

INSTRUCTIONS

MODEL DWT-CLe, DWT-FT & DWT-UW DRAIN WATER TEMPERING ... FOR DISHWASHERS

MODEL

DWT-CLe	ML-138241
DWT-FT	ML-138242
DWT-UW	ML-138315



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Installation, Operation, Use and Care of Model DWT-CLe, DWT-FT & DWT-UW Drain Water Tempering for Dishwashers

SAVE THESE INSTRUCTIONS

GENERAL

The Drain Water Tempering Kit reduces the temperature of drain water exiting a Hobart commercial dishwasher by adding cold water to the drain water. The thermostat, provided, determines when additional cold water is needed and automatically adds cold water to the drain.

INSTALLATION

Immediately after unpacking, check for possible shipping damage. If damage is found, save the packaging material and contact the carrier within 15 days of delivery.

ML-138241-Z ***DWT-CLe – Drain Water Tempering Kit (complete)***

PART NO.	NAME OF PART	AMT.
814709	Base Plate Assy DWTCLe	1
814711	Drain Pipe Assy, DWT	1
814712	Cold Water Pipe Assy, DWT	1
542337	Hose Clamp	2
814679	Base Plate Bracket	1
SC-041-50	Cap Screw, 1/4-20 x 1/2"	4
WL-03-036	Lock Washer	4
NS-15-01	Nut	4

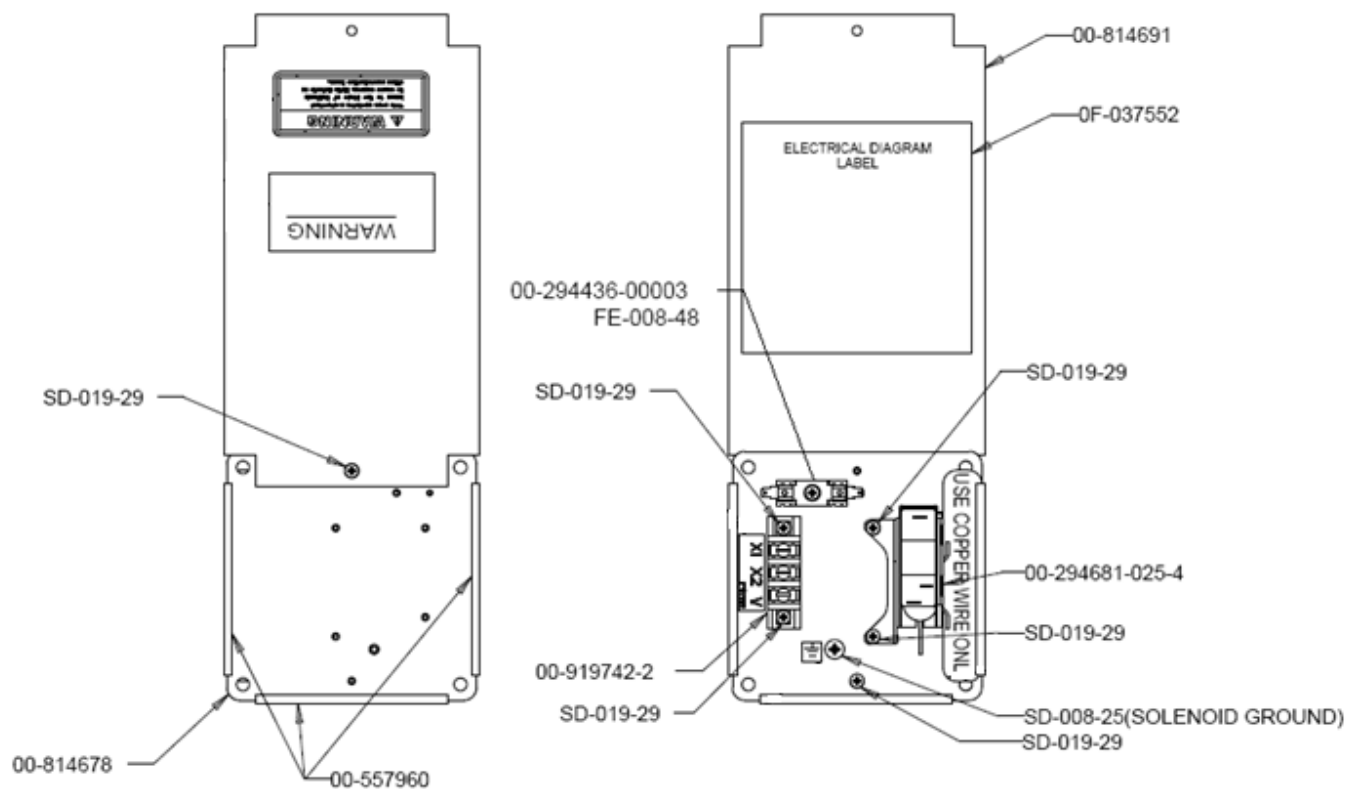
ML-138242-Z ***DWT-FT – Drain Water Tempering Kit (complete)***

PART NO.	NAME OF PART	AMT.
814710	Control Box Assy DWTFT	1
814768	Drain Pipe Assy, DWTFT	1
814769	Cold Water Pipe Assy, DWTFT	1
542337	Hose Clamp	2
SC-041-50	Cap Screw, 1/4-20 x 1/2"	2
WL-03-036	Lock Washer	2
NS-15-01	Nut	2

