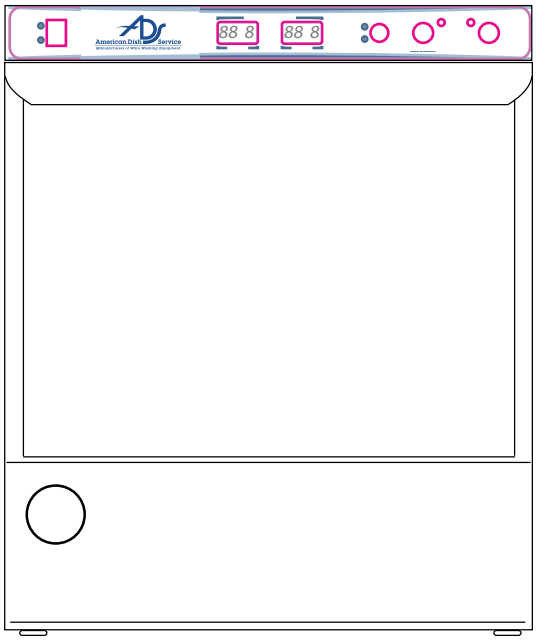
American Dish Service
Manufacturers of Ware Washing Equipment

Installation/Operation Manual/Parts Manual



Undercounter Dishwashers
ADS HUB-40-HIGH TEMP

High Temperature
with built-in booster
Fresh Water Final Rinse

THE MODELS CONTAINED IN THIS MANUAL COMPLY WITH ANSI/ASSE 1001 & ANSI/ASSE 1004.

NSF ETL LISTED

www.americandish.com

Issue date: Sept-9-2026

Manual P/N **0513316 REV D**

For machines beginning with S/N W2204106955 and above

American Dish Service
900 Blake Street
Edwardsville, KS 66111-3820 U.S.A.
Toll Free 800-922-2178

WELBILT
an Ali Group Company

National Service Department
In the USA:
Toll-free: 800-922-2178
Tel: 913-422-3700
Fax: 913-422-6630
email: service@americandish.com

ATTENTION:

The model no., serial no., voltage, Hz and phase are needed to identify your machine and to answer questions.

The machine data plate is located on the lower front panel.

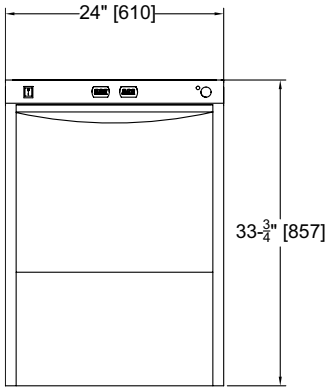
Please have this information ready if you call for service assistance.

ENERGY STAR

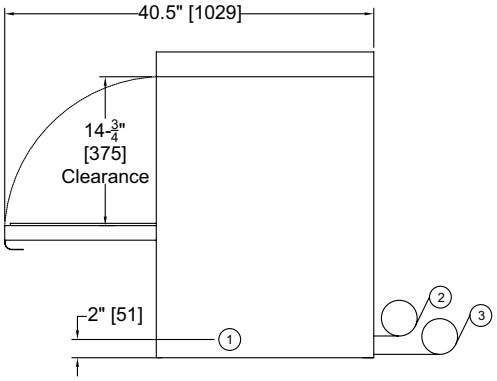
CAUTION:
Only use a non-chlorinated commercial detergent in the dishwasher.

HUB-40

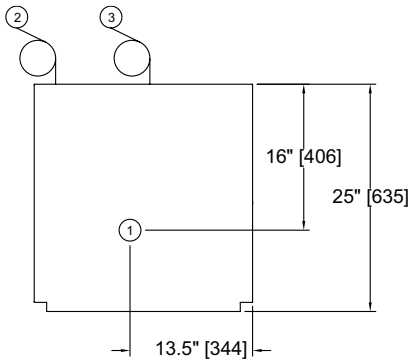
Undercounter High Temperature Dishwashing Machine with Built-in Booster Heater



Front View



Side View



Plan View

SPECIFICATIONS

Capacities*

Cycle time (seconds) 90
Racks per hr. 40

Motor horsepower

Wash 1

Water consumption

U.S. Gal./Imperial Gal.
(Max. use) per hr.. . . . . 23.4/19.2
U.S. Gal./Imperial Gal.
per rack. 0.78/0.64

Temperatures °F/°C

Wash 150/66
Rinse 180/82

Heating

Tank heat, electric, kW 2.0
Electric booster
(kW) (required for 70°F/39°C rise) . . . 6
Electric booster
(kW) 9

Time Cycle in Seconds

Wash 70
Rinse 14
Total cycle. 90

Standard 20" x 20" [508 x 508] Rack Complement

Dish 1
Open 1
* at 140°F incoming water

UTILITIES

1	**Electrical** 208-240/60/1; 3 wire plus ground, (See Box). 208-240/60/3; 4 wire plus ground, (See Box). Field convertible to accept 3 phase power, see service manual for details
2	**Hot Water** 1/2" supply; 110°F/43°C Min. hot water connection for 70°F/39°C rise booster. Incoming supply pressure must maintain a Flow pressure of 20-22 PSI. Machine equipped with 3/4" [19] hose connector.
3	**Pumped Drain** 5/8" [15.9] I.D. flexible reinforced hose, 6 ft. [1829] long. Max. drain flow 15 US gpm. [12.5 imp gal] Max. drain height 3 ft. [914]

6kW HUB-40 with 70°F/39°C Booster Rise			
Elec. Specs	**Rated Amps**	**Minimum Supply Ckt. Conductor Ampacity**	**Maximum Overcurrent Protective Device**
208/60/1	32	40	40
240/60/1	36	40	40
208/60/3	22	30	30
240/60/3	24	40	30

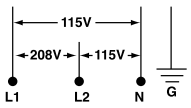
Volume crated: 15 cu. ft./0.42 cu.m

Shipping weight crated: 215 lbs./97.5 kg.

Dimensions shown in inches and [millimeters]

Due to an ongoing value analysis program, specifications contained in this catalog are subject to change without notice.

Warning Plumbing and electrical connections should be made by qualified personnel who will observe all the applicable plumbing, sanitary and safety codes and the National Electrical Code.



Note: Electrical supply service must be a 3-wire plus ground for connection shown.

American Dish Service

900 Blake Street | Edwardsville, Kansas, 66111
913.422.3700 | Toll-Free: 800.922.2178 | Fax: 913.422.6630
orders@americandish.com | **americandish.com**

American Dish Service
Manufacturers of Ware Washing Equipment

PRODUCT REGISTRATION BY FAX

COMPLETE THIS FORM AND FAX TO:

913-422-6630 in the USA

PRODUCT REGISTRATION CARD

Model	Serial #

Date of Installation: ___/___ /____

Company Name: _____

Address: _____ _____ _____
(Street) Province Postal Code

Telephone #: ( ) _____ --- _____

Contact: _____

Installation Company: _____

Address: _____

Telephone #: _____

Contact: _____

FAILURE TO REGISTER YOUR PRODUCT MAY VOID YOUR WARRANTY

IMPORTANT IMPORTANT

Revision History

A revision might be a part number change, a new instruction, or other information that was not available at print time. We reserve the right to make changes to these instructions without notice and without incurring any liability by making the changes. Equipment owners may request a revised manual, at no charge, by calling 1 (800) 922-2178 in the USA.

Revision Date	*Revised Pages*	*Serial Number Effectivity*	*Revision Description*
27.06.22	All	W2204106955	Released First Edition
23.09.26	28	All	Added fuses
23.09.26	All	All	Revised group labeling

LIMITED WARRANTY

American Dish Service (herein referred to as ADS), 300 Blake Street, Edwardsville, KS 66111-3820 U.S.A. warrants machines, and parts, as set out below.

Warranty of Machines: ADS warrants all new machines of its manufacture bearing the name "ADS" and installed within the United States, Islands, Mexico 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 ADS, whichever occurs first. [See below for special provisions relating to glasswashers.]

Warranty registration must be submitted to ADS within ten (10) days after installation in the USA Via email, USPS . or by fax on the form provided at the front of this manual. If warranty registration is not returned to ADS within such period, the warranty will expire after one year from the date of shipment.

ADS 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, ADS, at its election, will either repair or replace the defective machine or accept return of the machine for full credit; provided; however, as to glasswashers, ADS 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 ADS elects to repair, the labor and work to be performed in connection with the warranty shall be done during regular working hours by a ADS authorized service technician. Defective parts become the property of ADS. Use of replacement parts not authorized by ADS will relieve ADS of all further liability in connection with its warranty. In no event will ADS warranty obligation exceed ADS's charge for the machine. The following are not covered by ADS 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 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 or acts of Mother Nature - events, i.e. Flood, lightning, hurricane, re..
Warranty of Parts: ADS warrants all new machine parts produced or authorized by ADS 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 ADS will replace the defective part without charge.

DISCLAIMER OF WARRANTIES AND LIMITATIONS OF LIABILITY. ADS WARRANTY IS ONLY TO THE EXTENT REFLECTED ABOVE. ADS **MAKES NO OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED, TO ANY WARRANTY OF MERCHANTABILITY, OR FITNESS OF PURPOSE. ADS 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 ADS DISHWASHING MACHINES AND ADS PARTS, AND ALL OTHER REMEDIES ARE EXCLUDED, INCLUDING ANY LIABILITY FOR INCIDENTALS OR CONSEQUENTIAL DAMAGES.**

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

Receiving

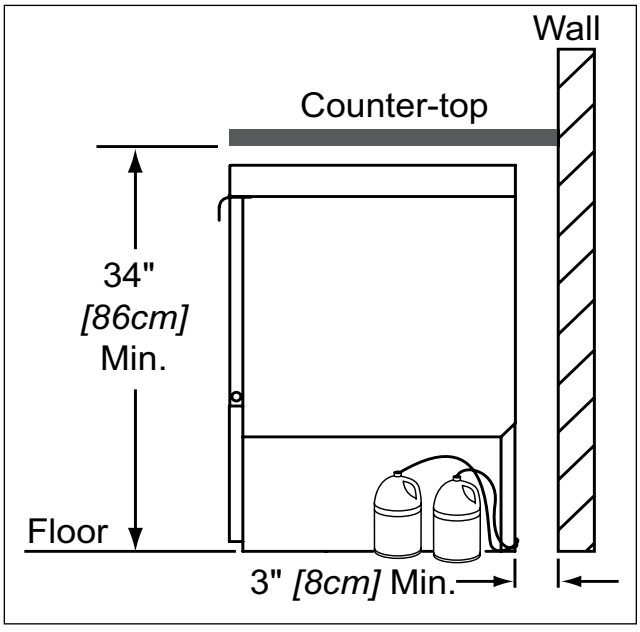
NOTE:
The installation of your dishwasher must be performed by qualified service personnel familiar with food service equipment and must comply with all local health codes.
Problems due to improper installation are not covered by the Limited Warranty.

NOTE:
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.

Placement

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

1. Inspect the outside of the dishwasher carton for signs of damage.
2. Remove the carton and inspect the dishwasher for damage.
3. Check for any options or accessories that may have shipped with your dishwasher.
4. Compare the installation site utility connections with the dishwasher utility connections and make sure they are the same.
5. The dishwasher can be installed as a free-standing unit or under a counter-top. The typical counter-top height in most locations is 34" [86cm].
6. It is highly recommended that the underside of the counter-top be clad in metal.
7. Under counter installations should provide storage space for the dishwasher chemical supply containers. Do not elevate the containers above the finished floor.
8. Chemical supply containers should be placed as close to the machine as possible and the chemical tubing taped to the back of the machine should be repositioned before permanently placing the machine.
9. Place the dishwasher in its permanent location.
10. The dishwasher has 4 adjustable feet for leveling.
11. Level the dishwasher front-to-back and side-to-side.



Connecting Incoming Power to the Main Terminal Block for 1PH and 3PH Machines with Boosters

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 or service disconnect switch to indicate that work is being performed on the circuit.

! VERY IMPORTANT !
PROVIDE A 3 FEET/1 METER SERVICE LOOP IN THE POWER SUPPLY CABLE TO SERVICE THE DISHWASHER.

! SINGLE PHASE POWER REQUIREMENT !

SINGLE PHASE
The electrical power must be a 3-wire plus ground supply which includes a current carrying neutral.

! THREE PHASE POWER REQUIREMENT !

THREE PHASE
The electrical power must be a 4-wire plus ground supply which includes a current carrying neutral.

Electrical Connections - 1PH and 3PH Wiring Diagrams

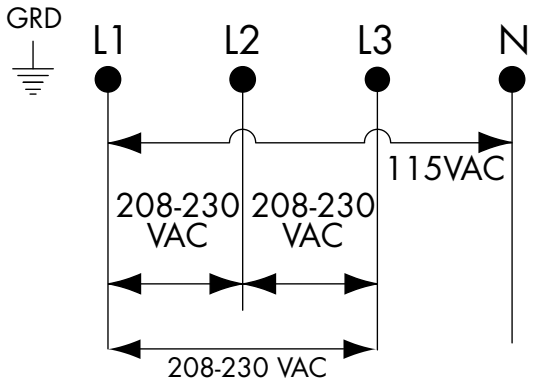
! ATTENTION !

ALL DISHWASHERS ARE SHIPPED FROM THE FACTORY WIRED FOR SINGLE PHASE OPERATION UNLESS SPECIFIED AT THE TIME OF ORDER.

IF YOU ARE CONVERTING A SINGLE PHASE MACHINE TO THREE PHASE BE SURE TO FOLLOW THE BOOSTER WIRING INSTRUCTIONS ON PAGES 7-8.

Refer to the connection diagrams below to connect main incoming power to the dishwasher.

THREE PHASE POWER CONNECTION



! VERY IMPORTANT !

THE ELECTRICAL POWER MUST BE A 4-WIRE PLUS GROUND SUPPLY WHICH INCLUDES A CURRENT CARRYING NEUTRAL.

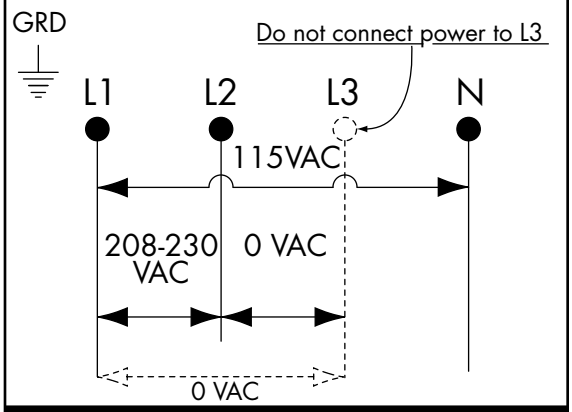
HOW TO CONNECT 3 PHASE POWER

1. Check the data plate on the front of the dishwasher for the phase of the machine.

If the data plate says the machine is 3 Phase, then connect a 3 PH power supply.

2. Remove the lower access panel.
3. Pull power connection box forward and out.
4. The Main Terminal Block has terminals for L1, L2, L3, Neutral and Ground.
5. Connect ground, then connect L1, L2, L3 to 208-230VAC.
6. Connect a current carrying neutral to N.
7. Main power connections are complete.

SINGLE PHASE POWER CONNECTION



! VERY IMPORTANT !

THE ELECTRICAL POWER MUST BE A 3-WIRE PLUS GROUND SUPPLY WHICH INCLUDES A CURRENT CARRYING NEUTRAL.

HOW TO CONNECT 1 PHASE POWER

1. Check the data plate on the front of the dishwasher for the phase of the machine.

If the data plate says the machine is 1 Phase, then connect a 1 PH power supply.

2. Remove the lower access panel.
3. Pull power connection box forward and out.
4. The Main Terminal Block has connections for L1, L2, L3, Neutral and Ground.
5. Connect ground, then connect L1, L2 to 208-230VAC.
6. Connect a current carrying neutral to N.

DO NOT CONNECT POWER TO L3.

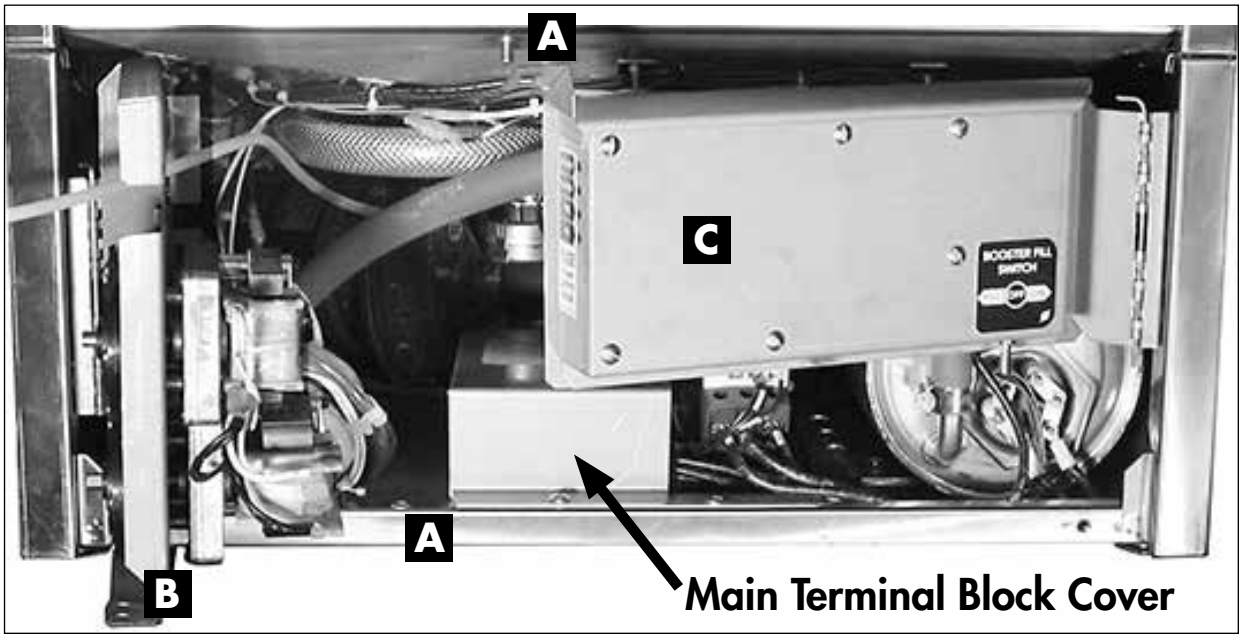
7. Main Power connections are complete.

Connecting Incoming Power to the Main Terminal Block for 1PH and 3PH Machines with Boosters

Refer to the photo below:

1. Remove the lower front dishwasher panel.
2. Remove the retaining fasteners (A) from the swing-out brackets and swing the chemical pump bracket (B) and the chemical circuit board bracket (C) out of the way as shown.

