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Models : DH2000 and MD2000

# Field Installation Instructions for Drain Tempering Kit

## Part No. 900923



**WARNING:**

Electrocution or serious injury may result when working on an energized circuit.

Disconnect power at the main breaker or service disconnect switch before working on the circuit.

Lock-out and tag the breaker to indicate that work is being performed on the circuit.

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## Introduction:

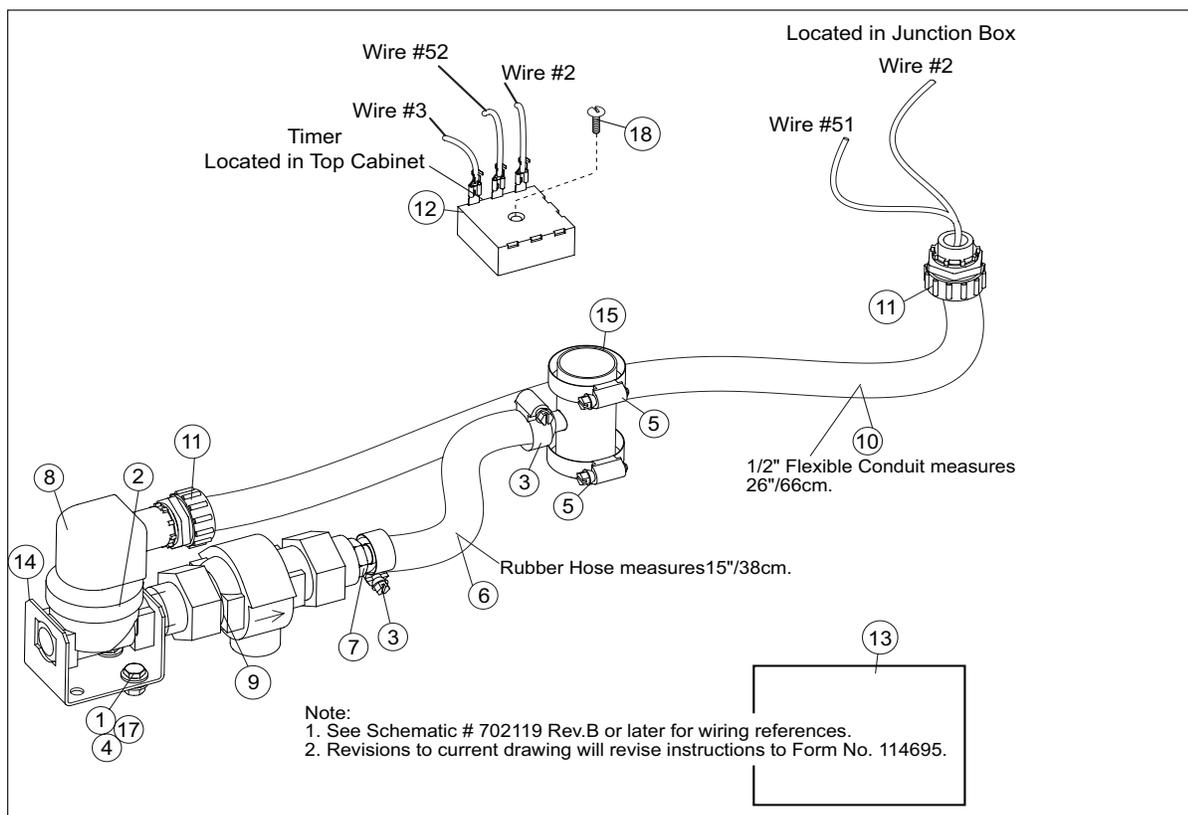
The drain water tempering kit is designed to inject cold water into the dishwasher drain water effluent to ensure that the temperature of the water leaving the dishwasher drain and/or overflow does not exceed a temperature of 140°F/60°C. This operation is most often required by the local plumbing and sanitary codes of the location.

The following instructions describe how to perform a field installation of the drain water tempering kit provided by the manufacturer of the Champion Model DH2000 and the Champion-Moyer Diebel Model MD2000.

