

EZ40S Solid State Relay Installation

WARNING: Disconnect power before performing this repair. Repair is to be completed only by individuals with proper electrical service training.

To complete this repair, you will need screwdrivers, wire strippers and wire crimpers.

1. Begin by disconnecting power and removing the handle from the machine.
2. Remove the 6 screws holding the switch box assembly on the handle pole.
3. Disconnect and remove the old contactor.
4. Cut the crimped ends off the white, black and red wires.
5. Inspect the green ground wires. Make sure both ground wires are connected to the ground screw.
6. Strip 3/8" of insulation and install the blue crimp ends on the 3 switch wires. Be sure to crimp them firmly.
7. Strip 3/8" of insulation and install the yellow crimp ends on the power in and power out wires. You will have 4 wires total: 1 black and 1 white from the power in cord; 1 white and 1 black on the cord going to the motor.

WARNING: Use only fully insulated terminals like those provided. Non-insulated terminals can short against the housing and electrocute the operator.

8. Peel the blue layer off the back of the new solid state relay. Leave the white layer; this is thermal transfer tape to ensure proper cooling of the solid state relay.
9. Install the solid state relay with terminal 1 next to the power in cord. Use the 2 screws provided.
10. Connect the red wire from the switch to terminal 4 on the relay.
11. Connect the short black wire from the switch to terminal 2 on the relay.
12. Connect the long black wire from the switch to terminal 1 on the relay.
13. Connect the black power in wire to terminal 1 on the relay.
14. Connect the white power in wire to terminal 3 on the relay.
15. Connect the black power out wire to terminal 2 on the relay.
16. Connect the white power out wire to terminal 3 on the relay.
17. Verify all wires are connected firmly. When installed correctly, they will lock in place.
18. Re-install the switch box on the handle pole, taking care not to pinch any wires.
19. Install the handle on the machine and test for correct operation.

For a installation video, go to <https://youtu.be/iIaN-yYbwHI> or scan the link.