(continued on next page)

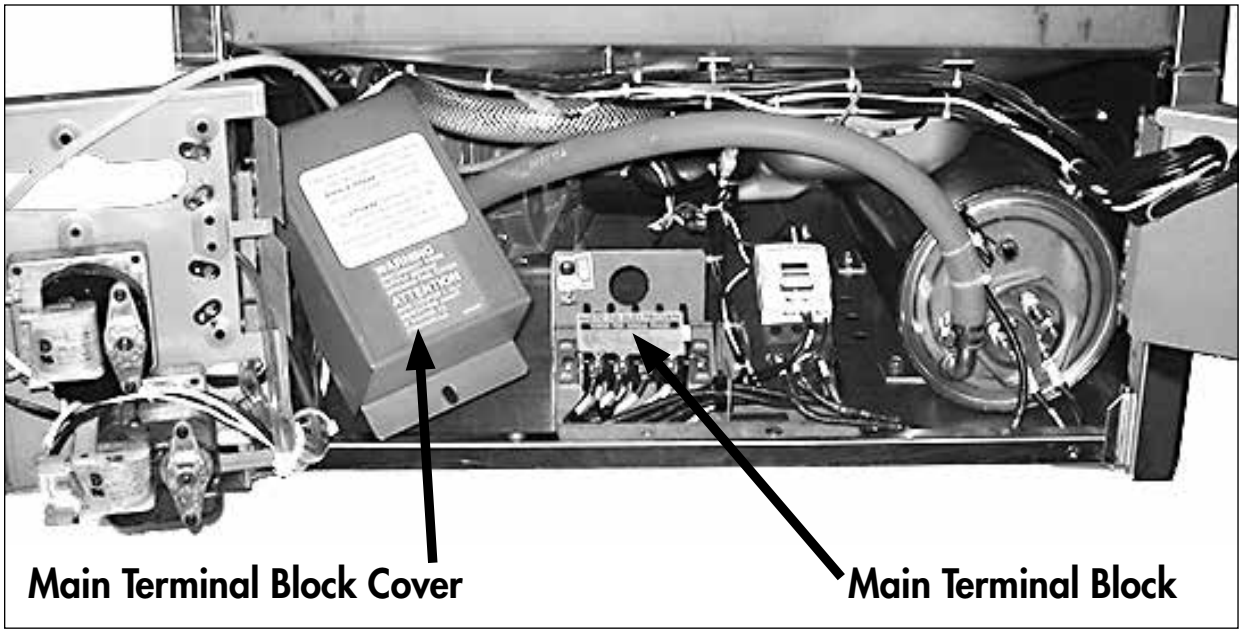


Connecting Incoming Power to the Main Terminal Block for 1PH and 3PH Machines with Boosters

(continued from previous page)

Refer to the photo below:

3. Provide a 3 foot/1 meter service loop in the power supply cable to service the machine
4. Route the power cable from the rear of the machine to the terminal block making sure the cable does not touch the booster tank.
5. Connect the power cable to the terminal block bracket using a suitable strain relief connector.
6. Connect the power wires according to the wiring diagrams on page 3 for either single phase or three phase operation.
7. Swing the chemical pump bracket and the chemical board back into position and secure with the existing fasteners.



Booster Heater Conversion from 1PH to 3 PH Operation

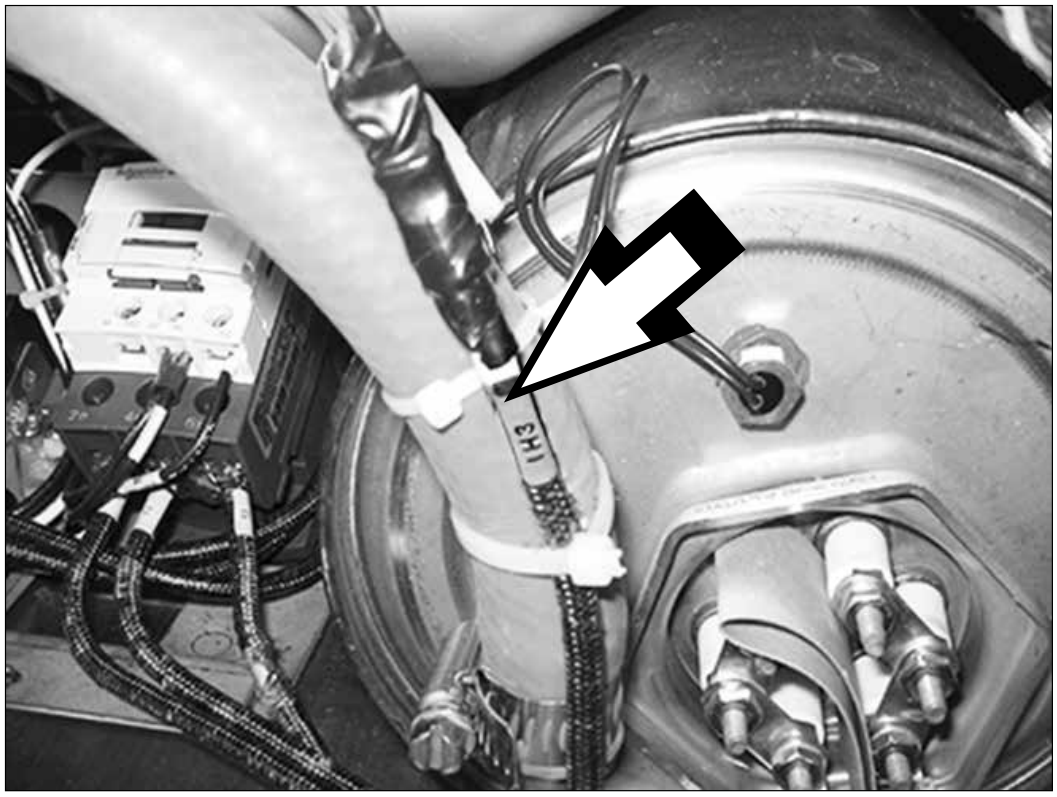
! VERY IMPORTANT !
THE BOOSTER HEATER IS WIRED FOR 1PH OPERATION WHEN SHIPPED.
FOLLOW THE INSTRUCTIONS BELOW TO WIRE THE BOOSTER FOR 3PH.

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 or service disconnect switch to indicate that work is being performed on the circuit.

1. To convert the booster heater from single phase to three phase operation, locate the booster wire labeled 1H3 that is cable-tied to the booster hose.
2. Remove the shrink insulation from the terminal and connect to the booster heater element as shown in the wiring diagram on page 8.

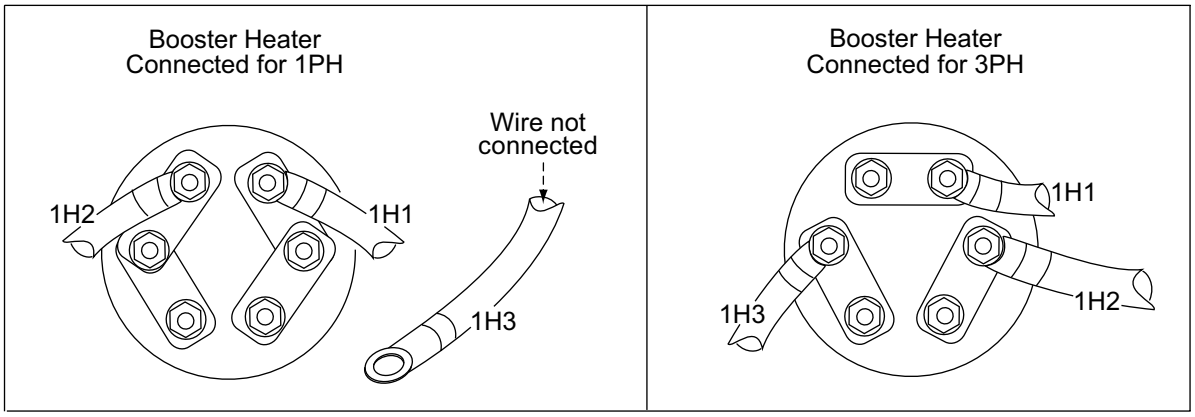


The three phase booster wire (1H3) is cable-tied to the hose adjacent to the booster tank.

Booster Heater Conversion from 1PH to 3 PH Operation (continued)

! VERY IMPORTANT !
THE BOOSTER HEATER IS WIRED FOR 1PH OPERATION WHEN SHIPPED.
FOLLOW THE INSTRUCTIONS BELOW TO WIRE THE BOOSTER FOR 3PH.

3. Disconnect the existing booster heater wires and change the booster heater element jumpers as shown in the illustration below
4. Connect wires 1H1, 1H2, and 1H3 as shown below.



Wiring Diagram - Booster heater element connections shown for 1 phase and 3 phase operation.

5. A replacement 3PH data plate is stowed on the back of the lower front access panel.
6. Replace the existing 1PH data plate on the front of the panel with the new 3PH data plate. Discard the 1PH data plate.
7. Refer to the instructions on page 3 to connect the main incoming power to the machine.

Completing the 1PH to 3PH Electrical Conversion

! ATTENTION !

CHANGE THE DATA PLATE ON THE LOWER FRONT PANEL OF THE MACHINE

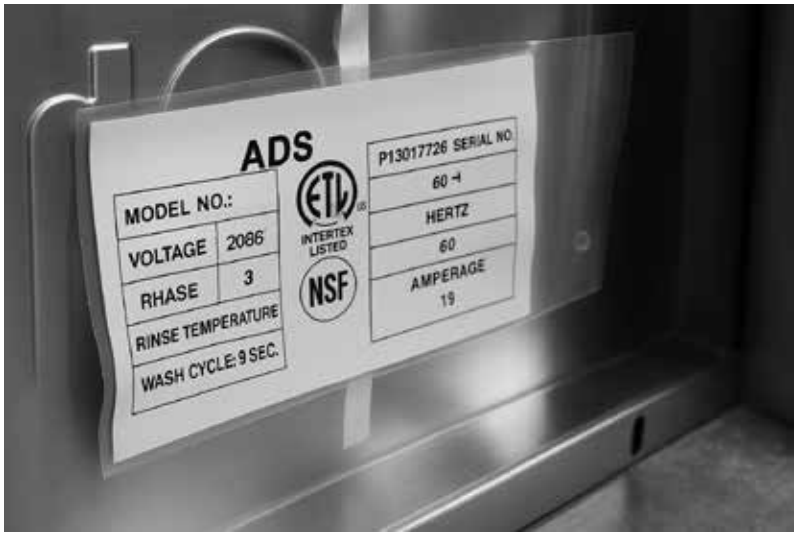
AFTER THE MACHINE IS WIRED FOR 3PH AND THE BOOSTER HEATER IS CONNECTED FOR 3PH.

1. The data plate on the dishwasher lower front panel must be changed after the machine is converted from single phase operation to three phase operation.

2. Locate the replacement data plate stowed on the back of the lower front panel.

3. Remove the paper backing from the label and carefully place it over the existing data plate label making sure it covers the label completely.

4 Re-install the lower front panel to complete the conversion.



A three phase data plate is located on the back of the lower front panel.

Water Connections

! VERY IMPORTANT !
Make sure the flexible water supply and drain hoses are not kinked.
Plumbing connections must allow the machine to be pulled out for service and cleaning.

Plumbing connections must comply with national, provincial local plumbing and sanitary codes. Only qualified service personnel familiar with food service equipment should install the machine.

The installing plumber must thoroughly flush the water supply line to remove all debris BEFORE connecting the water supply line to the machine.

1. All models have a 6 ft. flexible hot water fill hose with a 3/4" female garden hose connector.

2. A 1/2" or larger main incoming supply line must be installed to the dishwasher.

3. A 1/2" or larger shut-off valve should be installed in the main water supply, as close to the dishwasher as possible for servicing.

4. The hot water supply must provide a minimum of 180°F/82°C, measured at the dishwasher. **A pressure regulating valve, PRV, (supplied), must be installed after the shut-off service valve if the incoming flow pressure exceeds 20-22 psi.**

   The hot water supply must provide a minimum of 140°F/60°C, measured at the dishwasher for 40°F/22°C rise booster or 110°F/43°C for 70°F/39°C rise booster.
   A pressure regulating valve, PRV, (supplied), must be installed after the shut-off service valve if the incoming flow pressure exceeds 20-22 psi.

5. A water hardness of 3 grains/gal (US) [5.3 mg/L] or less is recommended. Excessively hard water will negatively impact wash results.

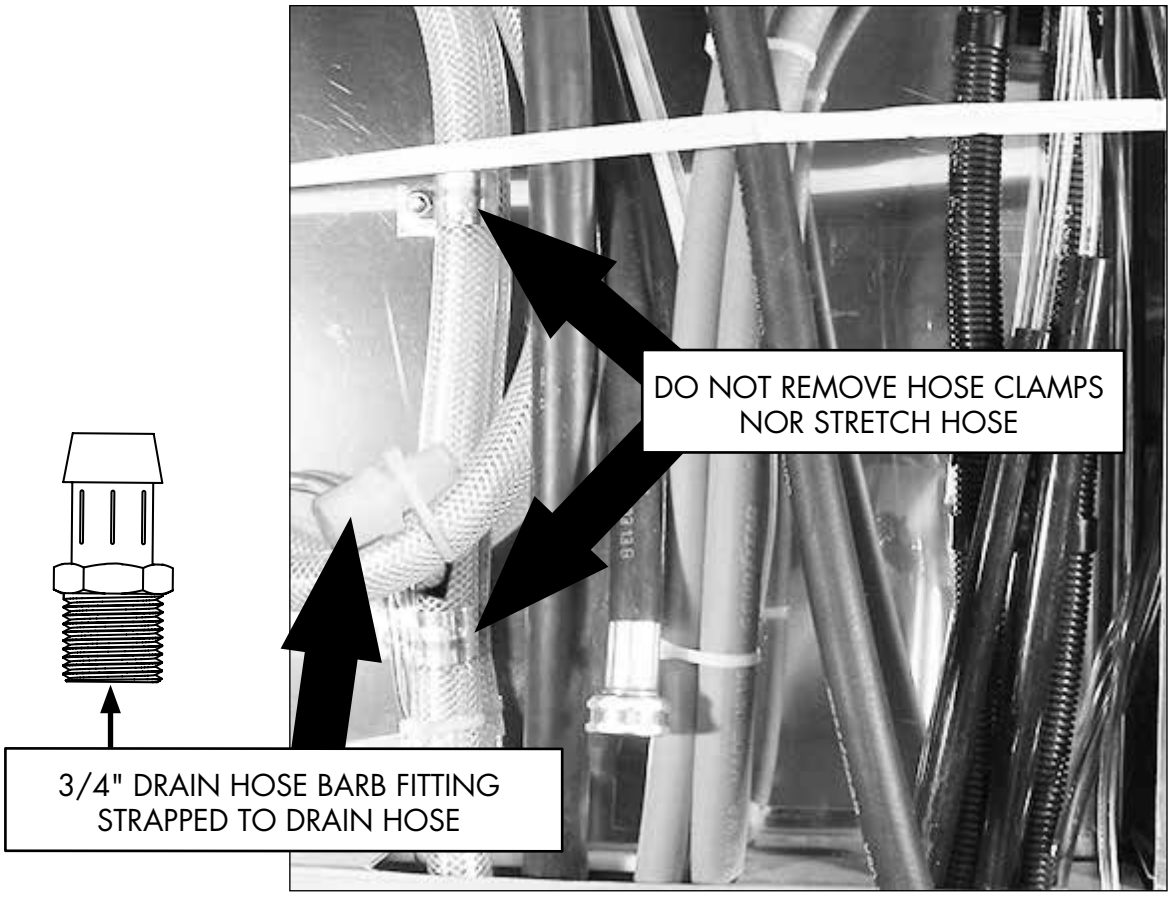
Drain Connections

! VERY IMPORTANT !
Do not connect the drain hose to a disposer. The dishwasher will not drain correctly.

Refer to the photo below.

1. All models are equipped with a 6 ft.. 5/8" I.D. drain hose. The maximum drain height connection must not exceed 3 ft.[1 m] and must be vented to prevent the wash tank from siphoning.
2. The drain hose is located at the rear of the dishwasher, and is secured to the rear of the machine by two clamps to maintain an anti-siphoning loop in the drain hose.
3. A 3/4" hose barb fitting is strapped to the drain hose prior to shipment. The service part number for the hose barb is P/N 0512321.
4. Additional plumbing parts must be supplied by the plumbing installer.
5. The maximum drain flow is 15 US gpm/12.4 imp gpm/60 lpm.

! ATTENTION !
FAILURE TO FOLLOW THE DRAIN CONNECTION INSTRUCTIONS MAY VOID THE WARRANTY.



Drain Connection *(continued)*

NOTE
Plumbing connections must comply with national, provincial local plumbing and sanitary codes.

DO NOT REMOVE THE CLAMPS HOLDING THE DRAIN HOSE TO THE BACK OF THE DISHWASHER.

DO NOT CONNECT THE DRAIN HOSE TO A DISPOSER.

DO NOT REDUCE THE SIZE OF THE DRAIN HOSE CONNECTION NOR USE A DOMESTIC DRAIN FITTING.

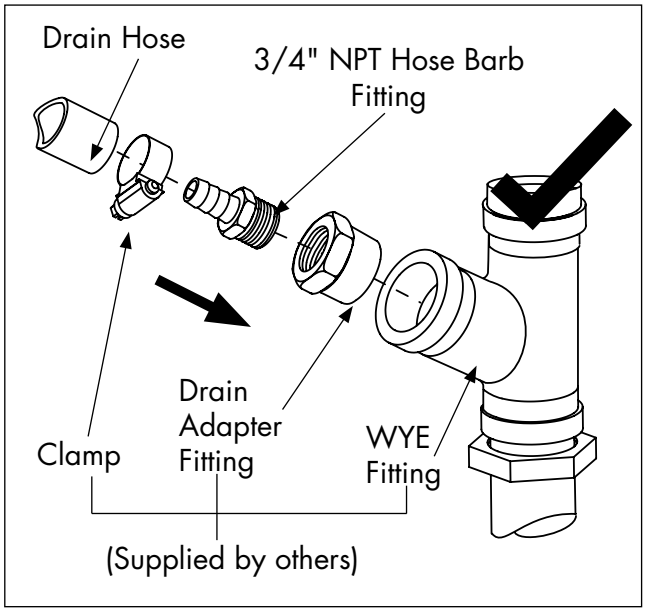
DO NOT ADD ADDITIONAL LENGTH TO THE DRAIN HOSE.

DO NOT ALLOW THE DRAIN HOSE TO KINK.

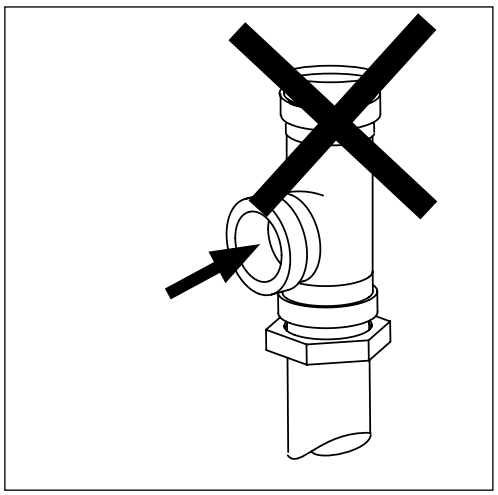
For a Direct Drain Connection:

1. Install the drain hose to an 1-1/2" or larger vented "WYE" drain fitting.

2. CONNECTION TO A "TEE" FITTING WILL PREVENT THE DISHWASHER FROM DRAINING COMPLETELY.



DO
connect the dishwasher flexible drain hose to a vented WYE drain fitting.

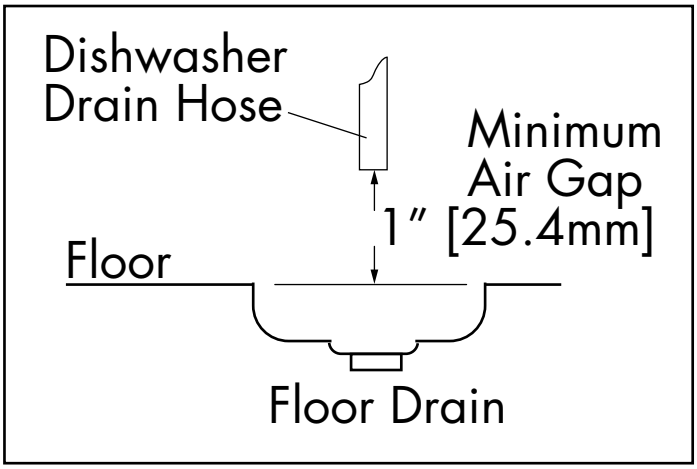


DO NOT
connect the dishwasher flexible drain hose to a TEE drain fitting.

Drain Connection

For an Indirect Drain Connection:

1. A 1" [25.4mm] minimum air gap must be provided between the outlet of the dishwasher drain hose and the flood-level rim of the floor drain, floor sink or any other locally approved drain receptacle. (See illustration below.)



! VERY IMPORTANT !
IMPROPER INSTALLATION OF MACHINE DRAIN HOSE.
Machine drain problems are often the result of improper installation and may not be covered by the limited warranty.

Booster Fill Switch - (Filling the booster tank for the first time)

! CAUTION !
AVOID PERMANENT DAMAGE TO THE BOOSTER HEATER

DO NOT TURN THE DISHWASHER POWER SWITCH ON WHEN FILLING THE BOOSTER FOR THE FIRST TIME.

THE BUILT-IN BOOSTER TANK WAS DRAINED BEFORE SHIPMENT AND MUST BE REFILLED BEFORE OPERATING THE DISHWASHER.

THE BOOSTER FILL SWITCH IS LOCATED BEHIND THE LOWER FRONT PANEL ON THE RIGHT SIDE OF THE MACHINE.

