

In-Coach HIPOT procedure for MS-ME series inverters.

WARNING: Performing a HIPOT procedure to a Magnum Energy Inverter by applying high-potential AC or DC voltage to either the input /output terminals AC or DC terminals of the inverter without disconnecting the inverter from the user supplied input/output wiring AND connecting the specified terminal strip connectors together may destroy internal voltage sensitive components and void the warranty.

WARNING: Internal ground / neutral switching relay will provide continuity between NEUT OUT and chassis GND. Connecting the inverter's AC Input's and Output's together with the Neutral Input/Output without removing the internal chassis bonding jumper will cause fault currents to flow inside the inverter **and may damage the inverter.**

Info: The inverter is factory tested for Dielectric breakdown between the AC side and the chassis ground.

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Procedure to protect inverter from In-Coach HIPOT used to determine AC wiring integrity.

- 1) Turn inverter OFF
- 2) Disconnect positive battery terminal (DC +) by removing battery cable from DC input terminal, opening battery switch, or removing inverter fuse.
- 3) Unplug all battery temperature cables, AGS cables, or remote control cables from inverter front panel ports.

Disconnect all user supplied AC wiring, this includes:

- 4) Disconnect AC input wiring from HOT1 In
- 5) Disconnect AC input wiring from HOT2 In
- 6) Disconnect AC input wiring from NEUT In
- 7) Disconnect AC output wiring from HOT1 Out
- 8) Disconnect AC output wiring from HOT2 Out
- 9) Disconnect AC output wiring from NEUT Out

Connect the following terminals together with at least 18AWG wire:

- 10) Jumper DC POS (+) and DC NEG (-) battery terminals.
- 11) Jumper DC NEG battery terminal to inverter chassis DC GND lug (GND lug below the DC terminals).
- 12) Jumper Hot 1 IN, Hot 2 IN, NEUT IN, and the NEUT OUT terminals to the AC GND (GND lug in the AC wiring compartment).

Info: If necessary to preserve pass through loads, bypass inverter by connecting Line and Load wiring hots and neutrals outside the inverter wiring compartment.

Perform the HIPOT test on the coach. When the HIPOT is successful, reconnect all inverter wires to their respective terminals.