

LX/LXi, LXG/LXiG, AND SR24H DISHWASHERS DWT2 DRAIN WATER TEMPERING KIT ML-130137

All kits must be installed by a Hobart Service Technician.

The Drain Water Tempering Kit reduces the temperature of drain water exiting an LX/LXi, LXG/LXiG, and SR24H dishwashers by adding cold water to the drain water. The Drain Water Tempering Kit valve opens as the LX/LXi, LXG/LXiG, and SR24H dishwasher drains and automatically adds cold water to the drain water.

NOTE: To make this a successful installation, the cold water line (45° F to 70° F [7° C to 21° C]) must be within 3' of the rear of the dishwasher. Recommended water service rough in is 1/2" trade size pipe (minimal) with shutoff valve and 1/2" MPT connection.

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

DWT-2 DRAIN WATER TEMPERING KIT (COMPLETE) ML-130137-Z		
Part No.	Description	Qty.
FP-22-12	Union, Pipe, 1/2" Straight	1
FP-40-42	Pipe, 1/2" x 1.125", Nipple	5
118038-2	1/2" Brass Regulator	1
918429	Gage, Pressure, Water	1
FP-27-07	Bushing, Pipe 1/2" to 1/4"	1
FP-019-21	Tee, Pipe 1/2" x 1/2" x 1/2"	1
270258	Strainer, Line, 1/2" Brass	1
435968-1	Valve, Solenoid, 1/2"	1
919862	Harness, DWT2, Cold Water Valve	1
223472	Backflow Preventer	1
918212	Fill Hose	1
FP-87-32	Hose, Fitting, 5/8" GHT x 3/4" MPT	1
FP-87-31	Hose, Fitting, 5/8" ID Barbed x 3/4" MPT	1
FP-90-89	Brass Wye, 3/4" x 3/4" x 3/4"	1
FP-41-50	Pipe, 3/4" x 1.375"	1
00-919275	Wiring Harness, LXI Pump Drain	1
00-919276	Wiring Harness, LX Sol Drain	1
00-814267	Harness, DWT, SR-24, Sol Drain	1
00-814290	Mounting Bracket Assy, SR24, DWT (SR24H Only)	1
919277	DWT2 Service Cover	1
FE-23-67	Strain Relief	1
FE-24-57	Connector Conduit 1/2"	2
543430	Electrical Conduit	6'
OF 044097-1	Wiring Diagram Solenoid Drain	1
OF 044097-2	Wiring Diagram Drain Pump	1
OF 033179	Diagram, Electrical DWT Kit (SR24H Only)	1
OF 025230	Instructions	1
113703	Wire Tie (SR24H Only)	2
SD-8-25	#10 Screw (SR24H Only)	1

Installation (LX/LXi and LXG/LXiG)