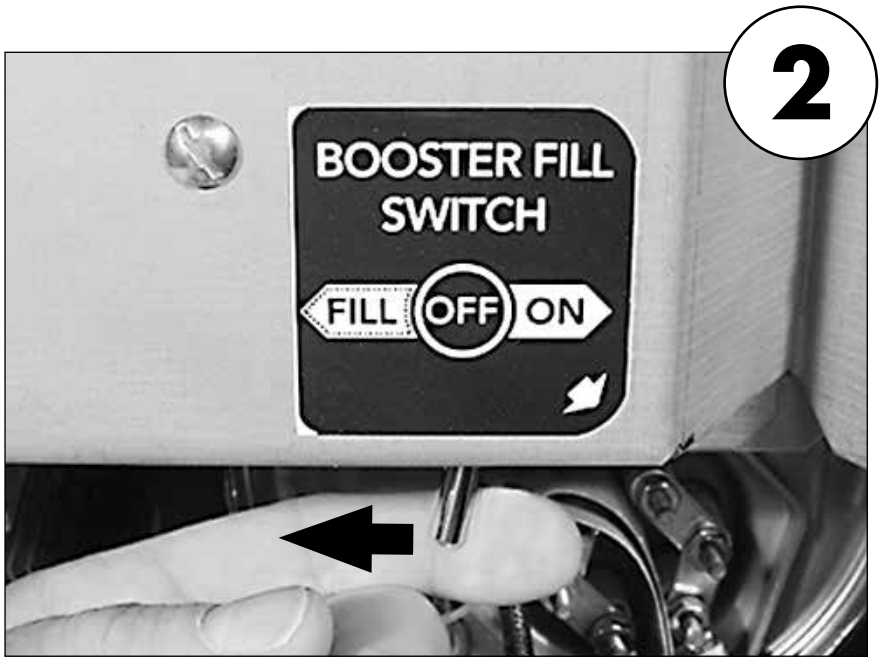
To refill the booster for the first time:

1. Turn the main breaker or disconnect switch to the dishwasher ON.
2. **DO NOT PUSH THE DISHWASHER ON-OFF/DRAIN POWER SWITCH TO THE ON POSITION**.
3. Locate the booster fill switch and note the switch is in the OFF position.

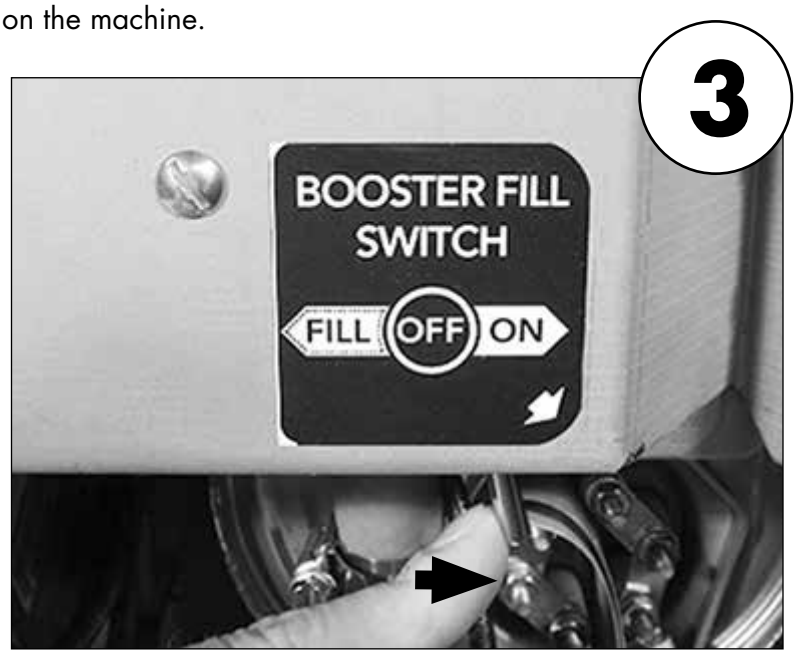
(continued on next page)

Booster Fill Switch - (Filling the booster tank for the first time)

4. PUSH AND HOLD the booster fill switch in the FILL position until water starts filling inside the wash compartment.
5. Release the FILL switch.



6. PUSH the booster fill switch to the ON position and release.
7. The booster fill operation is complete.
8. Replace the lower front panel on the machine.



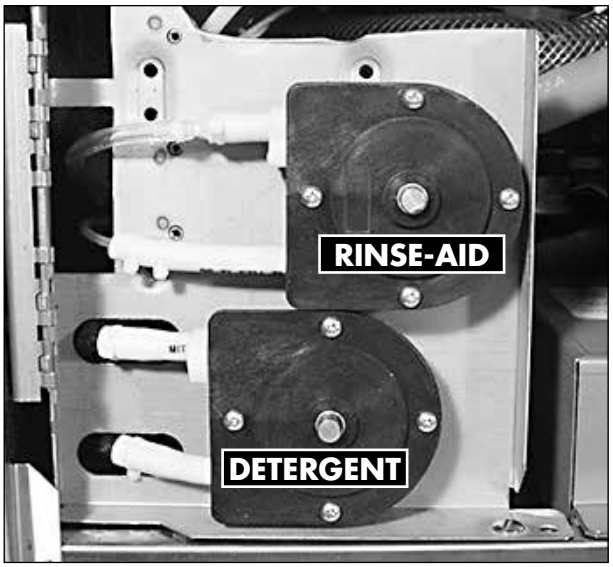
Chemical Connections

! VERY IMPORTANT !
ALWAYS USE A COMMERCIAL-GRADE NON-CHLORINATED DETERGENT.
PLACE THE CHEMICAL SUPPLY CONTAINERS AS CLOSE TO THE MACHINE AS POSSIBLE.
DO NOT ELEVATE THE CHEMICAL CONTAINERS ABOVE THE FINISHED FLOOR.

! VERY IMPORTANT !
Contact a chemical supplier for detergent and rinse-aid chemicals. The chemical supplier must adjust the chemical dispensing pumps for water hardness and food soil types.

Chemical Dispensing Pumps

1. The detergent and rinse-aid pumps are located on the lower left-side of the machine behind the lower-front access panel.
2. Each pump is equipped with 6 feet [1.8 m] of pick-up tubes consisting of supply tubing, stiffener tubes, and strainers.
3. The pick-up tubes are stowed on the back of the machine for shipping.
4. A red label marked DETERGENT and a blue label marked RINSE-AID identify the chemical lines.



The pumps are located on the left-side behind the lower front panel of the dishwasher.

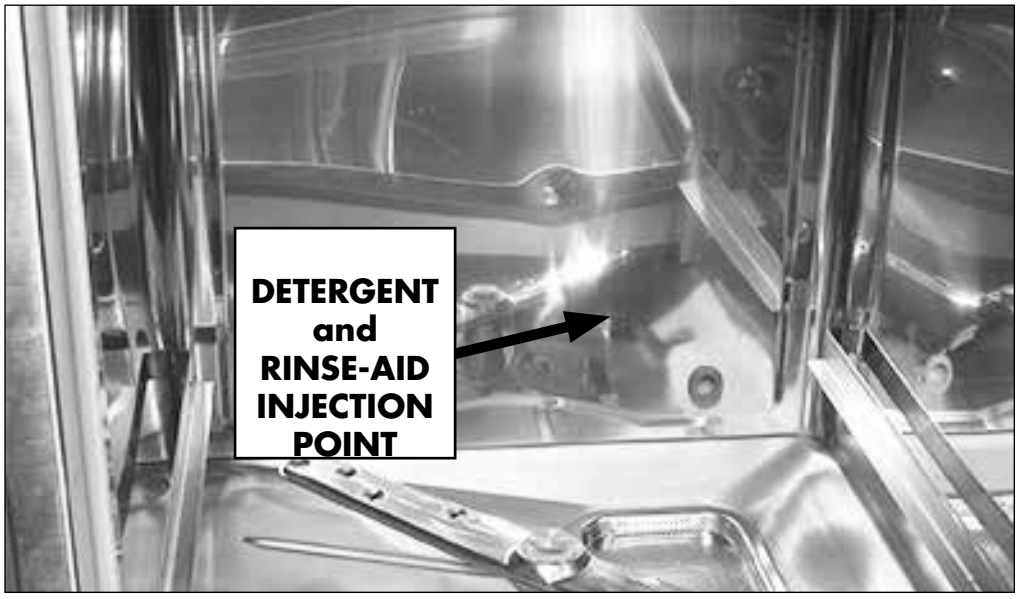
Pumps and Injection Points - Detergent and Rinse-aid Dispensing Pumps

! VERY IMPORTANT !
ALWAYS USE A COMMERCIAL-GRADE NON-CHLORINATED DETERGENT.
PLACE THE CHEMICAL SUPPLY CONTAINERS AS CLOSE TO THE MACHINE AS POSSIBLE.
DO NOT ELEVATE THE CHEMICAL CONTAINERS ABOVE THE FINISHED FLOOR.

Injection Point Locations

1. The detergent and rinse-aid enter the wash tank compartment through a fitting on back right corner of the wash compartment.

(continued on next page)

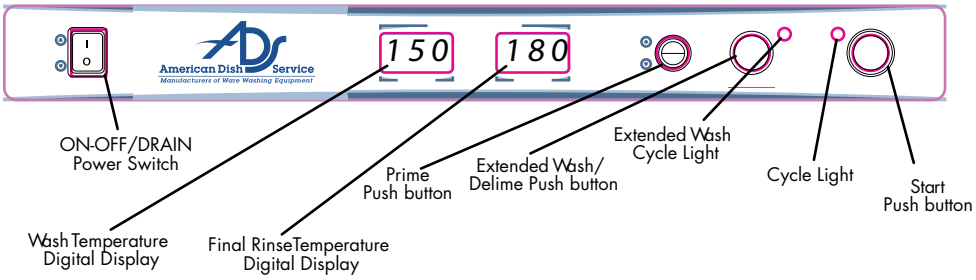


Pumps and Injection Points - Detergent and Rinse-aid Dispensing Pumps

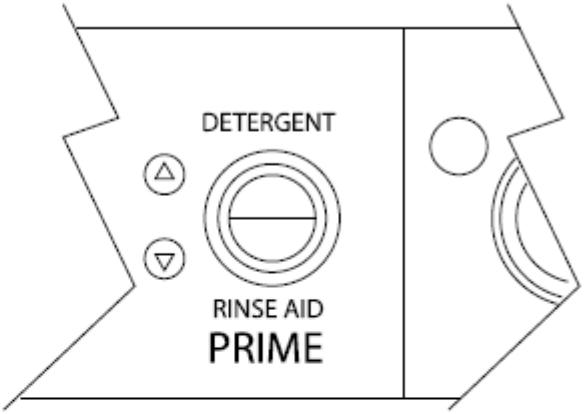
Priming the Dispensing Pumps

! VERY IMPORTANT !

The chemical dispensing pumps must be primed before operating the dishwasher and whenever the chemical container is changed.



1. The chemical dispensing pump supply lines must be primed before they will pump the chemicals properly .
2. Make sure the chemical containers are full and the correct pick-up tubes are in their containers.
3. Turn the dishwasher power switch ON. The switch will illuminate and the dishwasher will fill with water.
4. Open the dishwasher door , then push and hold the prime push button UP to the DETERGENT position until detergent is observed entering the wash tank compartment through the fitting located on the back right corner of the tank. Release the push button.



5. Push and hold the prime push button DOWN to the Rinse-aid position until you see air bubbles moving through the rinse-aid tubing coming out of the chemical container . Release the push button.
6. Close the door to complete the priming operation.

(continued on next page)

Detergent and Rinse-aid Dispensing Pumps - Pump and Fill Adjustments

! ATTENTION !

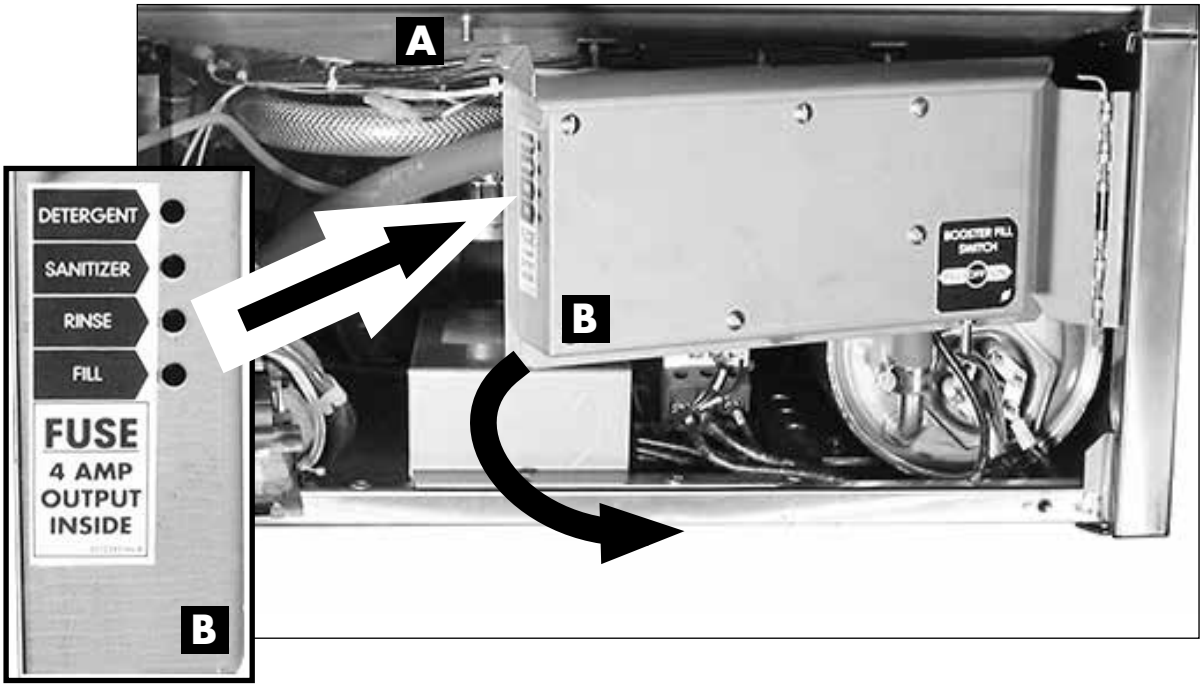
The amount of dispensed chemical is determined by the run time of the dispensing pump.

Refer to the photo below:

1. The chemical dispensing pump run and the tank fill adjustment screws are located on the end of the chemical circuit board swing-out bracket.
2. It is not necessary to swing the bracket out to make adjustments, but if desired, remove the mounting nut (A) and swing the bracket (B) out and to the right.
3. Refer to the next page for adjustment instructions.

! VERY IMPORTANT !

INSPECT & REPLACE THE CHEMICAL DISPENSING PUMP SQUEEZE TUBES EVERY SIX MONTHS.



! VERY IMPORTANT !

Contact a chemical supplier for detergent and rinse-aid chemicals. The chemical supplier must adjust the chemical dispensing pumps for water hardness and food soil types.

Operation

Loading Dish Racks

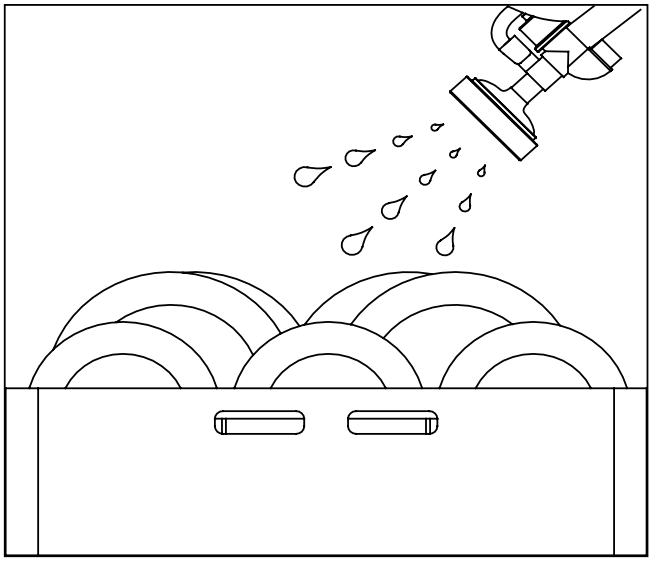
! VERY IMPORTANT !
DO NOT OVERLOAD THE DISH RACK.
LOAD ONE DISH RACK INTO THE MACHINE AT A TIME.

1. Prescrap and rinse the wares before loading to remove large food particles.
2. Load soiled wares into the dish rack. Place plates and glasses in a peg rack. Place cups and bowls in a flat bottom rack. Place utensils in a single layer in a flat-bottom rack. Place pots and pans in a flat-bottom rack.

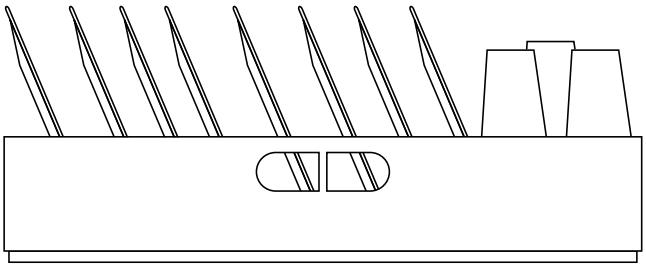
   Do not overload the dish rack. Wash one dish rack at a time.

3. Slide one dish rack into the wash compartment making sure that wares do not interfere with the rotating spray arms. Do not wash more than one dish rack at a time.

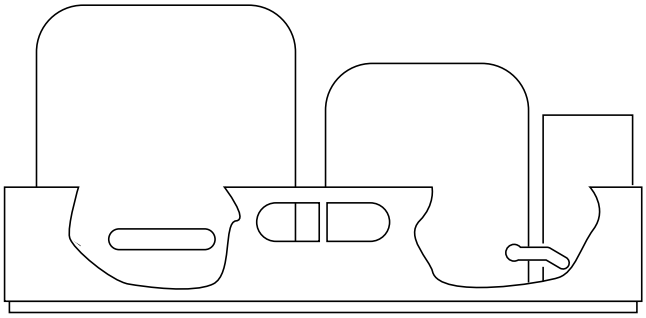
Prescrap and rinse wares before loading into the machine.



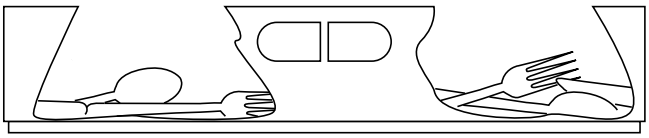
Load plates and glasses in a peg rack.



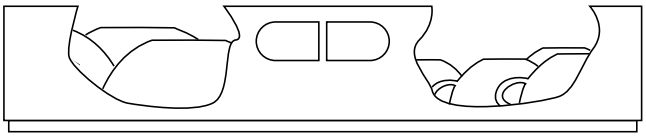
Loading Dish Racks *(continued)*



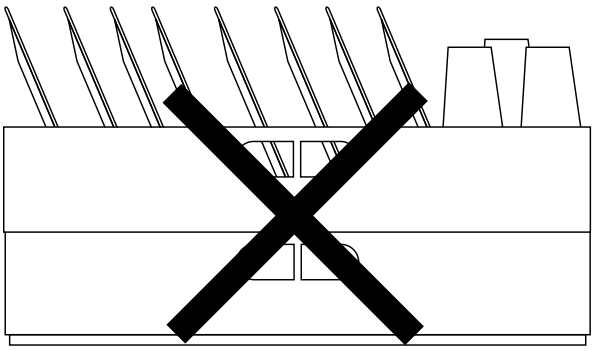
Load pots and pans in a flat-bottom rack.



Load utensils in a single layer in a flat-bottom rack.

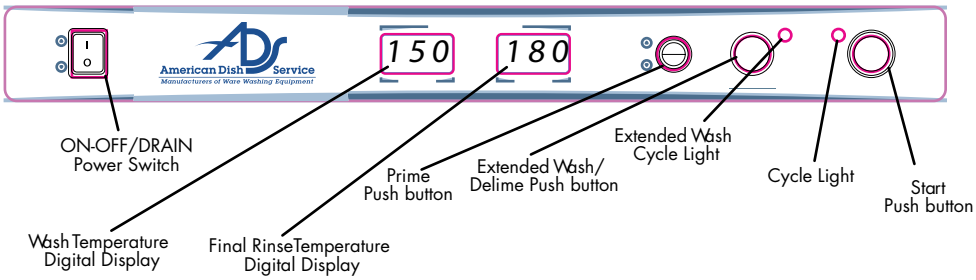


Load cups and bowls in a flat-bottom rack.



