Fusion F2 with DRO
110v to 220v Conversion

These instructions are for 110 volt to 220 volt conversion for Laguna Fusion F2 tablesaws with Digital Readout (DRO). This conversion requires the use of Part Number PTSF236110175-TH0580-001 for versions with DRO. If your machine does not have DRO, you will need to use Part Number 610110. These parts can be found on our website at https://www.shop.lagunatools.com/classic-machinery/tablesaw/switches

Kit Link

During this conversion, save all of the removed hardware for reassembly.

Kit Needed:

PTSF236110175-TH0580-001

Tools Needed:

Philips screwdriver
Straight tip screwdriver
10 mm wrench
Electrical tape

Video Link

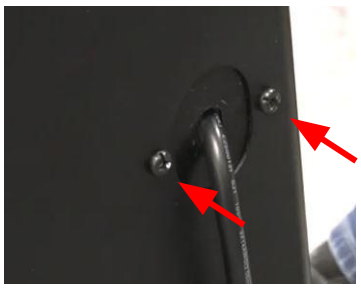
We recommend watching the installation video prior to installing this kit.
This video is on our website and on our YouTube channel at https://youtu.be/cKEFI0-_Ro8

Installation Instructions

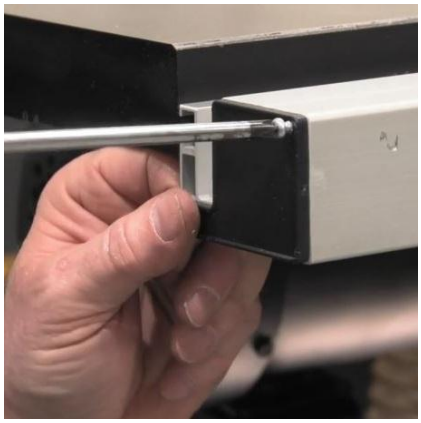
1. Disconnect power from saw by unplugging.
2. Remove motor cover from the left side of the saw by removing the 4 phillips screws.

3. Raise motor by using blade lift handle at front of the saw
4. Remove cover from motor electrical junction box.

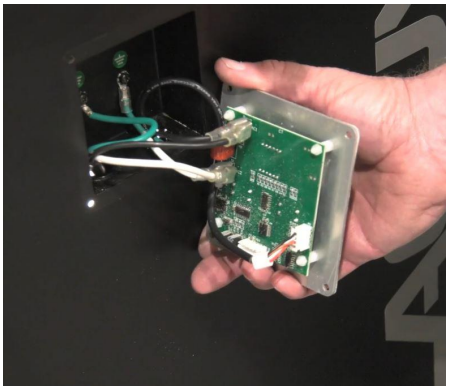
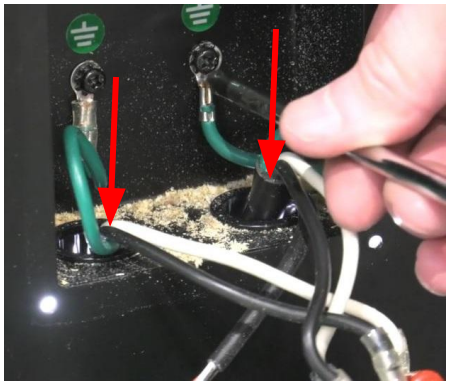
5. Remove power cord from rear of saw by removing 2 screws in retainer plate.



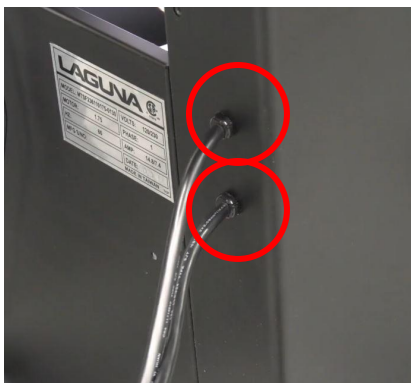
6. Remove fence rail left end cap by removing 2 screws.
7. Remove On/Off switch with 10 mm wrench and sliding off the end of fence rail. Set the switch down on floor next to machine.