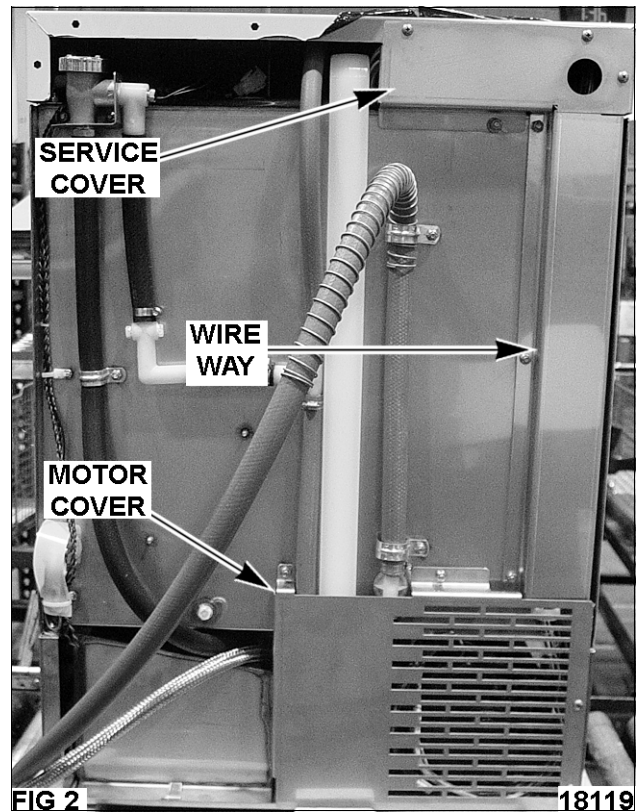


WARNING: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

1. Remove unit from wall to provide access to components.
2. Remove Base Cover from front of unit per Fig 1.

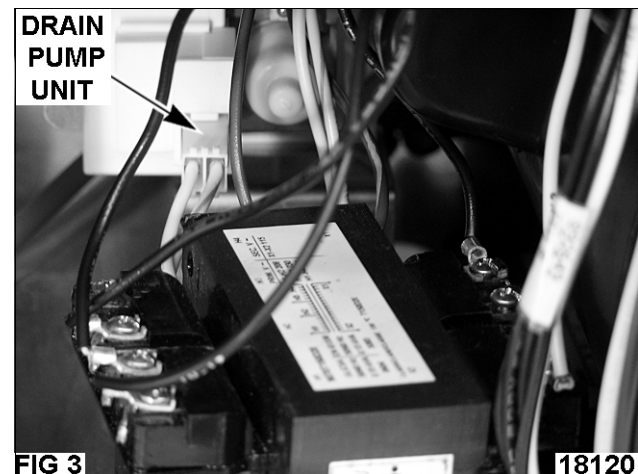


3. Remove Service Cover, Wire Way and Motor Cover from rear of unit per Fig 2.



NOTE: This kit is for all LX/ LXi and LXG/LXiG dishwashers. Machines with serial numbers between 23-1083-999 and 23-1084-003 and starting with serial number 23-1085-462 and higher have a drain pump. Machines with lower serial numbers utilize a drain solenoid valve. Identify machine type and select correct wiring harness from kit.

NOTE: For drain pump machines use harness 919275. For solenoid machines use wiring harness 919276.





Plumbing Connection

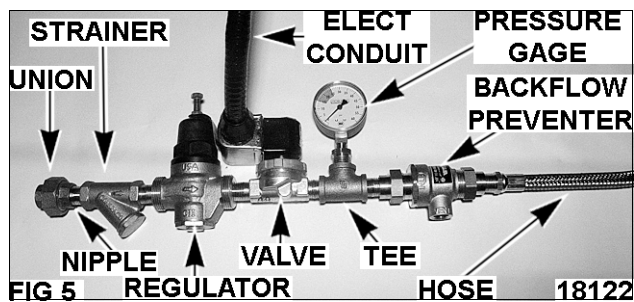
WARNING: PLUMBING CONNECTIONS MUST COMPLY WITH APPLICABLE SANITARY, SAFETY AND PLUMBING CODES.

The plumber who connects this machine is responsible for making certain the water lines are thoroughly flushed out before connecting to any manual valve or solenoid valve. This "flush-out" is necessary to remove all foreign matter such as: chips (resulting from cutting or threading of pipes), pipe joint compound from the lines, or if soldered fittings are used, bits of solder or cuttings from the tubing.

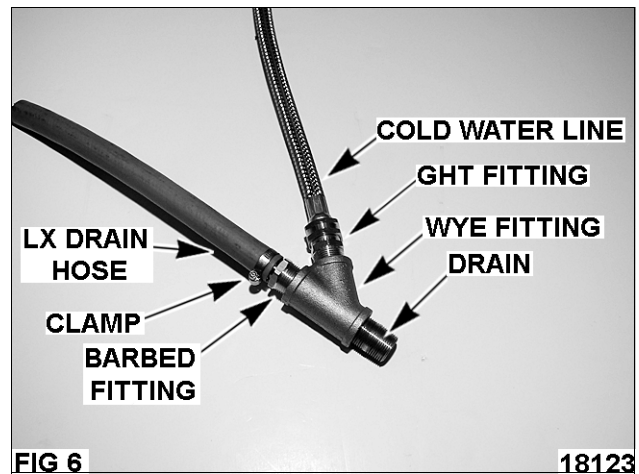
Debris, if not removed, may lodge in the valves and render them inoperative. Manual valves or solenoid valves fouled by foreign matter and any expenses resulting from this fouling are NOT the responsibility of the manufacturer.

NOTE: Use preferred type of pipe sealant on all threaded plumbing connections.

1. Assemble drain tempering plumbing to the cold water line per Fig 5. Connect cold water (45° F to 70° F [7° C to 21° C]) to the 1/2" NPT union fitting.



2. Assemble drain tempering plumbing to the end of the LX/LXG Dishwasher drain hose per Fig 6.



Electrical Connections

WARNING: ELECTRICAL AND GROUNDING CONNECTIONS MUST COMPLY WITH THE APPLICABLE PORTIONS OF THE NATIONAL ELECTRICAL CODE AND / OR OTHER LOCAL ELECTRICAL CODES.

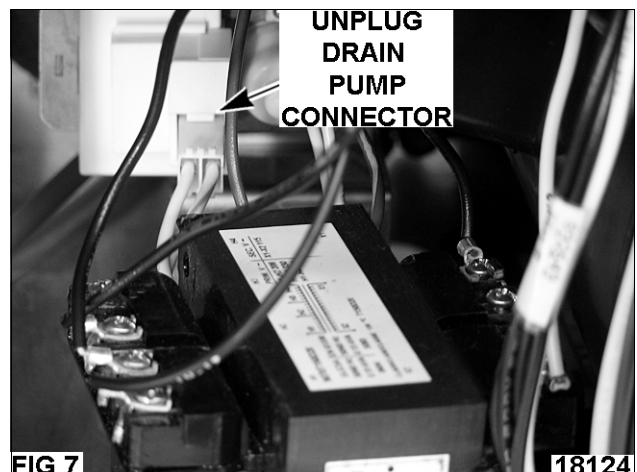


WARNING: DISCONNECT THE ELECTRICAL POWER TO THE MACHINE AND FOLLOW LOCKOUT / TAGOUT PROCEDURES.