<u>NEVER</u> stack dish racks.
Wash one dish rack at a time.

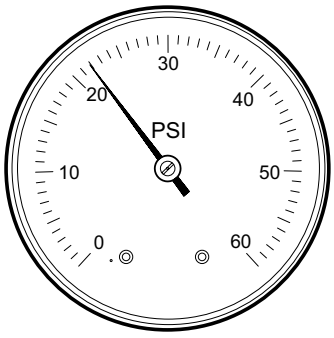
Normal Wash Mode



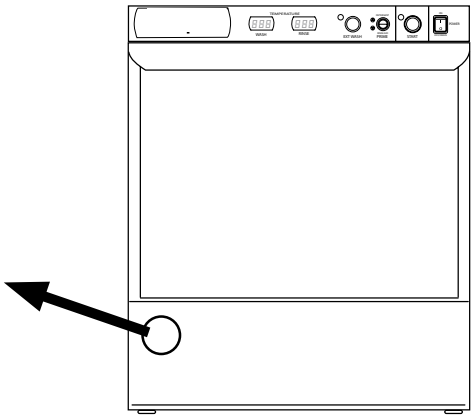
1. Close the door.
2. Push the dishwasher Power Switch UP to turn the power ON.
3. The power switch will illuminate and the machine will fill with water.
4. Check the pressure gauge as the machine fills and make sure the incoming water pressure is between 20-22 PSI.
5. Wait until the wash temperature gauge indicates a minimum of 150°F/66°C.

PLACE AN EMPTY DISHRACK IN THE MACHINE AND RUN THE FIRST CYCLE EMPTY TO HEAT THE WASH TANK INTERIOR.

6. Load the dish rack into the machine. Wash one dish rack at a time.
7. Close the door, then press the START BUTTON for 1 second. The green in-cycle light will illuminate and the wash cycle will begin. The total cycle is approximately 90 seconds.
8. Opening the door during a cycle will stop the dishwasher. If the door is open more than 5 seconds the cycle will restart from the beginning, if open less than 5 seconds the cycle will resume where it left off when the dishwasher door is closed.
9. The final rinse cycle begins at the end of the wash cycle. The machine drains and retains a portion of the final rinse water for the next wash cycle.
10. Check the rinse temperature gauge during the final rinse. It must indicate a minimum of 180-195°F/82-91°C. The final rinse water is retained for the next wash cycle.
11. Check the pressure gauge during the final rinse to ensure the gauge reads 20-22 PSI.
12. When the green cycle light goes out, open the door and remove the rack of clean wares.



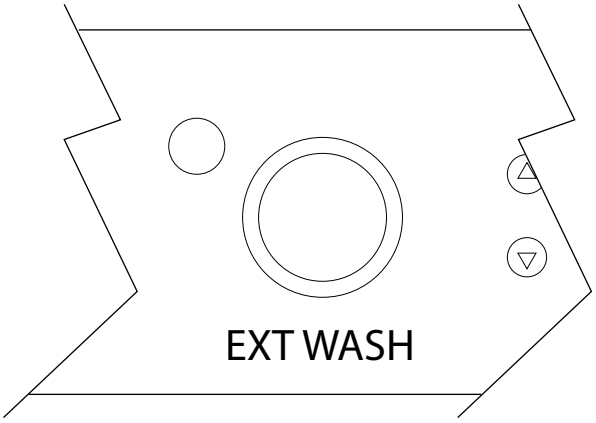
Check the pressure gauge during the final rinse to ensure the gauge reads 20-22 psi.



Extended Wash Mode

The Extended Wash Mode is used to wash heavily soiled items such as pots, pans and other wares that require more washing time than the standard 90 second Normal Wash Mode. The dishwasher will remain in the Extended Wash Mode until the operator exits the mode or a maximum of 15 minutes, whichever occurs first.

1. Load a dish rack into the dishwasher, close the door and press the START button.
2. The green in-cycle light will illuminate and the dishwasher will begin a normal wash cycle.
3. Wait 10 seconds for the detergent to enter the wash compartment before pressing the EXT WASH button.

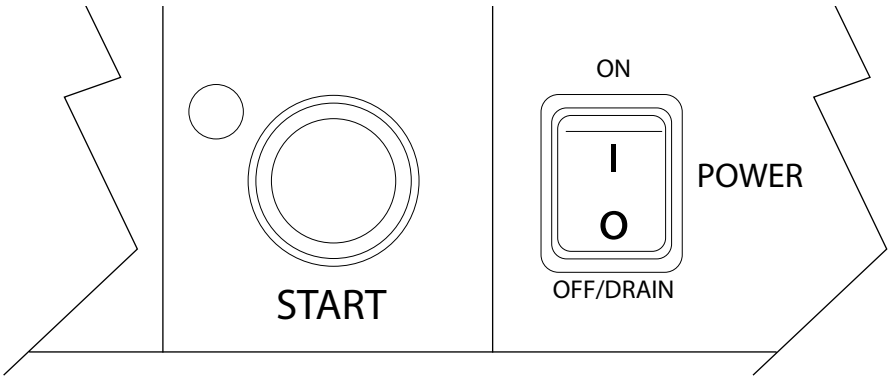


Press the EXT WASH button to place the machine into the extended wash mode to clean heavily soiled wares.

4. Press the EXT WASH button to place the dishwasher in the Extended Wash Mode.
5. The green extended wash light will illuminate indicating that the machine is in the Extended Wash Mode.
6. The dishwasher will continue to wash for a maximum of 15 minutes unless the operator presses the EXT WASH button again.
7. Press the EXT WASH button. The green extended wash light will go out indicating that the dishwasher has returned to the Normal Wash Mode.
8. The dishwasher will finish the wash cycle and perform a final rinse of the wares.

Drain Mode

The dishwasher will enter the drain mode whenever the Power Switch is pushed down to the OFF/DRAIN position.



Models

CONT.....

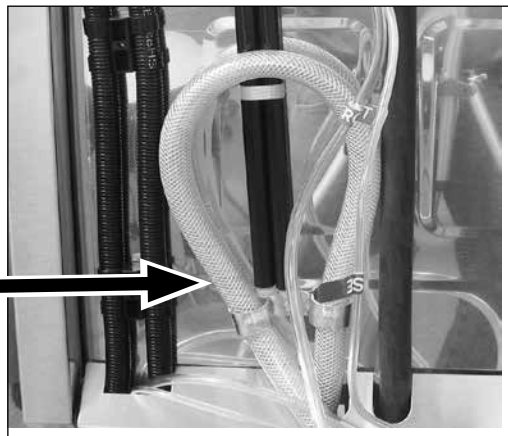
1. Push the illuminated power switch down to the OFF/DRAIN position. The power switch light will go out.
2. The cycle light will illuminate and the machine will drain.
3. The machine, will flush, perform 3 short drain cycles and then drain completely.
4. The cycle light will go out indicating that the drain cycle is complete. Do not open the door until the light goes out.

! VERY IMPORTANT !

Draining Problems Related To Improper Installation.

Problems with draining are often the result of improper installation. The drain hose is looped and clamped as shown in the photo below and must not be changed.

The drain hose is looped and clamped and must not be changed. Altering the drain hose routing may result in the machine's inability to drain or may cause the machine to siphon the water out of the machine.



Cleaning

! VERY IMPORTANT !

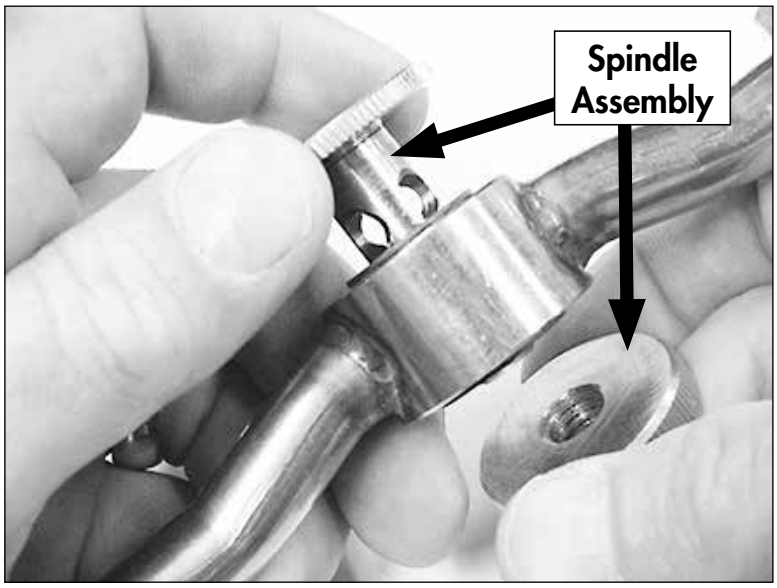
DRAIN AND CLEAN THE DISHWASHER EVERY 2 HOURS OF CONTINUOUS OPERATION, AFTER EACH MEAL PERIOD, AND AT THE END OF THE DAY.

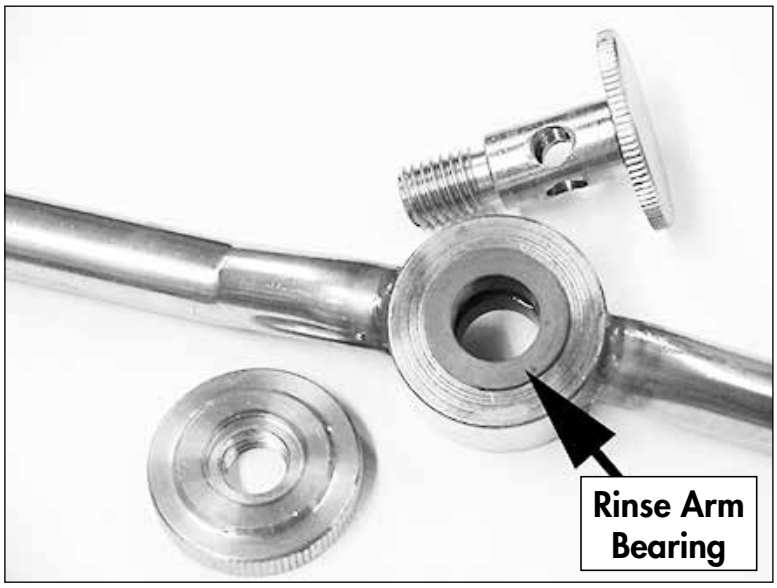
All Models

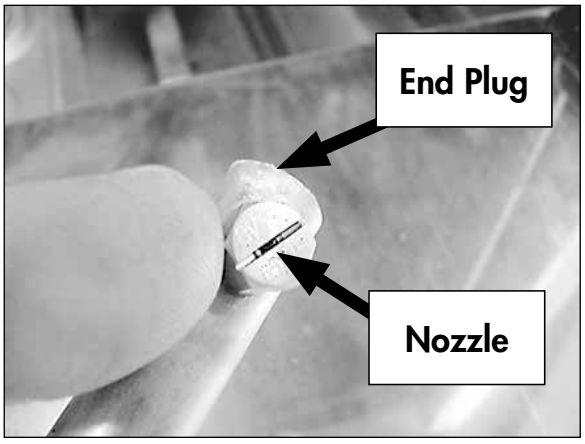
Cleaning the wash tank:

1. Remove the upper and lower spray arms and flush clean in a sink.
2. Remove the scrap screen taking care that debris does not fall off the screen and into the wash tank or sump. Flush the screen clean in a sink. Be sure to back-flush the screen.
3. DO NOT strike the scrap screen on solid surfaces.
4. Check the sump for foreign material.
5. Clean the pump intake strainer in the bottom of the sump.
6. DO NOT scrub the interior with metal scrub pads.
7. Check the sump heating element for lime deposits and gently remove with a scouring pad. DO NOT USE METALLIC SCRUB PADS.
8. Wipe the exterior of the dishwasher with a soft clean cloth and a mild detergent.
9. Leave the door open to aid in overnight drying.

Cleaning







Rinse Arms

1. There are two rinse arms in the. They are interchangeable.
2. Remove the spindle assembly and end plugs in each pipe and flush the rinse pipes.
3. Inspect the rinse arm bearings for wear and replace as necessary.
4. Clean the rinse arm nozzles with a small paper clip.
5. Reassemble the rinse arm assemblies.

All Models - Cleaning

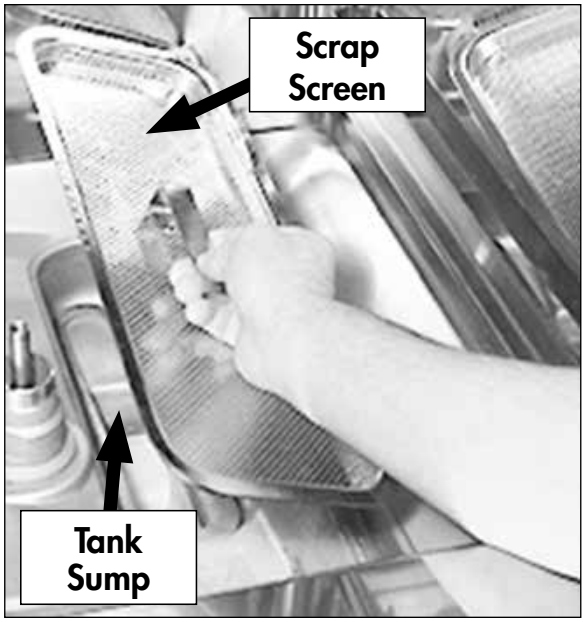
All Models
Scrap Screen and Sump Strainer

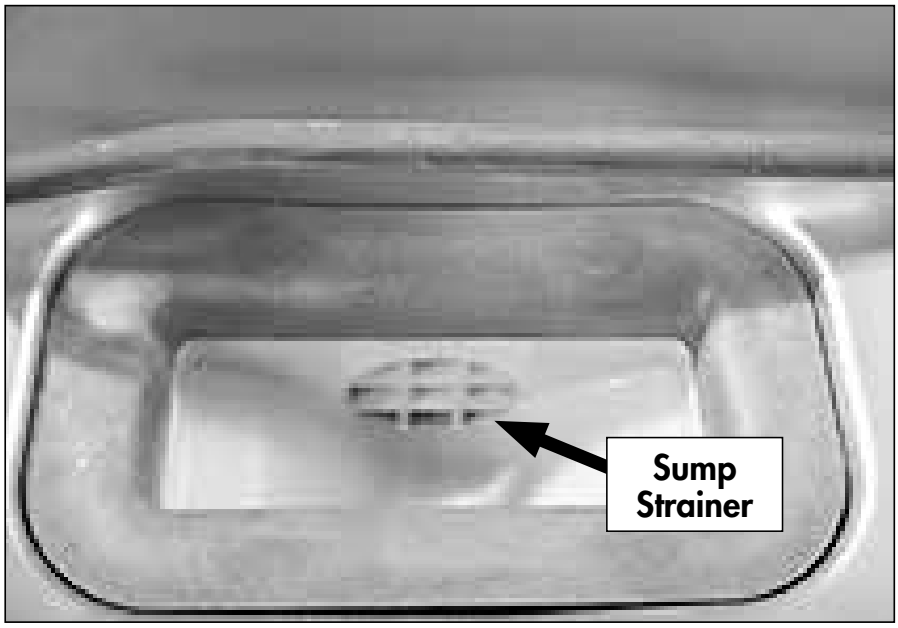
1. Lift the scrap screen straight up and out of the machine to prevent food particles from falling into the tank sump.

2. Flush the scrap screen in a remote sink making sure to back-flush both side of the screen.

3. Wipe the tank sump of water and debris.

4. Carefully inspect the pump intake strainer. This strainer is not removeable but must be thoroughly cleaned before reinstalling the scrap screen.





! ATTENTION !

A CLOGGED OR RESTRICTED SUMP STRAINER WILL PREVENT THE PROPER WASHING, RINSING AND DRAINING OF THE MACHINE.

! ATTENTION !

WIPE THE EXTERIOR OF THE MACHINE WITH A SOFT CLOTH AND MILD DETERGENT. DO NOT SPRAY THE EXTERIOR WITH WATER OR BLEACH.

LEAVE THE DOOR OPEN TO AID IN OVERNIGHT DRYING.

Deliming Cautions and Warnings

A deliming agent must be used in accordance with your chemical supplier's instructions.

DANGER:

Death or serious injury may result when deliming solution is mixed with sodium hypochlorite sanitizing agent. Mixing may cause hazardous gases to form. Deliming solution and other acids must never be mixed with chlorine, iodine, bromine, or fluorine.

CAUTION:

Skin contact with deliming solutions can cause severe irritation and possible chemical burns. Always wear eye protection, rubber gloves and protective clothing when handling chemicals.

A deliming agent must be used in accordance with your chemical supplier's instructions.
Follow the steps below to de-lime

1. Open the dishwasher door and remove any dish racks.
2. Turn the power switch on the dishwasher to the ON position.
3. Remove the detergent and rinse-aid, and sanitizer chemical supply tubing from their chemical supply containers.
4. Place the tubing in a container of hot water.
5. Press and hold the prime switch UP in the DETERGENT position to flush the detergent from the supply tubing. Release the switch.
6. Press and hold the rinse-aid prime switch UP in the RINSE AID position to flush the rinse-aid from the supply tubing. Release the switch.
7. Turn the dishwasher power switch to OFF/DRAIN to drain the wash tank. The green cycle light will go out in about 2 minutes.
8. Always wear eye protection, rubber gloves and protective clothing when handling chemicals.
9. Open the door and carefully add the de-liming chemical to the wash tank in accordance with your chemical supplier's instructions. Be careful to avoid splashing.
10. Close the door and press the VARI-CYCLE/Delime push button three times.
11. The VARI-CYCLE green indicator light will illuminate and the machine will run.
12. Check the deliming results and if scale is still present repeat steps 9-11.
13. Push the power switch ON to refill the machine.
14. Run 4 empty cycles to flush any deliming chemicals from the machine.
15. Return chemical supply tubing to their containers and prime the chemical lines.
16. Return the dishwasher to normal operation.

Follow the maintenance schedules below to keep the dishwasher operating most efficiently.

Daily Maintenance

1. Make sure the water supply is on and that the drain is not clogged.
2. Check the temperature gauges and/or displays to ensure they are operating.
3. Make sure the dish racks are in good condition.
4. Check the chemical containers and refill as required.
5. Follow the cleaning procedures provided

Weekly Maintenance

1. Perform Steps 1-5 in the Daily Maintenance.
2. Inspect water lines for leaks.
3. Check for water leaks underneath the dishwasher.
4. Make sure the flexible water fill and drain hoses are not kinked.
5. Make sure that the dishwasher is level.
6. Clean accumulated lime deposits from the wash tank heating element.
7. Inspect the scrap screen and replace it if damaged.
8. Check the spray arms and replace or repair if damaged.

Monthly Maintenance

1. Perform the Daily and Weekly Maintenance listed above.
2. Clean the chemical dispenser pick-up tubing for the chemical dispensing pumps.

To clean the pick-up tubing:

1. Remove the pick-up tubes from their containers.
2. Place each tube in a separate container of hot water.
3. Press and hold the PRIME buttons UP and DOWN until water flows into the wash tank compartment.
4. Return the pick-up tubes to their containers.
5. Run 3 empty dishwasher cycles to flush any chemicals from the dishwasher wash compartment.
6. Return the pick-up tubes to their containers and prime the chemical lines.

NOTE:
There are no lubrication points on the dishwasher.

