

DRAIN WATER TEMPERING KIT - 06401-004-07-86



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 might be required in some areas.

Turn off the power supply and place the dishwasher disconnect (if applicable) in the off position. Lock-out/Tag-out to prevent the power supply from being turned back on inadvertently.

CAUTION! Failure to install this kit within the guidelines might adversely affect safety, performance, component life, and warranty coverage.

TOOLS REQUIRED

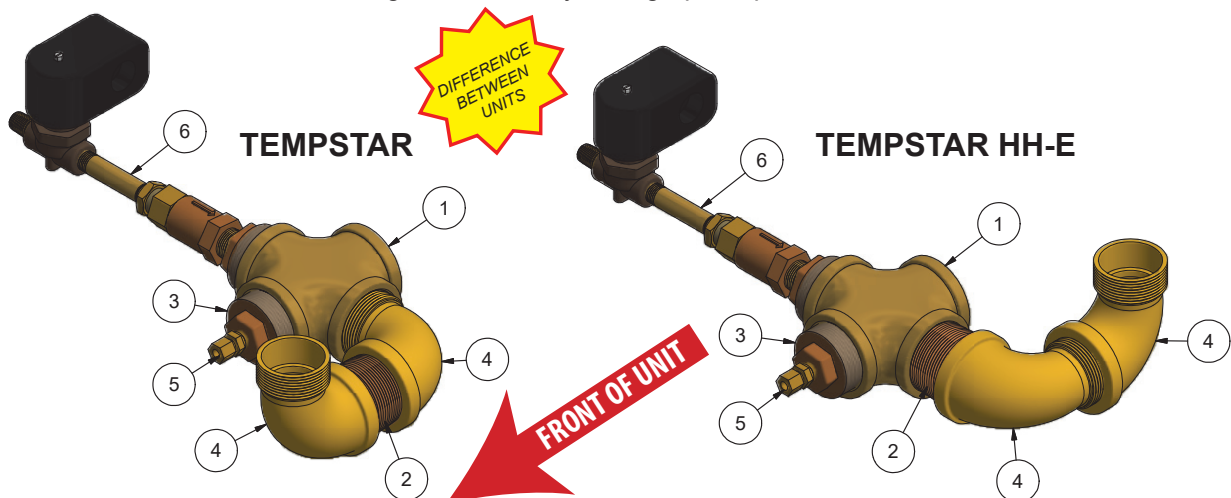
- Pipe Wrench
- Adjustable Wrench
- 5/16" Nut Driver
- 3/8" Nut Driver or Wrench
- Phillips Screwdriver
- Pipe Thread Sealant Tape
- Needle-nose Pliers

SCHEMATIC

- The Drain Water Tempering schematic is shown as an option on the machine schematic.

PARTS INCLUDED

Parts are the same for both units, but configured differently. Two graphics/pictures are shown when there are differences.

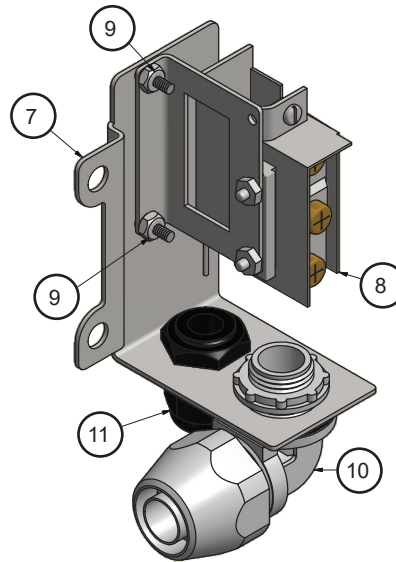


ITEM	DESCRIPTION	PART NUMBER	QTY
1	CROSS CONNECTOR, 1 1/2" FEMALE	04710-004-43-65	1
2	NIPPLE, 1 1/2" CLOSE BRASS	04730-207-40-00	1
3	REDUCER, 1 1/2" X 1/4" BRASS	04730-002-55-76	1
4	ELBOW, 1 1/2" 90-DEGREE STREET BRASS	04730-206-32-00	3
5	UNION, 1/4" MODIFIED	05700-001-16-52	1
6	PLUMBING, SOLENOID DRAIN TEMPERING	05700-004-14-95	1