NOTE: Machines ranging in serial number between 23-1083-999 and 23-1084-003 and starting with Serial No. 23-1085-462 and higher have a drain pump. Machines with lower serial numbers utilize a drain solenoid valve. Identify machine and select correct wiring harness.

NOTE: Both wiring harnesses are in kit. (919275 Pump Drain and 919276 Solenoid Drain)

1. Identify drain system electrical connector and unplug it.



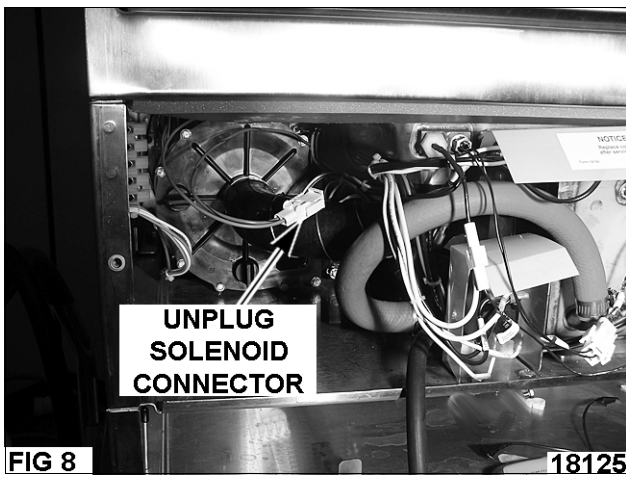


FIG 8 18125

2. Route wiring harness per Fig 9, Fig 10, and Fig 11. Route wiring harness in a manner to ensure it is not lying on the bottom of the dishwasher per Fig 9. Make sure ground wire from harness is connected to grounding point on dishwasher per Fig 11.

