

Setup Guide: Hipot Test Connections for Modular Manufactured Homes

The Slaughter Company

At the Slaughter Company we realize that performing electrical safety tests is not always easy. That is why we continually try to provide our customers with as much information as possible on the technology, setup, and implementation of the most commonly performed tests. In response to an overwhelming demand for a test procedure concerning modular manufactured homes, we are pleased to bring you this step-by-step guide for setting up a Hipot test correctly.

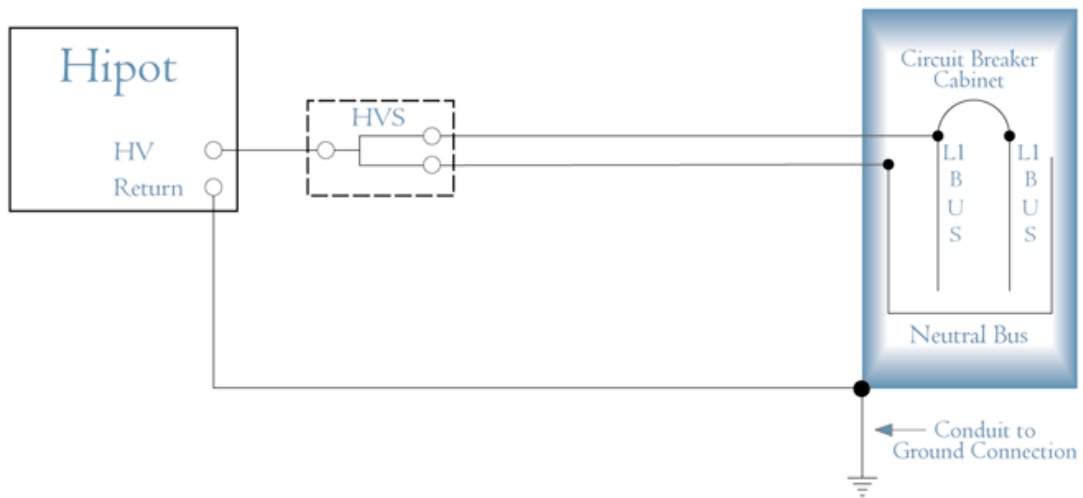
Testing the Breaker Box with a DC Hipot

- 1.) Make sure that the breaker box is disconnected from line power and ground.
*Performing the test with line power connected can cause a shock hazard or damage the Hipot tester.
- 2.) Remove the Jumper between the Neutral and Ground busses located within the breaker box.
- 3.) Close all load circuit breakers.
- 4.) Using the splitter kit, attach one HV lead to the neutral bus and the other HV lead to one of the input line busses. *You must use a jumper (heavy gauge wire) to connect both the input line busses together. Now the neutral and both line input busses are be connected to the HV output of the Hipot tester.
- 5.) The Return of the Hipot tester should then be connected to the ground bus of the breaker box.

Testing the Breaker Box with an AC Hipot

- 1.) Make sure that the breaker box is disconnected from line power and ground.
*Performing the test with line power connected can cause a shock hazard or damage the Hipot tester.
- 2.) Remove the Jumper between the Neutral and Ground busses located within the breaker box.
- 3.) Using the splitter kit, attach one HV lead to the neutral bus and the other HV lead to one of the input line busses. *You must use a jumper (heavy gauge wire) to connect both the input line busses together. Now the neutral and both line input busses are be connected to the HV output of the Hipot tester.
- 4.) The Return of the Hipot tester should then be connected to the ground bus of the breaker box.
- 5.) In order to simplify the testing process, make sure that only 1 circuit breaker is closed during the test.
- 6.) Once a test has been performed make sure the tester is OFF. Move on to the next area by closing each circuit breaker and performing a Hipot test sequentially until all areas have been tested.

Figure 1.0 Breaker Box Wiring Diagram



If you require additional assistance please contact one of our technical support representatives at 1-800-504-0055.