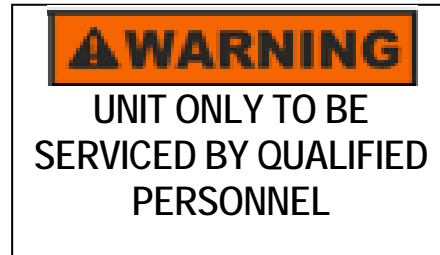


Generator Installation for all PC602 Series APU's



The following Safety Procedures Must Be Followed!

Prior to performing any mechanical work on the generator, the system must be disabled to prevent any possibility of the APU starting as a result of automatic functions.

Disconnect 12 pin connector

- Remove the upper access panel
- Disconnect the 12 pin connector from the APU Controller (Figure 1)
- The generator weighs 80 lbs. A suitable lifting device must be used to raise and lower the generator for removal and installation.

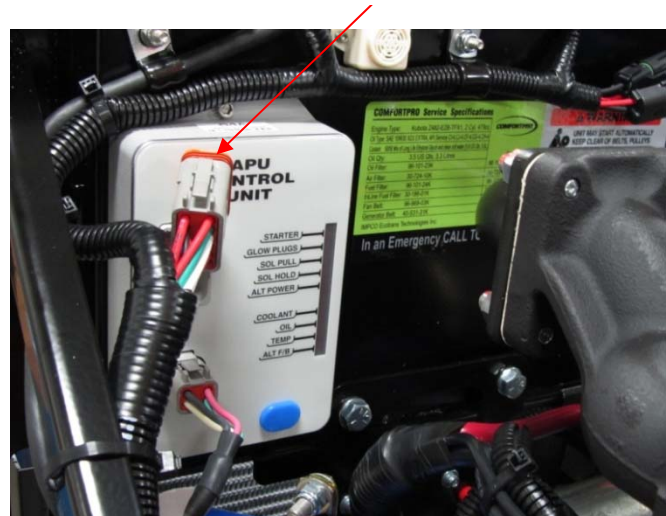


Figure 1

Required Tools

- Normal hand tools
- Torque Wrench
- 15 mm Crow's Foot Wrench
- Belt Installation Tool PG1040
- Pulley Alignment Tool PG1041
- Suitable lifting device
- Multi Meter
- 18 inch jumper lead, X2



Generator Removal and Replacement

- Remove upper and lower enclosures from the APU
- Examine the generator drive belt to determine if replacement will be required
- If replacement is required, the belt may be cut for removal. If the belt is to be reused, remove the belt using the PG1040 Belt Tool. Refer to IB-5105 for belt removal and installation
- Disconnect the generator power wire from the generator breaker
- Disconnect the generator neutral wire from the ground stud at the fuel filter bracket
- Remove the P-clamp securing the generator harness
- Remove the P-clamp retaining the capacitor to the fuel filter bracket
- Support the generator with a suitable lifting device. NOTE: The generator is heavy and awkward, it must be properly supported to prevent injury or damage should it fall
- Remove and discard the 4 nuts mounting the generator to the bracket
- Carefully lower the generator from the APU.
- Raise the new generator into position using care to prevent damage to the generator mounting bolts
- With the generator in position, install the replacement M10 X1.50 serrated flange nuts hand tight
- Install the PG1041 pulley alignment tool and align the generator to the engine
- See IB-5109 for details on the generator alignment. Tighten generator mounting nuts to 40 Ft/ Lbs.
- With the generator proper aligned, replace the generator drive belt using the PG1040 belt tool
- Refer to IB-5105 for belt details
- Connect the generator power to the generator breaker and the neutral to the ground stud. Do not connect the capacitor at this time.
- Fasten the generator harness to the frame with the P-clamp
- Install the new capacitor to the fuel filter/breaker bracket
- On the generator excitation leads (red smaller gauge wires that are not connected yet), strip back 3/8" of insulation
- Connect the jumper leads to the generator excitation leads
- Reconnect the 12 pin connector to the APU control module
- Start the APU. With the engine running, connect the jumpers to a 12 volt power source for 2 seconds
- Stop the APU and disconnect the 12 pin connector to the APU control module
- Using the provided butt splice connectors, connect the capacitor to the excitation windings
- Install the upper and lower enclosure
- Reconnect the 12 pin connector to the APU control module
- Replace the upper access panel