

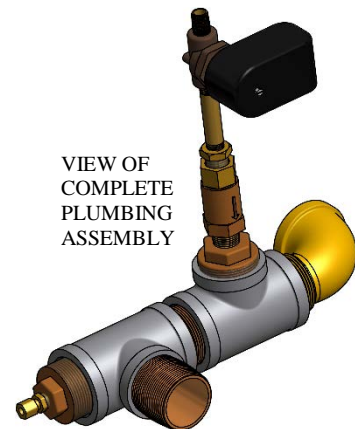
## INSTRUCTIONS FOR TEMPSTAR DRAIN QUENCH KIT

### WARNING:

- This kit should be installed only by qualified service personnel to reduce the risk of electric shock, serious injury or fire. A plumbing permit and the services of a licensed plumber and electrician may be required in some areas.
- Turn off the power supply and place the dishwasher disconnect (if applicable) in the off position. Lockout/Tag out to prevent the power supply from being turned back on inadvertently.
- Failure to install this kit within the guidelines may adversely affect safety, performance, component life and warranty coverage.

### Tools Required:

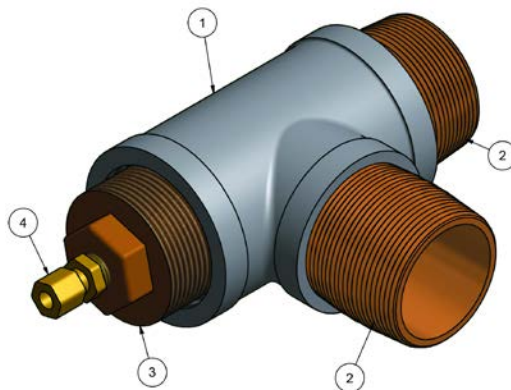
- Pipe Wrench
- Adjustable Wrench
- 5/16" Nut Driver
- 3/8" Nut Driver or Wrench
- Phillips Screwdriver
- Pipe Thread Sealant Tape or Pipe Dope
- Needle Nose Pliers



### Parts Included:

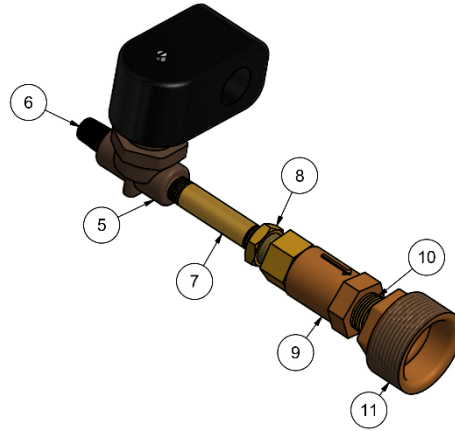
### Assembly 05700-004-14-96

INDEX NO.	DESCRIPTION	PART NUMBER	QTY
1	TEE, 1-1/2 BRASS	04730-011-69-93	1
2	NIPPLE, 1-1/2 BRASS CLOSE	04730-207-40-00	2
3	REDUCER, 1-1/2 X 1/4 HEX BRASS	04730-002-55-76	1
4	UNION, 1/4 MODIFIED	05700-001-16-52	1



