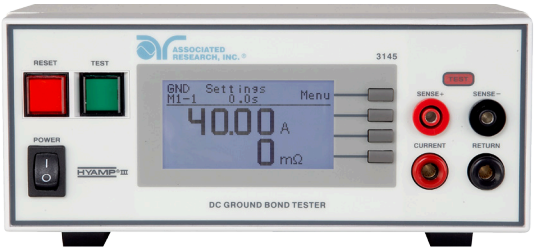
ASSOCIATED RESEARCH, INC.®

Quick Start Guide

HYAMP® III

3130, 3140, 3145, 3160



SAFETY CHECKLIST

Survey the test station. Make sure it is safe & orderly.

Always keep unqualified / unauthorized personnel away from the test area.

Familiarize yourself with safety protocols in the event of a problem.

Exercise caution and never touch products or connections during a test.

Train operators. Never touch clips directly and always connect the return lead first.

You should always know when a test is being performed.

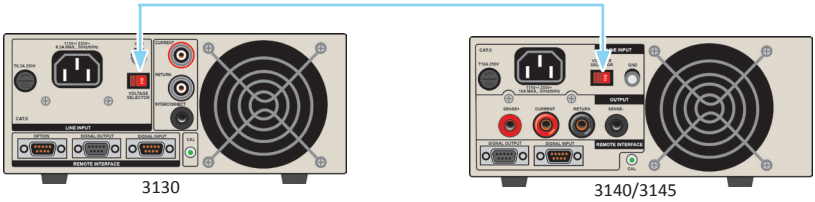
WARNING: THIS GUIDE WAS CREATED FOR OPERATORS HAVING SOME FAMILIARITY WITH ELECTRICAL SAFETY TESTING. AN ELECTRICAL SAFETY TESTER PRODUCES VOLTAGES AND CURRENTS THAT CAN CAUSE HARMFUL OR FATAL ELECTRIC SHOCK. TO PREVENT ACCIDENTAL INJURY OR DEATH, THESE SAFETY PROCEDURES MUST BE STRICTLY OBSERVED WHEN HANDLING AND USING A TEST INSTRUMENT. CONTACT US AT INFO@ASRESEARCH.COM FOR MORE INFO ON HOW TO GET TRAINED ON ELECTRICAL SAFETY TESTING.

INSTRUMENT SETUP

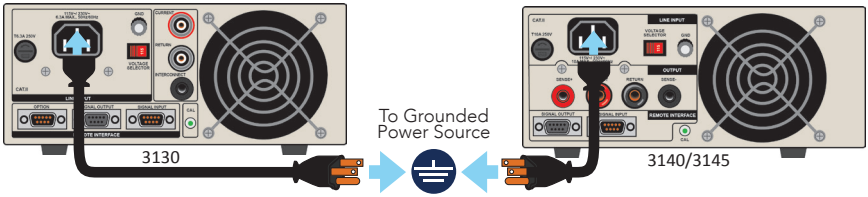
WARNING: LOCATE A SUITABLE TESTING AREA WITH A THREE-PRONG, GROUNDED OUTLET. BE SURE THAT YOUR THREE-PRONG OUTLET HAS BEEN TESTED FOR PROPER WIRING. READ THE SAFETY CHECKLIST OF THIS GUIDE BEFORE STARTING TO TEST.

Note: 3160 Owners: Please reference your product manual for rear panel controls.

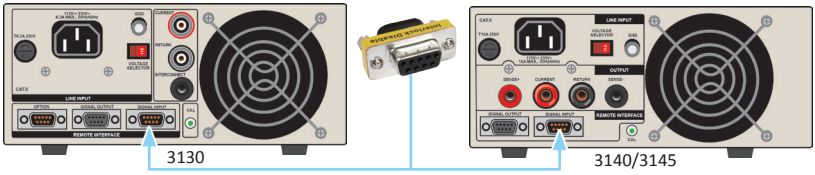
1. Select the correct input line voltage on the rear panel of the instrument, either 115 VAC or 230 VAC.



2. Connect the female end of the power input plug into the rear of the instrument and plug the male end of the cord into a grounded power source.



3. Plug the Interlock Disable Key into the signal/input connector on the rear panel of the instrument.



4. Turn the POWER switch to ON.

The initialization screen will appear. After three seconds the Perform Test screen will appear as shown below.

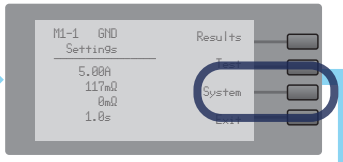
Perform Test Screen

EDIT SYSTEM PARAMETERS

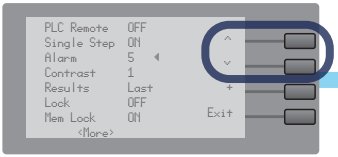
Configure the instrument system parameters to your preferences. The instrument system parameters are global and will affect all tests that you perform regardless of memory location and memory step.

START

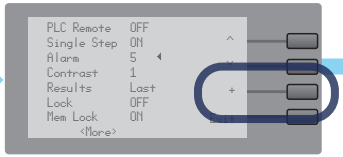
From the Perform Test screen, select the MENU soft key twice.