ML-138315-Z ***DWT-UW – Drain Water Tempering Kit (complete)***

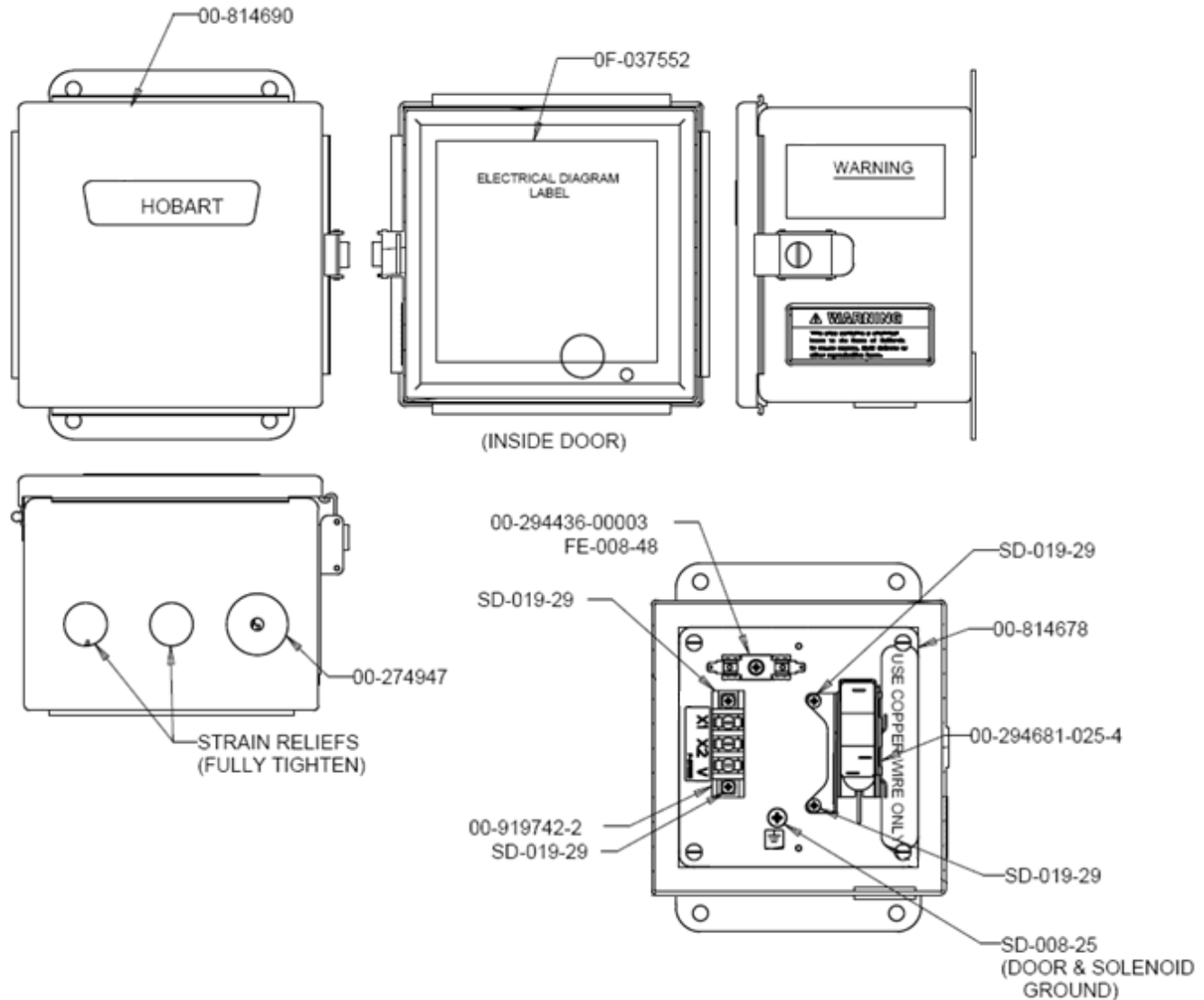
PART NO.	NAME OF PART	AMT.
814770	Control Box Assy DWTUW	1
814711	Drain Pipe Assy, DWT	1
814712	Cold Water Pipe Assy, DWT	1
542337	Hose Clamp	2
SC-041-50	Cap Screw, 1/4-20 x 1/2"	2
WL-03-036	Lock Washer	2
NS-15-01	Nut	2

814709 – Base Plate Assy DWT-CLe



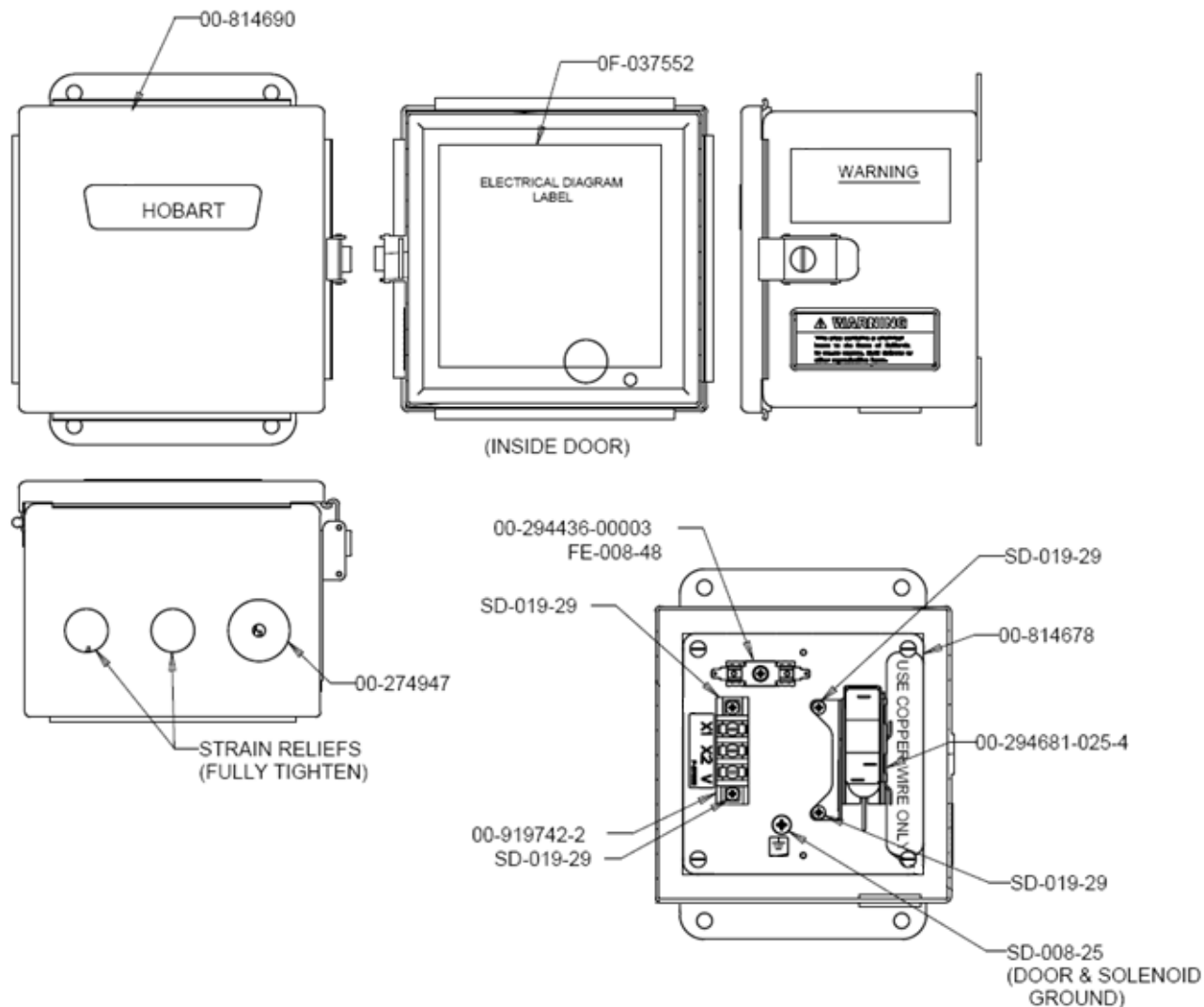
PART NO.	NAME OF PART	AMT.
294436-00003	Fuse Block	1
294681-025-4	Drain Thermostat 135F	1
557960	Grommet	3
814664	Control Harness	1
814665	Thermostat Harness	1
814666	Solenoid Valve Cable	1
814678	Base Plate	1
814691	Mylar Barrier	1
919742-00002	Terminal Block	1
FE-008-48	Fuse	1
SD-008-25	10-32 Type T Drive Screw	1
SD-019-29	6-20 Type B Drive Screw	7