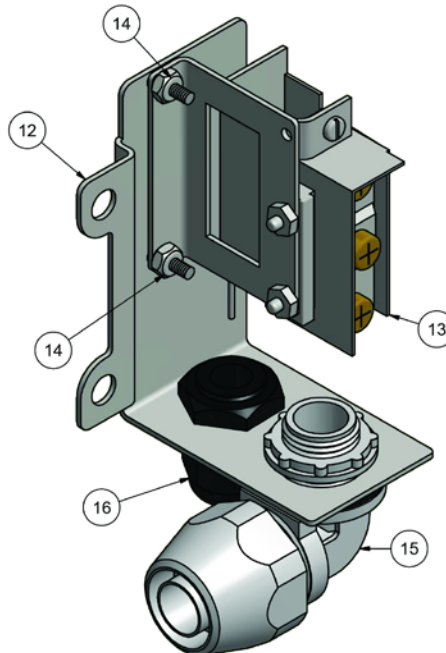
## Assembly 05700-004-14-95

INDEX NO.	DESCRIPTION	PART NUMBER	QTY
5	SOLENOID VALVE, ¼, 240V	04810-002-31-09	1
6	NIPPLE, ¼ CLOSE BRASS	04730-207-02-00	1
7	NIPPLE, ¼ NPT X 3 (BRASS)	04730-004-08-07	1
8	REDUCER, ½ X ¼ BRASS	04730-003-62-16	1
9	VALVE, CHECK ½	04820-002-55-77	1
10	NIPPLE, ½ CLOSE BRASS	04730-207-15-00	1
11	REDUCER, 1-1/2 X ½ HEX BRASS	04730-002-55-75	1



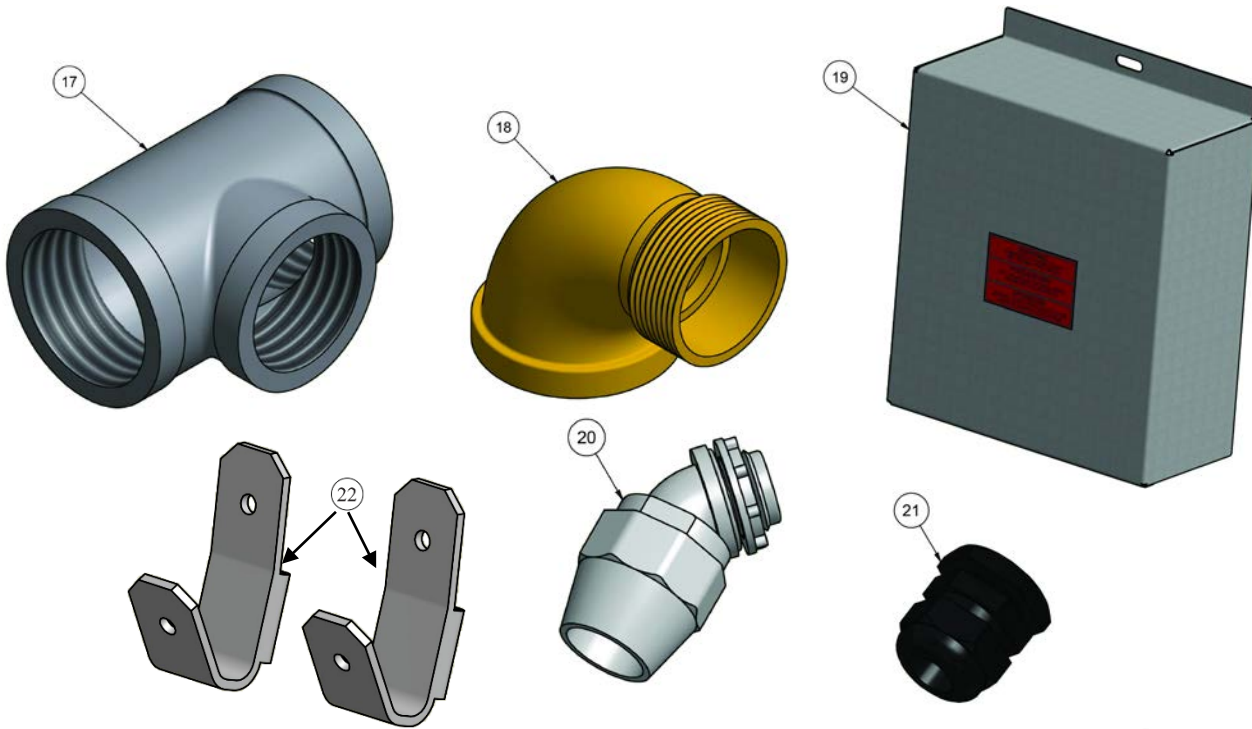
## Assembly 05700-004-14-98

INDEX NO.	DESCRIPTION	PART NUMBER	QTY
12	DRAIN QUENCH BRACKET	05700-004-07-92	1
13	THERMOSTAT	05930-003-13-65	1
14	LOCK NUT, 6-32 HEX	05310-373-03-00	2
15	CONDUIT FITTING, 90°-1/2"	05975-011-45-14	1
16	LIQUID TIGHT FITTING (SMALL)	05975-011-49-03	1