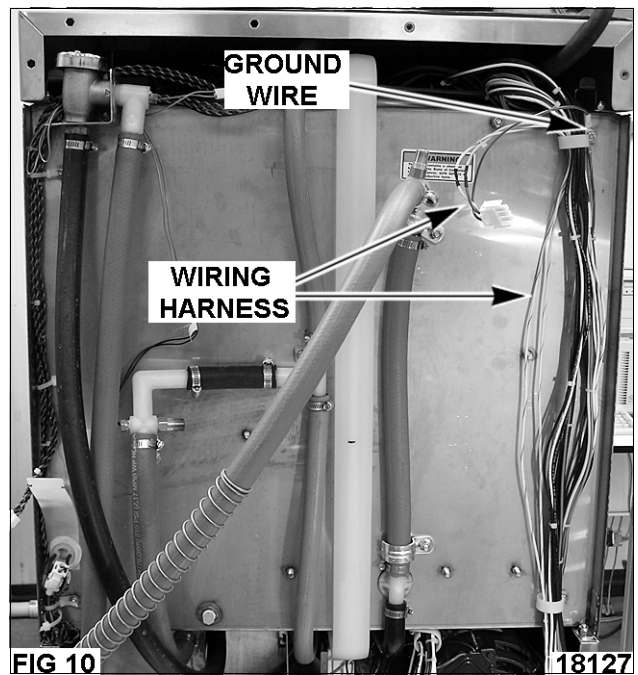


FIG 10 18127

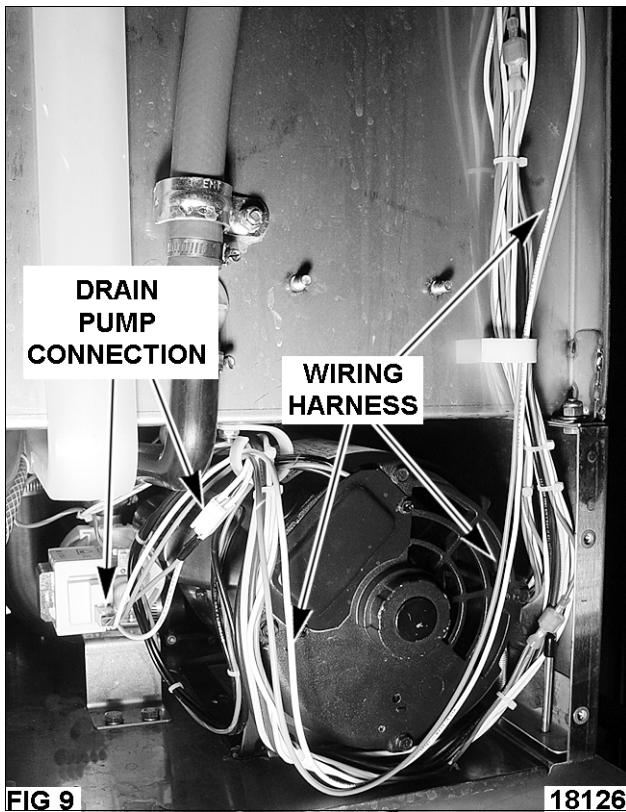


FIG 9 18126

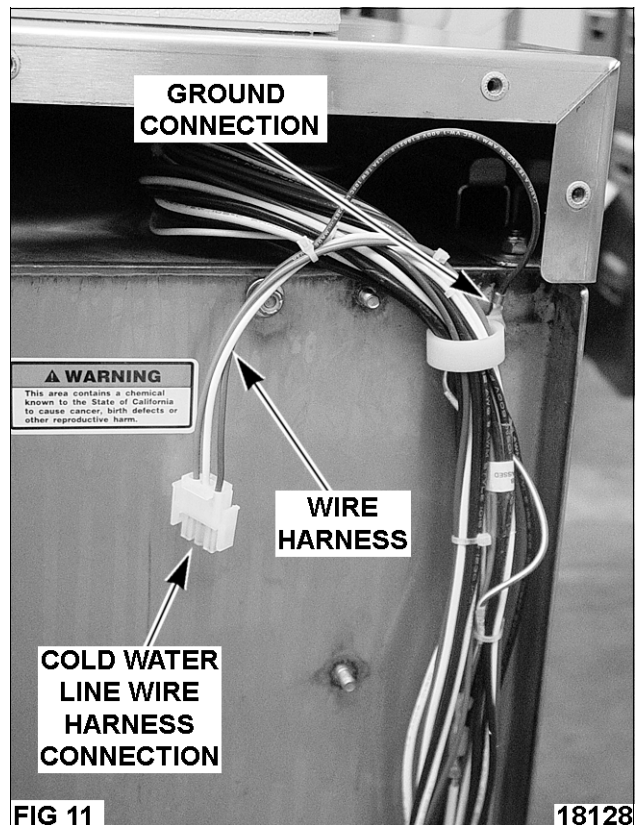


FIG 11 18128

3. Make drain system connections with wiring harness per Fig 12 (Pump Drain) or Fig 13 (Solenoid Drain).

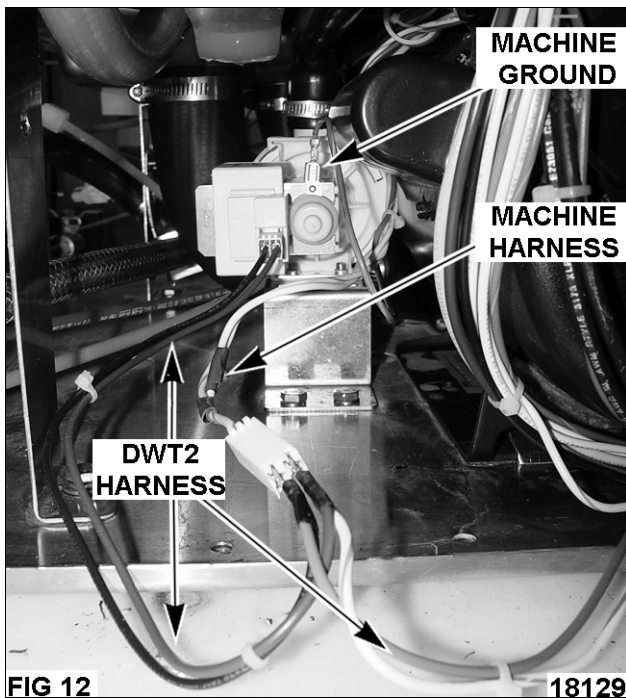


FIG 12 18129

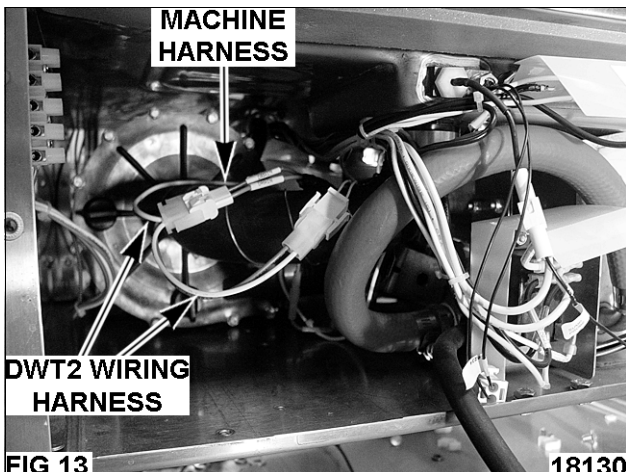


FIG 13 18130

4. Replace existing service cover with one supplied in kit (919277). The power cord will have to be disconnected from the contactor in the control drawer to replace the existing service cover. Assemble the electrical conduit connector to the service cover per Fig 14.
5. Attach electrical conduit to connector and run cold water valve wire harness (919862) through conduit per Fig 14. Make wiring harness connection per Fig 14. Replace valve cover. Attach service cover to dishwasher after all connections have been completed.

