

LAGUNA

110V to 220V Conversion



READ AND UNDERSTAND ALL WARNINGS AND OPERATING INSTRUCTIONS BEFORE USING THIS EQUIPMENT. Failure to follow all instructions listed below, may result in electric shock, fire, and/or serious personal injury or property damage.

Before removing any parts, turn OFF the machine and remove the power source.

The conversion kit, **PF1CONV220V**, includes the parts required, (*except for a 220V plug) for conversion to 220 Volt:

- **PDCPF-ACM220V** → Autoclean motor 220V.
- **PDCPF-ACM220V-C** → Autoclean capacitor 1.5uF/450VAC
- **PDCPF15110-220-OV** → Overload protector 15A
- *PLUG, 220 Volt (not available from Laguna Tools, local electrician to supply)

1. Change the wiring within the **1.5HP motor** to 220 Volt wiring according to the wiring diagram located on the inside cover of the junction box.
2. Remove the Control panel by loosening the four bolts circled (Fig. 7) to access the box inside.

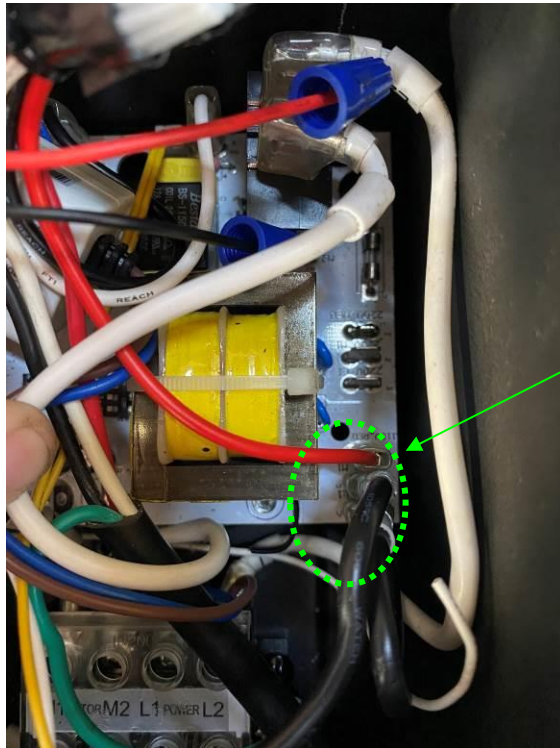


Figure 7: Control Panel



Figure 8: Control Panel/Box Wiring

3. Inside the Control Box remove the connectors (L1, M1, 110V RED) (Fig. 9). Also refer to the electrical diagrams at the end of these instructions for reference.



Use pliers to carefully remove these two electrical connections. The connectors may get damaged if pulled with excessive force.

Figure 9: Removing wires

4. Reattach each connector to the 220V location, L1, M1, 220V RED (Fig. 10). Also refer to the electrical diagrams at the end of these instructions for reference.

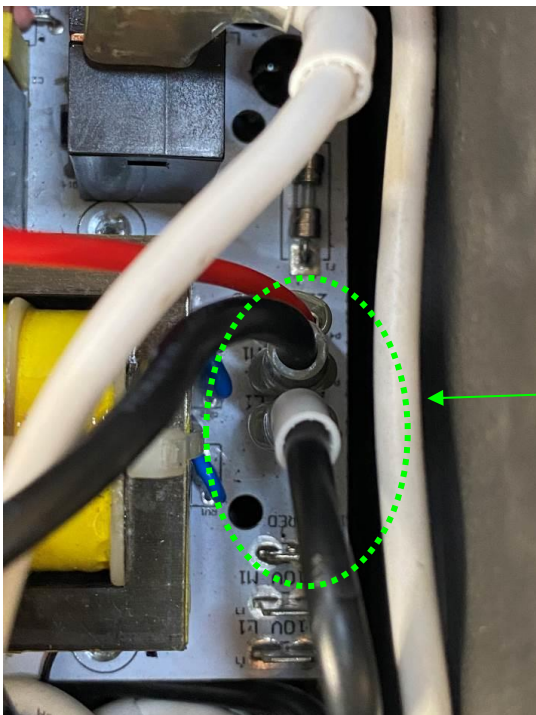


Figure 10: Attaching wires to 220 Volt connectors

5. Remove the autoclean motor capacitor (6uF/250VAC) by disconnecting the two yellow connectors and replace it with the auto clean motor capacitor (1.5uF/450VAC). Make sure the two yellow connectors are connected in the same location as shown below. Always connect on the same side.