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Troubleshooting

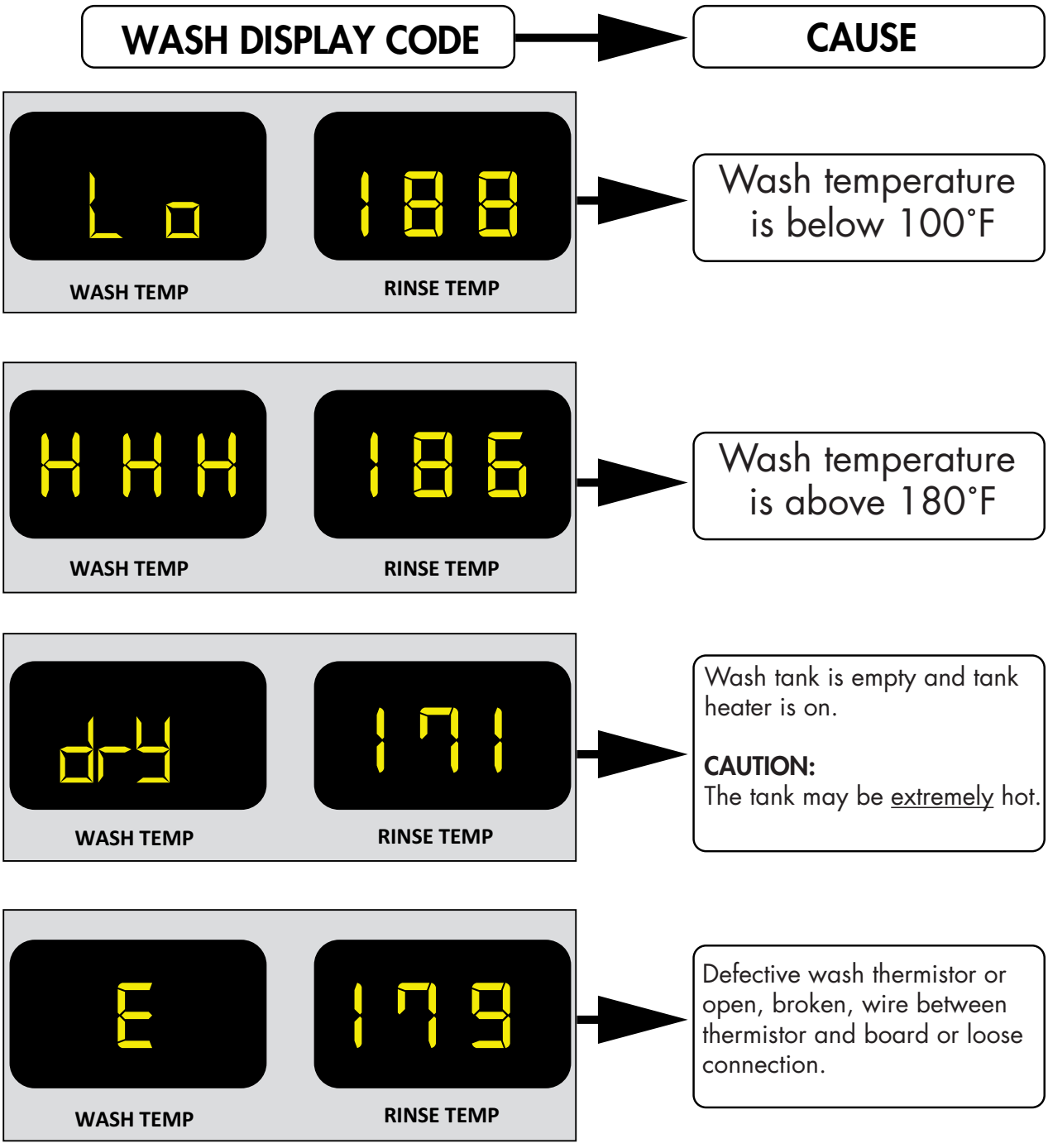
Illustrations ***Page***

Condition	Cause	Solution
Dishwasher will not run.	Door not closed. Main power OFF. Dishwasher OFF.	Close door completely. Check breaker on panel. Turn dishwasher power switch ON.
Low or no water.	Main water supply off. Fill hose kinked. Low incoming water pressure Solenoid valve defective. Solenoid strainer clogged. Circuit board fuse blown.	Open supply valve. Straighten fill hose. Set flowing water pressure to 20-22 PSI. Install repair kit or replace. Clean strainer. Contact service agent..
Chemicals won't feed into dishwasher.	Chemical supply low. Supply tubing damaged. Supply tubing kinked. Pick-up tube clogged Chemical circuit board fuse blown.	Refill chemical container. Replace tubing. Straighten tubing. Clean/replace tube. Contact service agent.
Low water pressure pumped from wash spray arms.	Clogged scrap screen. Clogged spray arms. Clogged pump intake screen.	Clean scrap screen. Clean spray arms. Inspect sump and clean pump intake screen.
Poor wash results.	Excessively hard water. Water temperature low. Thermistor defective. (See chemicals won't feed above.) (See low or no water above.) Detergent injector defective. Chemical circuit board fuse blown. Wares incorrectly loaded. in dishrack. Booster high limit tripped. Wash tank high limit tripped.	Contact chemical supplier. Raise incoming water temperature to 140°F Replace thermistor. (See chemicals won't feed above.) (See low or no water above.) Replace squeeze tube. Replace injector motor. Clean tubing and pick-up. Contact service agent. Reposition wares or reduce amount of wares in dish racks. Reset or replace high limit. Reset or replace high limit.
Water has drained out of the wash tank while the dishwasher was idle.	Anti-siphon loop in drain hose has been removed. Drain hose clamp is not holding the drain hose in proper position. Building plumbing does not provide correct air vent to prevent siphoning.	Re-route drain hose. DO NOT STRETCH HOSE Replace/adjust hose clamp making sure goose-neck is maintained. Contact service Agent and/or plumber.
Dishwasher stays in wash cycle.	Incoming water supply cold Rinse Sentry extends wash mode for a maximum time of 5-minutes to allow final rinse water booster temperature to reach 180˚F/82˚C. Dishwasher is operating in Extended Wash Mode.(UH230B, Only)	Raise incoming water temperature. Adjust/replace final rinse booster thermistor. Push EXT WASH button to exit the Extended Wash mode.

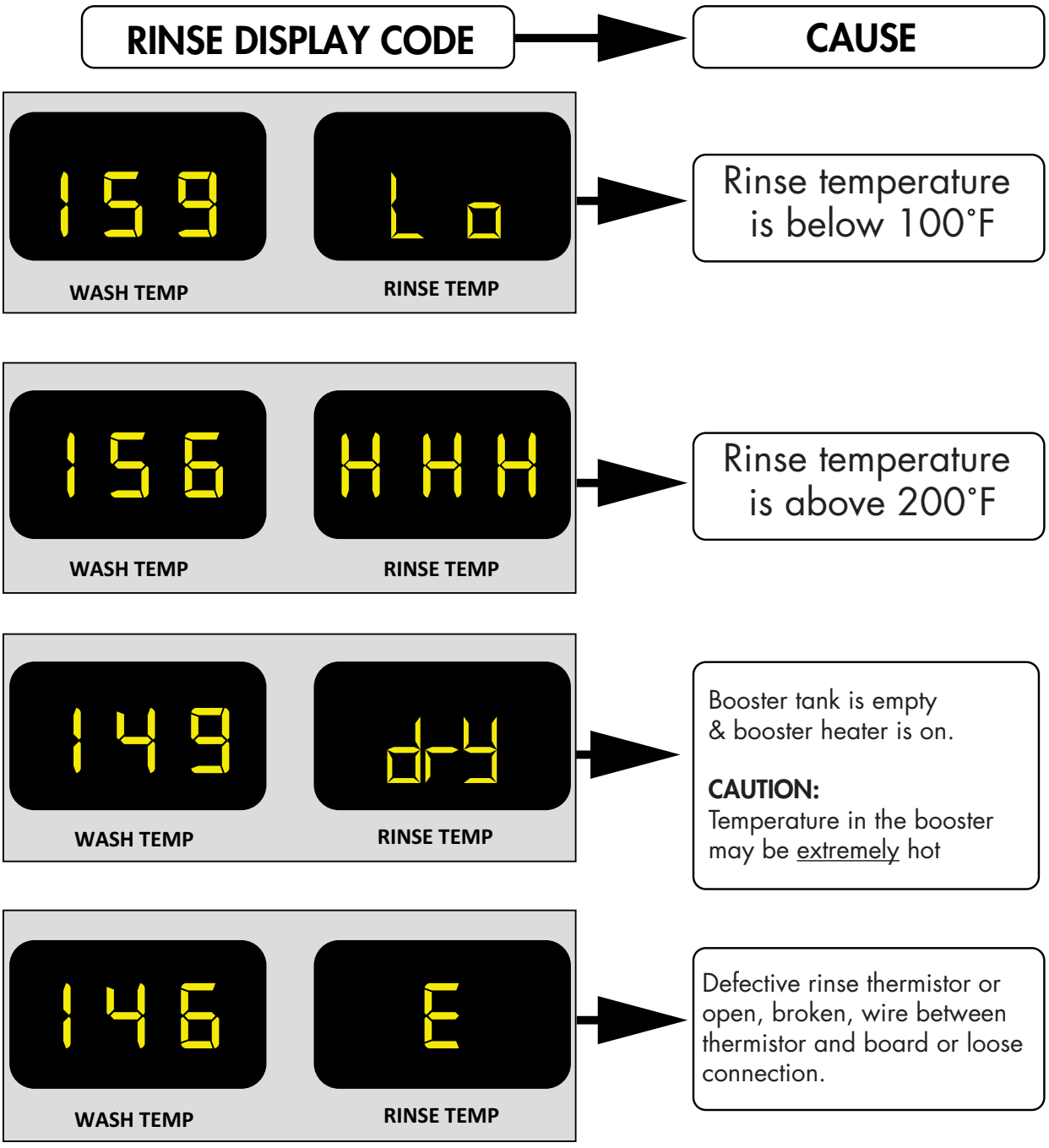
Digital Temperature Display Codes

Display codes that appear in the display windows indicate the operating condition of the machine. Refer to the illustrations below for the meaning of the codes.

Wash Display Codes



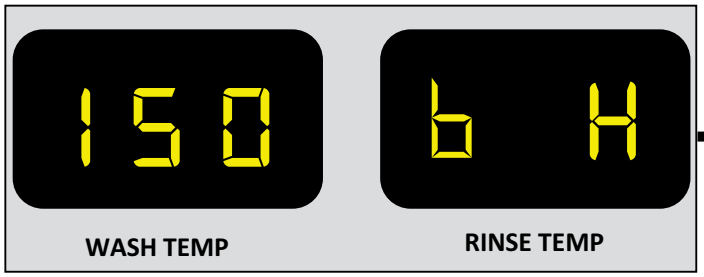
Rinse Display Codes



Booster Display Codes

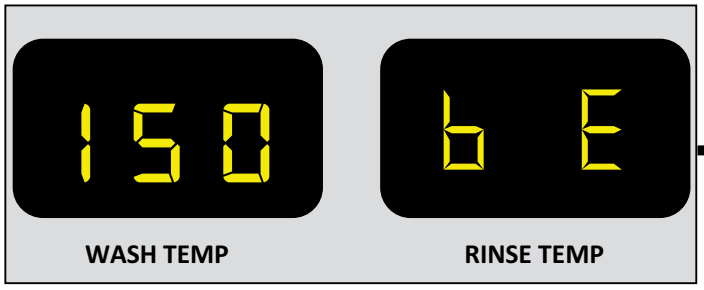
Error Codes for Booster and Final Rinse Thermistors Only.

DISPLAY CODES → **CAUSE**



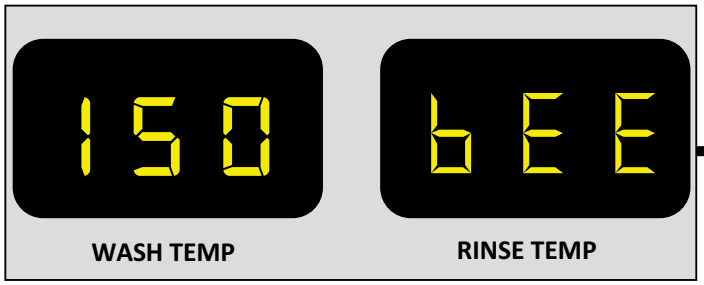
Booster overtemp lockout because booster temperature is greater than 210°F.

NOTE: Booster is locked out for 10 minutes before being re-energized.



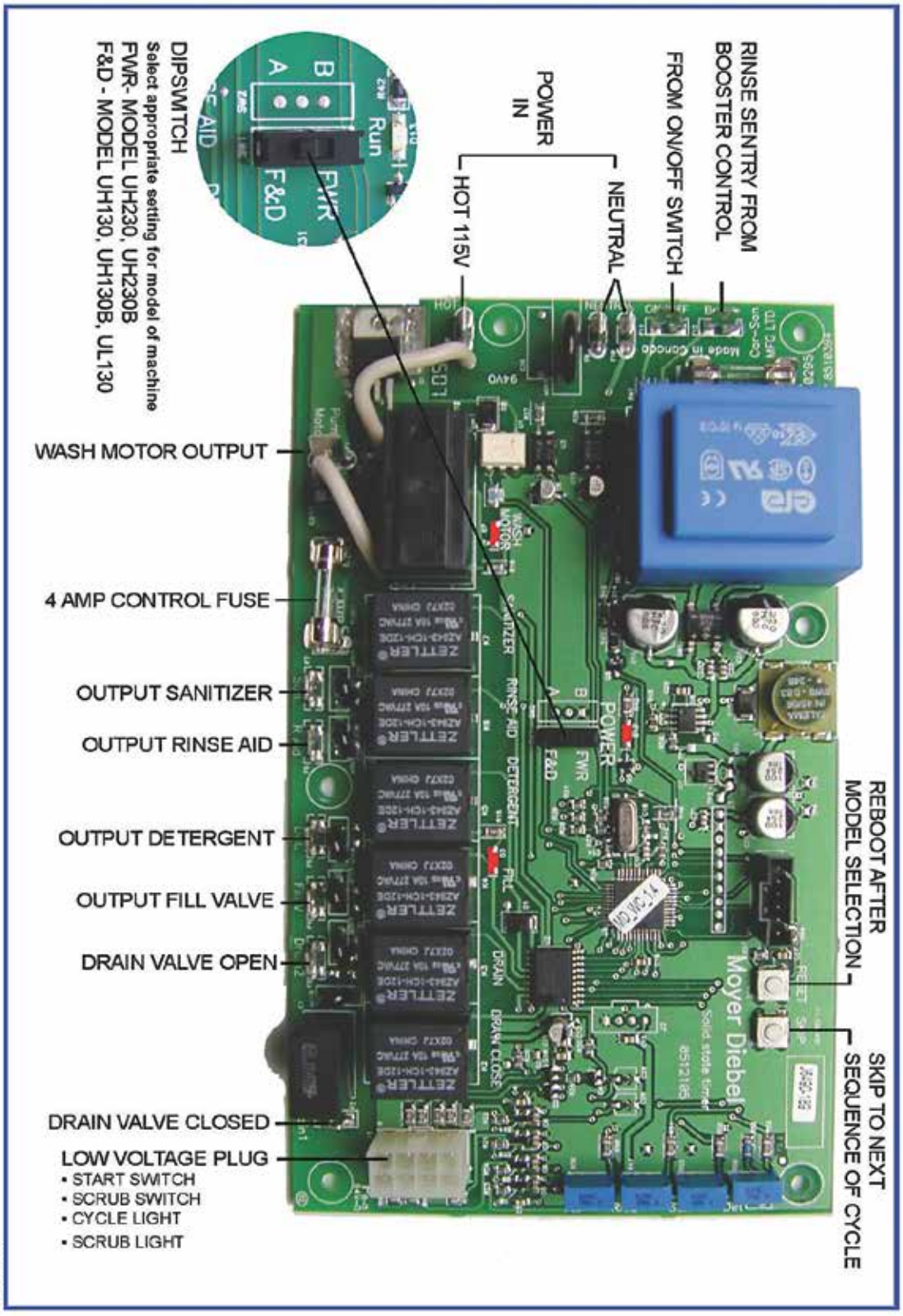
Booster therrmistor is defective or disconnected, broken wires.

NOTE: After the therrmistor is reconnected, there is a 5 second delay before the display is re-energized.



Both booster and final rinse display thermistors are defective, unplugged, or open or broken wires between the display and thermistor.

NOTE: After a therrmistor is reconnected, there is a 5 second delay before the display is re-energized.


DIPSWITCH
Select appropriate setting for model of machine
FWR- MODEL UH230, UH230B
F&D - MODEL UH130, UH130B, UL130
RINSE SENTRY FROM BOOSTER CONTROL
FROM ON/OFF SWITCH
POWER IN
NEUTRAL
HOT 115V
WASH MOTOR OUTPUT
4 AMP CONTROL FUSE
OUTPUT SANITIZER
OUTPUT RINSE AID
OUTPUT DETERGENT
OUTPUT FILL VALVE
DRAIN VALVE OPEN
DRAIN VALVE CLOSED
LOW VOLTAGE PLUG
• START SWITCH
• SCRUB SWITCH
• CYCLE LIGHT
• SCRUB LIGHT
REBOOT AFTER MODEL SELECTION
SKIP TO NEXT SEQUENCE OF CYCLE
Moyer Diebel
Timer Connection Diagram
Solid State Timer P/N 0712105
January 2009
0512934

Diagnostic Testing for the Solid State Timer Board, P/N 0712105

Beginning with S/N W081217467 and above

1

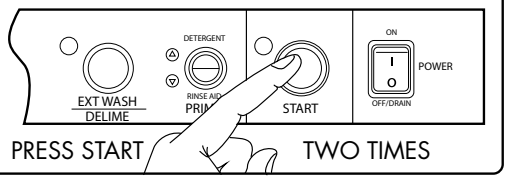
Before testing, Press the dishwasher power switch to OFF/DRAIN and allow the machine to complete the drain cycle.

Check the incoming voltages.

2

With the Power switch in the OFF/DRAIN position, press the START button 2 times.

If the drain valve opens and closes 5 times then the DRAIN VALVE is okay.

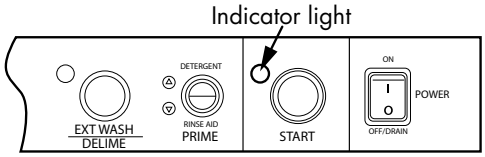


PRESS START TWO TIMES

3

Open the door.

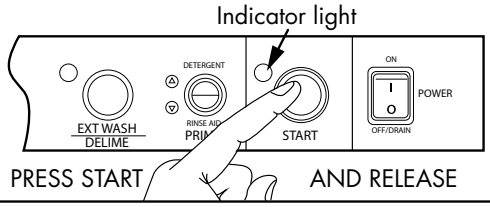
If the green cycle indicator light blinks continuously for 10 seconds, then the DOOR SWITCH and the CYCLE LIGHT are okay.



4

Press and release the START button.

If the green cycle indicator light flashes then the START BUTTON is okay.



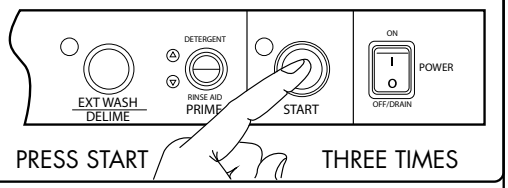
PRESS START AND RELEASE

5

With the Power switch in the OFF/DRAIN position, press the START button 3 times.

