# Champion®

### **Installation Manual**



## **M2 SERIES**

### Models: DH6000T-VHR DH6000T

Tall hot water sanitizing machine w/fresh water rinse and built-in stainless steel electric booster, Optional Ventless Heat Recovery

### DH6000-VHR DH6000

Standard height hot water sanitizing machine w/ fresh water rinse and built-in stainless steel electric booster, optional Ventless Heat Recovery

Issue Date: 11.20.23

Manual P/N 117471 rev. E

For machines beginning with S/N D22042134 and above



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#### ATTENTION

<u>The machine data plate</u> <u>is located at the right front corner</u> <u>of the front panel.</u>





CAUTION: ONLY A NON-CHLORINATED COMMERCIAL DISHWASHING CHEMICAL SHALL BE USED IN THIS DISH WASHER.

### Three ways to REGISTER YOUR PRODUCT and ACTIVATE YOUR WARRANTY.



• Use your mobile device and connect to the website www.championindustries.com to register your product

or

• Scan the QR code http://champdw.us/DHM2 located on the lower front panel of the machine.

or

• Complete the fax form on the next page and fax to 1(800) 661-1660.

# PRODUCT REGISTRATION BY FAX

### **COMPLETE THIS FORM AND FAX TO:**

(336) 661-1660 in the USA

1-(800) 204-0109 in Canada

Model	Serial #		
Date of Installation:/ /			
Company Name:			
Address:	(Straat)	Stato/Province	- Zin/Postal Cod
Telephone #: (  )		State/Frowince	Zip/FOSial Cou
Contact:			
Installation Company:			
Address:			
Telephone #:			
Contact:			
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### **Revision History**

Due to an ongoing value analysis program at Champion Industries, specifications contained in this manual are subject to change without notice.

Revision Date	Revised Pages	Serial Number Effectivity	Revision Description
4.30.22	All	D22042134	Released first edition
6.9.22	Registration	D22042134	Added QR code label
3.1.23	All	D230322622	Revised chemical system data
5.25.23	5	All	Removed VHR from Hot Water Connection
7.5.23	7	D230623061	Deleted Mechanical DWT and replaced with Electric DWT
11.20.23	40-41	All	Revised P/N 901242 to correct P.N 90168.

### LIMITED WARRANTY

Champion Industries (herein referred to as "The Company"), 3765 Champion Blvd., Winston-Salem, North Carolina 27105, and 2674 N. Service Road, Jordan Station, Ontario, Canada, L0R 1S0, warrants machines, and parts, as set out below.

Warranty of Machines: The Company warrants all new machines of its manufacture bearing the name "Champion and installed within the United States and Canada to be free from defects in material and workmanship for a period of one (1) year after the date of installation or fifteen (15) months after the date of shipment by The Company, whichever occurs first. [See below for special provisions relating to glasswashers.] Warranty registration must be submitted to The Company within ten (10) days after installation either online on the Champion Industries website (http://www.championindustries. com or by the fax form provided at the front of this manual. The Company will not assume any responsibility for extra costs for installation in any area where there are jurisdictional problems with local trades or unions.

If a defect in workmanship or material is found to exist within the warranty period, The Company, at its election, will either repair or replace the defective part or accept return of the machine for full credit; provided; however, as to glasswashers, The Company's obligation with respect to labor associated with any repairs shall end (a) 120 days after shipment, or (b) 90 days after installation, whichever occurs first. In the event that The Company elects to repair, the labor and work to be performed in connection with the warranty shall be done during regular working hours by a Champion authorized service technician. Defective parts become the property of The Company. Use of replacement parts not authorized by The Company will relieve The Company of all further liability in connection with its warranty. In no event will The Company's warranty obligation exceed The Company's charge for the machine. The following are not covered by The Company's warranty:

- a. Lighting of gas pilots or burners.
- b. Cleaning of gas lines.
- c. Replacement of fuses or resetting of overload breakers.
- d. Adjustment of thermostats.
- e. Adjustment of clutches.
- f. Opening or closing of utility supply valves or switching of electrical supply current.
- g. Cleaning of valves, strainers, screens, nozzles, or spray pipes.
- h. Performance of regular maintenance and cleaning as outlined in the operator's guide.
- i. Damages resulting from water conditions, accidents, alterations, improper use, abuse, tampering, improper installation, or failure to follow maintenance and operation procedures.
- j. Wear on Pulper cutter blocks, pulse vanes, and auger brush.

Examples of the defects not covered by warranty include, but are not limited to: (1) Damage to the exterior or interior finish as a result of the above, (2) Use with utility service other than that designated on the rating plate, (3) Improper connection to utility service, (4) Inadequate or excessive water pressure, (5) Corrosion from chemicals dispensed in excess of recommended concentrations, (6) Failure of electrical components due to connection of chemical dispensing equipment installed by others, (7) Leaks or damage resulting from such leaks caused by the installer, including those at machine table connections or by connection of chemical dispensing equipment installed by others, (8) Failure to comply with local building codes, (9) Damage caused by labor dispute.

Warranty of Parts: The Company warrants all new machine parts produced or authorized by The Company to be free from defects in material and workmanship for a period of 90 days from date of invoice. If any defect in material and workmanship is found to exist within the warranty period The Company will replace the defective part without charge.

DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY. THE COMPANY'S WARRANTY IS ONLY TO THE EXTENT REFLECTED ABOVE. THE COMPANY'S MAKE NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED, TO ANY WARRANTY OF MERCHANTABILITY, OR FITNESS OF PURPOSE. THE COMPANY SHALL NOT BE LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES. THE REMEDIES SET OUT ABOVE ARE THE EXCLUSIVE REMEDIES FOR ANY DEFECTS FOUND TO EXIST IN THE COMPANY'S' DISHWASHING MACHINES AND THE COMPANY'S PARTS, AND ALL OTHER REMEDIES ARE EXCLUDED, INCLUDING ANY LIABILITY FOR INCIDENTALS OR CONSEQUENTIAL DAMAGES.

The Company does not authorize any other person, including persons who deal in Champion dishwashing machines to change this warranty or create any other obligation in connection with Champion dishwashing machines.