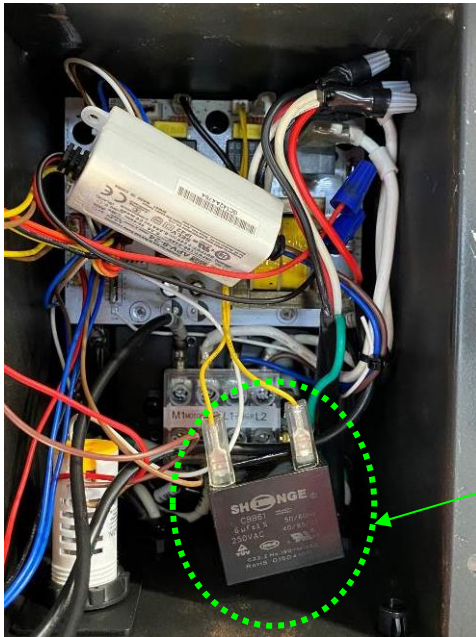


Figure 11: Replacing Capacitor

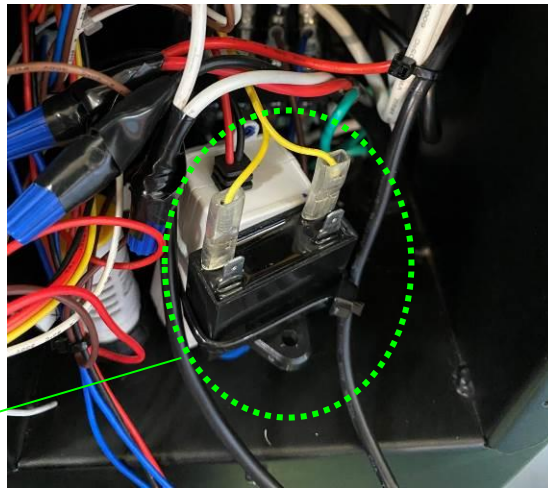


Figure 12: Replacing Capacitor

6. Remove the 25A overload protector from the front control panel by first removing the two connectors.



Figure 13: Removing 110V Overload Protector

7. Loosen the bolt holding the onboard Overload Protector using a wrench.



Figure 14: Replacing Overload Protector

8. Replace with the 15A overload protector and close the control panel with the four bolts removed in step 1.
9. Open the junction box on the autoclean motor and disconnect the 110V wiring.



Figure 15: Junction Box



110V wiring shown in photo

Figure 16: 110V Wiring, Junction Box

10. Loosen the four bolts on the 110V auto clean motor that is connecting to the gear motor below. ONLY remove the top (round) 110V auto clean motor, do not remove the (square) gearbox.

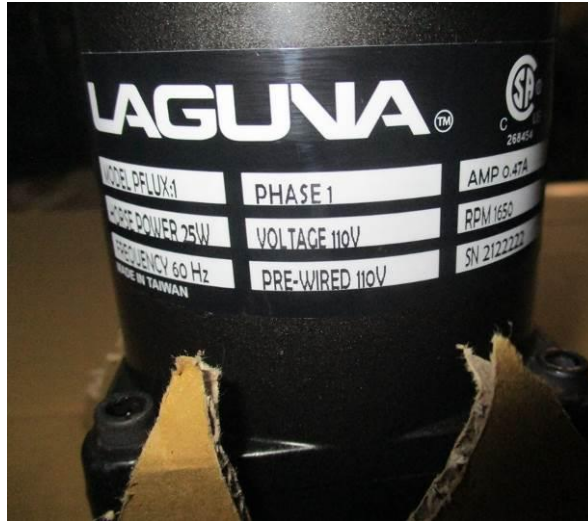


Figure 17: Autoclean Motor Mounting Bolts Figure 18: Autoclean Motor

11. Attach the 220V Autoclean motor by using the four bolts removed in the previous step.
12. Open the junction box of the 220V Autoclean motor and connect the wiring per figures 19 & 20.
Close all electrical boxes and test system.

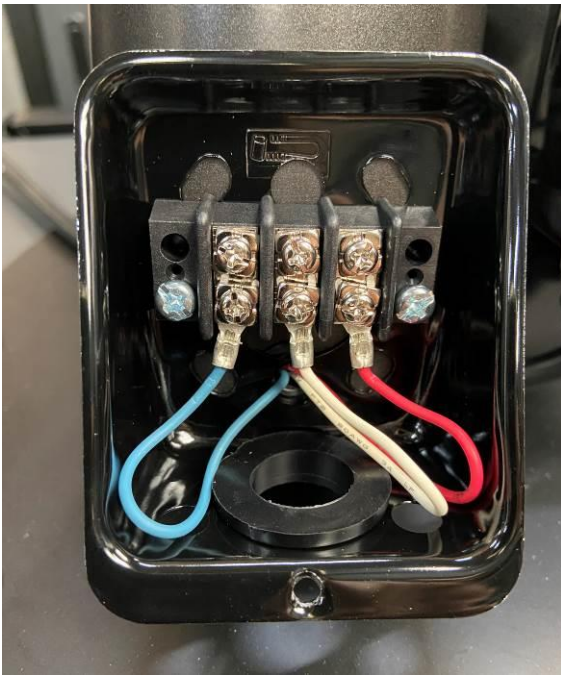


Figure 19: 220V Bottom Wiring Junction Box Figure 20: 220V Top Wiring Junction Box