The timer board and the following components are okay if the components run consecutively for a few seconds in the following order:

1. Fill Valve
2. Detergent Pump
3. Rinse-aid Pump
4. Drain Valve opens and then closes
5. Wash Pump
6. Drain Pump or Sanitizer Pump



PRESS START THREE TIMES

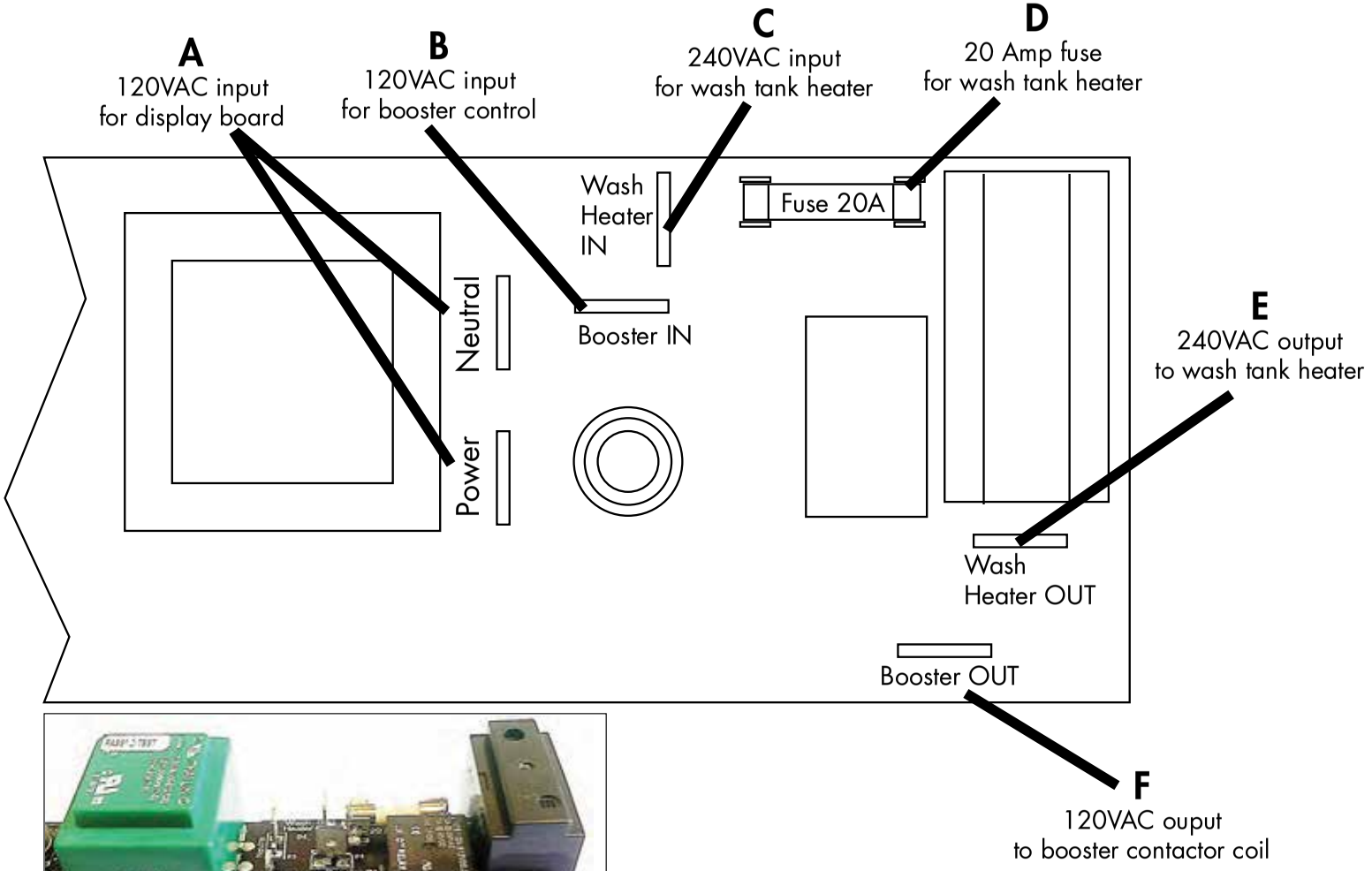
6

Troubleshooting - See below if one or more of the components in Step 5 did not run.

CONDITION	POSSIBLE CAUSE/SOLUTION
A single component in Step 5 does not run.	Check the component that did not run.
Wash pump only component that runs	Check timer bd 4A fuse.
Wash pump only component that runs	Check timer bd 6A fuse.
Wash pump only component that won't run. 4A/6A fuse okay.	Check pump/motor - see troubleshooting guide.
None of the components in Step 5 run.	Check neutral wire - see troubleshooting guide.

0512979 rev. B

Undercounter Temperature Display Board — P/N 0512106-1
Power Terminals.



Diagnostic Testing for the Solid State Timer Board, P/N 0712105

Beginning with S/N W081217467 and above

1

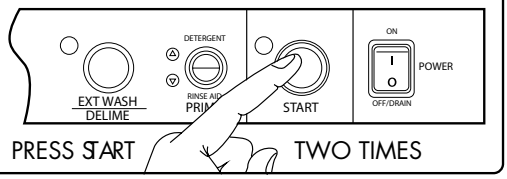
Before testing, Press the dishwasher power switch to OFF/DRAIN and allow the machine to complete the drain cycle.

Check the incoming voltages.

2

With the Power switch in the OFF/DRAIN position, press the START button 2 times.

If the drain valve opens and closes 5 times then the DRAINVALVE is okay.

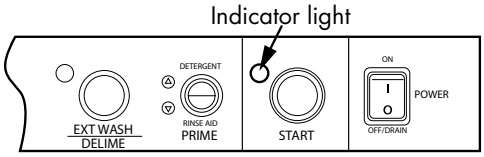


PRESS START TWO TIMES

3

Open the door.

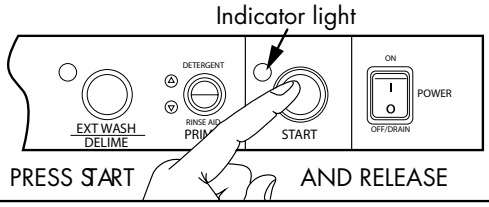
If the green cycle indicator light blinks continuously for 10 seconds, then the DOOR SWITCH and the CYCLE LIGHT are okay.



4

Press and release the START button.

If the green cycle indicator light flashes then the START BUTTON is okay.



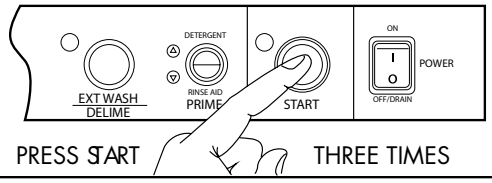
PRESS START AND RELEASE

5

With the Power switch in the OFF/DRAIN position, press the START button 3 times.

The timer board and the following components are okay if the components run consecutively for a few seconds in the following order:

1. FillValve
2. Detergent Pump
3. Rinse-aid Pump
4. DrainValve opens and then closes
5. Wash Pump
6. Drain Pump or Sanitizer Pump



PRESS START THREE TIMES

6

Troubleshooting - See below if one or more of the components in Step 5 did not run.

CONDITION	POSSIBLE CAUSE/SOLUTION
A single component in Step 5 does not run.	Check the component that did not run.
Wash pump only component that runs	Check timer bd 4A fuse.
Wash pump only component that runs	Check timer bd 6A fuse.
Wash pump only component that won't run. 4A/6A fuse okay	Check pump/motor - see troubleshooting guide.
None of the components in Step 5 run.	Check neutral wire - see troubleshooting guide.

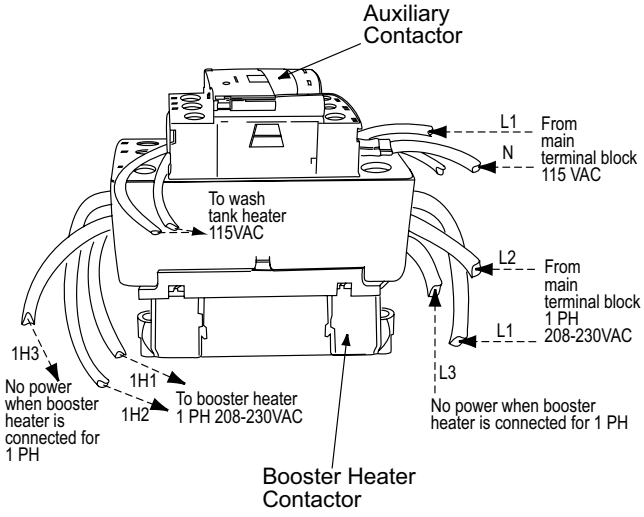
Booster Heater/Wash Tank Heater Interlock Circuit Operation

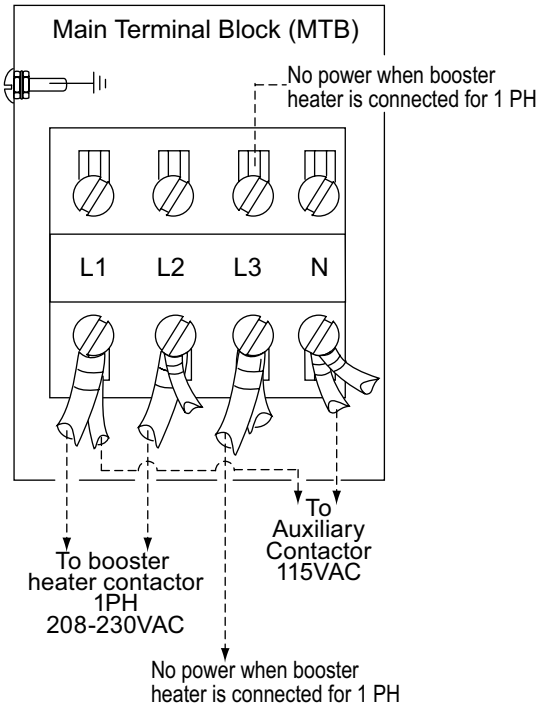
The booster heater/wash tank heater interlock circuit removes power from the wash tank heater whenever the booster heater contactor energizes. The illustration below shows how the booster heater contactor is wired.

The booster heater contactor is located on the center of the base behind the lower front access panel.

Interlock Circuit Operation

1. The dishwasher fills with water when the main power switch on the dishwasher is turned on. The booster heater thermistor calls for heat which energizes the booster heater contactor.
2. The auxiliary contact on the top of the contactor opens and removes power from the wash tank heater.
3. When the booster heater thermister is satisfied, the booster heater contactor de-energizes and the auxiliary contacts close applying power to the wash tank heater.
4. This operation is repeated whenever the booster thermistor calls for heat.





UNIVERSAL TEMPERATURE CONTROL BOARD

ADS MODELS

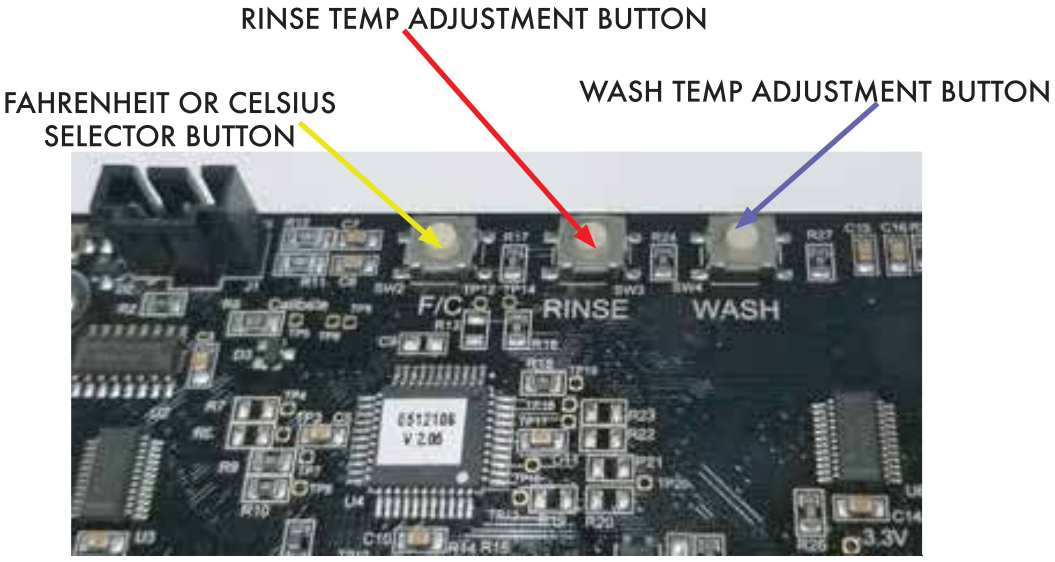
REVA - 10-JAN-2018

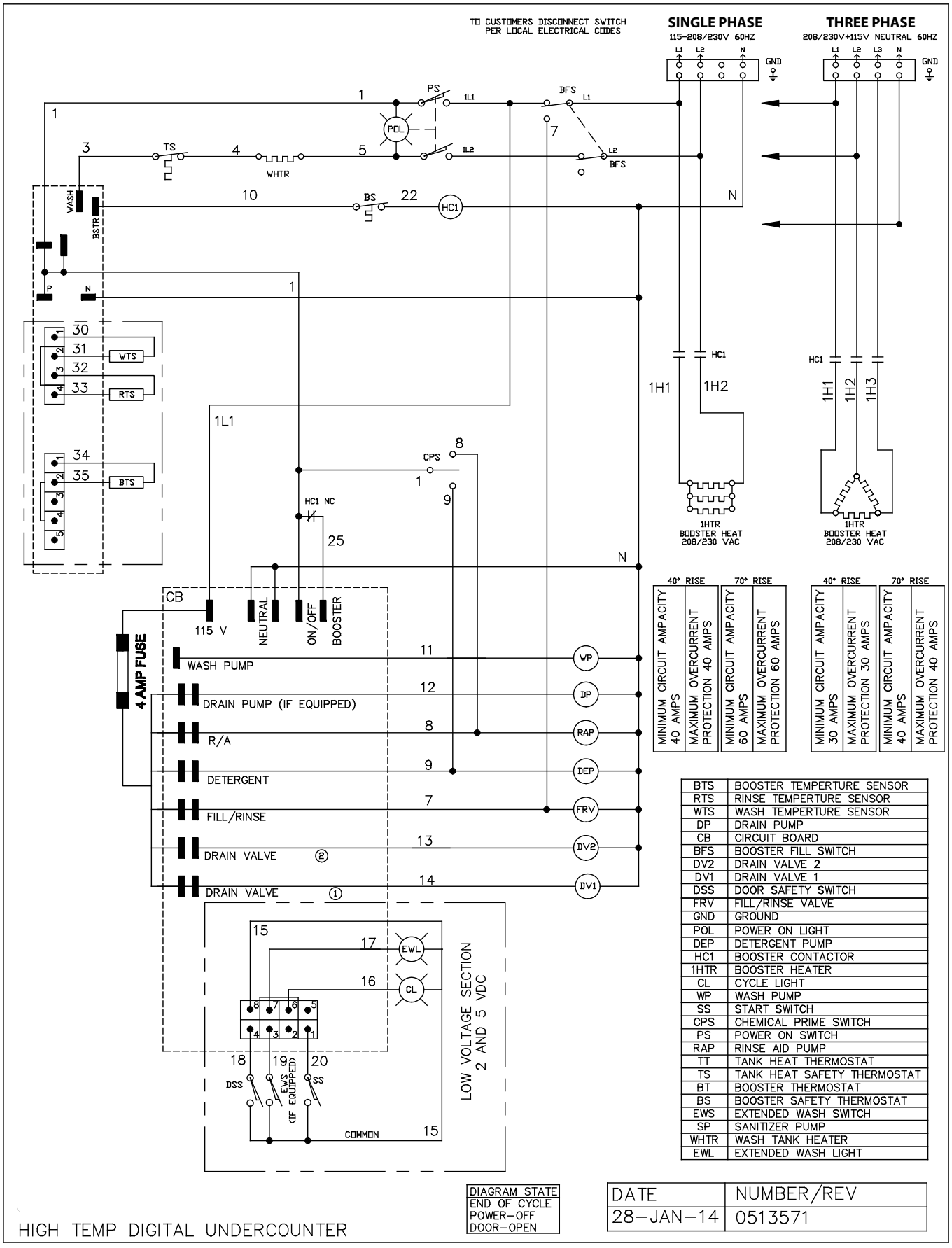
Power Up

When the board is powered up, it will do a self-diagnostic test, and then display; 1)The software version. 2) m4 mode. 3) Temperature units in F or C. 4) Wash and Rinse temperature pre-sets.

Setting Temperatures

To adjust temperatures, push and hold the button of the target heat system. The display will begin to flash its temperature set point. Continue to push and release the button, and the available set points will scroll through the display. When you reach your desired temp set point, let go of the button, and the board will store the new setting.



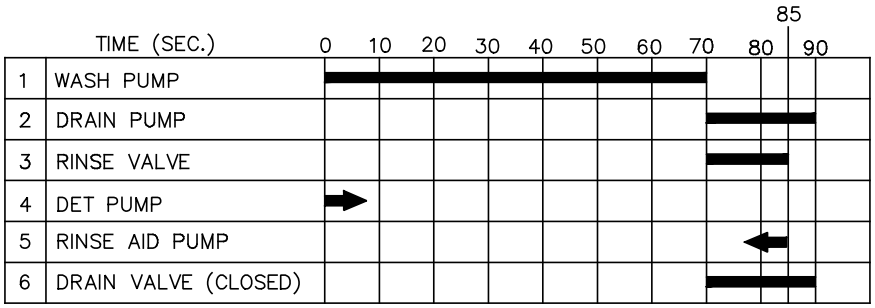


BTS	BOOSTER TEMPERTURE SENSOR
RTS	RINSE TEMPERTURE SENSOR
WTS	WASH TEMPERTURE SENSOR
DP	DRAIN PUMP
CB	CIRCUIT BOARD
BFS	BOOSTER FILL SWITCH
DV2	DRAIN VALVE 2
DV1	DRAIN VALVE 1
DSS	DOOR SAFETY SWITCH
FRV	FILL/RINSE VALVE
GND	GROUND
POL	POWER ON LIGHT
DEP	DETERGENT PUMP
HC1	BOOSTER CONTACTOR
1HTR	BOOSTER HEATER
CL	CYCLE LIGHT
WP	WASH PUMP
SS	START SWITCH
CPS	CHEMICAL PRIME SWITCH
PS	POWER ON SWITCH
RAP	RINSE AID PUMP
TT	TANK HEAT THERMOSTAT
TS	TANK HEAT SAFETY THERMOSTAT
BT	BOOSTER THERMOSTAT
BS	BOOSTER SAFETY THERMOSTAT
EWS	EXTENDED WASH SWITCH
SP	SANITIZER PUMP
WHTR	WASH TANK HEATER
EWL	EXTENDED WASH LIGHT

DIAGRAM STATE
END OF CYCLE
POWER-OFF
DOOR-OPEN

DATE	NUMBER/REV
28-JAN-14	0513571

HIGH TEMP DIGITAL UNDERCOUNTER



TIMING CHART FOR FRESH WATER RINSE

EXTENDED WASH ADDS 15 MINUTES EXTRA WASHING TIME AT 70 SECS
SWITCH MAY BE PUSHED ANY TIME FROM 0.5 TO 70 SEC

		MINIMUM	MAXIMUM
1	FILL VALVE	20 SEC.	55 SEC
2	DET. PUMP	0 SEC.	12 SEC.
3	SAN. PUMP	0 SEC.	20 SEC.
4	RINSE AID PUMP	0 SEC.	10 SEC.