PARTS INCLUDED

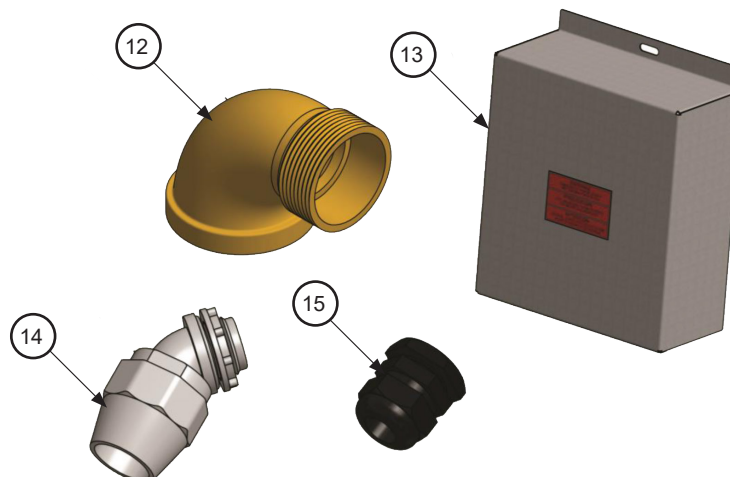
Assembly 05700-004-14-98

ITEM	DESCRIPTION	PART NUMBER	QTY
7	DRAIN WATER TEMPERING BRACKET	05700-004-07-92	1
8	THERMOSTAT	05930-003-13-65	1
9	LOCK NUT, 6-32 HEX	05310-373-03-00	2
10	CONDUIT FITTING, 90-DEGREE, 1/2"	05975-011-45-14	1
11	LIQUID TIGHT FITTING (SMALL)	05975-011-49-03	1



Miscellaneous Parts

ITEM	DESCRIPTION	PART NUMBER	QTY
12	ELBOW, 1 1/2" NPT, FEMALE	04730-206-32-00	1
13	WASH HEATER COVER	05700-004-07-95	1
14	CONDUIT FITTING, 45-DEGREE, 1/2"	05975-011-45-23	1
15	LIQUID TIGHT FITTING (LARGE)	05975-011-65-51	1
16	DECAL, DISCONNECT POWER WARNING (NOT SHOWN)	09905-004-08-16	1
17	WIRING PACK (NOT SHOWN)	05700-004-07-97	1
18	CONDUIT, 1/2" PLASTIC, 1 1/2' LONG (NOT SHOWN)	05975-111-46-57	1
19	VARIOUS HARDWARE (NOT SHOWN)	VARIES	VARIES



PROCEDURE



Disconnect electrical power at the breaker or disconnect switch and tag-out in accordance with procedures and codes.

Turn off the water supply.

Pipe Thread Sealant Tape must be applied to all plumbing components!

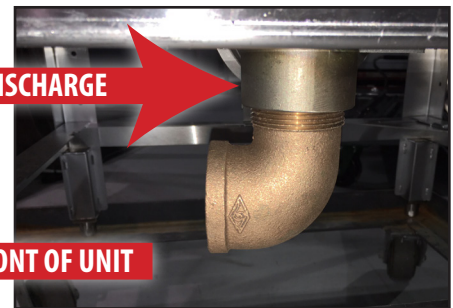
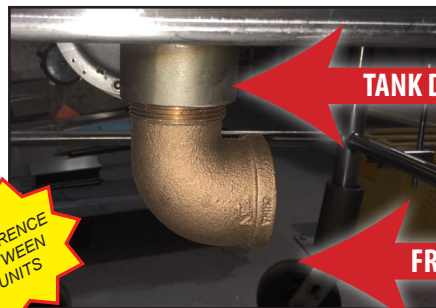
1. Drain the wash tank.
2. Remove the front dress panel from the dishmachine and keep the hardware.