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# INSTALLATION

### **Installation Codes**

The installation of the dishwasher must comply with all local electrical, plumbing, health and safety codes or in the absence of local codes, installed in accordance with the applicable requirements in the National Electrical Code, NFPA 70, Canadian Electrical Code (CEC), Part 1, CSA C22.1; and the Standard for Ventilation Control and Fire Protection of Commercial Cooking Operations, NFPA 96.



CAUTION:

Damage or problems associated with improper installation will not be covered by the limited warranty.

### **Safety Symbols**

The following symbols are used throughout this manual to alert the reader to important information.



WARNING: Warning statements indicate a condition or practice that can result in personal injury or possible death.



#### CAUTION:

Caution statements indicate a condition or practice that can result in damage to the machine or associated equipment.



#### NOTE:

Note statements highlight important information necessary for the operation of the machine.

### Receiving



Inspect the outside of the shipping carton for signs of damage and report any damage immediately to a supervisor. Remove the carton, inspect the dishwasher, and check the inside of the machine for accessories and installation parts.

Register your machine by fax or online as soon as possible.



CAUTION: Be careful when lifting and moving the machine to avoid damage.

### Placement

Compare the installation site utility connections with the dishwasher utility connections to ensure they are the same.

Provide 20" [508 mm] on right, left, and front sides of the machine and 27" [686 mm] above the finished floor.

The dishwasher has four adjustable feet for leveling. Level the dishwasher front-to-back and side-to-side.



#### NOTE:

Dishwashers are shipped from the factory for straight-through operation but are field convertible to corner operation.



Fig. 1 - Adjustable feet

### **Dish Table Connections**



#### CAUTION:

Do not attach the dish tables until the dishwasher is set in its permanent location.



Fig. 2 - Dish table installation (if required)

Level the dishwasher and dish tables to the required height. Fit the dish table flanges over the ends of the dishwasher tank and mark two hole locations. Drill 1/4" holes through the table flange and the dishwasher tank. Apply sealant between the table flanges and the wash tank. Install stainless steel 1/4-20 fasteners to secure.



Fig. 3 - Nominal dish table configuration

### **Corner Operation - Corner Splash Shield**

Machines are shipped from the factory for straight through operation. To convert for corner operation:

- 1. The control panel must be accessible from the front as shown in Fig. 4.
- 2. Install the optional splash shield, if included with machine, see Fig. 5. Detailed instructions can be found in Appendix A, page 36, for "Corner Splash Shield Installation Instructions".



Fig. 4 - Nominal corner installation

Fig. 5 - Corner splash shield

**NOTE:** TRACK CONVERSION INSTRUCTIONS ARE ON THE NEXT PAGE.

### **Corner Operation - Track Conversion**

Follow the steps below to convert the track assembly for corner operation:

- 1. Pull the track assembly straight up out of the machine.
- 2. Rotate the track 180° and reinstall.
- 3. Remove the guide attached to the track assembly, save the hardware.
- 4. Reposition the guide on the right-hand side of the track assembly and secure with the existing fasteners.
- 5. Slide a dish rack through the machine to ensure it moves freely.
- 6. Conversion is complete.



Fig. 6 - Corner track conversion

### VHR Cold Water Connection

DH6000-VHR, DH6000T-VHR



COLD WATER MINIMUM 3/4" NPT COLD WATER SUPPLY

Minimum/Maximum Incoming Temperature

55-75º/13-24°C

Minimum Incoming Supply Flowing Pressure

46-50 PSI

### Hot Water Connection- DH6000, DH6000T Standard



HOT WATER

MINIMUM 3/4" NPT HOT WATER SUPPLY

Minimum/Maximum Incoming Temperature

110-140°/43-60°C

Minimum Incoming Supply Flowing Pressure 45 PSI/310kPa



CAUTION: To prevent damage to the dishwasher supply valves, the installing plumber must thoroughly flush debris from the water supply line before connecting it to the dishwasher. Damage caused by improper installation is not covered by the limited warranty.

- Water hardness of 3 Grains/US Gal. 0.83 lmp. Gal 5.3 mg/L or less.
- Install a 3/4" NPT or larger full port shut-off valve in the water supply line ٠ as close to the dishwasher as a possible for servicing.

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Installation
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### **Drain Connection**



Gravity Drain 1" NPT Connections



**CAUTION:** The dishwasher drain connection must comply with all local plumbing, health and safety codes. Damage caused by improper installation is not covered by the limited warranty

Automatic Electric Drain Valve Maximum Flow Rate: 15.0 US GPM/14.0 IPM. GPM/57LPM



Fig. 7 - 1" NPT electric drain valve connection



#### **CAUTION:**

Use caution when making drain valve plumbing connections.



#### NOTE:

For manual operation of the drain valve, see Appendix C, page 42, for manual operation.

### **Optional Electric Drain Water Tempering, (DWT)**

Electric Solenoid DWT Water Valve



Requires a minimum 1/2" NPT <u>DEDICATED</u> cold water supply line.

**CAUTION:** The cold water supply line must be a <u>dedicated</u> supply connection. Do not connect the drain water tempering valve to a branch supply line.

Minimum/Maximum Incoming Temperature 55-75°/13-24°C Minimum Incoming Supply Flowing Pressure 46-50 PSI

• Water hardness of 3 Grains/US Gal. - 0.83 Imp. Gal - 5.3 mg/L or less.



Fig. 8 - Electric Drain Water Tempering Valve

Installation

### **Electrical Connection - Single and Three Phase**



#### **WARNING**:

Turn main power off at the dishwasher and disconnect main circuit breaker before performing work on the circuit. There may be more than one power source connected to the machine.

- 1. Remove the right and front lower panels.
- 2. Route conduit to the mounting bracket located at the right rear corner of the machine (see Fig. 9). Be sure to leave a 6 foot/2 meter service loop to the machine.
- 3. Remove the right and front panel to access the main terminal blocks.
- 4. <u>Follow the Machine Electrical Connection Data Plates for the terminal block connections.</u> <u>The data plates are attached close to the blocks (Fig. 11).</u>



### **Single to Two-Point Power Connection Conversion**

- 1. Machine wiring can be converted from a single to a two point input power connection by installing a field conversion kit, P/N 901168.
- 2. New electrical connection data plates must be applied in front of the input terminal blocks.
- 3. Refer to end of this manual for conversion instructions.



