

GTI SERVICE NOTE

GTI 115

June, 2014

Change from 3-phase potential transformer to single phase control transformer

The single phase control transformer will be used with the GTI+, StepCon, or any GTI Bi-Fuel system using the kW input on 600VAC gensets. The required instrument voltage for the watt transducer we currently offer is 195VAC to 265VAC. This transformer will be used to reduce the voltage from 600VAC to 230-240VAC.

600-240V Transformer Kit Part Number G11107-03

Kit Contents:

- (1) 600-240V Control Transformer – G20041
- (1) Primary Fuse Kit – PFK1 Altronic Part number G20036
- (1) Secondary Fuse Kit – SFK1 Altronic Part Number G20037
- (2) Primary Fuse 1/8 amp – G20039
- (1) Secondary Fuse 1/2 amp – G20040
- (2) Finger Guard – G20038

Required Tools:

- Small flat or Phillips screwdriver
- Torque screw driver for screws
- Transformer = 12 to 14 inch-lbs.
- Watt Transducer = 8 inch-lbs
- Wire strippers/cutters

Procedure:

To G11081-600V watt transducer

Connect the secondary output of the transformer (LV) to the watt transducer

1. Using 18 AWG stranded wire, connect output 4 on the LV side of the transformer to instrument power terminal 6a on the watt transducer. Tighten screws per torque Spec.
2. Using 18 AWG stranded wire, connect output 6 on the LV side of the transformer to instrument power terminal 12a on the watt transducer. Tighten screws per torque Spec.

Connect the primary input of the control transformer (HV) to the generator output (VL-L).

1. Ensure the output terminals of the generator are not energized.
2. Using 18 AWG stranded wire, connect input 6 on the HV side of the transformer to phase A of the output of the generator. Tighten screws per torque Spec.
3. Using 18 AWG stranded wire, connect input 7 on the HV side of the transformer to phase B of the output of the generator. Tighten screws per torque Spec.

After all necessary connections are made, install the two supplied finger guards.