## Kit Components:

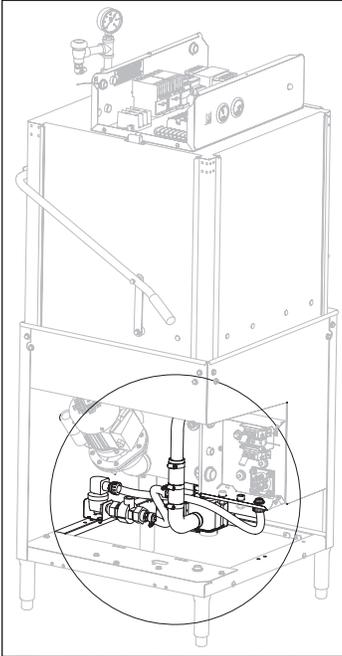
The Drain Water Tempering Kit P/N 900923 may be installed at the factory or shipped as a separate part to be installed at the installation site. Refer to the parts list below to ensure all the parts necessary for the installation are available. Refer to the parts list and illustration below.

Item No.	Part No.	Description	Qty.
1	100734	BOLT, HEX HD. 1/4-20 X 1/2" SST	2
2	100209	NIPPLE, 1/2" npt X CLOSE BRASS	1
3	105994	CLAMP, HOSE, M10, 14/27 SST, GEAR-TYPE	2
4	106026	WASHER, FLAT 1/4", SST	2
5	107340	CLAMP, HOSE M28, SST, GEAR-TYPE	2
6	107417	1/2" 1.D RUBBER RE-INFORCED, 15"/38cm	1
7	107419	BARB, HOSE ST., 1/2" NPT X 1/2" HOSE, BRASS	1
8	109886	VALVE, SOLENOID, 1.2" NPT 120VAC COIL	1
--	109902	KIT, VALVE REPAIR	A/R
--	108516	COIL, SOLENOID 120VAC	A/R
9	110551	BACKFLOW, PREVENTER, 1/2" NPT BRONZE	1
10	110834	CONDUIT, 1/2", SEALTITE BLACK 26"/66"/66cm	1
11	110836	FITTING, STRAIGHT, 1/2" SEALTITE	1
12	114662	TIMER, INFITEC 30 SECOND	1
13	114695	INSTALLATION INSTRUCTIONS	1
14	0312146	BRACKET, VALVE FWR	1
15	333280	TEE, WELDMENT, 1-3/8" X 1/2" BARB X 1-3/8"	1
16	106482	WASHER, LOCK SPLIT 1/4" SST	2
17	100003	NUT, PLAIN 1/4-20 SST	2
18	107564	SCREW, 6-32 X 1" TRUSS HD. SST	1