814710 – Control Box Assy DWT-FT



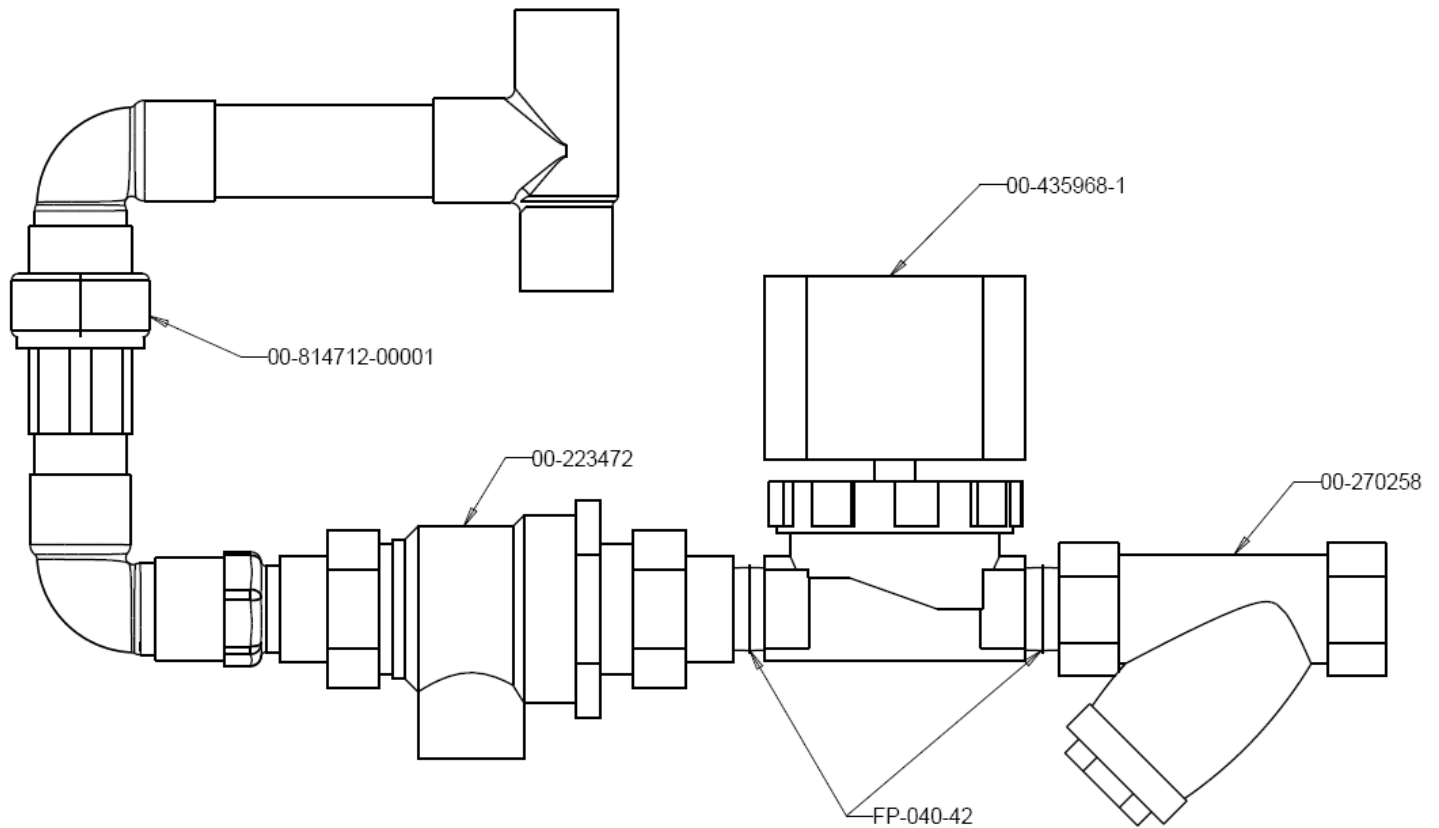
PART NO.	NAME OF PART	AMT.
274947	Grommet	1
294436-00003	Fuse Block	1
294681-025-4	Drain Thermostat 135F	1
814663-00003	Lead Wire – Ground	1
814665	Thermostat Harness	1
814666	Solenoid Valve Cable	1
814673	Control Cable	1
814678	Base Plate	1
814690	Control Box	1
919742-00002	Terminal Block	1
FE-008-48	Fuse	1
SD-008-25	10-32 Type T Drive Screw	1
SD-019-29	6-20 Type B Drive Screw	5

814770 – Control Box Assy DWT-UW



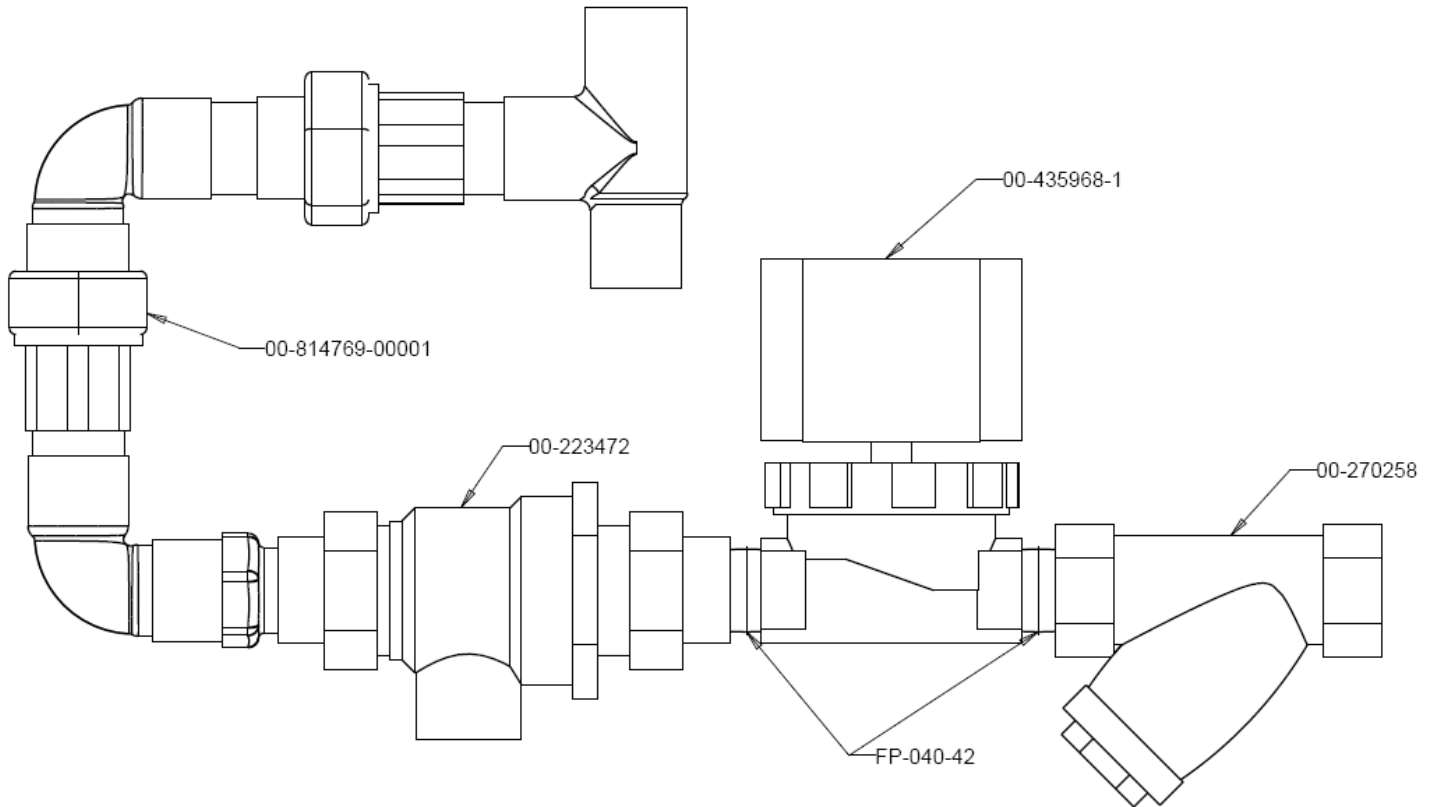
PART NO.	NAME OF PART	AMT.
274947	Grommet	1
294436-00003	Fuse Block	1
294681-025-4	Drain Thermostat 135F	1
814663-00003	Lead Wire – Ground	1
814665	Thermostat Harness	1
814666	Solenoid Valve Cable	1
814767	Control Cable	1
814678	Base Plate	1
814690	Control Box	1
919742-00002	Terminal Block	1
FE-008-48	Fuse	1
SD-008-25	10-32 Type T Drive Screw	1
SD-019-29	6-20 Type B Drive Screw	5