Fig. 12 - 3PH terminal block

L1

L2

I INF IN

L3



Fig. 13 - 1PH terminal block



Fig. 14 - Example of 2-point data plates



### Convert DH6000 208-240VAC Only From 3PH to 1PH Operation



#### NOTE:

The installer must contact the factory to receive the jumper wire, jumper bars, and replacement data plate before making the conversion.

#### Install Jumper Wire

- 1. Disconnect all power to the machine.
- 2. Remove front panel to access the power terminal block.
- 3. Connect jumper wire (supplied be factory), Fig. 15. between L2 and L3 on output side of terminal block.
- 4. Connect power on L1 and L2 of the terminal block.

#### Rewire Wash Tank Heater Element for 1PH

1. Rewire tank heater wires according to Fig. 16.



Fig. 15 - Jumper wire



Fig. 16 - 1PH tank element connections



Fig. 17 - 1PH booster element connections

#### Rewire Booster Tank Heater Element for 1PH

- 1. Remove the booster heater element cover.
- 2. Remove the paper insulator and jumper bars from the heater terminals.
- 3. Install the jumper bars for 1PH as shown, Fig. 17.
- 4. Additional short jumper bars are stowed with the new data plate.
- 5. Connect the wires to the terminals as shown.
- 6. Reinstall the paper insulator and the booster heater element cover.

### **Detergent Dispensing System by others:**

## DET Detergent

- WASH TANK CAPACITY: 10 US GAL/8.3 IMP. GAL/38 L
- TWO 7/8" DIAMETER HOLES ON RIGHT-SIDE OF TANK
- TOP HOLE IS DETERGENT INJECTION
- BOTTOM HOLE IS TANK SENSOR



#### CAUTION:

Warewashing chemicals are supplied by others. Always follow supplier's instructions for proper handling and use.



Fig. 18 - Injection and tank sensor (if equipped).



CAUTION: ONLY A NON-CHLORINATED COMMERCIAL DISHWASHING CHEMICAL SHALL BE USED IN THIS DISH WASHER.

### Detergent Signal for Dispensing System by others.

- 120VAC FUSE BLOCK
- 2.0 AMP MAX LOAD DETERGENT SIGNAL CONNECTION.
- LOCATED ON LEFT SIDE OF COMPONENT PANEL
- SIGNAL ENABLED DURING WASH CYCLE.



### Rinse aid Signal for Dispensing System by others.





Fig. 20 - Rinse aid injection point



#### CAUTION:

Warewashing chemicals are supplied by others. Always follow supplier's instructions for proper handling and use.

- 120VAC FUSE BLOCK
- 2.0 AMP MAX LOAD RINSE AID SIGNAL CONNECTION.
- LOCATED ON LEFT SIDE OF COMPONENT PANEL
- SIGNAL ENABLED DURING RINSE CYCLE.



Fig. 21- Rinse aid signal connection

### Vent Fan Control Supplied by others.



### Ventilation (Vent Fan Control)

The standard DH6000 and DH6000T are equipped with a fused signal connection for an external vent fan contactor (supplied by others).



#### STOP:

The 120VAC signal is limited to a 1.0 AMP maximum load. DO NOT CONNECT A VENT FAN MOTOR TO THE SIGNAL TERMINALS.



**NOTE:** The 120VAC signal is available whenever the dishwasher green power switch is ON.

To connect the external vent fan contactor:

- 1. Disconnect all power to the machine.
- 2. Remove the lower front panel and locate the three fuse blocks on the machine base.
- 3. Connect one wire of the external vent fan contactor to the FAN SIGNAL fuse block.
- 4. Connect the other wire to a COMMON NEUTRAL terminal.
- 5. Connect the external vent fan contactor coil wires.
- 6. Re-install the lower panels.
- 7. Restore power to the machine.





Fig. 22- Vent fan signal connection

### **Optional Champion Chemical Dispensers**

Detergent DET

### **R/A** Rinse-aid

- 1. The detergent and rinse-aid dispensers are located on the lower left side of the machine, (Fig.23).
- 2. Chemicals are supplied by others. Follow the chemical manufacturer's instructions for the handling and use of the chemicals.
- 3. If kit was specified with wash tank sensor, refer to Detergent Concentration Graphs below to set the Champion chemical dispensers on page 20.



Fig. 23 - Champion dispenser pumps



NOTE: These graphs are provided only as reference. Results may change due to incoming water variations.



- Graph 2 QSR Yellow (Potassium Carbonate 5-10%)

Based on manufacturer's recommended concentration

Instructions for the Supervisor and Chemical Supplier

#### **DISHWASHER START-UP:**

- 1. Check chemical containers are full; pick-up tubes installed.
- 2. Turn water supply on.
- 3. Energize machine.
- 4. Push green start button, (Fig. 24).
- 5. Operation screen appears, (Fig. 25).

### **SUPERVISOR MENUS**

#### ENTER SUPERVISOR MENU:

**Navigation Buttons:** 

1. Chemical set-up is performed using the supervisor menu. To enter the supervisor menu:

SETTINGS: Press for Supervisor Menu

- 2. Press the SETTINGS button, "gears", (Fig. 25).
- 3. The Supervisor Menu appears, (Fig. 26).

• Back-up to previous screen.

• Return to main screen.









### ENTER SETUP PASSWORD



Fig. 27 - Enter password

			7777			
-						
7	8	9	BS			
4	5	6	DEL	-		
1	2	3	+ E			
(	0			T		

#### Fig. 28 - Keypad



Fig. 29 - Set-up options menu

#### ENTER CHEMICAL SETUP MENU:

- 1. Press 'SETUP OPTIONS' button, (Fig. 26).
- 2. Password screen appears, (Fig. 27).
- 3. Press 7777, then 'ENT' on keypad, (Fig. 28).
- 4. Press 'CHEMICAL SETUP' button, (Fig. 29).

Instructions for the Supervisor and Chemical Supplier

Chemical Setup Menu: (continued)



#### Sensor Options:

Chemical dispensing controlled according to option IN-LINE only, TANK only, or both IN-LINE and TANK.

#### **DETERGENT SENSORS:**

- If equipped: Press 'IN-LINE' button to ON (Fig. 30).
- If equipped: Press 'TANK' button to ON (Fig. 30).
- One, both, or neither, can be activated, depending on application, required use/needs, or equipped sensor configuration of the machine.