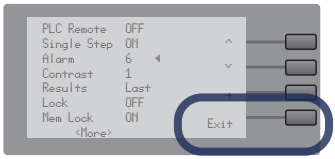
Select the SYSTEM soft key.



Select a parameter to edit by scrolling with the ^ and v soft keys.



Select the "+" soft key to change the parameter.

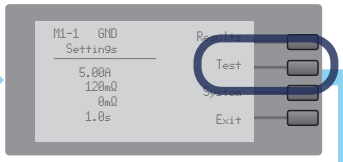


Select EXIT twice to save changes and return to the Perform Test screen.

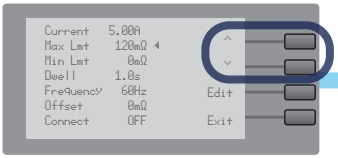
CHANGE TEST SETTINGS

START

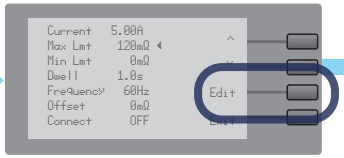
From the Perform Test screen, select the MENU soft key twice.



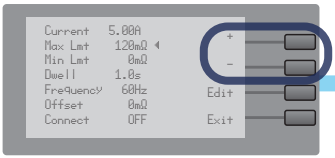
On the Test Settings screen, select the TEST soft key.



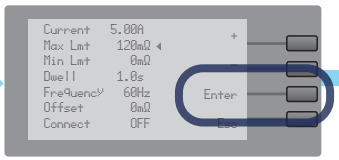
Select a parameter to edit by scrolling with the ^ and v soft keys.



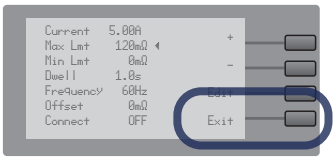
Select EDIT once you have chosen the correct parameter.



Use the + or - soft keys to adjust the parameter value.



Select ENTER to save your test settings.



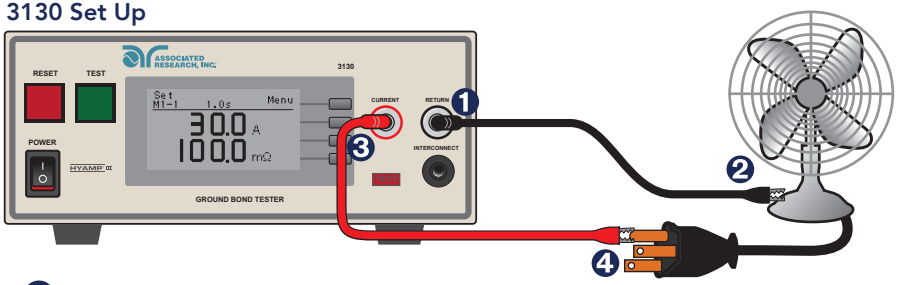
Select EXIT twice to return to the Perform Test screen.

TEST CONNECTION

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

Setting up a test connection on the HYAMP III is straightforward, but differs slightly by model.

3130 Set Up



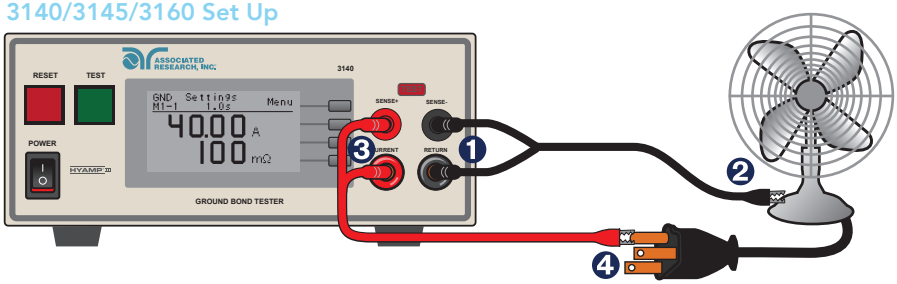
1. Connect the black return test lead to the black return terminal located on the front panel of the instrument.
   For 3140/3145/3160 models connect the sense lead to the sense(-) terminal located just above the return terminal.

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

3. Connect the red high current test lead to the red current terminal on the front panel of the instrument.
   For 3140/3145/3160 models connect the sense lead to the sense(+) terminal.

4. Connect the end of the red high current test lead clip to the ground/earth contact of the DUT.

3140/3145/3160 Set Up



DID YOU KNOW?

Always connect the ground return clip first and double check that both clips have a solid connection to the DUT.

Push the provided current and return test leads into their mating terminal until seated against the rubber grommet. Avoid excessive force in seating. If the grommet becomes compressed, the lock feature may not activate. To release the lock and remove the leads, push the lead in toward the instrument and then pull back on the lead to fully remove lead.