814712 – Cold Water Pipe Assy DWT



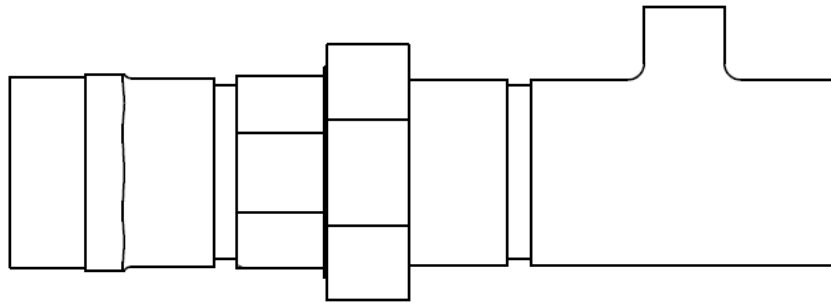
PART NO.	NAME OF PART	AMT.
814712-00001	Cold Water Pipe Soldered Assy	1
223472	1/2" Backflow Preventer	1
270258	1/2" Line Strainer	1
435968-00001	1/2" Solenoid Valve	1
FP-040-42	1/2" x 1 1/8" Threaded Nipple	2

814769 – Cold Water Pipe Assy DWT-FT

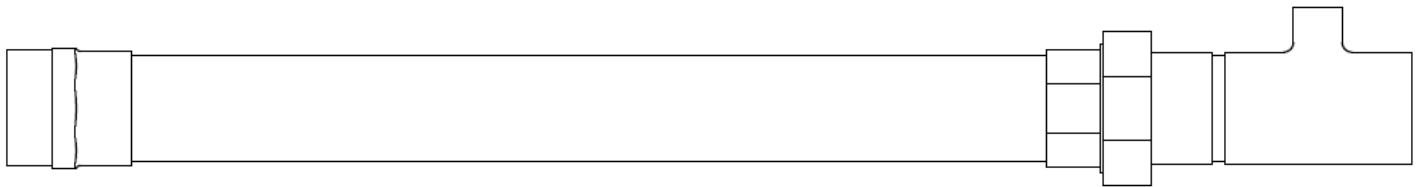


PART NO.	NAME OF PART	AMT.
814769-00001	Cold Water Pipe Soldered Assy	1
223472	½" Backflow Preventer	1
270258	½" Line Strainer	1
435968-00001	½" Solenoid Valve	1
FP-040-42	½" x 1 1/8" Threaded Nipple	2

814711 – Drain Pipe Assy DWT



814768 – Drain Pipe Assy DWT-FT



⚠ WARNING Plumbing connections must comply with applicable sanitary, safety, and plumbing codes.

⚠ WARNING Electrical and grounding connections must comply with the applicable portions of the National Electrical Code and/or other local electrical codes.

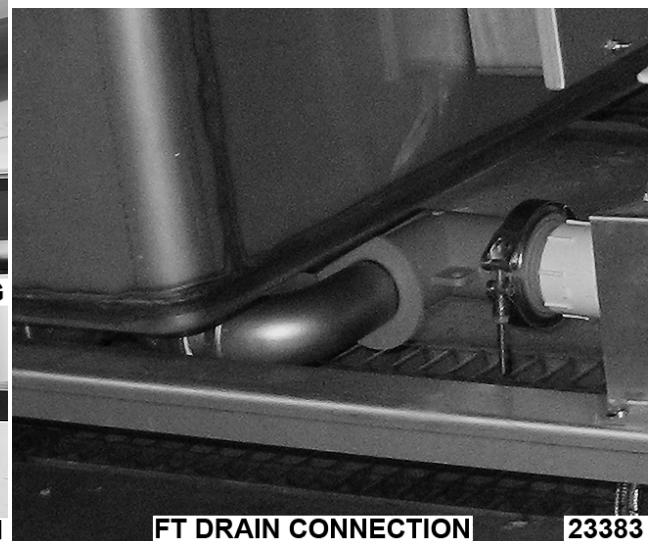
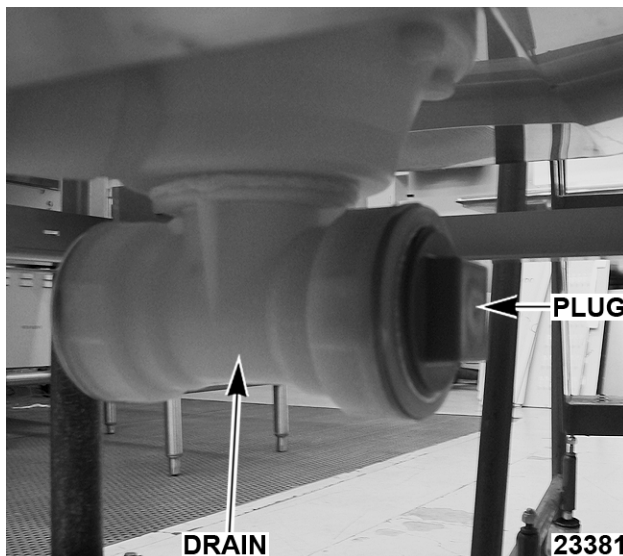


⚠ WARNING Disconnect the electrical power to the machine and follow lockout / tagout procedures.

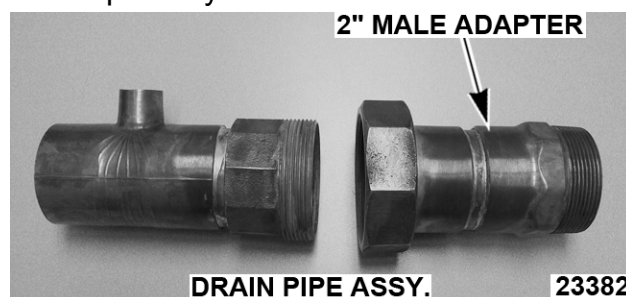
NOTE: The Drain Water Tempering Kit is wired for 120 VAC. It has been designed to obtain this power from the main control box on the dishwasher. Please follow the instructions below.