3. Install elbow 04730-206-32-00 into the wash tank discharge and orient as shown below, depending on the unit.

TEMPSTAR

TEMPSTAR HH-E



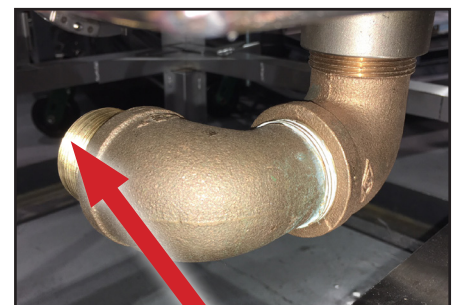
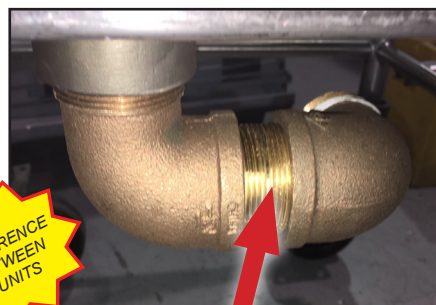
4. Install nipple 04730-207-40-00 into the other elbow 04730-206-32-00.



5. Install combined nipple and elbow into the elbow installed in Step 3 and orient as shown below, depending on the unit. See note below on nipple placement.

TEMPSTAR

TEMPSTAR HH-E



Nipple between Elbows

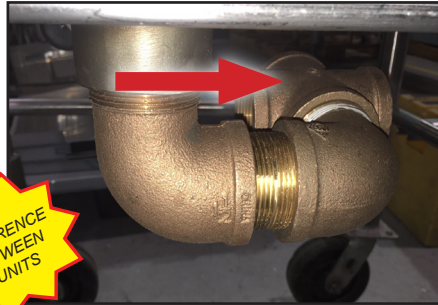
Nipple outside Elbows

PROCEDURE

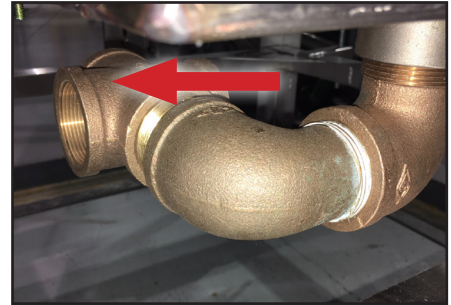
Pipe thread sealant tape must be applied to all plumbing components upon installation.

6. Install connector 04710-004-43-65 onto combined nipple and elbow installed in Step 4. Make sure the connector is parallel with bottom of wash tank.

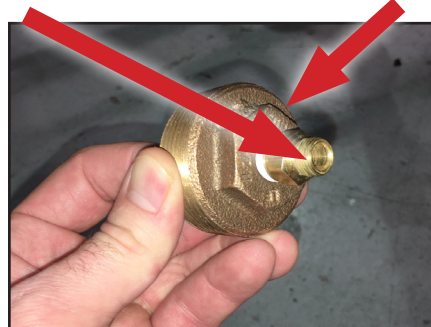
TEMPSTAR



TEMPSTAR HH-E

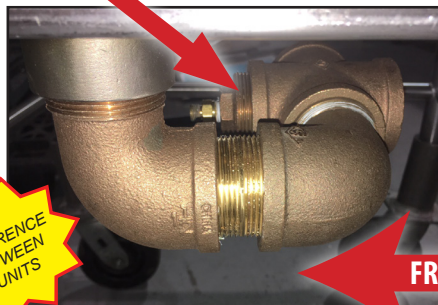


7. Install union 05700-001-16-52 into reducer 04730-002-55-76.

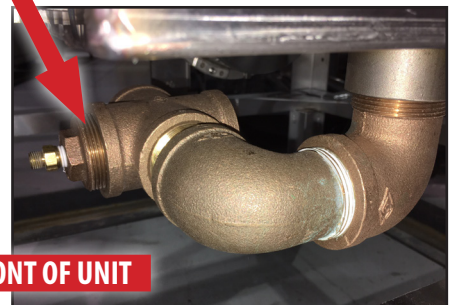


8. Install combined union and reducer into connector installed in Step 6, in the opening facing the front of unit.

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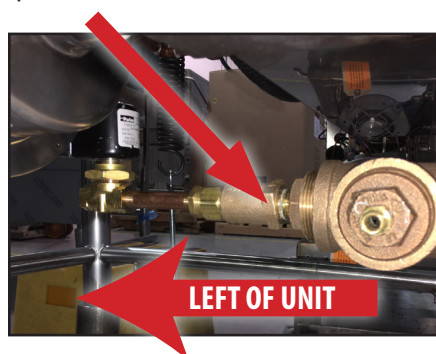


TEMPSTAR HH-E



FRONT OF UNIT

9. Install the solenoid assembly 05700-004-14-95 to middle opening (facing the left of unit) of the connector installed in Step 6. The solenoid coil can be removed before attaching assembly to the connector, if necessary. If removed, reinstall after assembly is in place.

