



Connection of an HTT-1 to a Hipot Tester without an AC Receptacle on its Front Panel

Scope: The HTT-1 is a hipot function tester designed to be used on a shift by shift basis. This paper outlines the internal connections of the HTT-1 so the user can adapt it for use with a hipot tester which has high voltage outputs terminated in connectors.

Note: This paper details the internal connections for those wishing to use new wires or, if the user wishes to modify the cord, the HTT-1 does not need to be opened. Both procedures are noted below.

Modification of the HTT-1 cord

This procedure allows the user to modify the HTT-1 for use with a hipot tester which has high voltage outputs on the front panel.

Termination for connection of the HTT-1 leads for connection to the hipot tester can be by alligator clips, so the HTT-1 can be connected to the leads of the hipot tester.

Advantages of this method are the test also checks for broken leads. Disadvantages are the high voltage is exposed on the alligator clips, and care must be exercised to prevent shock.

Alternatively, the HTT-1 lead termination can be with the mating high voltage connectors which would allow direct connection to the hipot tester. While safer, this method will not test the leads normally connected to the hipot tester. If this method is used, please contact your hipot manufacturer to obtain the correct connectors.

Method:

1. Cut the NEMA 15P plug from the cord terminated in a strain relief on the HTT-1.
2. Strip back the black insulation and find three connectors; black, white and green.
3. The black wire and white wire are tied together and terminated in an alligator clip or connector. This connector is to be connected to the HV OUTPUT terminal of the hipot tester.
4. The green wire is terminated in an alligator clip or suitable connector. This connector is to be connected to the GROUND CONTINUITY terminal of the hipot tester.
5. The RETURN lead of the HTT-1 is to be connected to the RETURN terminal of the hipot tester. This HTT-1 lead is not modified by this procedure.



Internal Modification of the HTT-1

This procedure requires the user to open the HTT-1 and to make connections to spade lugs using new wires with crimp connectors.

Follow the wiring directions in the picture below to perform this task.