ARROW INDICATES THAT FUNCTION END TIME
IS VARIABLE WITH THE ADJUSTMENT POTENTIOMETER

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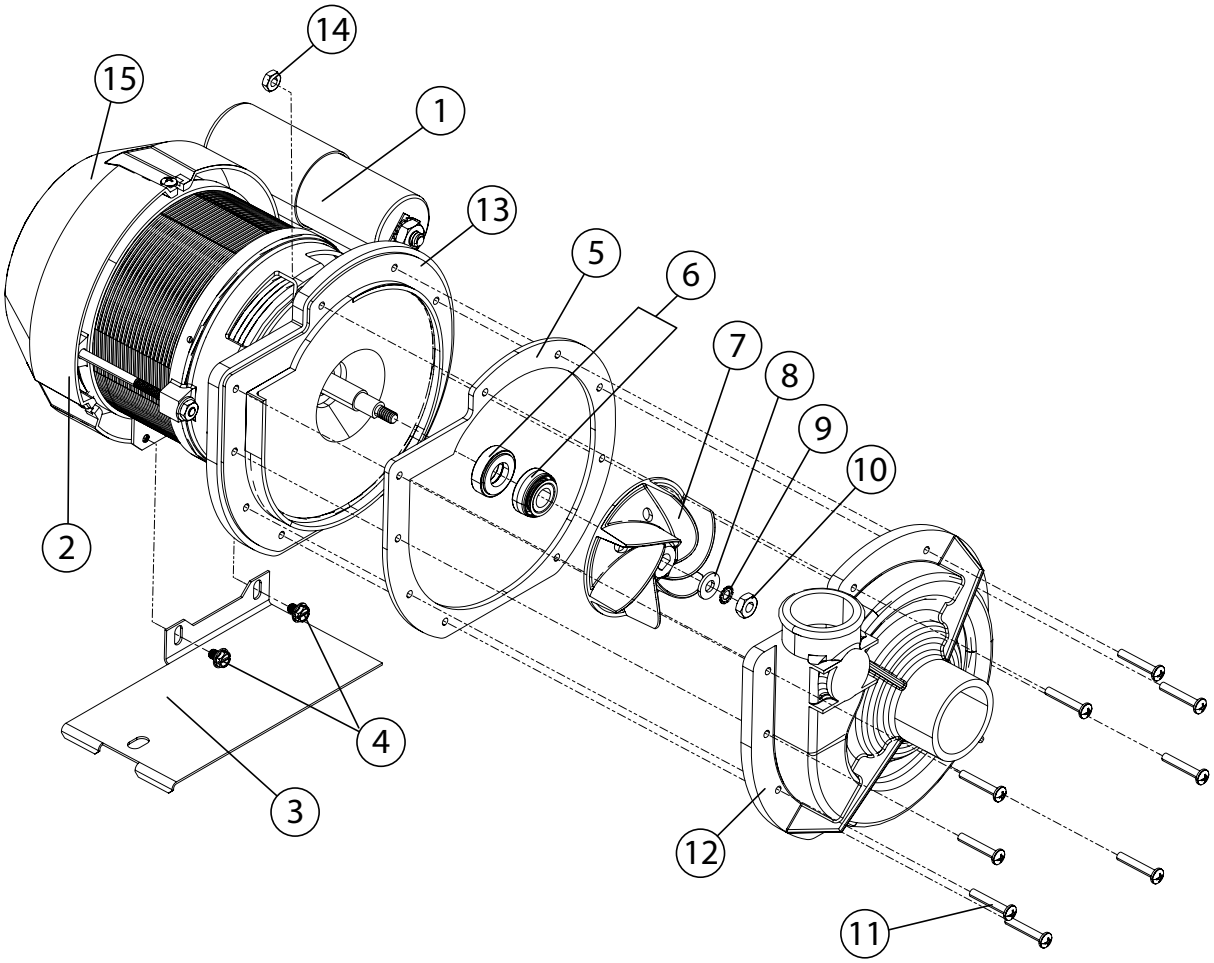
Service Replacement Parts

Illustrations *Page*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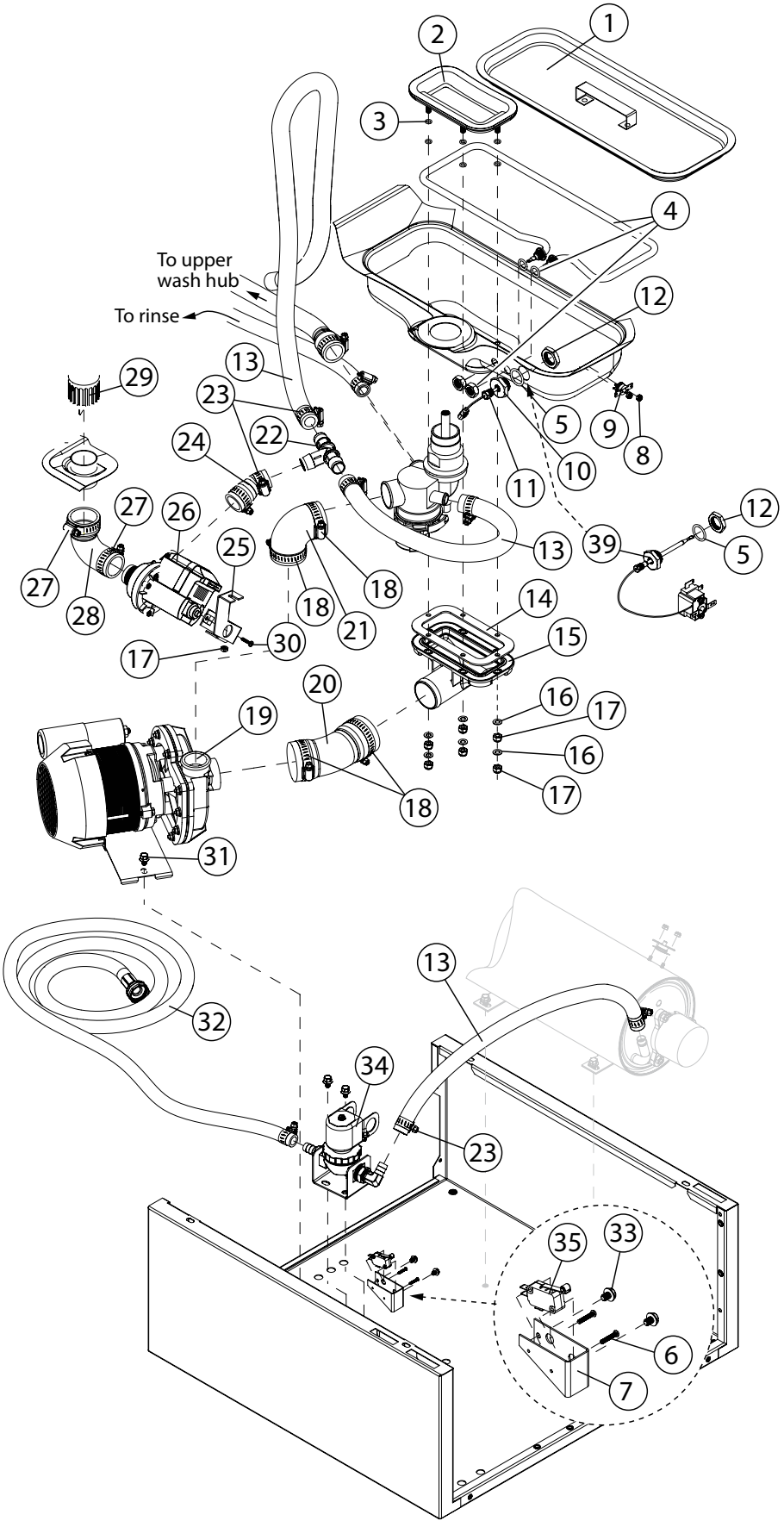
Wash Pump/Motor Assembly

Item No.	Part No.	Description	Qty.
1	A0512347	CAPACITOR 40μF	1
2	A0512101	PUMP/MOTOR ASSEMBLY COMPLETE 115VAC/60/1	1
3	A0313394	BRACKET, WASH PUMP	1
4	A0512185	BOLT, HEX FLANGE 1/4-20 X 3/8" SST	2
5	A110285	GASKET	1
6	A114139	SEAL	1
7	A0512345	IMPELLER	1
8	A0501478	WASHER, PLAIN, 17/64"	1
9	A106482	WASHER, LOCK, 1/4"	1
10	A114144	NUT, M6	1
11	A0512340	SCREW, M4, PHIL, PAN HD.	9
12	A0512341	VOLUTE, PUMP	1
13	A114137	BACKPLATE, PUMP	1
14	A107337	NUT, M4	9
15	A0513131	COVER, REAR MOTOR FAN	1

NOTE: The pump motor is not sold separately.


To upper
wash hub
To rinse

Item No.	Part No.	Description	Qty.
1	A0512136	SCREEN, SCRAP ASSY.	1
2	A0513324	FLANGE, PUMP SUCTION	1
3	A0513677	O-RING	A/R
4	A0512426	HEATER, 240VAC 2000W	1
5	A0512099	O-RING	2
6	A0508752	SCREW, 4-40 X 5/8" RH. HD. PHILL. SST	2
7	A0313432	BRACKET, DOOR SWITCH	1
8	A108954	NUT, GRIP 6-32 WITH NYLON INSERT SST	2
9	A113604	THERMOSTAT, HI-LIMIT BI-METAL SNAP, 212°F	1
10	A0512299	ADAPTER, THERMISTOR	1
11	A112612	THERMISTOR, 10 KΩ, 2 WIRE ASSY, WASH TANK	1
12	A201029-1	NUT, LOCK 1/2 INCH NI PLATED	A/R
13	A0509302	HOSE, 5/8" ID X 1" OD	A/R
14	A0513329	GASKET, PUMP SUCTION	1
15	A0513325	ELBOW, PUMP SUCTION	1
16	A0501476	WASHER	6
17	A107967	NUT, 1/4-20 W/NYLON INSERT SST	6
18	A0502571	CLAMP, HOSE 1-1/16" - 2"	2
19	A0512101	PUMP/MOTOR COMPLETE 115/60/1	1
20	A0513328	HOSE, PUMP SUCTION	1
21	A0512119	HOSE, PUMP DISCHARGE	1
22	A0512134	TEE, 3/4", POLY.	1
23	A0508808	CLAMP, SS GEAR	2
24	A0313171	HOSE, MOULDED 2-1/2"	1
25	A0312145	BRACKET, DRAIN PUMP	1

Item No.	Part No.	Description	Qty.
26	A0512227	PUMP, DRAIN 115VAC	1
27	A0512322	CLAMP, HOSE	2
28	A0513339	HOSE, OVERFLOW	1
29	A0712236	TUBE, OVERFLOW GUARD	1
30	A109835	SCREW #8 X 1/2" SELF-TAPPING SST	1
31	A0512185	BOLT, HEX FLANGE 1/4-20 X 3/8" SST	1
32	A0509526	HOSE, 1/2" X 7 FT. FEM. GARD. ADAPT.	1
33	A0512792	SCREW, 10-32 X 1/4" RD. HD. PHILL. SST	2
34	A109886	VALVE, SOLENOID, 1/2" NPT	1
35	A0501379	SWITCH, 15A	1

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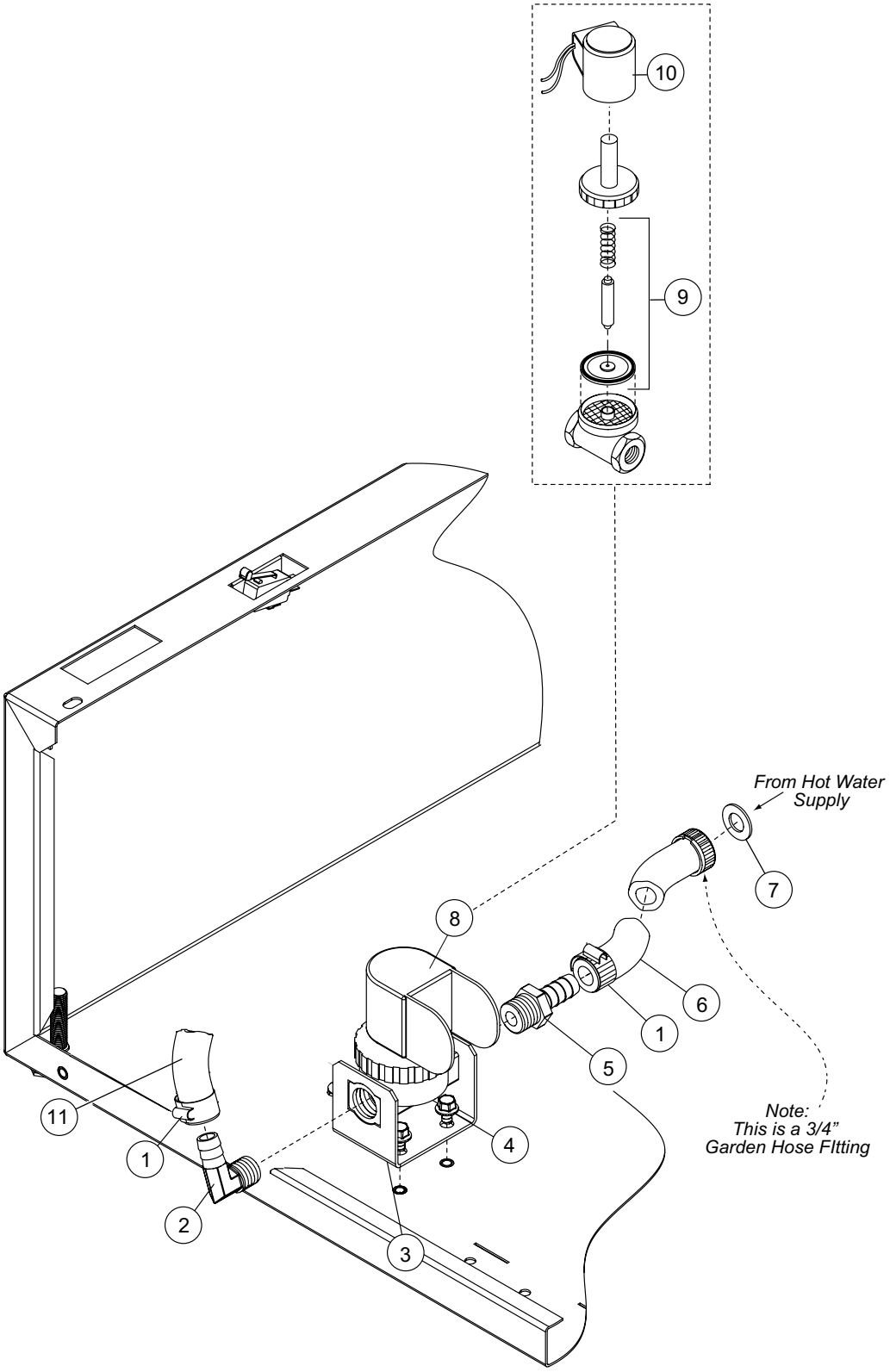
10
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From Hot Water
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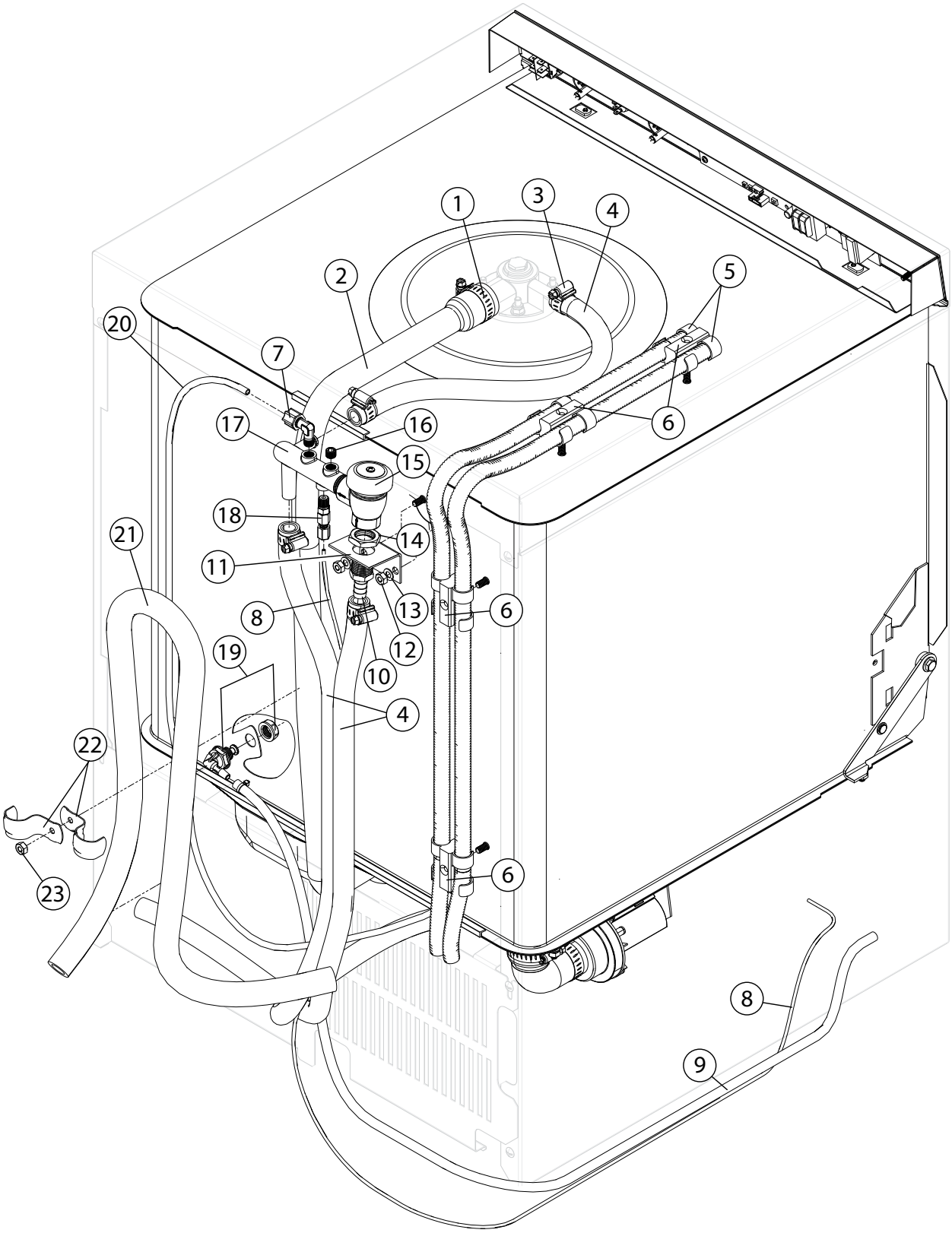
Note:
This is a 3/4"
Garden Hose FItting

