

USER MANUAL

NEUTRAL GROUNDING RESISTOR

REV. 6



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1. WARNING:

This equipment shall be operated by qualified personnel only. Disconnect power before servicing.

Product specifications are subject to change without notice. MegaResistors Corp. assumes no responsibility for contingent or consequential damages or costs caused by incorrect use or malfunction of the equipment.

2. SHIPPING:

This equipment is shipped in a horizontal position in a box or crate or bolted to a skid and protected for transportation. A packing list is attached as well as an envelope with the corresponding documentation. Neutral and Ground bushings could have been shipped loose inside the enclosure or in a separate box to avoid possible damage during shipping.

3. RECEPTION:

Please examine the equipment immediately upon receipt. If any damage to the unit is detected notify MegaResistors Corp. immediately. The resistor must remain upright at all times. Do not put anything on top of the resistor enclosure.

4. INSTALLATION:

Unpack the resistor carefully and mount it as close to the transformer or generator as possible. If a forklift is used make sure not to damage the bottom cover of the enclosure. If the eyebolts are used for lifting make sure the angle of the cables with the vertical is 45 degrees or less. Bond the unit as required by the Electrical Code by using the lug supplied in one of the legs.

The resistor must be bolted to horizontal support brackets on top of the transformer or to a horizontal concrete pad using the hardware indicated in the corresponding drawing. The maximum tilt allowed is 22 degrees.

Mount the bushing(s), if shipped loose, and connect to the corresponding terminals inside the unit. Make sure all connections and fasteners are tight.

5. CONNECTIONS:

Connect the Neutral wire from the transformer to the Neutral Bushing or Neutral Terminal inside the enclosure.

Connect the Ground wire from the transformer to the Ground Bushing or Ground Terminal inside the enclosure.

If the unit has a Current Transformer its secondary terminals may have been short circuited with a jumper for protection against induced voltage. Remove the jumper before connecting to the corresponding terminals in the ground fault relay.

Connect all other terminals according to the supplied drawing.

6. MAINTENANCE AND TESTING:

Inspect the resistor periodically as follows:

- 1) De-energize the system being grounded and disconnect the resistor's neutral.
- 2) Remove the required covers to allow for visual inspection of the resistor's internal components.
- 3) Ensure that all connections and fasteners are tight, that no insulators are cracked and that there are no signs of damage from heat, vibration, etc.
- 4) Use an Ohmmeter to verify the unit's resistance and the continuity of all connections. Resistance should be +/- 10% of the nominal value (see nameplate).
- 5) Use a Megger or Hi-pot to verify the insulation.
- 6) Clean the unit for excessive dust. If water is used for cleaning make sure the unit is perfectly dry before reconnecting.

7. STORAGE:

Our resistors can be stored indoors for prolonged periods of time. Do not stack skids and keep the units horizontal. The resistors can be kept in the same packaging as they were shipped except in high humidity conditions where it's recommended to remove the plastic cover to avoid condensation. Some units can also be stored outdoors, please consult with the factory.

8. WARRANTY:

MegaResistors Corp. is not responsible for products delivered in good condition to the carrier that arrive damaged to the final destination but we will help you make a claim to the courier if required.

All claims must be made within 30 days of delivery.

MegaResistors Corp. warrants the products to be free from defects under proper use, maintenance and installation for one year from the date of delivery. This warranty is limited to repair or replacement of the defective part or product according to our judgment and will not include installation, removal, transportation expenses or losses due to equipment failure.

We must be informed of the claim by the purchaser as soon as the problem is observed.

Defective products should not be sent to our location unless authorized in writing by one of our employees.

MegaResistors Corp. shall not be liable for any claims arising from special, indirect or consequential damages nor from any loss of production or other losses resulting from the failure of any equipment.