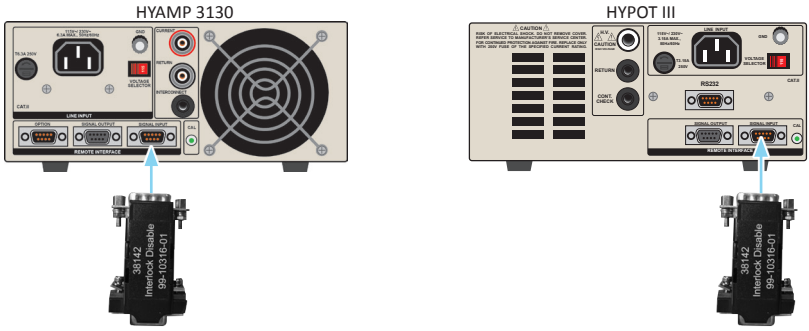
HYPOT®III INTERCONNECTION

You can interconnect a HYAMP III to all Hypot III models to form a complete test system. This guide illustrates the 3130 below. Please refer to specific product manual for exact connections on 3140/3145/3160 models.

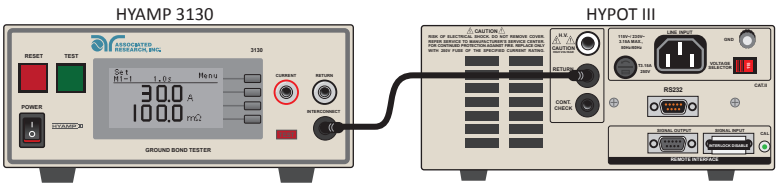
1. Activate the PLC REMOTE on the Hypot III.
2. Select MENU twice from the Perform Test screen on the Hypot III.
3. Select SYSTEM then select PLC REMOTE.
4. Use the + and - soft keys to turn the PLC REMOTE setting to ON.
5. Select EXIT to return to the Perform Test screen.

INTERCONNECTION OF HYAMP III TO HYPOT III AND CONNECTION TO A DEVICE UNDER TEST

1. Plug double sided interlocks (P/N 38142) into the signal inputs of both instruments.

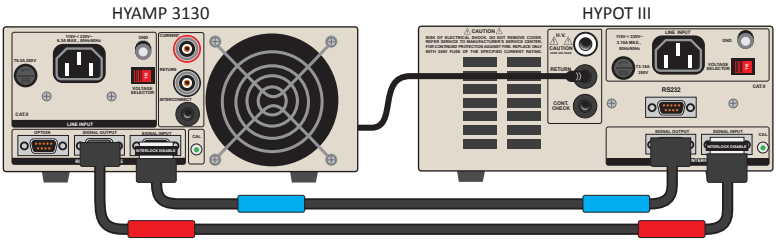


2. Using the front and rear panel connections, connect the following cord:
   - P/N HS-8-11 - Plug one end into the interconnect terminal on the HYAMP III Ground Bond tester. Plug the other end into the return terminal on the rear panel of the Hypot III.



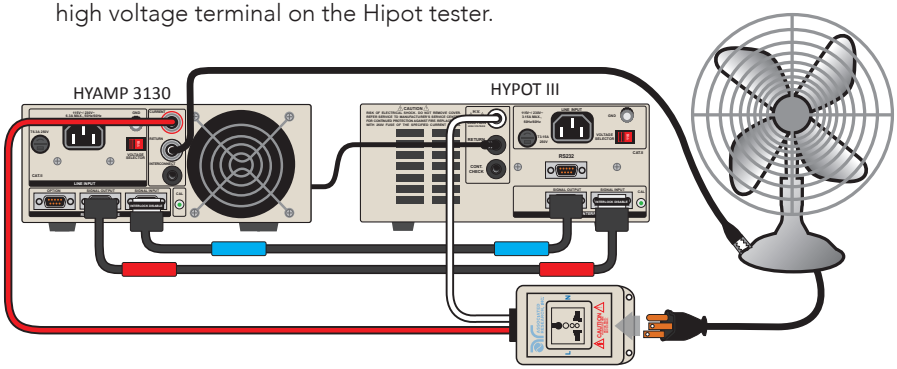
3. Using the rear panel connections, connect the following cords:
   - P/N 5030DT-21 - Plug the blue coded end into the Ground Bond interlock connector. Plug the red coded end into Hipot signal output.

   - P/N 5030DT-22 - Plug the blue coded end into the Ground Bond signal output. Plug the red coded end into the Hipot interlock connector.



   - P/N 05002D-37 - Plug the black return test lead into the rear panel return terminal on the 3130. Next, clip the end of the test lead to chassis ground of the DUT.

   - P/N 036541 - Plug the high current lead of the adapter box into the rear panel current terminal on the 3130. Plug the white Alden plug into the rear panel high voltage terminal on the Hipot tester.



4. Plug the DUT line cord into the adapter box.

5. Once the test parameters are set, start the test from the 3130.

6. If the Ground Bond test passes, the Hipot test will automatically start. If a test fails, the test sequence will abort and failure results are displayed.

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Safety Is Our Only Focus®

SCAN FOR QUICK START VIDEO

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For additional information about these and other key features of the HYAMP III, please consult the full Operation and Service Manual or call us toll-free 1-800-858-TEST (8378) or +1-847-367-4077