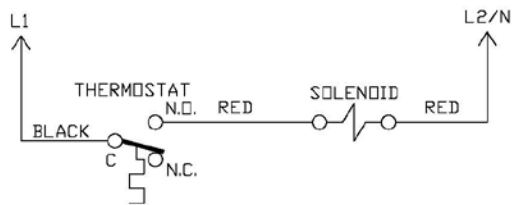


## Miscellaneous Parts

INDEX NO.	DESCRIPTION	PART NUMBER	QTY
17	TEE, 1-1/2 BRASS	04730-011-69-93	1
18	ELBOW, 1-1/2 NPT, FEMALE	04730-206-32-00	1
19	WASH HEATER COVER	05700-004-07-92	1
20	CONDUIT FITTING, 45°-1/2"	05975-011-45-23	1
21	LIQUID TIGHT FITTING (LARGE)	05975-011-65-51	1
22	CONNECTOR (PIGGY BACK)	05940-200-42-00	2



## DRAIN QUENCH SYSTEM

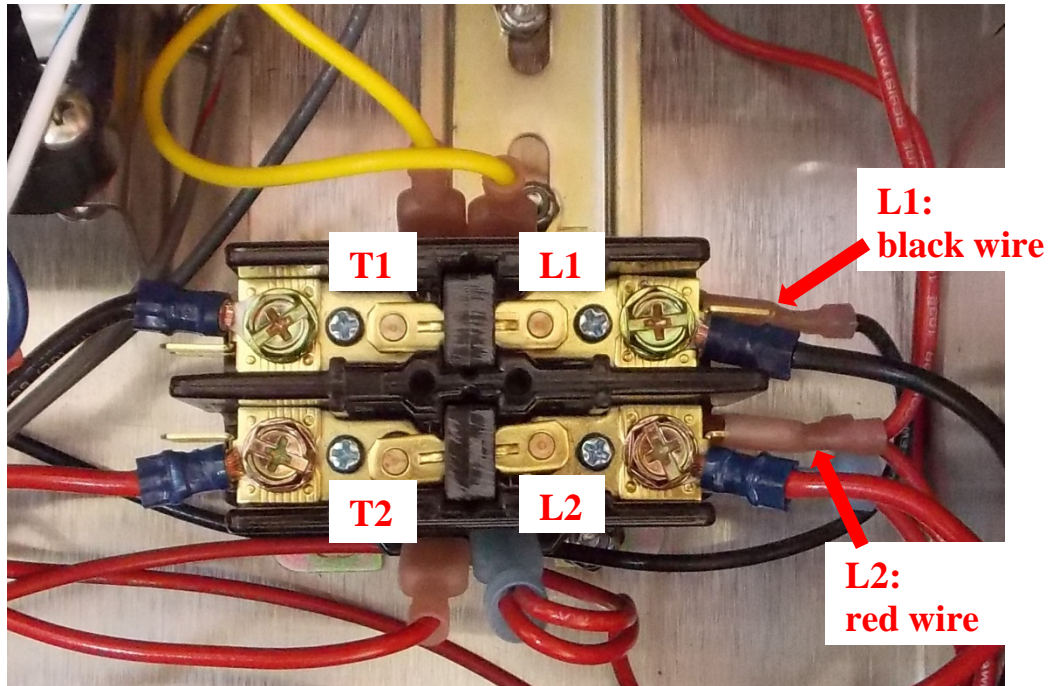


TEMPSTAR UNITS

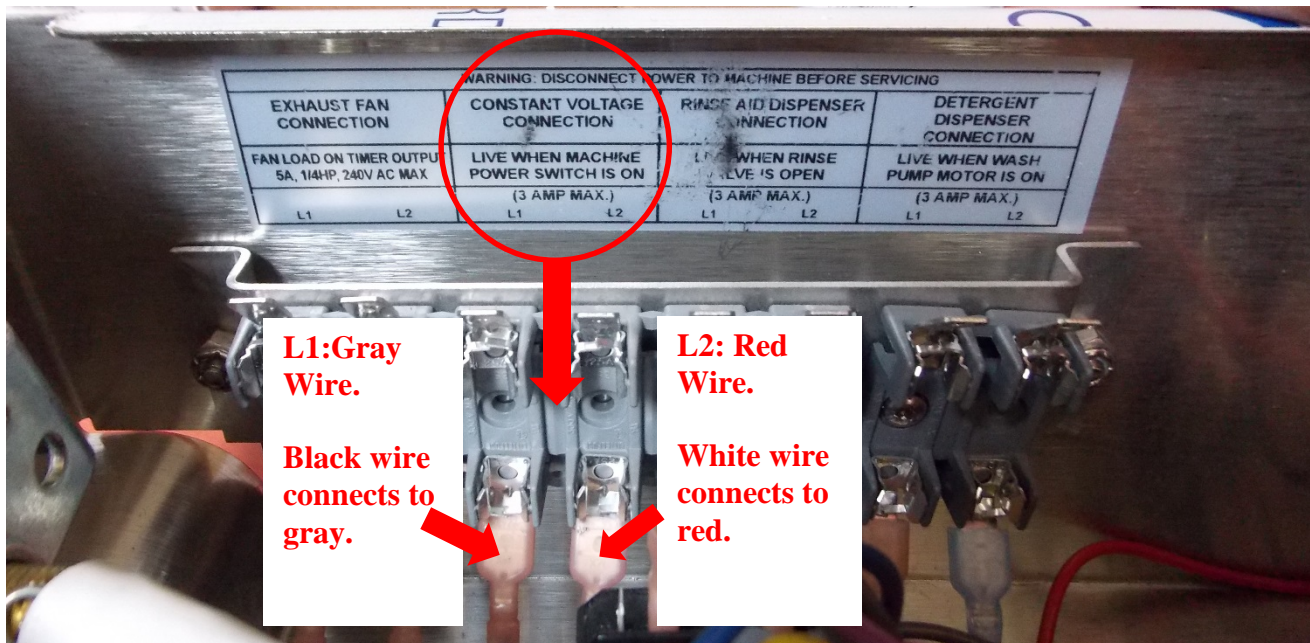
CONNECT BLACK WIRE TO MOTOR CONTACTOR - L1 WITH PIGGYBACK TERMINAL PROVIDED  