1. Determine desired end of dishwasher for drain connection. If necessary remove plug and relocate to other end of dishwasher drain.

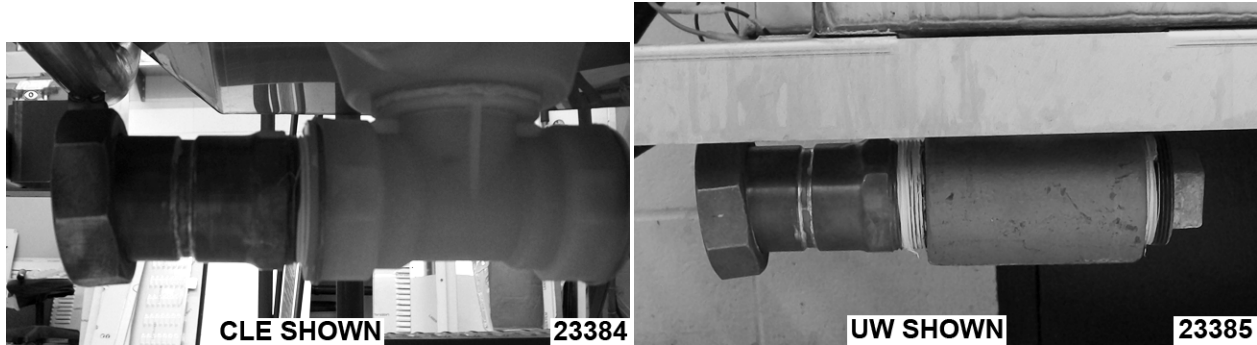
NOTE: UW50 must have drain connection at the end of the machine opposite the controls.



2. Remove any trim panels in the area to install the Drain Water Tempering Kit.
3. Undo the Union of the Drain Pipe Assy.

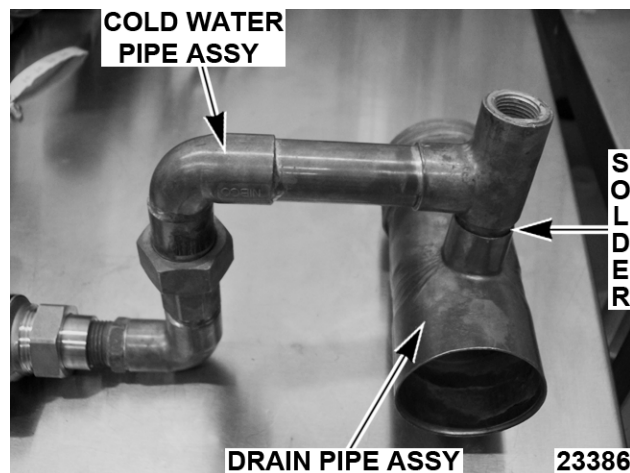


4. Apply Thread Tape or Thread Sealant (not included) to the male threads on the 2" male adapter.
5. Thread the 2" male adapter (with female union) into the desired end of the drain. Tighten to prevent leaks, but not to stress components.



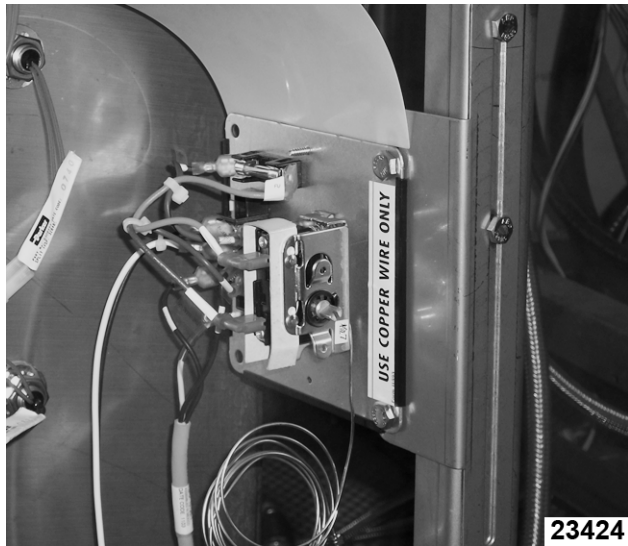
6. Insert the $\frac{3}{4}$ " street tee of the Cold Water Pipe Assy into the $\frac{3}{4}$ " tee opening of the Drain Pipe Assy.
7. Orient the Cold Water Pipe Assy to suit the machine. Solder the $\frac{3}{4}$ " copper joint of the two tees, to connect the Drain Pipe Assy and the Cold Water Pipe Assy.

NOTE: Solenoid valve must be located within footprint of dishwasher.



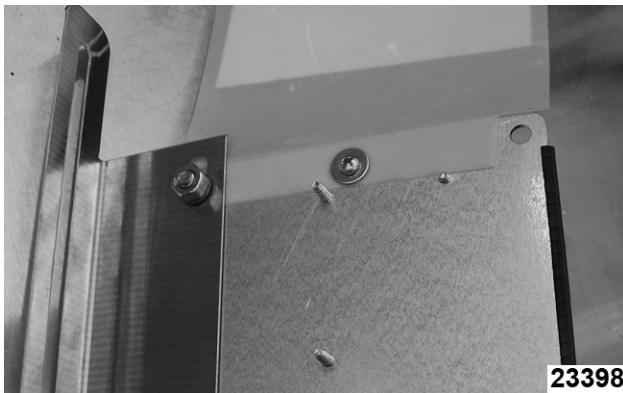
8. Mount the Control Box Assy (on FT and UW50 machines) or the Base Plate Assy (on CLe machines)
 - CLe
 - Remove the front trim panels
 - Attach the Base Plate Assy part no. 814709 to the Base Plate Bracket part no. 814679 (using included nuts, washers, and bolts) – Remove edge protection from plate where bracket is being attached.

NOTE: Mount Base Plate so that the capillary tube runs towards the floor.



23424

- Make sure Mylar Barrier is fully attached top and bottom



23398

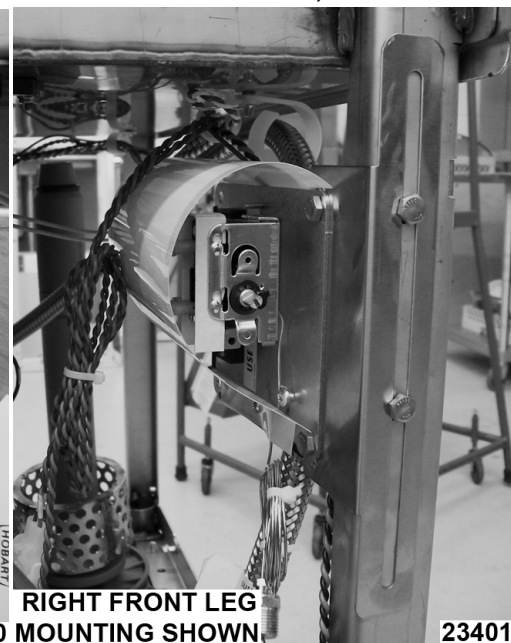


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- Attach the Base Plate Bracket to front leg of the machine closest to installed Drain Pipe Assy (using included nuts, washers, and bolts)