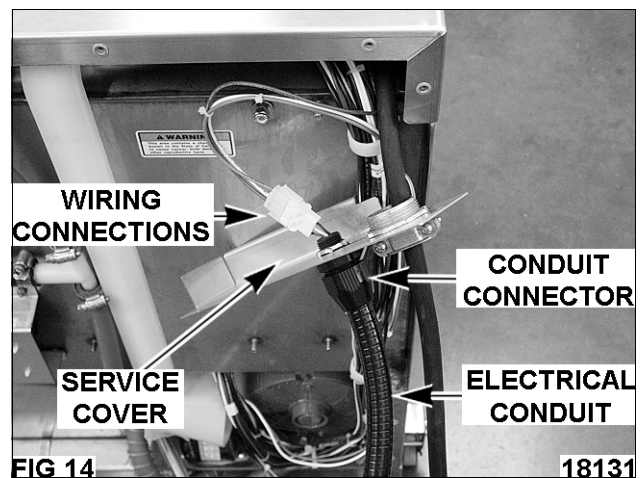


FIG 14 18131

6. Make the electrical connections on the cold water valve per Fig 15. Use one of the knock outs on the valve cover to install the electrical conduit connector. Run the cold water valve wire harness (919862) through the connector and install the electrical conduit to the conduit connector.

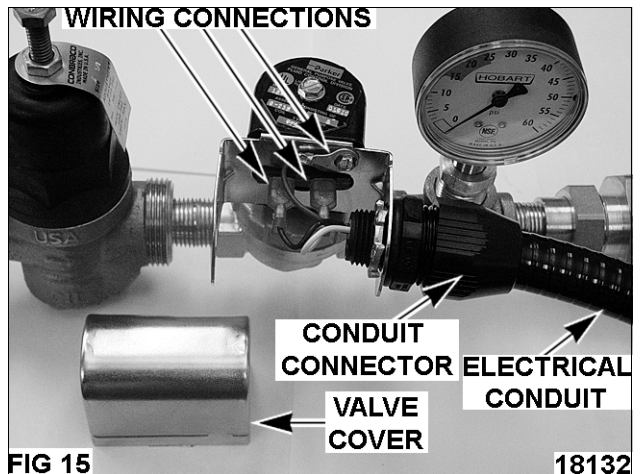


FIG 15 18132

7. Reinstall motor cover, wire way and base cover to unit after all electrical connections are made.
8. Dress valve electrical conduit so it will not sustain damage when the machine is moved for service or cleaning.
9. Locate existing wiring diagram on dishwasher unit. Locate P1-4 and 2TB-N on diagram.

For Solenoid Drain Units - apply wiring label F-44097-1 from kit to existing diagram between P1-4 and 2TB-N.

For Drain Pump Units - apply wiring label F-44097-2 from kit to existing diagram between P1-4 and 2TB-N.

Operation

1. Make sure cold water supply line valve is open and pressure gage is set to 15 psi flowing, for a drain pump machine or 20 psi flowing for a drain solenoid machine.
2. Check for and correct any plumbing leaks.
3. Check water and drain hoses for kinks which could hinder operation of the Drain Water Tempering Kit or dishwasher.
4. Check unit for proper operation of Drain Water Tempering Kit.
5. Adjust regulator on cold water line for acceptable temperatures per local code.

INSTALLATION (SR24H ONLY)

Plumbing Connection

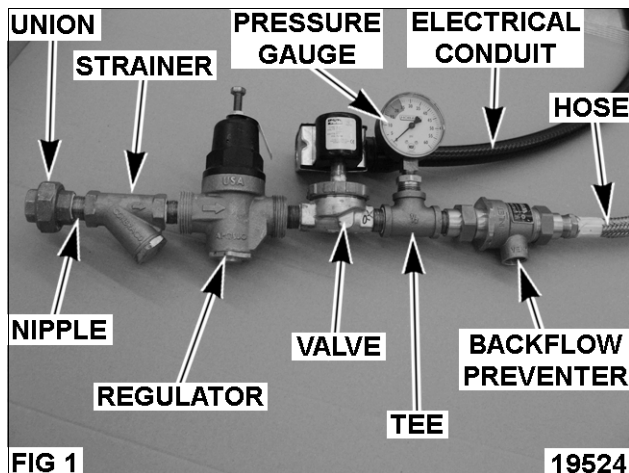
WARNING: PLUMBING CONNECTIONS MUST COMPLY WITH APPLICABLE SANITARY, SAFETY AND PLUMBING CODES.