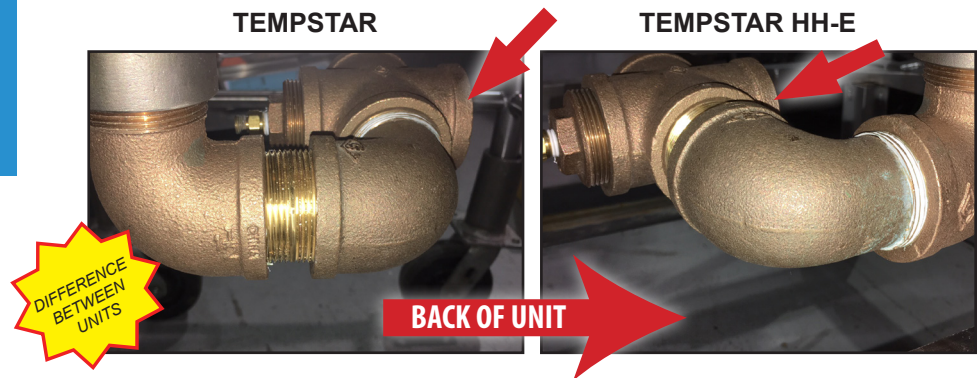


LEFT OF UNIT

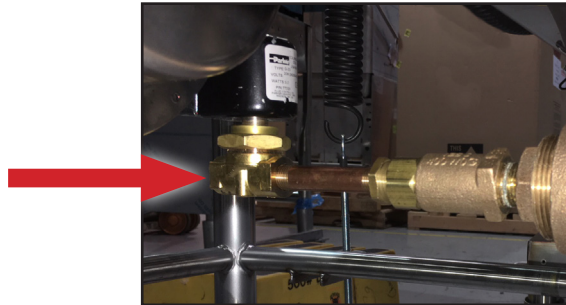
PROCEDURE

Pipe thread sealant tape must be applied to all plumbing components upon installation.

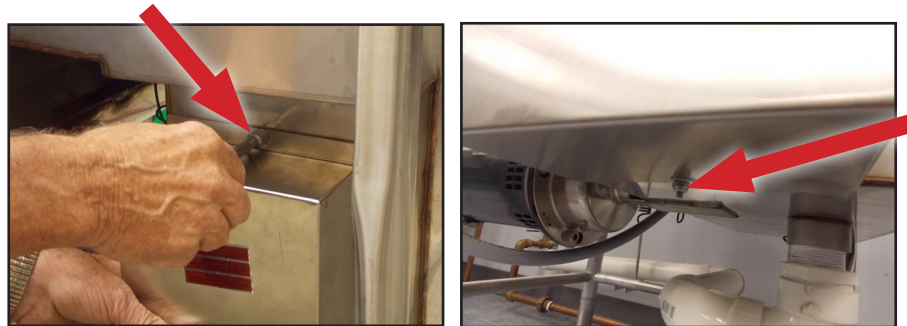
10. Connect the drain discharge piping (not supplied) to remaining opening (facing back of unit) of connector 04710-004-43-65. An extra elbow 04730-206-32-00 has been supplied to make the connection, if needed.



11. Connect cold water supply to the solenoid valve. A nipple 04730-207-02-00 has been supplied to make the connection, if needed.

