

Insulation Resistance to Earth

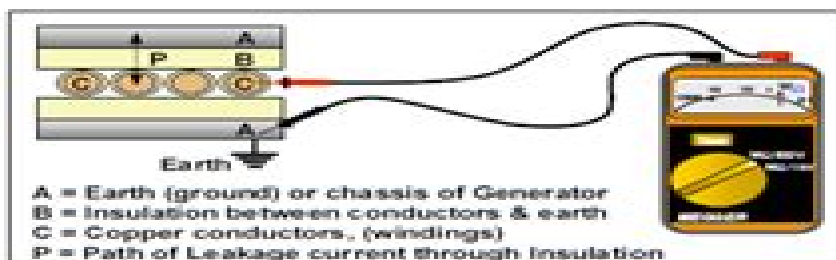
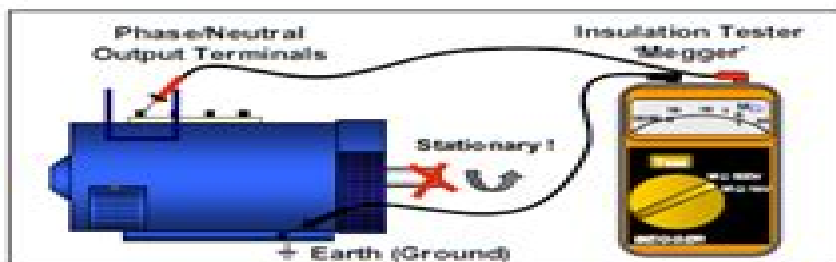
Low Voltage Generators 100 – 690VAC.

Note

When conducting high voltage test to earth, it is advisable to either disconnect or short out any electronic devices, such as the Automatic Voltage Regulator, (AVR), and Main rotor diodes. Short circuiting the terminals can be achieved with a piece of fuse wire, which must be removed immediately after the tests are completed.

Caution: Running the Generator before removing the short circuit connection could seriously damage the Generator. When Megger testing a machine, failure to protect the voltage control unit and diodes could result in permanent damage to one or more of the electronic components.

The resistance of the insulation between the copper conductors and the frame of the machine, (earth or ground), is measured by means of a high voltage tester, or 'Megger', which applies a D.C. potential of 500 or 1000 volts across the winding insulation.



The high voltage causes a current to 'leak' through the insulation system. This current produces an output reading on the insulation tester ('Megger'), which is measured in Megohms (resistance to earth or ground). A normal value for a low voltage Generator winding should be higher than 1 Megohm to earth.

Generators with an output voltage of between 100V to 600V should be tested as above. If the output winding (stator) is lower than 1 Megohm to earth, the windings should be cleaned, dried, or removed to a workshop for complete refurbish.

Insulation Resistance to Earth

Medium to High voltage Generators, 1k Volt or higher



Danger !

High voltage generators are capable of storing a dielectric (capacitive) charge in the main stator windings, following a high voltage insulation test.

Any testing of the main stator must be followed by a discharge to earth or ground for at least 1 minute. Do not attempt to touch the main output terminals until all residual charge has been discharged.

Insulation testing of Medium and High voltage generators .

The effectiveness of a particular on-site test will depend to a large extent on the machine application. In many situations, measurements of insulation resistance and polarisation index only will be appropriate. More detailed testing involving loss tangent, dielectric loss analysis, partial discharge measurement, is undertaken at intervals in order to establish the extent of deterioration of insulation condition. Other tests such as high voltage withstand tests are particularly effective for investigative work in order to identify the onset of fault conditions.

Polarisation Index Test (P.I.)

The P.I. test is used as a guide to the dryness, cleanliness and safety of the winding insulation system.

A special motorised insulation tester is required, which can maintain a test voltage of 1 - 2.5kV, (medium voltages), or 5kV, (high voltage), for a period of 10 minutes.

Readings are taken (in Megohms) following a 1 minute and 10 minute time interval:-

The P.I. index is obtained by the formulae:-

$$P.I. = \frac{10 \text{ Minute reading}}{1 \text{ Minute reading}}$$

The resultant ratio is called the P.I. index, and should be a minimum of 2 at 20°C.

A P.I. index below 1.5 suggests the windings are wet, dirty or faulty, and should be cleaned, dried, and refurbished as necessary.

Caution!

Do not test any winding other than the main stator with this method.

Cat Generator Fault Finding Manual

Roman Wölfel



Cat Generator Fault Finding Manual:

Cat Generator Fault Finding Manual Book Review: Unveiling the Magic of Language

In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its ability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**Cat Generator Fault Finding Manual**," written by a very acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we shall delve to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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