The plumber who connects this machine is responsible for making certain the water lines are thoroughly flushed out before connecting to any manual valve or solenoid valve. This "flush-out" is necessary to remove all foreign matter such as: chips (resulting from cutting or threading of pipes), pipe joint compound from the lines, or if soldered fittings are used, bits of solder or cuttings from the tubing.

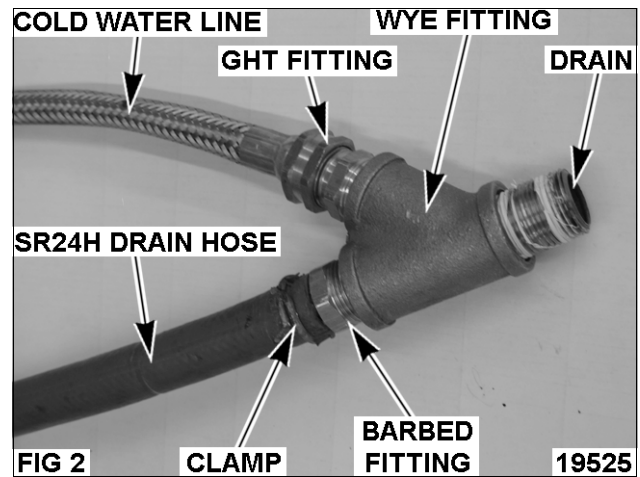
Debris, if not removed, may lodge in the valves and render them inoperative. Manual valves or solenoid valves fouled by foreign matter and any expenses resulting from this fouling are NOT the responsibility of the manufacturer.

NOTE: Use preferred type of pipe sealant on all threaded plumbing connections.

1. Assemble drain tempering plumbing to the cold water line per Fig 1. Connect cold water (45° F to 70° F [7° C to 21° C]) to the 1/2" NPT union fitting.



2. Assemble drain tempering plumbing to the end of the SR24H Dishwasher drain hose per Fig. 2.

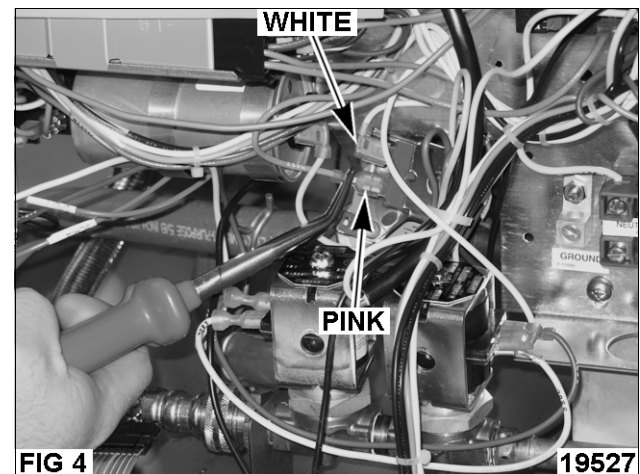


Electrical Connections



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

1. Provide access to electrical components and rear of machine.
2. Remove Base Cover from front of unit.
3. Pull out two lead wires (pink and white) marked 2 SOL from drain solenoid as shown in Fig. 4.



4. Hook up the 2 removed wires to two wires marked as 2 SOL in wiring harness 814267. (Pink to pink, white to white) per Fig. 5.