 CONNECT WHITE WIRE TO MOTOR CONTACTOR - L2 WITH PIGGYBACK TERMINAL PROVIDED

09905-004-07-98

**208-230V:** Attach terminals to input side of the **motor contactor** L1/L2, lower terminals. Refer to step 16.



**460V:** Connect to the Constant Voltage Connection (fused terminal board). Refer to step 17.



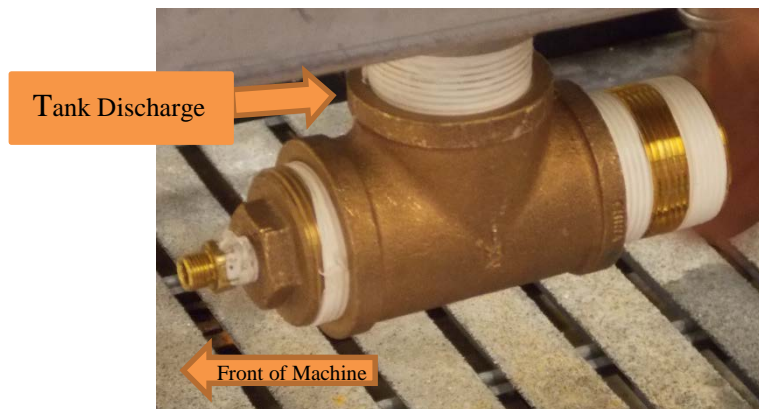


## **PROCEDURE:**

1. Shut off all electric power and water supplied to the dish machine before installing kit.
2. Drain wash tank.
3. Remove front dress panel from dish machine. Refer to picture below.



