

Flashing the Field

Restoring residual magnetism also known as flashing the field

If residual magnetism is lost there will be no initial magnet source to begin excitation.

If zero voltage is found at the receptacles, first check and test the excitation capacitor before attempting to flash the field.

•• IMPORTANT ••

Make sure the ENGINE SPEED / Hz is set correctly, if not the excitation system may be affected resulting in loss of output voltage.

Specification: Engine Speed (1800 RPM), (60Hz)

1. With engine OFF, disconnect the two red leads from the stator to the excitation capacitor.
2. Using a 12V battery and two jumper leads, one lead connected to the positive side of the battery and the other to the negative side.
3. Start the engine.
4. Connect the two jumper leads from the battery to the red leads on the stator.
5. Positive or negative doesn't matter as this is a non-polarized connection.
6. Using a volt meter: check for AC output at the terminal strip, wires 1-2-3-4
7. With the 12V battery leads connected to the red leads, voltage output at wires 1-2 should read approximately 20-30V AC, this equals no problem with the generator. This completes flashing the field.
8. If there is no voltage at the output wires 1-2 shut down the engine double check the battery connection to the red leads and check the stator. Start at the excitation wings.

For more information on checking the Gen-Set see TI document titled
"LT12D Gen-Set Diagnostic"