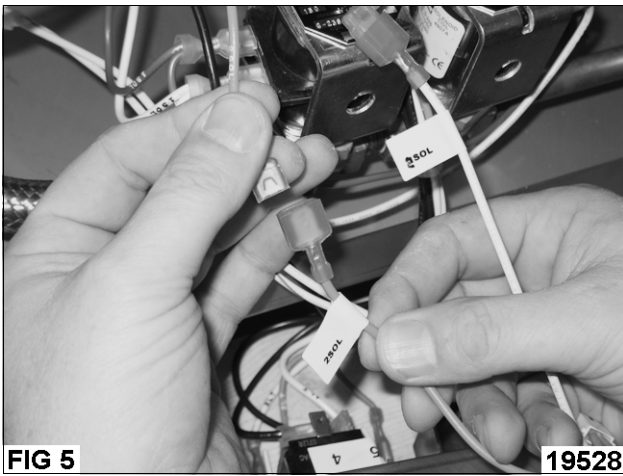


FIG 5 19528

5. Connect the other two wires marked as Drain1 and Drain2 in harness 814267 to drain solenoid valve as shown in Fig. 6.

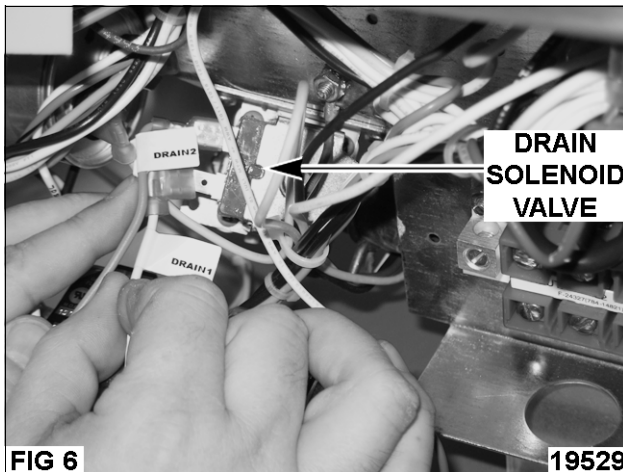


FIG 6 19529

6. Route the wire harness to the rear of the machine along the left side wall.
7. Use a wire tie to bind the wiring harness to the red float switch wires to ensure it is not lying on the bottom of the dishwasher per Fig. 7.

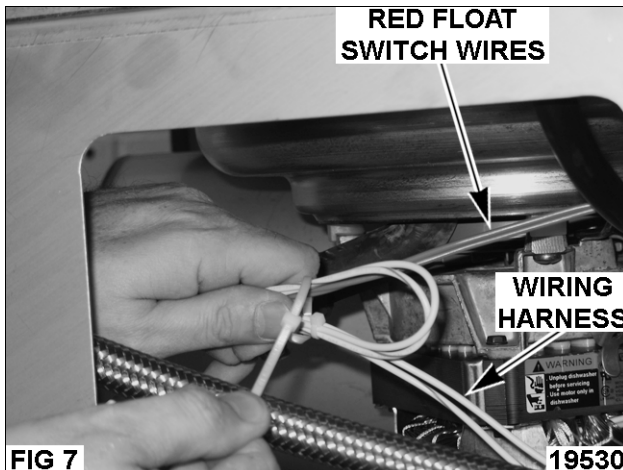


FIG 7 19530

8. Assemble the electrical conduit connector to the strain relief bracket. Attach electrical conduit to connector, run cold water valve wire harness (919862) through conduit per Fig. 8.

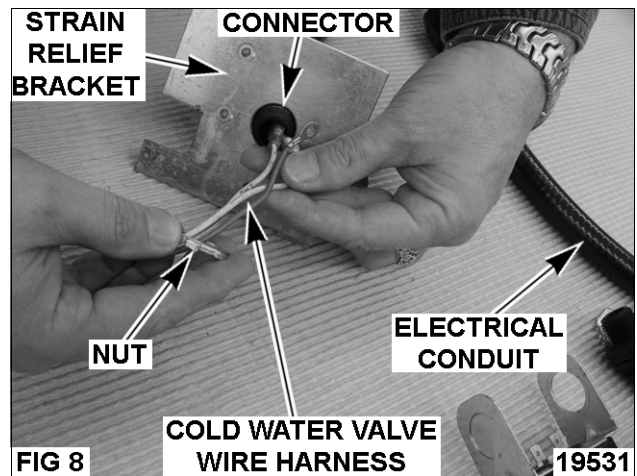


FIG 8 19531

9. Install the strain relief at other end of electrical conduit per Fig. 9.

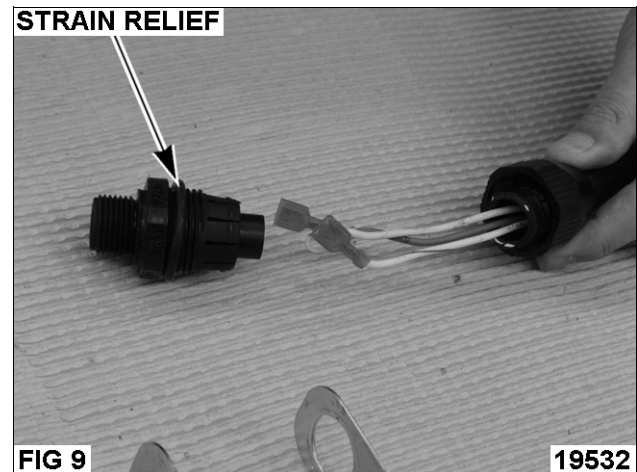


FIG 9 19532

10. Use one of the knock outs on the valve cover to install the electrical conduit connector. Run the cold water valve wire harness (919862) through the connector and install the electrical conduit to the conduit connector per Fig.10.