4. Install assembly 05700-004-14-96 (as shown) into the wash tank discharge. NOTE: Pipe thread sealant tape must be applied to all plumbing components upon installation.



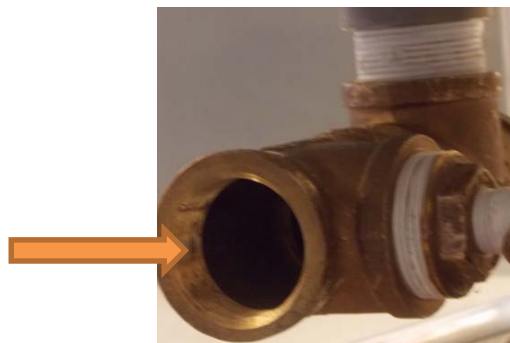
5. Install 1-1/2" tee to 1-1/2" close nipple installed on step 4 as shown in picture below. Make sure middle opening on the tee is parallel with bottom of wash tank.



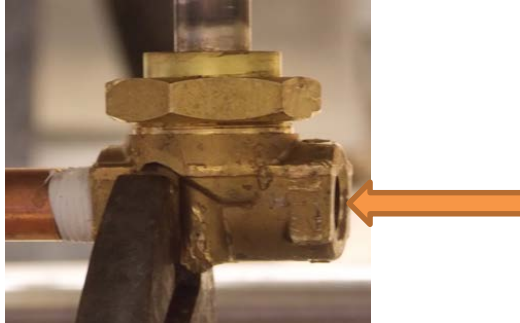
6. Install solenoid assembly 05700-004-14-95 (shown below) to middle opening of the tee. Refer to photo below. (Solenoid coil may need to be removed before attaching assembly to tee.)



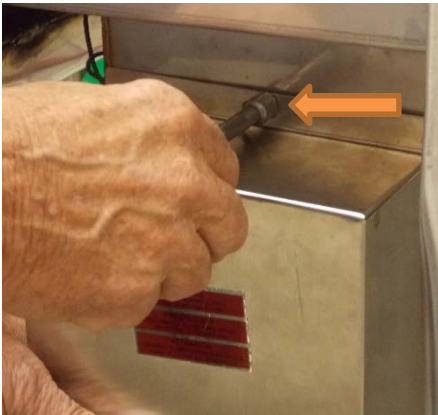
7. Connect the drain discharge piping (not supplied by Jackson) to the 1-1/2" tee (index #1). Refer to the picture below. A 1-1/2" street elbow has been supplied if needed to make connection.



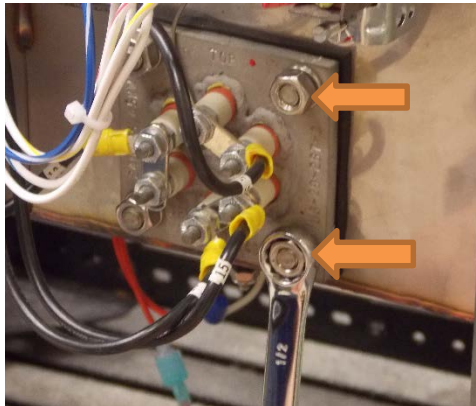
8. Connect **COLD WATER** supply to solenoid valve. A ¼” nipple (index #6) is supplied to make that connection if needed. The picture below shows the connection point.