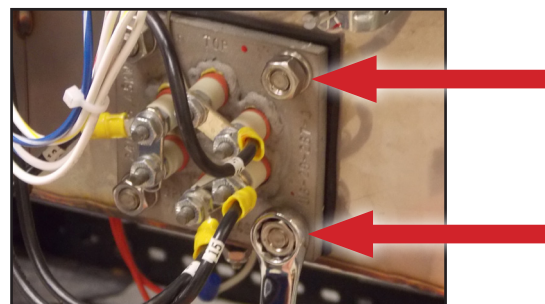


12. Remove the wash tank heater cover. Use a 3/8" nutdriver or wrench to remove the two nuts from the cover (located at top and bottom of the cover).



Keep hardware!

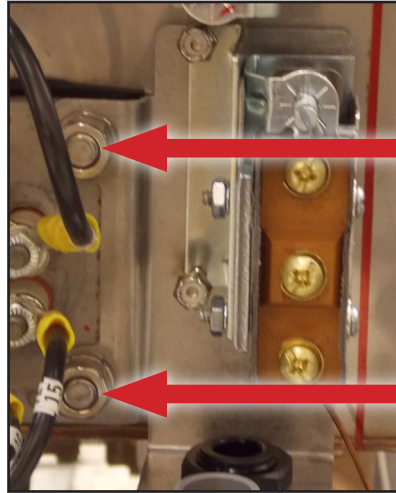
13. Remove the two right-side nuts and lockwashers from the wash tank heater using a 1/2" socket or wrench.



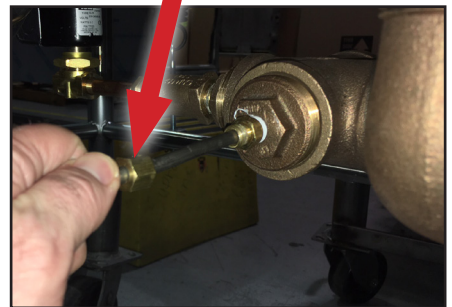
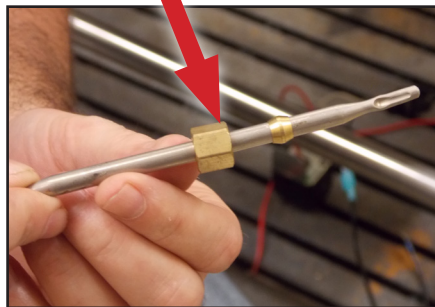
Keep hardware!

PROCEDURE

14. Place 05700-004-14-98 over studs and reinstall the two nuts and lockwashers removed in Step 13.



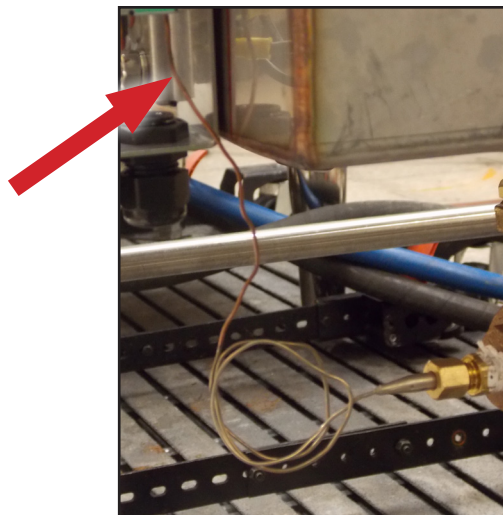
15. Remove nut from union 05700-001-16-52 and slide it onto thermostat probe. Insert probe into union 05700-001-16-52 and tighten nut back down.



16. Place the thermostat capillary tube alongside the bracket.



CAUTION! *The capillary tube must be placed in a way that prevents damage to the tube.*



PROCEDURE



Ensure the power is off!

Keep hardware!

17. Using a phillips screwdriver, remove the four screws (two on each side) securing the control box cover.



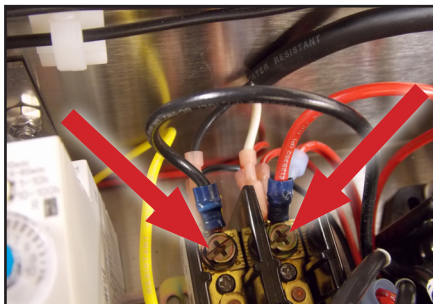
18. On the back of the control box, remove the lower black plug and replace it with 05975-011-65-51.