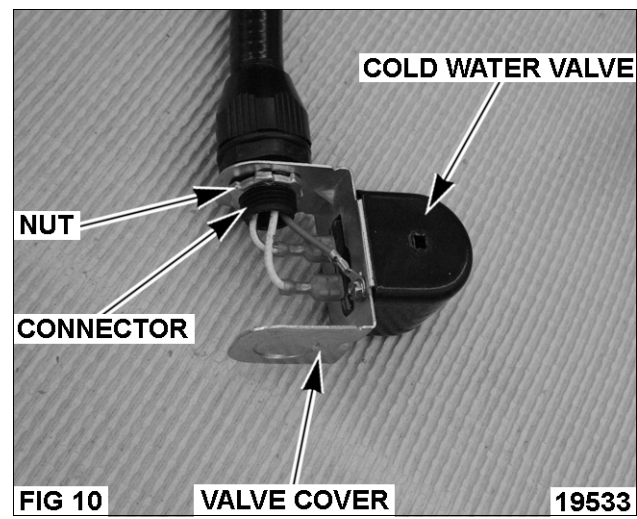
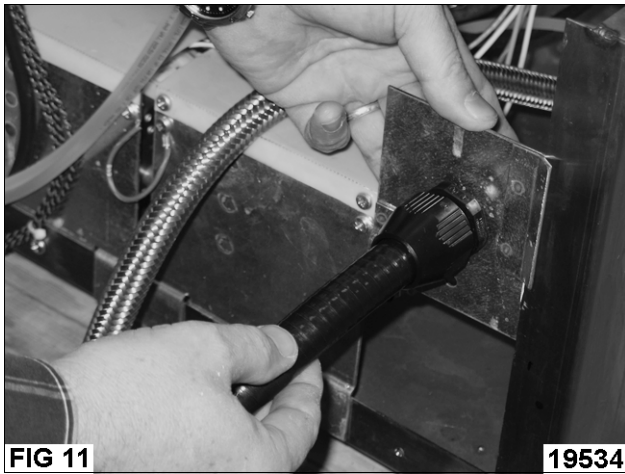


FIG 10 19533

11. Attach cold water valve wire harness to cold water valve as shown in Fig. 10.

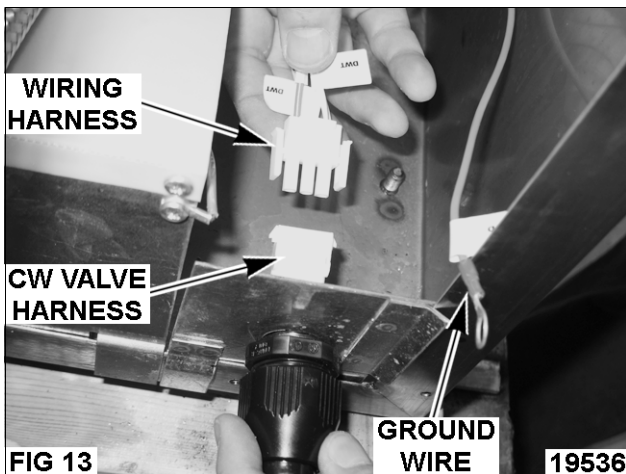
- Slide strain relief bracket into the panel per Fig. 11.



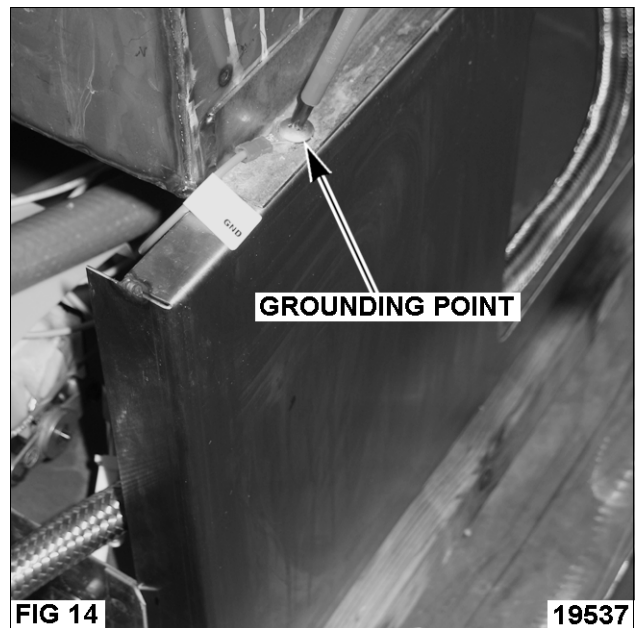
- Attach the strain relief bracket to dishwasher with a #10 screw per Fig. 12.



- Make DWT2 cold water valve harness (919862) connections with wiring harness (814267) per Fig. 13.



- Connect harness ground wire to grounding point on base of dishwasher per Fig. 14.



NOTE: Dress valve electrical conduit so it will not sustain damage when the machine is moved for service or cleaning.

- Locate existing wiring diagram on dishwasher unit. Locate 1P-7 and 2TB-N on diagram. Apply wiring label F-33179 from kit to existing diagram between 1P-7 and 2TB-N.

Operation

- Make sure cold water supply line valve is open and pressure gage is set to 20 psi flowing for this drain water tempering kit.
- Check for and correct any plumbing leaks.
- Check water and drain hoses for kinks which could hinder operation of the Drain Water Tempering Kit or dishwasher.
- Check unit for proper operation of Drain Water Tempering Kit.
- Adjust regulator on cold water line for acceptable temperatures per local code.