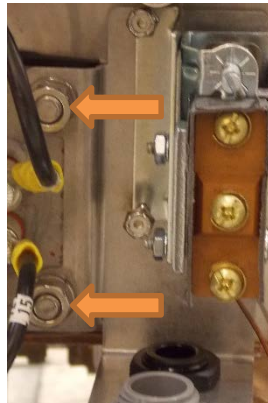
9. Remove the wash tank heater cover. Use a 3/8” nut driver or wrench to remove the two nuts from the cover, they are located at the top and on the bottom of the cover. Be careful not to lose any hardware removed.



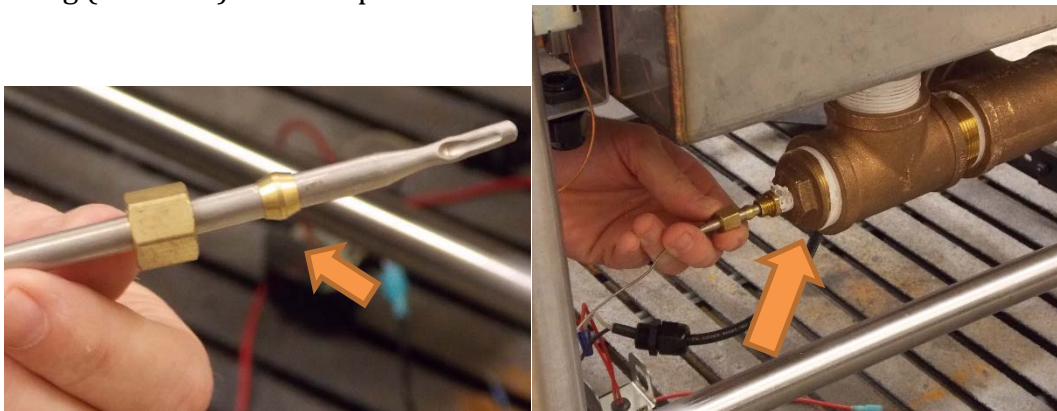
10. Remove the two right side nuts and lockwashers from the wash tank heater using a ½” socket or wrench. Refer to the picture. **NOTE: Be careful not to lose hardware, it will be reinstalled.**



11. Place bracket (assembly 05700-004-14-98) over studs and reinstall the two nuts and lockwashers removed on step 16.



12. Remove nut and ferrule from  $\frac{1}{4}$ " compression fitting attached to assembly 05700-004-14-96. Attach nut and ferrule to thermostat probe. Insert probe into  $\frac{1}{4}$ " compression fitting (index #4). Refer to photos below.



**NOTE: PLACE THERMOSTAT CAPILARY TUBE ALONG SIDE BRACKET. SEE PICTURE BELOW. THE CAPILARY TUBE NEEDS TO BE PLACED SO IT WILL NOT BE DAMAGED.**





13. Remove the control box cover. Use a phillips screwdriver to remove the four screws (two on each side). **CAUTION: Ensure power is off.**



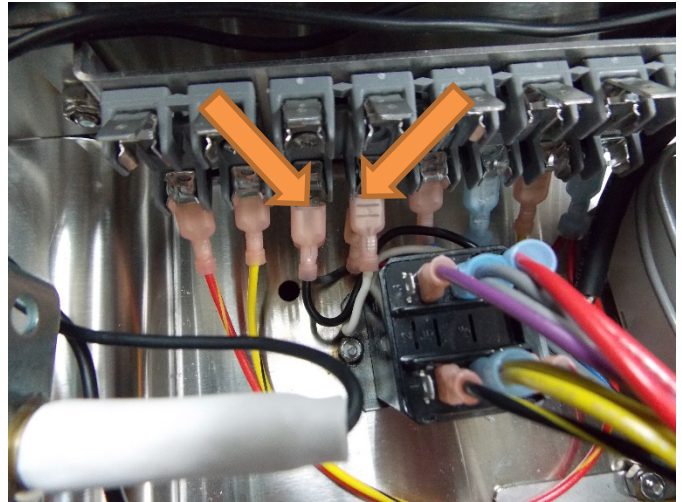
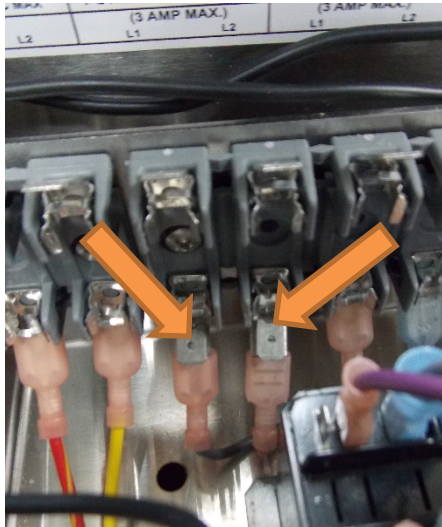
14. On the back of the control box remove the black plug and replace it with liquid tight fitting(index #21). See pictures below for details.