LEFT FRONT LEG
MOUNTING SHOWN



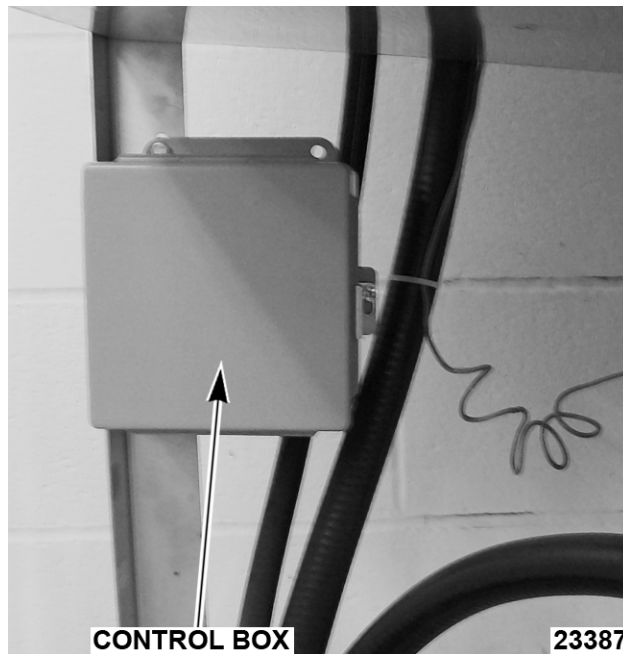
RIGHT FRONT LEG
MOUNTING SHOWN

23401

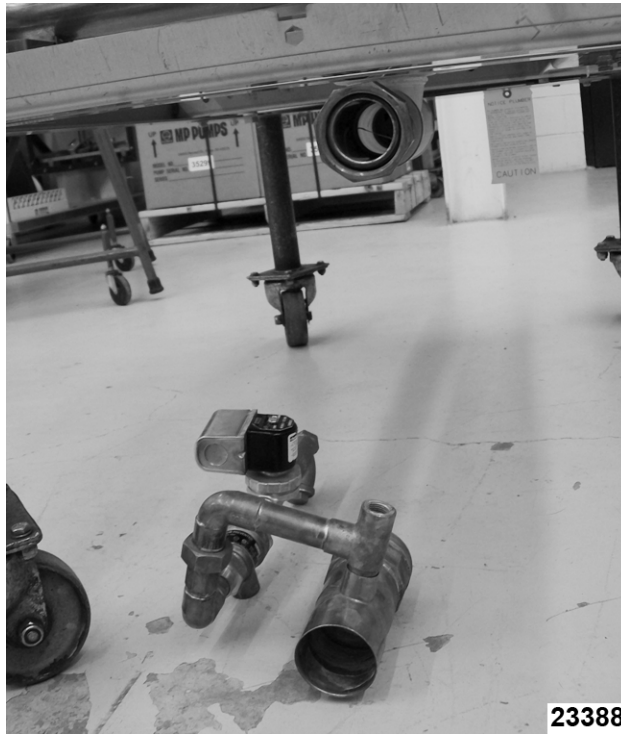
- FT
 - Remove the front trim panel
 - Insuring the thermostat capillary and solenoid cable can easily reach the drain without being stressed, mount the Control Box Assy on the machine frame close to the drain location (using included nuts, washers, and bolts).

NOTE: New holes may need to be drilled for this.

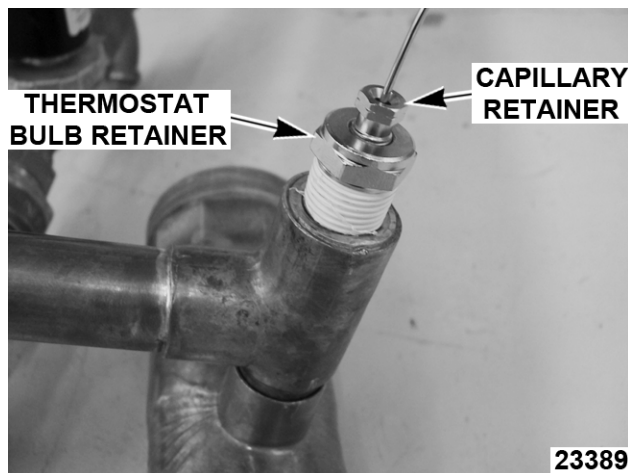
- UW50
 - Remove the rear and side lower trim panels
 - Attach the Control Box to back leg of the machine (using included nuts, washers, and bolts)



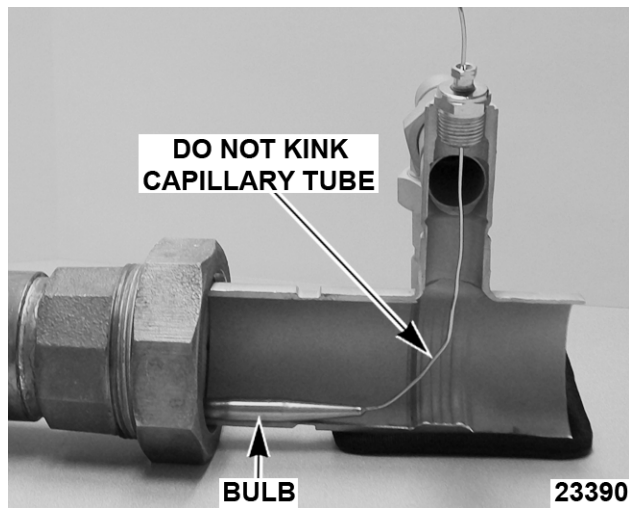
9. Remove the Wire Tie from the Thermostat Capillary
10. Roughly locate the Drain Pipe Assy (soldered to the Cold Water Pipe Assy) under the machine. DO NOT REASSEMBLE THE 2" UNION.



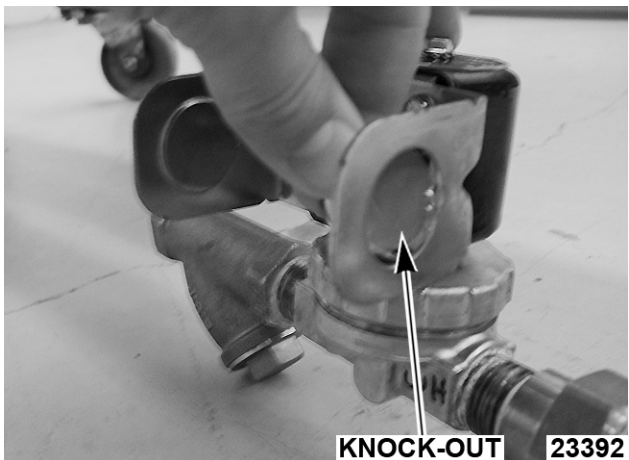
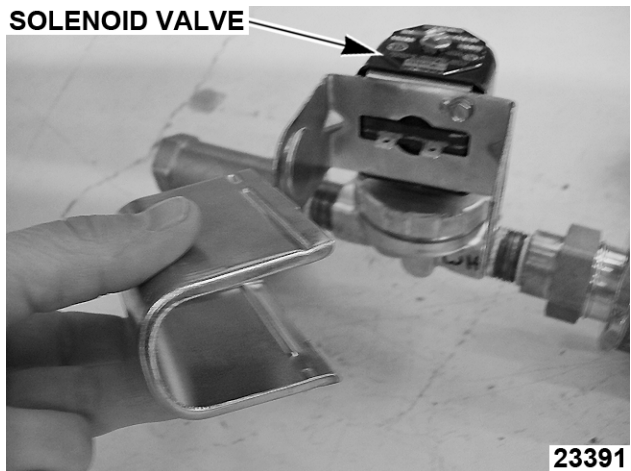
11. Apply Thread Tape or Thread Sealant (not included) to the male threads on the Thermostat Bulb Retainer.
12. Taking notice of the routing – carefully uncoil the thermostat capillary tube and insert the thermostat bulb into the Cold Water Pipe Assy.