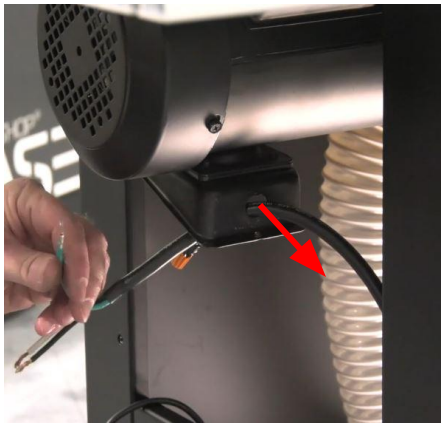

8. Remove DRO from front of saw by removing 4 screws.
9. Disconnect 2 green ground wires behind DRO.
10. Disconnect black and white wires connected to back of DRO with spade terminals. Let DRO hang down from remaining wire.
11. Push disconnected wires down through the left and right holes behind DRO.

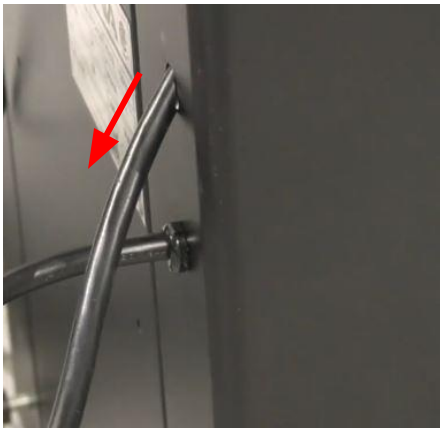




12. Remove 4 strain relief collars; 1 at power cord retainer ring, 1 at motor electrical junction box, and 2 at left side of saw.
13. Pull cord through lower hole at left side of saw.
14. Disconnect wires inside motor electrical junction box by removing screw for green ground wire and removing wire nuts.

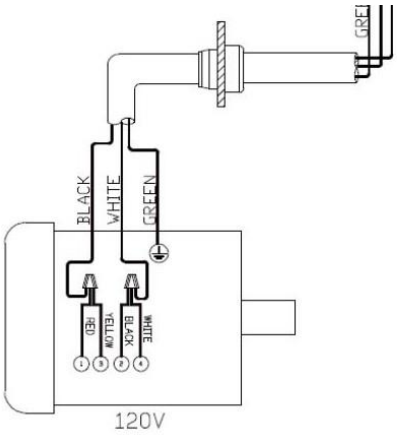



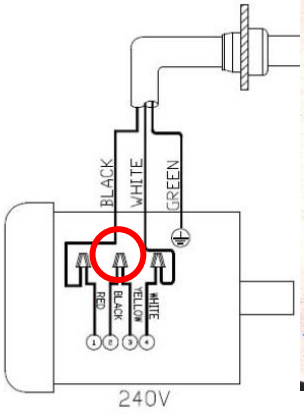

15. Pull cord through motor electrical junction box and out through top hole at left side of saw.
16. Remove the original switch and power cord and set to the side.

