

SERVICE GUIDE

For

Models 8300G and 8301G

Changing AC Input Voltage

TFT Model 8300G Transmitter and TFT 8301G STL Receiver

8300G Transmitter

Conversion *from* 220 VAC to 110 VAC

1. Unplug all cables to the METER BOARD PCB. Remove the two screws that hold down the voltage regulator ICs. (Don't loose the insulators or the screws!) Remove the six screws that mount the METER BOARD PCB to the chassis. Remove the METER BOARD PCB from the chassis and set it aside.
2. Remove the screws and nut that hold the FRONT PANEL to the chassis. Tilt the FRONT PANEL so you can easily reach the front panel POWER SWITCH.

CAUTION

Discharge the big power supply capacitor!

3. Locate the wires going to the front panel power switch from the transformer (1 BLACK and 1 WHITE). Remove the WHITE one from the switch. Next locate the YELLOW and ORANGE wires that are tied together with solder and insulated with heat shrink tubing. Separate the YELLOW and WHITE wires from each other.
4. Cut the push on connector from the WHITE wire and connect the WHITE and ORANGE wires together with a new push on crimp connector and reconnect to the power switch.
5. Next remove the BLACK wire from the switch and cut the push on connector from the BLACK wire. Connect the BLACK and YELLOW wires together with a new push on crimp connector and reconnect to the power switch.
6. Re-assemble the front panel to the chassis and mount the meter board. Don't forget the regulator IC does require an insulator between the chassis and screw!
7. Do a short check before applying AC power.

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Conversion *from* 220 VAC *to* 110 AC

1. Locate the wires going to the front panel power switch from the transformer (1 BLACK and 1 WHITE). Remove the WHITE one from the switch. Next locate the YELLOW and ORANGE wires that are tied together with solder and insulated with heat shrink tubing. Separate the YELLOW and WHITE wires from each other.
2. Cut the push on connector from the WHITE wire and connect the WHITE and ORANGE wires together with a new push on crimp connector and reconnect to the power switch.
3. Next remove the BLACK wire from the switch and cut the push on connector from the BLACK wire. Connect the BLACK and YELLOW wires together with a new push on crimp connector and reconnect to the power switch.
4. Do a short check before applying AC power

8300 G Transmitter

Conversion *from* 110 VAC *to* 220 VAC

1. Unplug all cables going to the METER BOARD PCB. Remove the two screws that hold down the voltage regulator ICs. (Don't loose the insulators or the screws!) Remove the six screws that mount the METER BOARD PCB to the chassis. Remove the METER BOARD PCB from the chassis and set it aside.
2. Remove the screws and nut that hold the FRONT PANEL to the chassis. Tilt the FRONT PANEL so you can easily reach the front panel POWER SWITCH.

CAUTION

Discharge the big power supply capacitor!

3. Locate the four wires going to the front panel power switch from the transformer (BLACK, WHITE, YELLOW and ORANGE). Remove the WHITE and ORANGE

Page 2 of 5

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wires from the switch and cut the push on connector from this pair. Separate the WHITE and ORANGE wires from each other and put a new push on connector on the WHITE wire. Then re-connect the WHITE wire to the power switch.

4. Remove the BLACK and YELLOW wires from the switch and cut the push on connector from this pair. Separate the BLACK and YELLOW wires from each other and put a new push on connector on the BLACK wire, then re-connect the BLACK wire to the power switch.
5. Next locate the YELLOW and ORANGE wires and twist and solder them together. Put heat shrink tubing over the bare ends and tie down to the wire bundle with a tie wrap.
6. Re-assemble the front panel to the chassis and mount the meter board. Don't forget the regulator IC does require an insulator between the chassis and screw!
7. Do a short check before applying AC power.

8301 G Receiver

Conversion *from* 110 VAC to 220 VAC

1. Locate the four wires going to the front panel power switch from the transformer (BLACK, WHITE, YELLOW and ORANGE). Remove the WHITE and ORANGE wires from the switch and cut the push on connector. Separate the WHITE and ORANGE wires from each other and put a new push on connector on the WHITE wire, then re-connect the WHITE wire to the power switch.
2. Remove the BLACK and YELLOW wires from the switch and cut the push on connector. Separate the BLACK and YELLOW wires from each other and put a new push on connector on the BLACK wire, then re-connect the BLACK wire to the power switch.
3. Next locate the YELLOW and ORANGE wires and twist and solder them together. Put heat shrink tubing over the bare ends and tie down to the wire bundle with a tie wrap.
4. Do a short check before applying AC power.

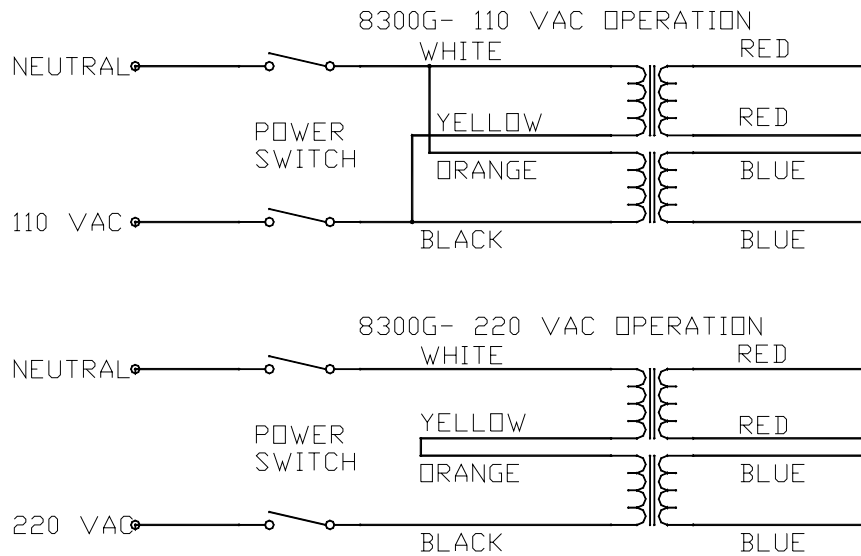
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