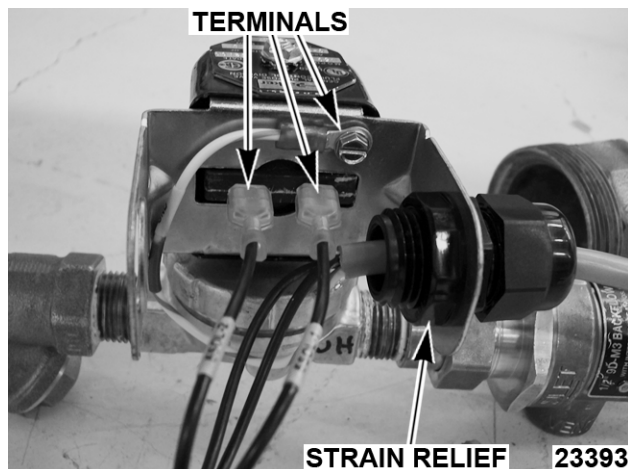
13. Thread the Thermostat Bulb Retainer into the Flush Bushing of the Cold Water Pipe Assy. Tighten, but not to stress the components.
14. Reaching into the 2" pipe, route the Thermostat Bulb through the $\frac{3}{4}$ " vertical pipe and down into the 2" horizontal pipe. The Bulb of the Thermostat must lay flat on the bottom of the 2" Drain Pipe and be pointed towards the machine.



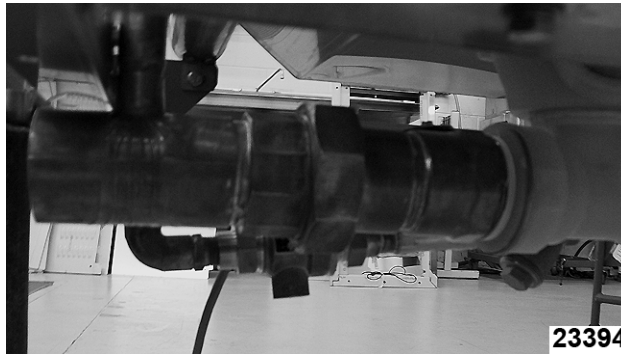
15. Once the bulb is properly oriented, tighten the Capillary Retainer.
16. Remove the cover of the Solenoid Valve.
17. Remove the appropriate knock-out of the Solenoid Valve.



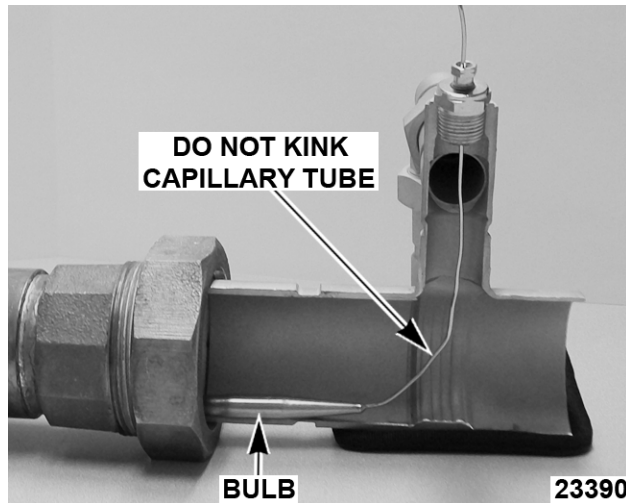
18. Remove the Wire Tie from the Solenoid Valve Cable (connected to Base Plate Assy on CLe or Control Box Assy on FT and UW50)
19. Taking notice of the wire routing – Attach the Strain Relief from the Solenoid Valve Cable to the Solenoid Valve (where knock-out has been removed). Make sure the Strain Relief is fully tightened to the cable and to the Solenoid.



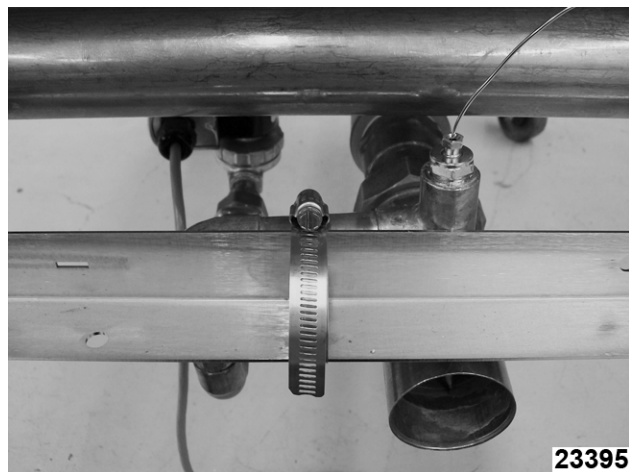
20. Attach the two quick connect terminals and the one ring terminal. Attach the Solenoid Valve Cover.
21. Assemble the 2" Union to reconnect the two components of the Drain Pipe Assy.



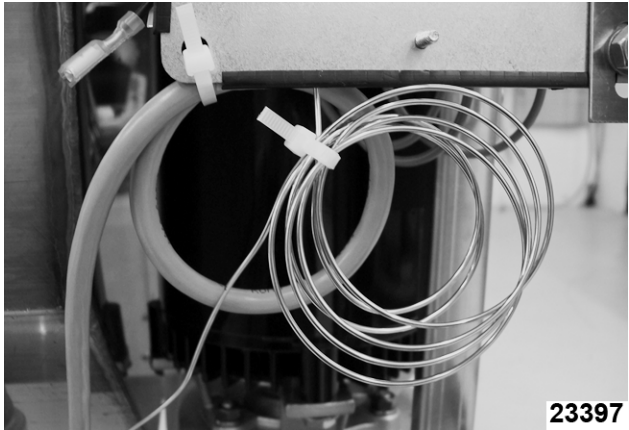
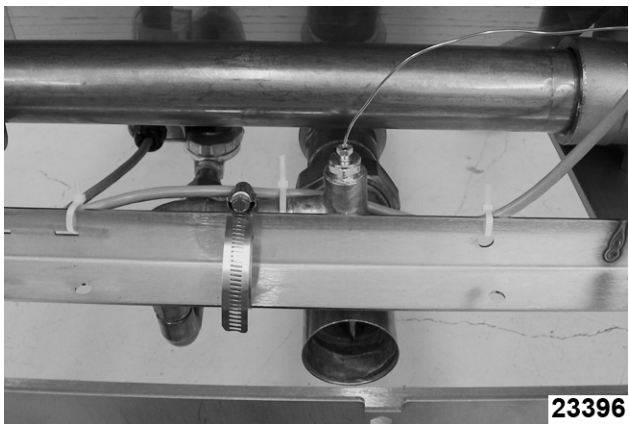
- Take note that the THERMOSTAT BULB IS HORIZONTAL, POINTED TOWARDS THE MACHINE DRAIN, AND TOUCHING THE BOTTOM OF THE 2" DRAIN PIPE.