#### **DETERGENT PRIME and RINSE AID PRIME BUTTONS:**

- 1. Manually runs the chemical pumps.
- 2. To prime: insert pick-up hose(s) in chemical containers.
- 3. Press and hold either PRIME buttons.
- 4. Release button to stop.

#### SET RINSE AID SET POINT (factory default = 5 secs.):

- 1. Rinse aid pump runs for a set time in seconds during the final rinse.
- 2. To change: press "5". Keypad appears, (pg. 15, Fig. 28).
- 3. Press CLR, enter new value, and press ENT.
- 4. Confirm dose matches chemical mfg. requirements.

#### SET DETERGENT CYCLE TIMES, (Fig. 33A):

- 1. Press "CYCLE TIMES". To change: press number on the screen.
- 2. Keypad appears, (see Fig. 28).
- 3. Select new value on keypad, then ENT.
- 4. Repeat for each value needing change per chemical mfg. requirements derived from tank titration testing.



Fig. 30 - In-line sensor selected.



Fig. 31 - If equipped, in-line sensor



Fig. 32 - If equipped, tank sensor



Fig. 33A - Example: Dosage cycle times

Instructions for the Supervisor and Chemical Supplier

#### **IN-LINE Sensor (ONLY) Normal Operation (Fig. 33B):**

- 1. Detergent pump output = 3ml/sec.
- 2. PRIME: Detergent pump will run for set time or until the in-line sensor detects chemical.
- FILL: When the lower float is satisfied, detergent 3. pump runs for set time for initial charge of detergent.
- 4. CYCLE: The detergent pump runs for a set time to maintain levels at the beginning of each wash cycle.

#### **IN-LINE Sensor Operation Error (A):**

- PRIME FILL CYCLE 40s 30 s 3s PRIME: TIME ALLOTTED TO PRIME DETERGENT TUBING. FILL: INITIAL TANK CHARGE. CYCLE: FIXED DETERGENT DOSE AT THE BEGINNING OF EACH WASH CYCLE. Fig. 33B - Dosage time explanation
- If the IN-LINE detergent sensor does not detect chemical within the prime cycle, 1. then a flashing yellow bottle symbol appears on the operation screen indicating a "LOW DETERGENT ALERT", (Fig. 34).
- 2. Check the chemical supply then press the flashing bottle to run the prime cycle again.
- 3. The flashing yellow bottle will disappear when the IN-LINE sensor detects chemical.

#### **IN-LINE Sensor Operation Error (B):**

- 1. The detergent pump runs for 3 secs. before each wash cycle. If the IN-LINE sensor does not detect chemical after three consecutive cycles, the flashing yellow bottle will appear.
- 2. Check the chemical supply and press the flashing yellow bottle to reset the alert.

#### Factory Default Dosage Chart:

Detergent Base Type	Concentration	Prime	Fill	Cycle	Inline Conductivity Setting mV
Potassium Carbonate (Carbonate of Potash)	5 – 10 %	40	30	3	300
Sodium Hydroxide (Lye)	10 – 30 %	40	4	1	300



#### Repeating "LOW DETERGENT ALERT:

The flashing yellow bottle will continue to reset and periodically reappear until the cause of alert is repaired. The dishwasher continues operating even with the error.



Fig. 34 - LOW DETERGENT ALERT - (flashing bottle)

Instructions for the Supervisor and Chemical Supplier

#### TANK Sensor (ONLY) Normal Operation:

- 1. Detergent pump output = 3ml/sec.
- 2. FILL: When the lower float is satisfied, detergent pump runs for set time for initial charge of detergent.
- 3. CYCLE: The detergent pump runs for a set time to maintain levels at the beginning of each wash cycle. Maintaining conductivity.



Fig. 35 - Tank sensor selected.

#### **TANK Sensor Error Operation:**

- 1. If machine has run one cycle, and tank temperature is 150°F/65.6°C or greater, and the tank conductivity sensor is not satisfied, then the detergent pump will pump the cycle time set point.
- 2. Detergent pump waits 20 secs. and pumps the cycle time set point again or until the tank conductivity sensor is satisfied.
- 3. When the wash pump is running, the detergent pump will run If the sensor detects the detergent is below its conductivity set point for 5 consecutive seconds.
- 4. This is repeated for two minutes or until tank sensor is satisfied. The flashing yellow bottle "LOW DETERGENT ALERT" will appear if tank sensor is not satisfied within two minutes, (pg. 19, Fig. 37).



Machine determines tank concentration by measuring conductivity. Refer to Page 14, Graph 1 and Graph 2 for correlation to PPM. Refer to Page 20 for adjustment process. Chemical settings are to be set to chemical mfg. requirements per titration results.

#### Factory Default Dosage Chart:

Detergent Base Type	Concentration	Prime	Fill	Cycle	Tank Conductivity Setting mV
Potassium Carbonate (Carbonate of Potash)	5 – 10 %	40	30	3	300
Sodium Hydroxide (Lye)	10 – 30 %	40	4	1	300

Instructions for the Supervisor and Chemical Supplier

#### **IN-LINE and TANK Sensors Normal Operation:**

- 1. Detergent pump output = 3ml/sec.
- 2. PRIME: Detergent pump will run for set time or until the in-line sensor detects chemical.
- 3. FILL: When the lower float is satisfied, detergent pump runs for set time for initial charge of detergent.
- 4. CYCLE: The detergent pump runs for a set time to maintain levels at the beginning of each wash cycle. Maintaining conductivity.



Fig. 36 - In-line and Tank sensor selected.

#### **IN-LINE and TANK Sensor Operation Error:**

- 1. If machine has run one cycle, and tank temperature is 150°F/65.6°C or greater, and the tank sensor is not satisfied, then the detergent pump will pump the cycle time set point.
- 2. Detergent pump waits 20 secs. and pumps the cycle time set point again or until the sensor is satisfied.
- 3. When the wash pump is running, the detergent pump will run if the sensor detects the detergent is below its set point for 5 consecutive seconds.
- This is repeated for two minutes or until tank sensor is satisfied. The flashing yellow bottle "LOW DETERGENT ALERT" will appear if tank sensor is not satisfied within two minutes.



