

4. 


Turn the rotary knob to change the options for the parameter.

5. 


Confirm each value by pressing the rotary knob. Continue this process for each parameter.

6. 


Turn the rotary knob to **BACK**, and press the rotary knob to return to the Home screen. You may also press the red RESET button to return Home.

# TEST CONNECTION

**WARNING:** DO NOT TOUCH THE DEVICE UNDER TEST ONCE YOU START THE TEST.

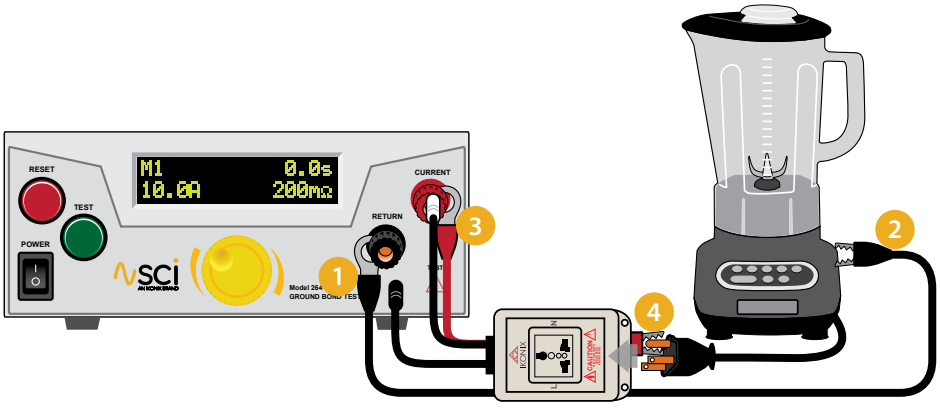
Setting up a test connection on the 260 Series is simple. Follow the instructions below to connect your DUT to a tester.

1. Hook the black return test lead (P/N 99-10724-01) to the black RETURN terminal on the front panel of the tester. You may need to unscrew the terminal slightly to make room for the hook.

2. Clip the other end of the black return test lead to the chassis of the DUT.

3. Hook one end of the red high current test lead (P/N 99-10725-01) to the red CURRENT terminal on the front panel of the tester.

4. Clip the other end of the red high current test lead to the ground pin of the DUT's power cord.



# CONDUCT A TEST

**WARNING:** DO NOT TOUCH THE DEVICE UNDER TEST ONCE YOU START THE TEST.

1. Connect the Interlock Disable Key (P/N 99-10040-01) to the Signal Input connector on the rear panel of the tester. If you're not utilizing a DUT enclosure (P/N 99-10715-01 or P/N 99-10599-01) or other safety device, **the Interlock Disable Key is required in order to run a test.**


2. With the tester set to the desired parameter and your DUT correctly connected to the tester, you are now ready to start testing.

3. Push the green TEST button on the front panel. The DUT is tested for a duration equal to the Ramp and Dwell settings.


# TEST RESULTS

**PASS:** If the DUT passes the test, you will hear a short audible beep and the display will indicate the test results.

**FAIL:** If a failure occurs, you will hear a long audible alarm and the red flashing indicator will light up. To stop the alarm press the red RESET button.


Pass/Fail Indication Screen

If a failure occurs, a failure code will appear on the screen. Consult your product manual to determine the meaning of your failure code.

KEEP YOUR OPERATORS SAFE WITH OUR

# PERSONAL PROTECTION EQUIPMENT

One of the best ways to prevent injury is to ensure that your test station is set up safely and securely.


## Test Verification Box

TVB-2

**WHY IS THIS SAFE?**

Ensures that the failure detectors of a SCI electrical safety tester are functioning properly.

## Remote Trigger Footswitch

35822

**WHY IS THIS SAFE?**

Ideal for use in applications where an operator needs to perform a test while using test probes.

## Insulation Mat

40396

**WHY IS THIS SAFE?**

Prevents the operator from being grounded thereby preventing electrical shock.

## DUT Enclosure

39067

**WHY ARE THESE SAFE?**

Our DUT Enclosure is designed to protect the operator from electric shock during testing. Interface the enclosure with our Remote Safety Interlock feature to automatically disable the tester's output when the enclosure door is opened.

**WARNING** DO NOT set up electrical safety testing stations and ESD (electrostatic discharge) stations in the same area. ESD protocols are designed to protect a component or device from static discharge (not the operator from high voltage hazards). DO NOT use anti-static robes, benches or floor mats during electrical safety testing. All of these items are used to intentionally ground the tester operator which can cause injury or death to a high voltage test operator. Such stations are not designed for voltages above 250 VAC.

# Testers For Electrical Safety Compliance

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