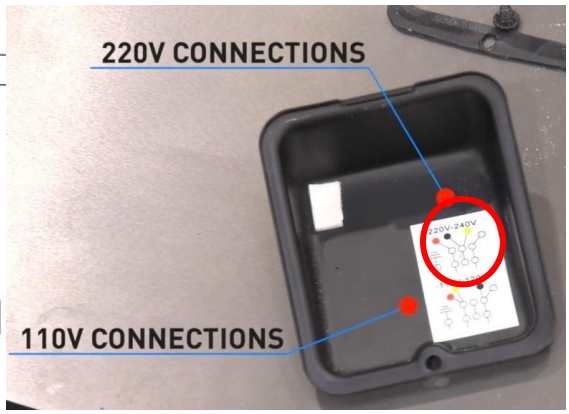




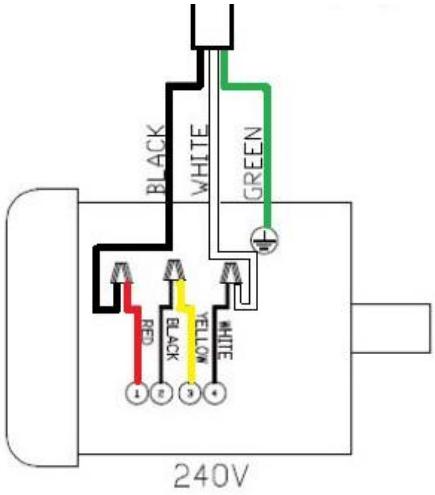
17. On the new switch assembly, locate the cord with the 2 spade terminals and 1 ring terminal. Feed this cord through the bottom wire hole on left side of saw.
18. Inside the motor electrical junction box, untwist the connected wires to separate wires. Locate the black and yellow wires inside the motor junction box and connect black and yellow by twisting wire ends together and securing wires with wire nut. Tape nut to wires with electrical tape. Refer to wiring diagram in these instructions.







19. On the new switch assembly, locate the remaining cord with 2 wires with bare ends and 1 wire with ring terminal. Feed this wire through the top wire hole on the left side of the saw and then through the hole in the motor electrical junction box.
20. Connect the green ground wire inside the motor electrical junction box with screw through the ring terminal.
21. Connect the white wire on cord to the white wire inside the motor electrical junction box by twisting the two white wires together and securing with wire nut and electrical tape. Refer to wiring diagram in these instructions.
22. Connect the black wire on cord to the red wire inside the motor electrical junction box by twisting the black cord wire and red motor wire together and securing with wire nut and electrical tape. Refer to wiring diagrams in these instructions.



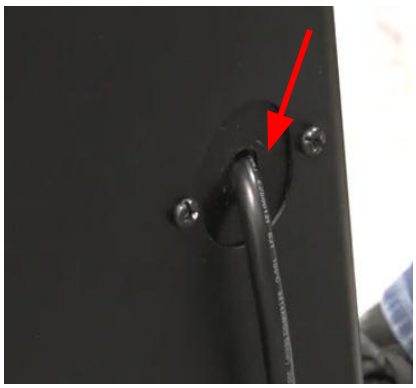
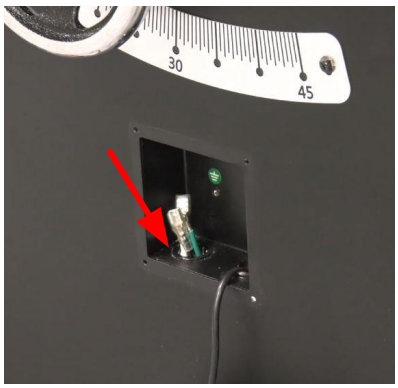
New Connections

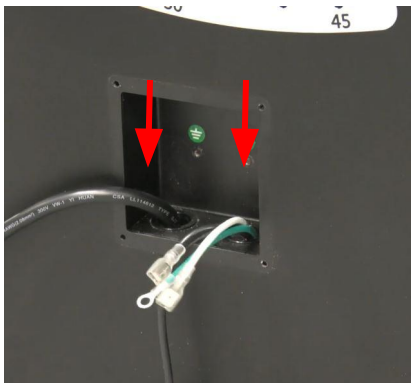
Power Cord		Motor Wires
Black	-	Red
White	-	White
Green	-	Ground Screw
		Black- Yellow

23. Reinstall the cover and gasket onto the motor electrical junction box with original screw.
24. Reinstall the strain relief onto the cord and into the motor electrical junction box.

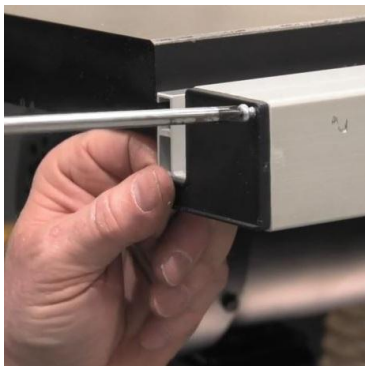


25. Locate the new 220 volt power cord in the kit. Install the metal retainer ring onto the power cord and feed the plug end of the cord from the inside of the saw through the hole at the rear of the saw. Feed the other end of this cord up through the left hole in the DRO junction box at the front of the saw.
26. Feed the wire coming from the On/Off switch with the piggyback spade connectors up through the right hole in the DRO junction box at the front of the saw.