Fig. 37 - LOW DETERGENT ALERT - (flashing bottle)

#### Factory Default Dosage Time Chart:

Detergent Base Type	Concentration	Prime	Fill	Cycle	Tank Conductivity Setting mV	Inline Conductivity Setting mV
Potassium Carbonate (Carbonate of Potash)	5 – 10 %	40	30	3	300	700
Sodium Hydroxide (Lye)	10 – 30 %	40	4	1	300	700

Instructions for the Supervisor and Chemical Supplier

SET DETERGENT CONCENTRATION -- Applies to Tank or Inline Sensor Equipped Machines Only (Fig. 38):

The detergent dose and supply-based concentration is managed by time and conductivity probe(s), respectively.

- Set-up by pressing the "CONCENTRATION" button, (Fig. 38), then set the needed values with reference to Page 14, Graph 1 or Graph 2, with regard to titration results. The concentration display indicates the sensor that is ON.
- 2. Set point value sets the amount of detergent injected.
- 3. Actual is the amount of detergent detected by sensor.
- 4. Press DETERGENT PRIME to prime in the event that it was not completely primed automatically.
- 5. Press "PUMP" button to agitate wash tank.
- 6. Fill the dishwasher with fresh water and run cycles until the tank temperature indicates approximately 160°F/71°C.



Fig. 39a - Only In-line Sensor ON

Fig. 39b - Only Tank Sensor ON

Fig. 39c - Tank and In-line Sensors ON

- 7. Press the 'Back-up button (<), (Fig. 39c), to return to the Supervisor menu, (Fig. 40).
- 8. Press the 'Home' button, (Fig. 40), to return to the main operation screen, (Fig. 41).

I/O	ACTIVE FAULTS	CYCLE COUNT	TOUCH HERE TO SELECT CYCLE
MANUALS	REVISION	START DELIME	
SETUP OPTIONS	MAINT	FACTORY SETUP	
		→ ♠	Yoo .

Fig. 40 - Home button

Fig. 41 - Main operation screen

### THIS COMPLETES THE OPTIONAL CHAMPION CHEMICAL DISPENSER SETUP PROCEDURE.



Fig. 38 - Detergent Concentration

### SLEEP



**NOTE**: Access to the supervisor menu is active for five minutes. The 7777 password must be re-entered after 5 minutes.

- 1. Press the SETTINGS button, "gears", (Fig. 42).
- 2. The Supervisor Menu appears, (Fig. 43).
- Press the SETUP OPTIONS and the password screen appears, (Fig. 44).
- 4. Enter 7777 and ENT on the keypad (Fig. 45).
- 5. Setup Options screen appears.
- 6. Press the SLEEP button, (Fig. 46).
- 7. Press ON or OFF to enable/disable the option.
- 8. Press the number to enter a minimum of 1 hour up to a maximum of 10 hours. Factory default setting is 2 hours, (Fig. 47).

#### TOUCH HERE TO SELECT CYCLE



Fig. 42 - Main screen



Fig. 43 - Supervisor menu



Fig. 44 - Password screen



Fig. 46 - Press Sleep button

- During normal operation, if the machine is idle for the programmed time, then the main screen displays, "SLEEP" "TOUCH TO WAKE UP". (Fig. 48)
- 10. Touch the screen and the operation screen will reappear, (Fig. 42).
- 11. The tank heaters and the detergent system are disabled when the machine is asleep.

	7777					
-	-	CLR	CANCEL			
7	8	9	BS			
4	5	6	DEL	-		
1	2	3	+	E		
0				T		

Fig. 45 - Keypad (Enter 7777 and ENT).



Fig. 47 - SLEEP setup screen.



Fig. 48 - Main screen SLEEP display.

FILL TIME EXCEEDED: The time it must take to fill the wash tank is programmed with the Fill Time Extended button. If the programmed minutes are exceeded then the operation screen displays an alarm.

<u>ON FOR CELSIUS:</u> When the button is ON temperatures are displayed in °C with the letter "C". By default, temperatures are displayed in °F with the letter "F".





**<u>ON FOR FRENCH</u>**: When the button is ON descriptions are displayed in French. By default, descriptions are displayed in English.

**WATER REFRESH** Water Refresh function ensures wash tank water remains clean to enhance washability by periodically draining one-third of the water in the wash tank and replacing with fresh water.

- 1. Press the Water Refresh button ON.
- 2. Press the set point number and enter the number the number of cycles before wash cycle begins.
- 3. Wash Cycle runs.
- 4. The next Refresh Cycle runs after the programmed wash cycles are complete.



#### Water Refresh Cycle:

- 1. MACHINE washes normally. Drain valve opens at beginning of rinse and through 15 secs. of dwelling. Water level is 1/3 low.
- 2. Upper float is lowered. During next cycle, fill comes on to refill tank.
- 3. Booster temperature is low. Machine enters rinse sentry until booster temperature is satisfied.
- 4. Main screen displays the 'WATER REFRESH' alert.
- 5. Machine drains, refills, and washes normally.

#### NAVIGATION BUTTONS:

- ç
  - SETTINGS: Press for Supervisor Menu



- Back-up to previous screen.
- Return to main screen.



Fig. 51 - Adjustable refresh intervals

### SUPERVISOR MENUS

#### I/O - Inputs/Outputs:

- The I/O shows the operating state of components.
- Machine operation can be checked using the I/O screen.

To access the I/O screen:

- 1. Press the SETTINGS button, "gears", on the main screen, (Fig. 52).
- 2. Press I/O button, (Fig. 53).
- 3. The I/O screen appears, (Fig. 54).
- 4. A red light indicates an open (inactive) condition. Green indicates closed (active).
- 5. For example, the green light for DOOR indicates the door is closed. The red light for PUMP indicates the pump is off.

#### TOUCH HERE TO SELECT CYCLE



Fig. 52 - Press SETTINGS on main screen.



Fig. 53- I/O button



#### NOTE:

Press the 'Back-up button (◀◀) to return to the supervisor menu, (Fig. 54).



1. Press the ACTIVE FAULTS button to display operating errors currently present in the machine, (Fig. 55).



Fig. 55 - Active faults button

#### ACTIVE FAULTS: (continued)

- A green light indicates no fault, a red 2. light indicates a fault is active, (Fig. 56).
- 3. Active faults are displayed on the operator's main screen. See the Operation Manual for details.