19. Insert the SJ cord through 05975-011-65-51. The end with the pink terminals goes into the control box.



20. Attach pink terminals to the input side of the motor contactor. The white wire from the SJ cord connects to terminal below the red wire. The black wire from the SJ cord connects to terminal below the black wire. Both are located on the motor contactor.

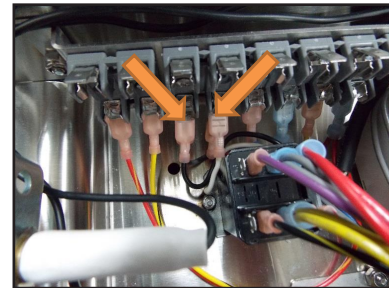
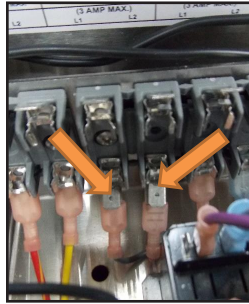


For 460 V machines, skip this step and go to Step 21.

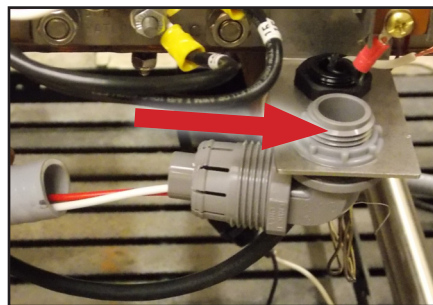
PROCEDURE

21. FOR 460 V MACHINES ONLY: Locate constant voltage connection and pull terminals T1-A (gray wire) and T1-B (red wire) from fuse holders. Place one piggyback terminal on T1-A and one on T1-B and reconnect them to the constant voltage connection fuse holders. Connect black wire from the SJ cord to the T1-A piggyback terminal. Connect white wire from the SJ cord to the T1-B piggyback terminal.

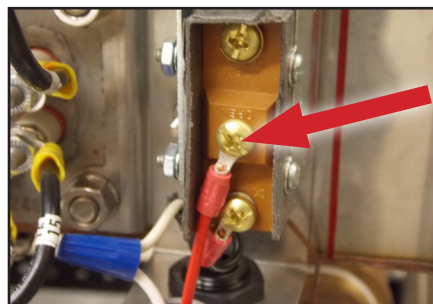
460 V machines only!



22. Route the SJ cord through the existing bracket on back of machine. Tie-wraps are supplied to secure the SJ cord to existing conduit, if needed.
23. Connect the conduit from the coil to 05975-011-45-14 attached to the bracket. Both the red and white wires from the conduit must come through the fitting.

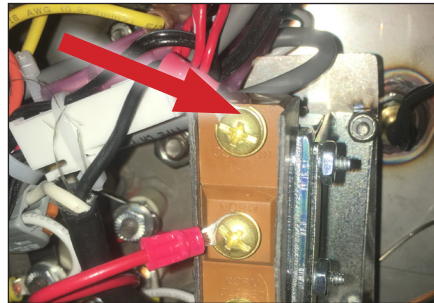


24. Connect the white wire from the coil to the white wire from the SJ cord using the supplied wire nut. Connect the red wire from the coil to the normally-open terminal on the thermostat.

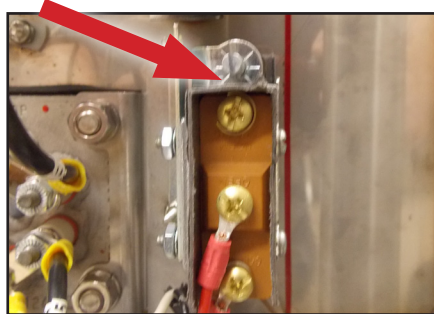


PROCEDURE

25. Connect the black wire from the SJ cord to the common terminal on the thermostat.



26. Adjust thermostat to needed setting.



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

27. Install 05700-004-07-95 using hardware removed in Step 12.



28. Replace the front dress panel and control box cover using hardware from earlier in the procedure.
29. Restore power and water to the machine.
30. Run the machine through five cycles to ensure there are no leaks.

If there are any issues after installation, please contact Technical Service at 888-800-5672.