22. Use the hose clamps to fasten the new installed piping to the frame of the dishwasher – this is to remove the added weight from the drain body of the machine.

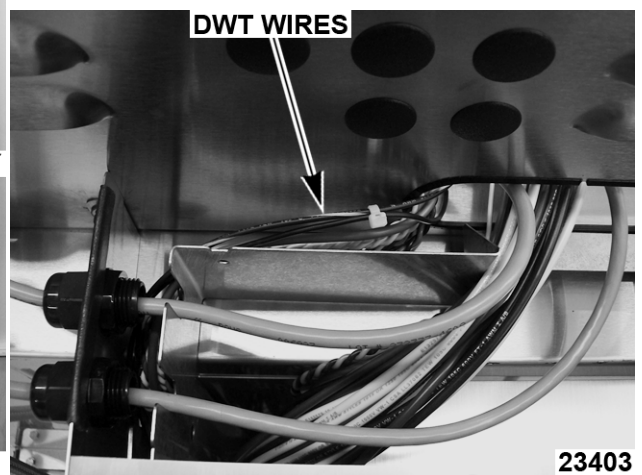
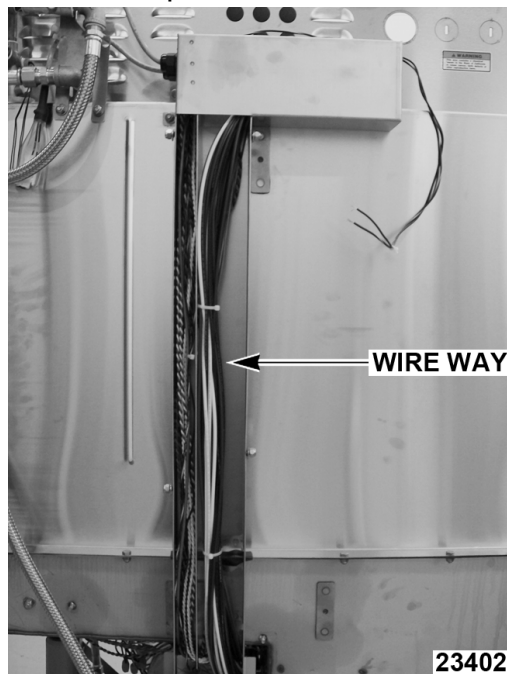


23. ROUTE and SECURE the Capillary Tube of the Thermostat and the Solenoid Valve Cable to the machine using Wire Ties (included). Any additional Capillary or Cable length should be carefully coiled and wire tied at the Base Plate Assy (CLe) or Control Box Assy (FT and UW50), where it will not be damaged. Do not place excess capillary tubing inside the control box.

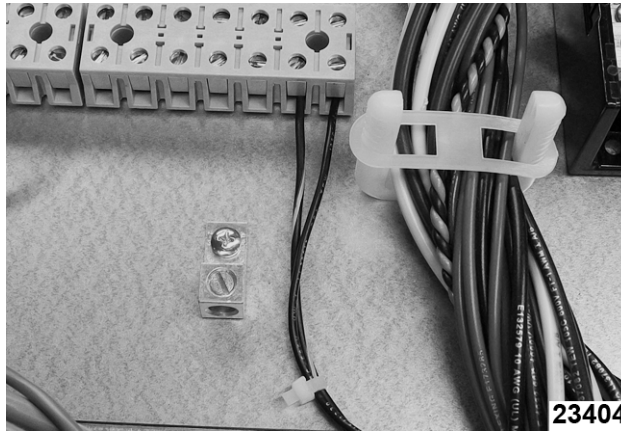


24. Connect the wiring to the main control box.

- CLe
 - Remove the two Wire Way Covers at the back of the machine
 - Remove the Main Control Box Cover on top of the machine
 - Route the Harness with wires labeled DWT1 and DWT2 to the Wire Way, through the Wire Way and into the Control Box. Be sure to stay in the track with the twisted pair wires.



- Connect the wire labeled DWT1 to the Terminal labeled DWT1
- Connect the wire labeled DWT2 to the Terminal labeled DWT2



- Replace the Main Control Box Cover
- Replace the two Wire Way Covers

- FT

- Remove the Main Control Box Cover
- Route the FT Control Cable with wires labeled DWT1 and DWT2 to the Control Box.

NOTE: If DWT1 and DWT2 do not exist in FT control box an external 120V power source must be run to DWT control box.

- Attach to FT Control Cable with DWT1 and DWT2 and insert into the control box
- Connect the wire labeled DWT1 to the Terminal labeled DWT1
- Connect the wire labeled DWT2 to the Terminal labeled DWT2
- Replace the Main Control Box Cover

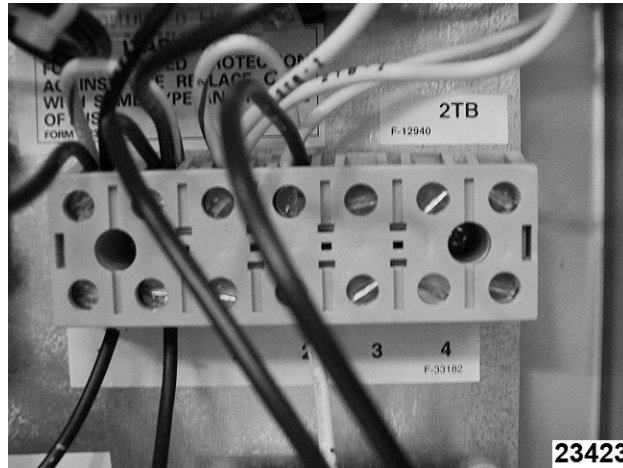
- UW50

- Remove the Main Control Box Cover



- Open the DWT-UW Control Box Cover
- Route the UW50 Control Cable with wires labeled 1FU-1SS and 2TB-2 to the Wire Way, along the Wire Way, and into the Control Box

- Remove the plug in the bottom of the Control Box to insert the Strain Relief and Wires.
- Connect the wire labeled 1FU-1SS to the Terminal labeled 1FU-1SS
- Connect the wire labeled 2TB-2 to the Terminal labeled 2TB-2



- Tighten Strain Relief.
- Replace the Main Control Box Cover

25. Make sure all Trim Panels have been replaced and properly secured

26. Note that the Backflow Preventer has a vent and may require piping

27. The incoming cold water line is to be connected to the strainer at the end of the Cold Water Piping

28. For optimized performance insert a pressure regulator valve in the incoming cold water line.

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