

# INSTALLATION INSTRUCCION FOR ENGINE CONTROL CONVERSION FROM DGC500 TO DGC2020

## WARNING

**Before proceeding disconnect the battery from the unit, negative cable first and then positive. When reconnecting it connect the positive first and then the negative.**

1. Remove cover from engine control cabinet.
2. Unlock connector on the back of cabinet and remove the engine control harness route to the engine.
3. Remove the following leads from the control board inside the cabinet. These are all AC and sensor leads that go through the hole in the floor of the cabinet.

| Terminal ID  | wire # |
|--------------|--------|
| Volt PH A    | G1     |
| Volt PH B    | G2     |
| Volt PH C    | G3     |
| Volt Neutral | N      |
| Phase A CT   |        |
| 1/5A         | 41     |
| Comm         | 401    |
| Phase B CT   |        |
| 1/5 A        | 42     |
| Com          | 402    |
| Phase C CT   |        |
| 1/5 A        | 43     |
| Com          | 403    |

These are the only wires that have to be removed from the board all the other wiring on the board will be replaced with the wiring in the new engine control. Be sure to loose the wire clamp in the bottom of the engine control so the wire can slide through them when the control is removed.

4. Unbolt the shock mounts and remove the old engine control from the generator.
5. Install the new DGC2020 engine control routing the wires from the generator box up through the hole in the bottom of the engine control. These are the same wires that you loosened in step 3.

6. Cut of the lugs on the 10 wires coming up from the generator and strip the wire back 3/8 of and inch.

7. Insert the ten wires in the following locations on the terminal strips in the new engine control. The connector may be removed from the board to allow for easy of installation of the wires.

| Wire # | to | Terminal # |
|--------|----|------------|
| N      |    | 35         |
| G1     |    | 41         |
| G2     |    | 39         |
| G3     |    | 37         |
| 401    |    | 68         |
| 41     |    | 69         |
| 402    |    | 71         |
| 42     |    | 72         |
| 403    |    | 74         |
| 43     |    | 75         |

8. Plug the engine harness back into the receptacle on the back of the engine control cabinet. Be sure to gentle lock it in place.

This engine control has been fully programmed for you unit. If everything is connected and you are ready to run the unit, reconnect the unit to the battery and depress the run button to manually start the engine generator set.