15. Insert sj cord (8½ ft long) through grommet. The end with the pink terminals goes into the control box.
16. Attach terminals to input side of the **motor contactor**. The white wire from the sj cord connects to terminal below red wire. The black wire from sj cord connects to terminal below black wire both are located on the motor contactor.  
**(FOR 460V UNITS SKIP THIS STEP AND MOVE DIRECTLY TO STEP 17.)**



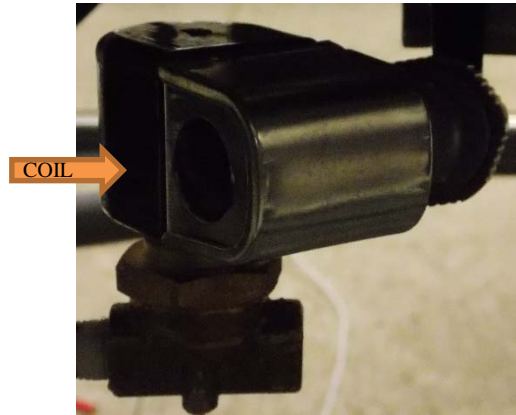
17. **FOR 460V UNITS ONLY!** Locate Constant Voltage Connection and pull terminals L1 (gray wire) and L2 (red wire) from fuse holders. Place one piggyback terminal (index #22) on L1 and one on L2 and reconnect them to the Constant Voltage Connection fuse holders. Connect black wire from sj cord on the L1 piggyback terminal. Connect the white wire from the sj cord on the L2 piggyback terminal.



18. Route sj cord through existing bracket of the back of machine. Tywraps are provided to secure sj cord to existing conduit, use as needed.



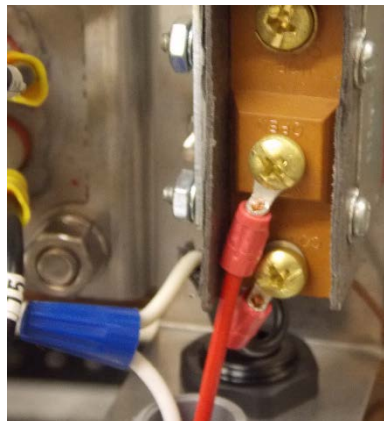
19. Attach coil to solenoid. Use phillips screw driver to tighten screw. **NOTE: COIL WILL COME ASSEMBLED WITH 45° CONDUIT FITTING (INDEX #20), CONDUIT AND WIRING.**



20. Connect conduit from coil to 90° conduit fitting (index #15) attached to bracket. Both the red and white wires from the conduit must come through the fitting.



21. Connect white wire from solenoid coil to white wire on the sj cord using the blue wire nut proved. Connect the red wire from the coil to normally open terminal on the thermostat. Refer to the picture below.



22. Adjust thermostat to needed setting. Refer to picture below.



Adjust by turning clockwise to react to higher drain water temperatures or counter clockwise for lower water temperatures.

23. Install new wash tank heater cover (index #19) using hardware removed in step 13.



24. Replace front dress panel. Restore power and water to machine. Run the machine through five cycles to ensure that there are no leaks.

**If there are any issues after installation please contact:**

**JACKSON WWS TECHNICAL SERVICE 1-888-800-5672**