Fig. 56 - ACTIVE FAULTS screen

#### CYCLE COUNT: Press the CYCLE COUNT button to display the total cycles run since commissioning, (Fig.57a-b).

2. The cycle count cannot be reset.



Fig. 57a - CYCLE COUNT button



Fig. 57b - Cycle count display

#### MANUALS:

NOTE:

1.

Press the MANUALS button to 1. display operating and cleaning instructions, (Fig. 58).

Press the 'Back-up button (



Fig. 58 - Manuals

### **SUPERVISOR MENUS**



#### **REVISION:**

- Press the REVISION button, (Fig. 59a) to display the program version number installed.
- 2. The revision version is important for troubleshooting and repair of the machine.
- 3. The revision number, (Fig. 59b) automatically changes when a new program is installed.



Fig. 59a - Revision



#### START DELIME:

- 1. Supervisors may start a Delime process from this menu. Users use the main screen to begin a Delime.
- 2. Press START DELIME to begin a deliming operation, (Fig. 60).
- 3. The supervisor delime setup is on page 29.



Fig. 60 - Start delime

#### FACTORY SETUP

- 1. FACTORY SETUP CAN ONLY BE ACCESSED BY FACTORY PERSONNEL, (Fig. 61).
- 2. Contact Factory if this function is required.



Fig. 61 - Factory Setup not available for supervisors.

#### MAINT:



CAUTION:

Supervisors should consult an authorized service agent before making changes to MAINT menu settings.

- 1. Press the SETTINGS button, "gears", to access supervisor menu, (Fig. 62).
- 2. Press the MAINT button, (Fig. 63).
- 3. The Enter Maintenance Password screen appears.
- 4. Press 0 and keypad appears (Fig. 64).
- 5. Press 9999, then 'ENT' on keypad,
- 6. The maintenance menu appears, (Fig. 66).

9999					
-		CLR	CANCEL		
7	8	9	BS		
4	5	6	DEL		
1	2	3	+	E	
0				T	

Fig. 65 - MAINT password 9999.

#### TOUCH HERE TO SELECT CYCLE



Fig. 62 - Main screen



Fig. 63 - MAINT button



Fig. 64 - MAINT password screen



Fig. 66 - MAINT.

#### MAINT: (continued)

#### TEMP SET POINTS:

- 1. Press the TEMP SET POINTS button, (Fig. 67a).
- A menu appears showing the factory default Temperature Set points: wash tank - 168°F/76.6°C Booster - 191°F/88.3°C. These can be adjusted by pressing the numeric values.
- 3. Actual Temperatures appear below and indicate the current temperatures during a wash and rinse cycle. These are not adjustable, (Fig. 67b).

Press the 'Back-up button (



Fig. 67a - Maintenance menu



Fig. 67b - Temperature Set points menu

#### FUNCTION TEST:

- 1. Press the Function Test button, (Fig. 68).
- 2. A menu appears to test the displayed components on the screen. Press and hold the button to test if the component is working. Troubleshoot the problem or contact an authorized service agent for assistance.

Press the 'Back-up button (

#### **HIGH BOOSTER:**

- 1. Press the High Booster button, (Fig. 69).
- Menu appears to display highest recorded booster temperature and any thermistor event causing a reading of > 3000. Tap button to test.
- 3. Contact service agent if problem.





Fig. 69 - High booster menu

#### FAULT COUNTERS:

- 1. The Fault Counter shows how many times the machine has a listed fault error.
- 2. Only a technician can reset fault counters.

#### TEMP FUNCTION HIGH DWT/ SETPOINTS TEST BOOSTER PD FAULT TEMP SERVICE MANUALS COUNTERS OFFSET RESET 0 ғ TEMP LOCKOUT OFF DOOR LOCK DETERGENT OF OFF DETERGENT LOCKOUT

Fig. 70 - MAINT menu

	WASH	BSTR	RINSE
ACTUAL	<b>158</b> <sub>F</sub>	<b>180</b> ⊧	<b>000</b> F
CORRECTED	<b>160</b> ⊧	<b>180</b> ⊧	<b>000</b> ⊧
≪ ♠	ΗΞ	ΗΞ	Ŧ

Fig. 71 - Only a technician can correct temperatures

#### DWT/PUMP DRAIN DRAIN WATER PUMP OFF ON TEMPERING DRAIN DRAIN WATER TEMPERING DURING RINSE DURATION ON DURING 20 S RINSE S ON DELAY DURATION ON DURING S DRAIN

Fig. 72 - Drain water tempering settings

#### TEMP OFFSET:

- 1. Temp Offset allows a service agent to compensate for variances between measured and actual temperature.
- 2. Only a technician can correct temperatures, (Fig. 71).

#### DRAIN WATER TEMPERING (DWT):

(For electric Optional DWT only)

- 1. Drain water tempering is an option that includes a cold water valve connected to the drain line to cool the water leaving the machine.
- Refer to Fig. 72. The default settings are OFF. The default time the cold water valve is energized during drain is 1 minute 30 secs. Default time during final rinse is a 5 sec. delay followed by a 20 sec. run time.

**NOTE:** The functions listed below are only used by service agents to program the operation of a machine if equipped with special options, (Fig. 70).

**TEMP LOCKOUT:** When ON, machine will prevent starting a wash cycle when wash tank temperature is below 150°F/65.5°C. The lockout temperature setting is adjustable.

**DOOR LOCK:** When ON, the door lock switch operates as required, if equipped.

**DETERGENT:** When ON, the Optional Champion detergent system is operational, if equipped.

**DETERGENT LOCKOUT:** When ON, the machine will not operate if detergent is not detected in the Champion detergent system, if equipped.

#### **DELIME SETUP:**



**NOTE**: Access to the supervisor menu is active for five minutes. The 7777 password must be re-entered after 5 minutes.

- 1. Press the SETTINGS button on the main screen, (Fig. 73).
- 2. Press SETUP OPTIONS button, Fig. 74).
- 3. ENTER SETUP PASSWORD screen appears, (Fig. 75).
- 4. Press 77777 and ENT, (Fig. 76).
- 5. Press DELIME SETUP BUTTON( Fig. 77).