## Conversion Installation:

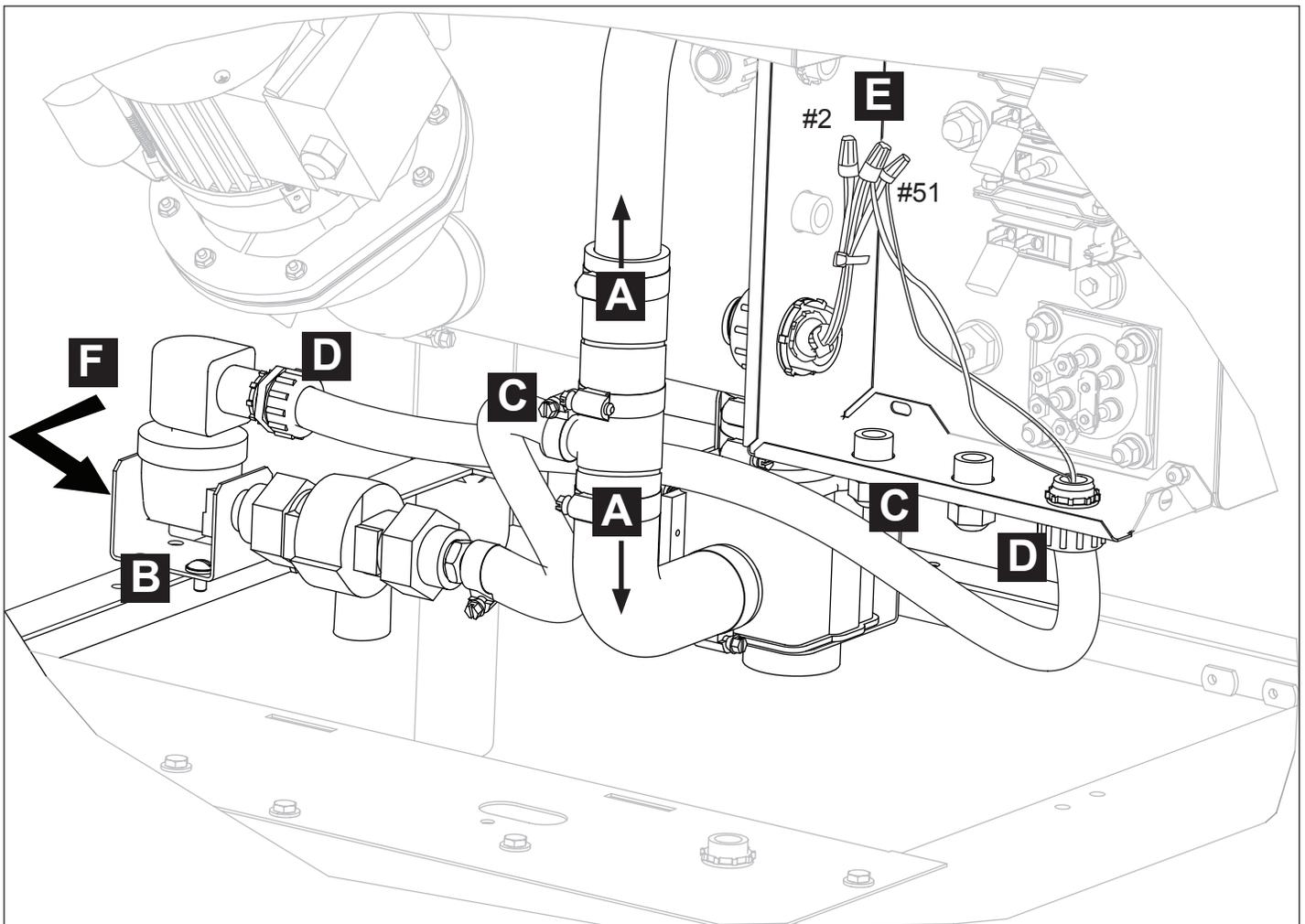
Follow the lettered steps (A, B, C, D, E, F) to make the installation easier.



The kit is installed on the base of the machine.

- A. Remove the existing hose connected on the overflow tube. Cut the hose in half. Install the Tee fitting with the Tee facing the solenoid. Slide the hoses in place and tighten.
- B. Install the solenoid bracket to the base of the machine in the holes provided. Use 1/4-20 bolts and mounting hardware.
- C. Connect the 1/2" rubber hose to the Tee that was installed in the overflow.
- D. Thread the solenoid wires through the sealite tubing so they extend into the junction box.
- E. Wire nut the #2 wire and the #51 wire in the existing wire nut connectors. Close the junction box.
- F. Connect a 1/2" cold water line to the inlet of the solenoid valve. Install a pressure regulating valve (PRV) before the solenoid in order to adjust the cold water pressure to 20-25 PSI/137.8-172.4 kPa flowing pressure. Install a 1/2" or larger valve before the PRV for servicing.

Refer to the next page for the electrical connections in the Top Cabinet.



Refer to the next page for the electrical connections that are made in the Top Cabinet to complete the Conversion Installation