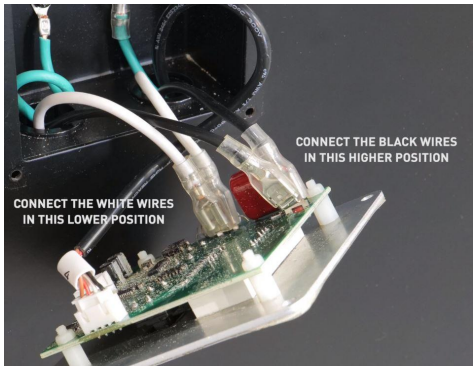





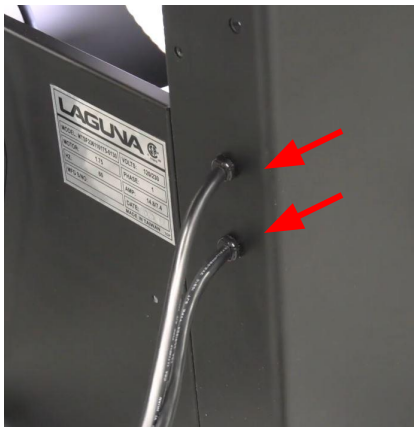
27. Slide the new On/Off switch onto the fence rail and leave loose for adjustment after wires are secured.
28. Reinstall the left fence rail cap with original screws.

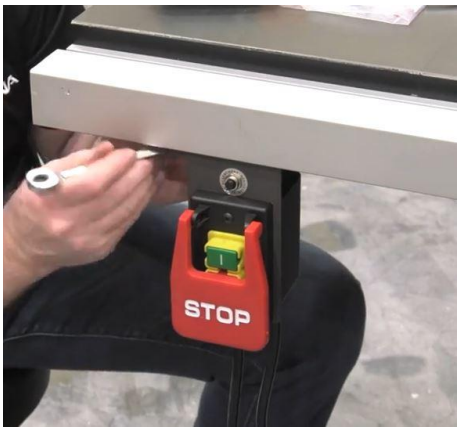


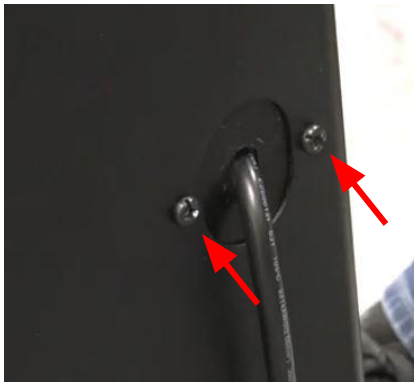
29. Connect the 2 green ground wires at the rear of the DRO junction box at the front of the saw.
30. Connect the black and white wires with piggyback spade connectors at the right side of DRO junction box to the rear of the DRO panel. Black to the top connection and white to the bottom connection on the back of the DRO board.
31. Connect the black and white wires with spade terminals from the left harness onto the piggyback spade connectors at the wires previously installed on the back of the DRO board. Connect black to black and white to white.
32. Reinstall the DRO assembly back onto the front of the saw with the 4 original screws.



33. Adjust wires passing through the left side of the saw so that wires are not strained inside or outside the saw. Reinstall 2 strain relief bushings onto the cords and into the side of the cabinet.
34. At the rear of the saw, secure the cover plate using the 2 original screws and feed the power cord out. Adjust wire length so that wire is not strained inside the saw. Install strain relief onto cord and into cover plate.
35. Adjust the On/Off switch left or right to comfortable position and tighten switch to fence rail using 10 mm wrench.







36. Reinstall motor cover on left side of saw with 4 original screws.
37. Clean tools and parts away from saw, blade, and work area.
38. Plug saw into 220 volt power and confirm saw operation by starting saw and checking DRO operation.