#### TOUCH HERE TO SELECT CYCLE



Fig. 73 - Main screen



Fig. 74 - Supervisor menu



Fig. 75 - Password screen



Fig. 76 - Keypad (Enter 7777 and ENT).



Fig. 77 - Delime Setup button

### Supervisor Mode (MAINT): (continued)

#### **DELIME NOTIFICATION SETUP:**

- 1. DELIME SETUP activates and sets up the delime function.
- 2. Press the DELIME button The DELIME SCHEDULE sets the number of hours of machine operation between delime.
- 3. **HOURS** range = 10–100 hours. The factory default is 100.
- 4. **WASH DURATION MINUTES** range = 10–50 minutes. The factory default is 30 minutes.
- 5. **RINSE DURATION MINUTES** range is 10–30 minutes. The factory default is 30 minutes.

To change a value:

- 1. Press press the displayed number.
- 2. The keypad appears.
- 3. Press keypad and enter the desired value then press ENT.
- 4. Repeat for each number as needed.

#### START DELIME:



Fig. 79 - Supervisor's menu - Start delime button

- 1. The Delime operation can be started from three locations:
  - a) Delime Setup screen, (Fig. 78).
  - b) Supervisor's menu, (Fig. 79).
  - c) Main screen, if the time to delime has elapsed and the machine is idle.
- 2. The delime operation is the same regardless of where the button is pushed.



Fig. 78 - Delime Setup menu

Fig. 80 - Main screen Delime button

# DELIME

### **DELIME OPERATION:**

- Deliming removes mineral deposits from the machine with a deliming chemical.
- The deliming process is automatic after the chemical is added to the machine.
- Refer to Figs. 78 and 79 on the previous page.

#### **START DELIME:** (continued)

- The Delime process is semi-automatic. The operator must perform actions to prepare the process, then the machine performs the cleaning process automatically.
  - 1. Press the DELIME button, (Fig. 81).
  - 2. "PROCEED WITH DELIME" screen appears.
  - 3. Press NO to return to main screen.
  - 4. Press YES to start delime, (Fig. 82).
  - If door is open, "CLOSE DOOR TO START" appears, (Fig. 83). The red door icon in the upper right corner of the screen alerts the operator the door is open.
  - If door is closed when YES is pressed the screen immediately displays "DRAINING" and the machine drains, (Fig. 84).
  - 5. When the machine has drained, open the doors and clean the scrap screens (Fig. 85).
  - 6. "CLOSE DOOR TO FILL" appears. Note the red door icon denoting an open door (Fig. 86).



**NOTE**: Press and hold the red button for three seconds to cancel delime and return to the main screen.



Fig. 86 - Close door to fill

#### TOUCH HERE TO SELECT CYCLE



Fig. 81 - Press DELIME button to start





Fig. 83 - Close door to start



Fig. 84 - Machine drains

Fig. 85 - Clean scrap screens

### DELIME OPERATION: (continued)

7. Close the doors. "FILLING" appears and machine fills, (Fig. 87).



**CAUTION:** Follow the chemical supplier's use and handling instructions. Wear protective clothing, and eye protection when handling chemicals.

 "ADD DELIME CHEMICAL" appears (Fig. 88).
Open doors and add deliming chemicals in accordance with the chemical supplier's instructions.



### NOTE: The operator cannot exit the deliming operation after the chemical is added.

- 9. "CLOSE DOOR TO START" appears (Fig. 89). Red door icon indicates the doors are open.
- "TIME REMAINING" indicates the length of time the deliming period will run and is set in the supervisor Delime Setup menu. The time in this example is 10 minutes displayed in minutes and seconds (Fig. 89).
- 11. "DELIME IN PROGRESS" appears (Fig. 90). Time remaining begins to count down to zero.



**NOTE**: If machine is equipped, the machine will lock the door until the deliming operation is finished.

12. Pump runs and circulates the delimer throughout the machine to remove mineral deposits, (Fig. 90).



**NOTE**: The delime operation can be stopped only by an authorized service agent.

- 13. Deliming time expires at end of preset time.
- 14. "DRAINING" appears. Pump stops, drain opens and deliming solution is drained.

### FILLING



Fig. 87 - Machine fills



Fig. 88 - Add delime chemical



Fig. 89 - Close door to start delime operation



Fig. 90 - Pumps run



FILLING

### DELIME OPERATION: (continued)

- 15. "FILLING" appears. Machine fills with fresh water, (Fig. 92).
- 16. "DELIME RINSE IN PROGRESS" appears. Pump runs. Time remaining in this example counts down from the preset 5 minutes, (Fig. 93).
- 17. "DRAINING" appears. Pump stops, drain opens and deliming residue drains, (Fig. 94).
- 18. "FILLING" appears. Machine fills, (Fig. 94).
- "DELIME RINSE IN PROGRESS" appears for the second time to ensure delimer is removed. Pump runs. Time remaining counts down from the preset 5 minutes, (Fig. 95).
- 20. "DRAINING" appears for the final time. Machine drains.
- 21. "DELIME COMPLETE" appears. Press the "CONTINUE" button and the main screen will appear. The machine will fill and return to normal operation, (Fig. 98).

### THIS COMPLETES THE SUPERVISOR MENU INSTRUCTIONS.

#### TOUCH HERE TO SELECT CYCLE



Fig. 98 - Main screen - normal operation



Fig. 97 -Fig. 97 -Delime operation is complete. Return to main screen.

CONTINUE

AND RETURN MACHINE TO

PRESS

TO FILL

### FAULT MESSAGES:

• Operation errors are displayed on the main screen with prompts to guide the operator through troubleshooting procedures and corrective actions.

#### FILL TIME EXCEEDED:

- 1. If the machine does not fill completely in the allotted time then "FILL TIME EXCEEDED" and a blinking fault icon appear, (Fig. 99a and Fig. 99b).
- 2. Press the *icon* and an instruction screen appears. Follow the instructions and press RESET, (Fig. 99c).
- 3. The machine will resume normal operation or the fault screen will reappear.



Fig. 99a - Normal FILLING operation screen

4. Contact a service agent for repair.



Fig. 99b - Fault screen with blinking icon

The machine failed to fill in set time. Check main water supply at wall is turned on. Press RESET to clear fault and retry fill. If issue continues, contact service for repair.