**WARNING:**

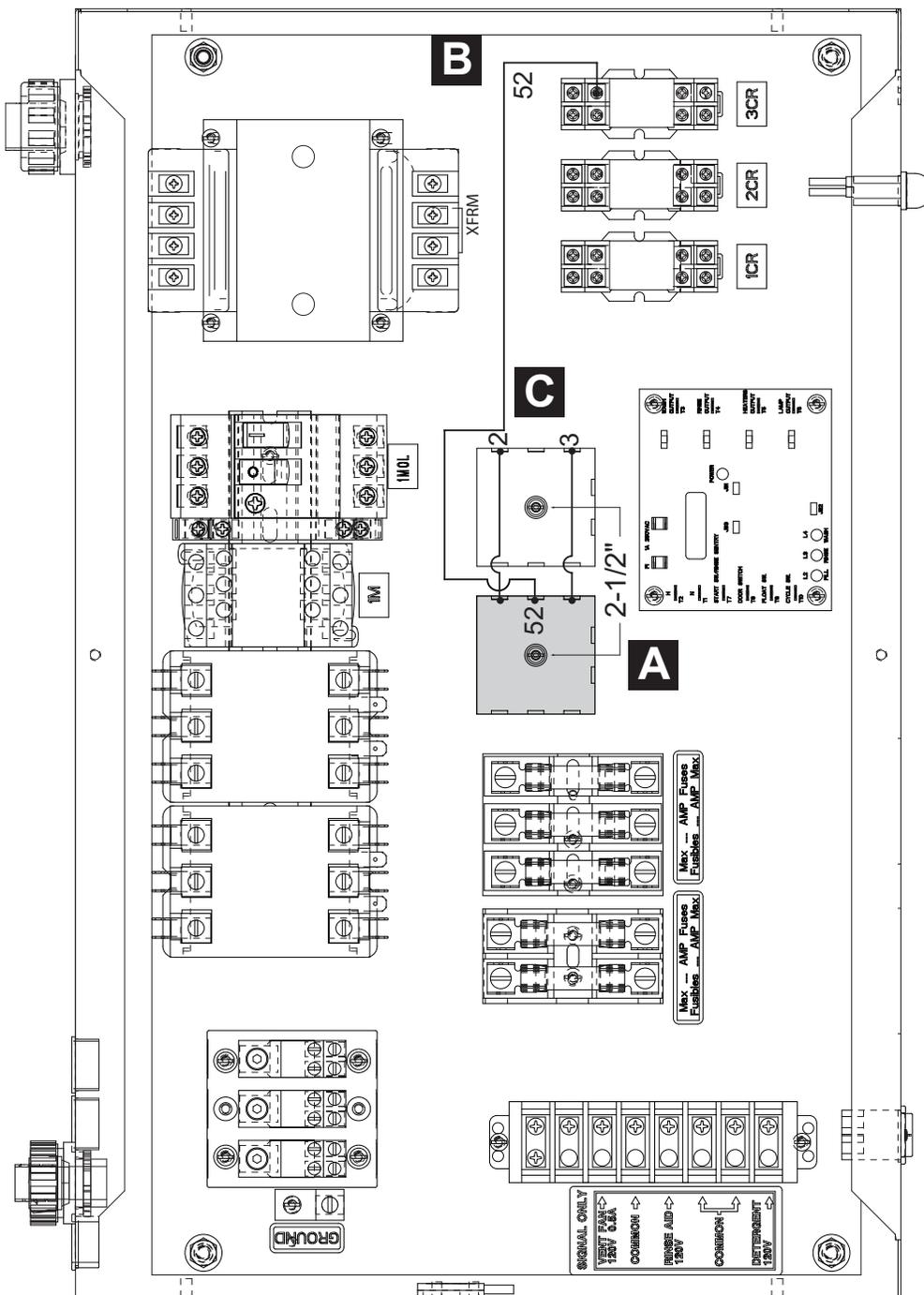
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Lock-out and tag the breaker to indicate that work is being performed on the circuit.

**Top Cabinet Electrical Installation:**

Follow the lettered steps (A, B, C) to make the installation.



**CAUTION:**

Make sure main power to the machine is disconnected to the machine before performing any work.

- A. Mount the new timer to the base of the cabinet using the 6-32 x 1" Truss Hd. screw as shown.
- B. Connect the wire #52 contained in the kit from the terminal on the timer to relay 3CR as shown.
- C. Install a jumper wire from terminals #2 and #3 as shown.
- D. Replace the cover.

**Test Operation:**

1. Turn main power and water supplies to the machine.
2. Turn the dishwasher power switch ON. The machine will fill and the tempering solenoid valve will open, then close when the machine is full.
3. The tempering valve should open during the final rinse then close.
4. Drain the dishwasher. The tempering valve should open for 30-seconds and then close.