Fig. 99c - Follow instructions on screen

#### DRAIN TIME EXCEEDED:

- 1. If the machine does not drain completely in the allotted time then "DRAIN TIME EXCEEDED" and a blinking fault icon appear, (Fig. 100).
- Press the blinking icon and an instruction screen will appear. Follow the instructions and press ACKNOWLEDGE, (Fig. 100a).
- 3. If the drain fault is corrected then the machine will resume normal operation; however, if the fault is not corrected, the machine will resume normal operation with the blinking icon as a prompt that the machine is running in a drain fault condition and requires repair.
- 4. Contact a service agent for repair.



Fig. 100b - Main screen - normal operation with error icon



machine to operation. Warning will clear when machine drains correctly. If issue continues, contact service for repair.

Fig. 100a - Follow instructions on screen

### FAULT MESSAGES: (continued)

#### FLOAT FAULT:

- 1. The floats are devices inside the machine that control filling and heating. If a float encounters a problem, then "FLOAT FAULT" and a blinking fault icon appear, (Fig. 101).
- 2. Press the *icon* and an instruction screen appears. Follow the instructions and press RESET, (Fig. 101a).
- 3. The machine will resume normal operation or the fault screen will reappear.
- 4. Contact a service agent for repair.



Fig. 101a - Follow instructions on screen



Fig. 101 - Fault screen with blinking icon

#### TEMPERATURE SENSOR FAULT:

- If a machine temperature sensor fails, then the "TEMPERATURE SENSOR FAULT" message appears and the Wash Tank temperature displays XXXX indicating the location of the fault, (Fig. 102a).
- Press the blinking fault icon and an information screen appears. Press the ACKNOWLEDGE button, (Fig. 102b).
- The machine will resume operation. The main screen in this example, has a blinking fault icon, indicating the wash tank sensor is in a fault condition and the tank heater is de-energized, (Fig. 102c).
- 4. Contact a service agent for repair.



Fig. 102c - Main screen with blinking fault icon



Fig. 102 - Normal "WASHING" screen



Fig. 102a - Temperature sensor fault screen



. 1020 - FIESS AGNINOWLEDGE

#### INSTALLING DH6000T CORNER SPLASH SHIELD KIT, P/N 901114

**CAUTION**: The machine will drain automatically when the dishwasher power is turned off.

<u>KIT PARTS:</u> (1) SHIELD, CORNER SPLASH, P/N 337955, COMPOUND SEALING, P/N 104889, (2) SCREWS, 10-32 X 1/2" TRUSS HEAD, P/N 100097, (2) WASHER, FLAT, 10-32, P/N 107033, NUT, GRIP, 10-32 W/NYLON INSERT, P/N 107966

SPECIAL TOOLS: #21 or 5/32" Drill bit, Electric Drill

1. The splash shield is installed on the right-hand side of the dishwasher, (Fig.1).



- 2. Turn dishwasher power off; the machine will drain automatically. Open the doors.
- 3. Lift and remove the track assembly, (Fig. 2).



Fig. 2

4. Remove the (4) bolts, locks, and washers securing the right-hand door guide cover. Save the fasteners and discard the cover, (Fig. 3).



Fig. 3

5. Install the splash shield between the door guide and the front corner post (Fig. 4). The left side of the splash shield covers the door guide.



Fig. 4

#### APPENDIX A: Installing DH6000T Corner Splash Shield Kit P/N 901114

6. Apply a small bead of sealing compound to the (4) fasteners saved in step 4. Secure the guide cover end of the splash shield to the machine, (Fig. 5).



Fig. 5

7. Locate the mounting holes on the right-hand front corner, (Fig. 6).



Fig. 6

8. Using the splash shield as a template, mark and drill two holes in the corner post. Secure the shield to the post using the 10-32 screws, nuts and washers provided in the kit.



Fig. 7

- 9. Open and close the doors to ensure there is no interference between the doors and shield.
- 10. Turn the dishwasher power on to fill the dishwasher.
- 11. The installation is complete.



#### 

The corner posts may be predrilled and will not require the posts to be drilled as described in Step 8.



THIS KIT IS INCOMPLETE WITHOUT THE FOLLOWING:

FRONT PANEL 2-POINT CONNECTION DATA PLATE.
2-POINT <u>MACHINE</u> ELECTRICAL CONNECTION DATA PLATE
2-POINT <u>BOOSTER</u> ELECTRICAL CONNECTION DATA PLATE

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### **Champion** Kit P/N 901242, DH6000/T- M2 Series 1-Point to 2-Point Terminal Block Conversion

#### KIT PARTS:

(1) P/N 111833, Input Terminal Block

(2) P/N 100007, Screw, 10-32 x 3/8" Truss Hd.,

- (1) \*Label, Matrix 2-Point Electrical Data Plate,
- (1) P/N 117524, Instruction Sheet

WARNING:

\* THE DATA PLATE MUST BE CUSTOM PRINTED AT THE FACTORY AND ADDED TO THE KIT BEFORE SHIPMENT.

Disconnect all power to the dishwasher

before working on the machine.



Fig. 1

- 1. Check the contents of the kit, (Fig. 1). The new data plates must be included. Contact Champion National Service in USA @ 1-(800) 858-4477 or in Canada @ 1-(800) 263-5798.
- 2. Disconnect power to the dishwasher and remove the front and right-side panels. Locate booster terminal block mounting bracket on right front of machine base, (Fig. 2).
- 3. Install terminal block included in the kit to the existing bracket using kit screws, (Fig. 3).
- 4. Disconnect booster wires L1, L2, and L3 on main power terminal block and route to new booster terminal block and connect.
- 5. Connect booster line power to new terminal block.
- 6. Apply "2-Point Machine" connection data plate over the existing data plate and apply the "2-Point Booster" connection data plate in front of the booster terminal block, (Fig. 4).
- 7. Restore power and check machine operation.
- 8. Replace panels and apply new machine data plate over existing on lower front panel.
- 9. Restore power and check operation.
- 10. Conversion is complete.



Fig. 2 - Mounting bracket



Fig. 3 - Booster terminal block



Fig. 4 - Apply 2-Point data plates

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