Item No.	Part No.	Description	Qty.
1	0512985	CLAMP, HOSE	2
2	0508782	ELBOW, 90° 1/2" MPT X 1/2" HOSE	1
3	0312146	BRACKET, 1/2" SOLENOID VALVE	1
4	0512185	BOLT, HEX FLANGE 1/4-20 X 3/8" SS	2
5	0502618	BARB, HOSE 1/2" X 3/8" MPT	1
6	0509526	HOSE, 1/2" X 7 FT. FEM. GARD. ADAPT.	1
7	0505320	WASHER, 1" OD GARDEN HOSE	1
8	109886	VALVE, SOLENOID, 1/2" NPT 120VAC	1
9	109902	KIT, REPAIR, 1/2" SOLENOID VALVE	1
10	108516	KIT, REPAIR, COIL, 120VAC	1
11	107417	HOSE, RUBBER 1/2" ID X .84" OD	A/R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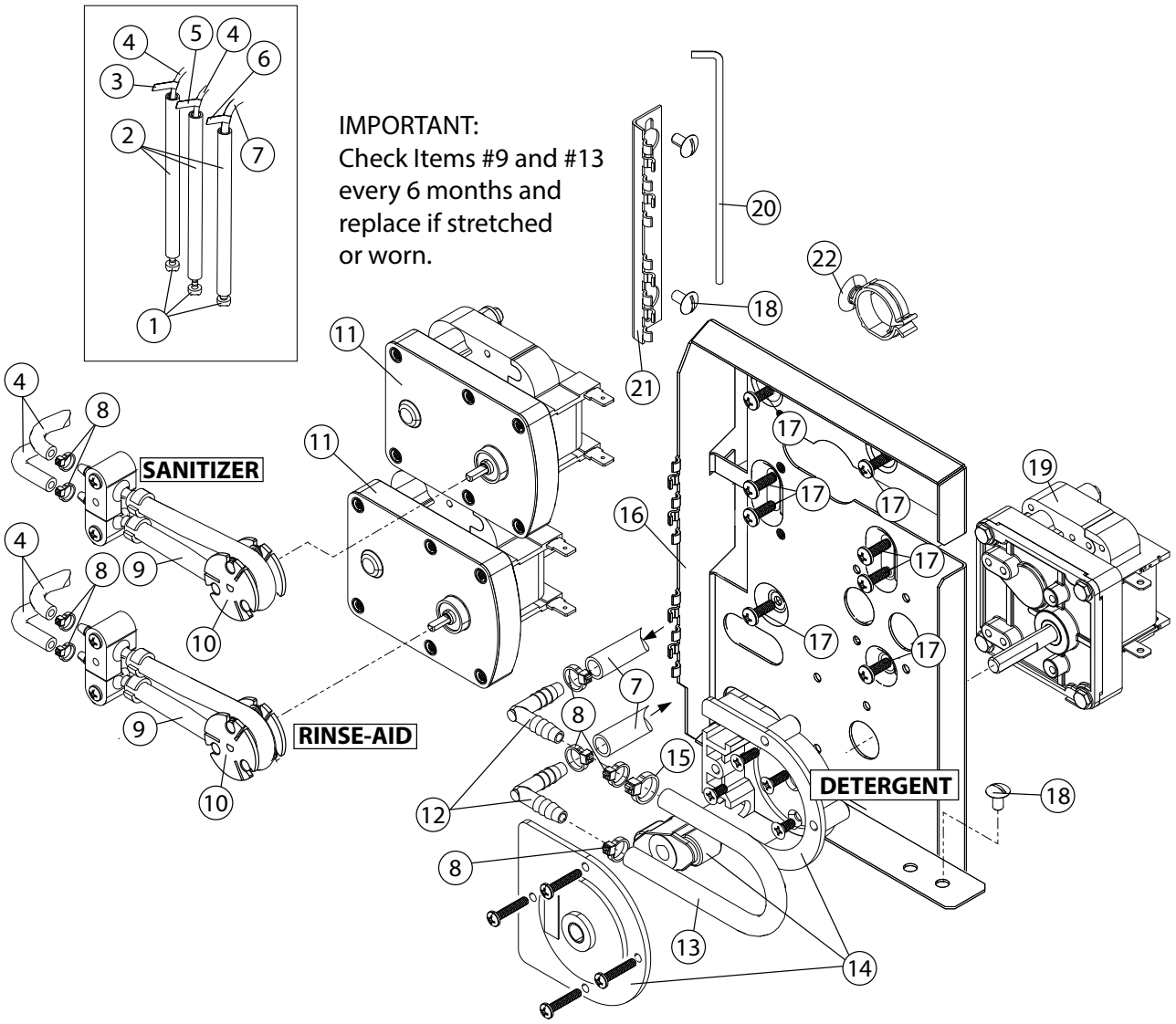
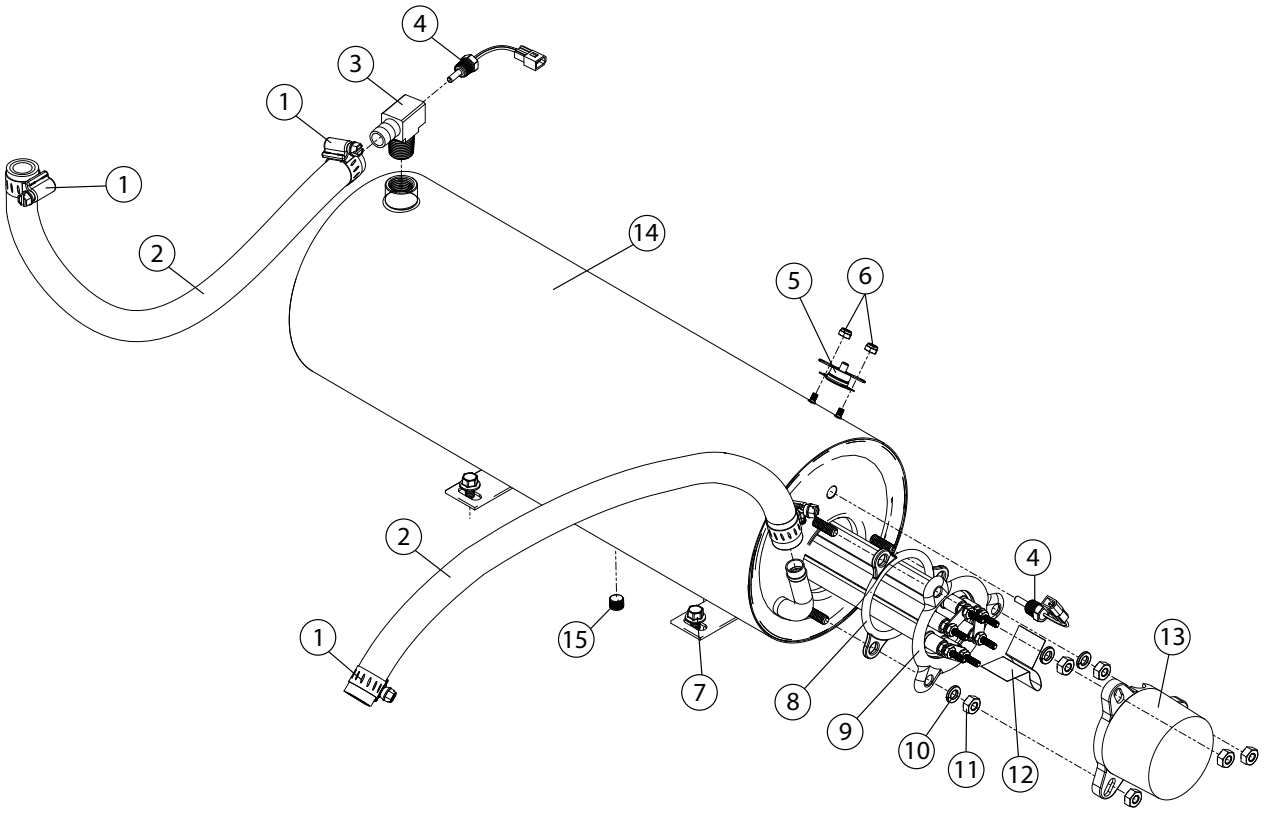
Item No.	Part No.	Description	Qty.
1	A0502571	CLAMP, HOSE	1
2	A0512120	HOSE, UPPER WASH	1
3	A0512985	CLAMP, HOSE	A/R
4	A107417	HOSE, RUBBER 1/2" ID X .84" OD	A/R
5	A0512757	CONDUIT, 1/2"	A/R
—	A0512758	CONDUIT, 3/8"	A/R
6	A0512369	CLAMP, CONDUIT	4
7	A112728	ELBOW, 1/8" MPT X 1/4" COMP PP	1
8	A112883-1	TUBING, 1/8" OD X 1/16" ID (RINSE-AID)	A/R
9	A0502667	TUBING, 1/4" ID X 3/8" OD (DETERGENT)	A/R
10	A0502651	COUPLER 1/2" MPT X 1/2" HOSE	1
11	A0312190	BRACKET, VACUUM BREAKER	1
12	A100003	NUT, HEX SST 1/4-20	2
13	A106482	WASHER, SPLIT LOCK 1/4" SST	2
14	A201029-1	NUT, LOCK 1/2" NICKEL PLATED	1
15	A100500	VACUUM BREAKER, 1/2" NPT, BRONZE	1
—	A900836	REPAIR KIT, VACUUM BREAKER 1/2"	1
16	A0508817	PLUG, 1/8" HEX COUNTERSUNK	A/R
17	A0513110	MANIFOLD, RINSE	1
18	A112763	FITTING, INJECTOR RINSE-AID	1
19	A0713656	KIT, DETERGENT FITTING	1
—	A110750	GASKET	1
—	A0513672	NUT, NP 1/4' NPS PP BLACK	1
20	A107928	TUBING, 1/4" NATURAL	AR
21	A0509302	HOSE, 5/8" ID X 1" OD	A/R
22	A107239	CLAMP, EMT	2
23	A107967	NUT, 1/4-20 W/NYLON INSERT SST	1


IMPORTANT:
Check Items #9 and #13
every 6 months and
replace if stretched
or worn.
SANITIZER
RINSE-AID
DETERGENT

Item No.	Part No.	Description	Qty.
1	0501869	STRAINER	2
2	0306363	TUBE, 3/8" ID X 12" LG. STIFFENER	1
3	0505483	LABEL, RINSE-AID HOSE	1
4	0502666	HOSE, 1/8" ID X 1/4" OD PVC	A/R
5	0503694	LABEL, SANITIZER HOSE	A/R
6	0503695	LABEL, DETERGENT HOSE	A/R
7	0502667	HOSE, 1/4" ID X 3/8" OD PVC	A/R
8	0501519	TIE, NYLON 4"	7
9	0706635	TUBE, ELEMENT ASSEMBLY 45CC	1
10	0707142	ROTOR	1
11	0503756	MOTOR, INJECTOR PUMP	1
12	0502644	ELBOW, 1/4" HOSE BARB	2
13	114202	TUBE, 3/16" ID X 3/8" OD X 9" LG.	1
14	114203	PUMP HD KIT, PERISTALIC	1
15	0512369	CLAMP, HOSE	1
16	0313393	BRACKET, CHEMICAL PUMP	1
17	0504822	SCREW, 8-32 X 1/2" PAN HD. SST	4
18	100007	SCREW, 10-32 X 3/8" TRUSS SST	3
19	0510870-1	GEARMOTOR, 115/60/1	1
20	0313644	PIN, HINGE	1
21	0313431	BRACKET, HINGED PANELS	1
22	0513645	HOLDER, CABLE	4
—	WS1	FLOAT TUBE SENSOR, CHEMICAL ALARM *(Not Shown)*	1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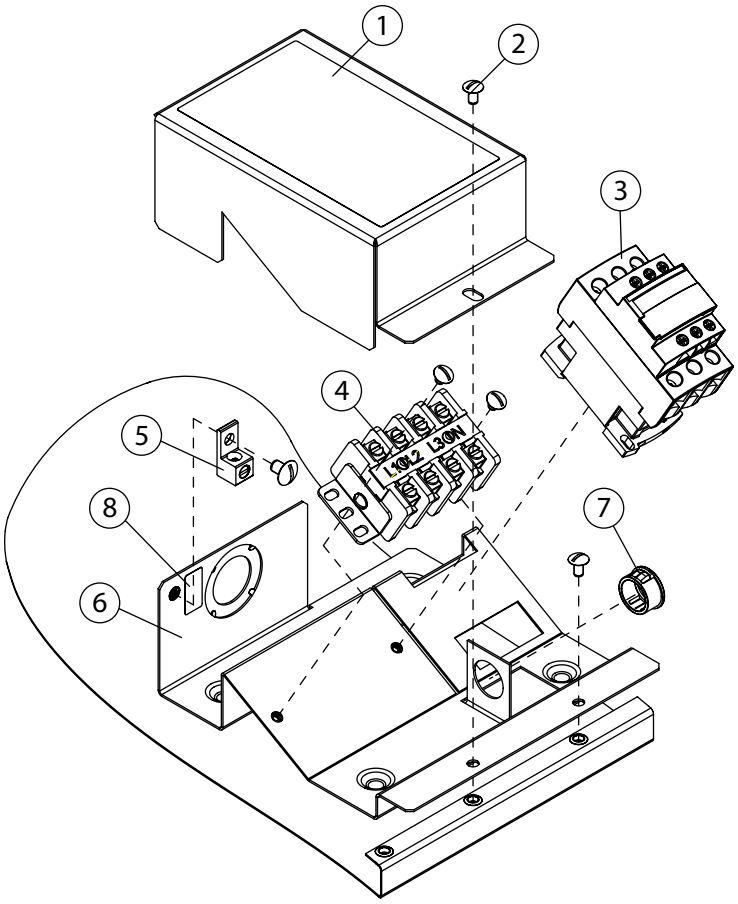
Item No.	Part No.	Description	Qty.
1	A0512985	CLAMP, SS GEAR-MIN. 1/2"	4
2	A107417	HOSE, RUBBER 1/2" ID X .84" OD	A/R
3	A0513314	TEE, RINSE	1
4	A0513310	THERMISTOR 10 kΩ, 2-WIRE	2
5	A110562	THERMOSTAT, HIGH LIMIT 240°F	1
6	A108954	NUT, GRIP 6-32 W/NYLON INSERT SST	2
7	A0512185	BOLT, HEX FLANGE, 1/4-20 X 3/8" SST	2
8	A109985	SEAL, BOOSTER ELEMENT	1
9	A111235-1	BOOSTER, ELEMENT 5 KW, 40°F RISE	1
10	A106482	WASHER, LOCK 1/4" SPLIT SST	3
11	A100003	NUT, PLAIN 1/4-20 SST	6
12	A111885	INSULATOR	1
13	A107908	COVER, ELEMENT	1
14	A0713333	TANK, BOOSTER SST	1
15	A0508817	PLUG, 1/8"	1
—	A0513538	HARNESS, BOOSTER CONTROL *(Not Shown)*	1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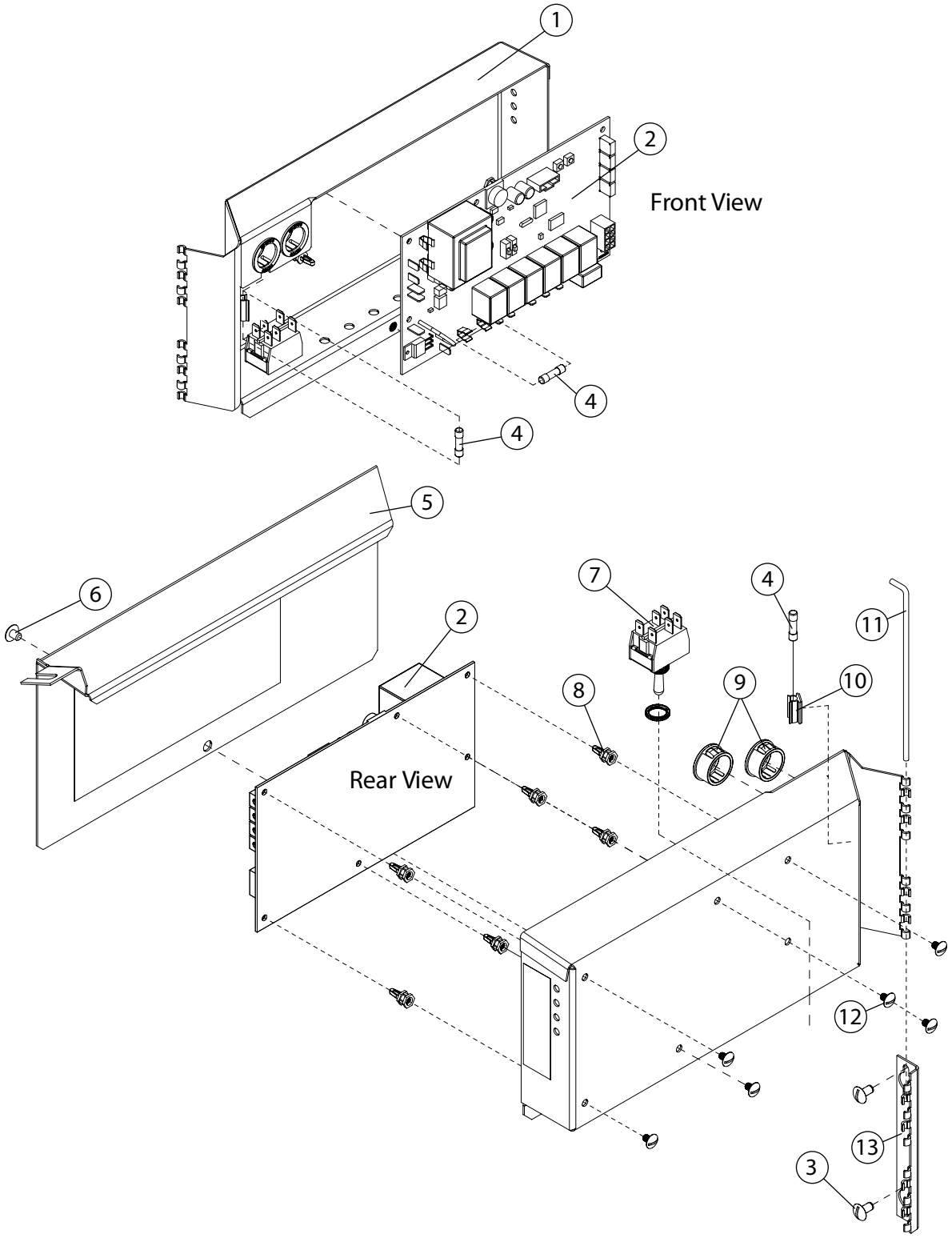
Item No.	Part No.	Description	Qty.
1	A0313396	COVER, BOX WIRING	1
2	A0501411	SCREW, 10-32 X 1/4", TRUSS HD.	2
3	A0512432	CONTACTOR, 3-POLE 120VAC COIL	1
4	A0509527	BLOCK, TERMINAL, 4-POLE	1
5	A103310	LUG, GROUND	1
6	A0313395	BOX, WIRING	1
7	A107964	BUSHING, STRAIN RELIEF, SMALL	A/R
8	A201029-1	NUT, LOCK 1/2 INCH NI PLATED	A/R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Front View
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Rear View
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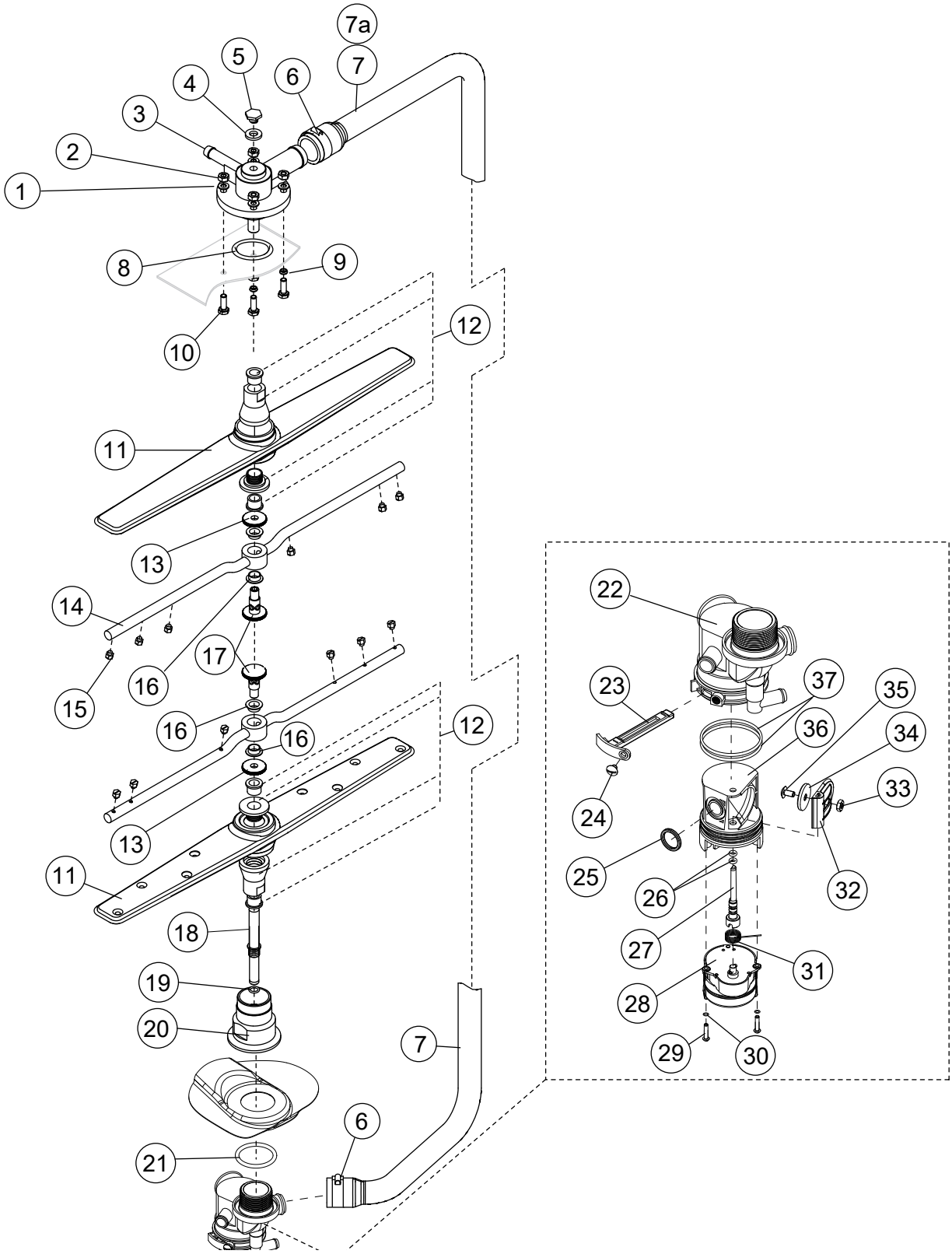
Timer Control Board Assembly

Item No.	Part No.	Description	Qty.
1	A0313397	BOX, CONTROL BOARD	1
2	A0712105	TIMER CKT. BD.	1
3	A0501464	SCREW, 10-24 X 3/8; TRUSS HD. SST	2
4	A0512373	FUSE, 4A 250V	1
–	A0513698	FUSE, 6A 250V	1
5	A0313398	COVER, BOX	1
6	A0501411	SCREW, 10-32 X 1/4" SST	1
7	A0501373	SWITCH, BOOSTER FILL	1
8	A0512973	STANDOFF	6
9	A107964	BUSHING, STRAIN RELIEF	2
10	A0512781	HOLDER, FUSE	1
11	A0313644	PIN, HINGE	1
12	A0501408	SCREW, 8-32 X 1/4" TRUSS HD. PHIL. SST	6
13	A0313431	BRACKET, HINGED PANELS	1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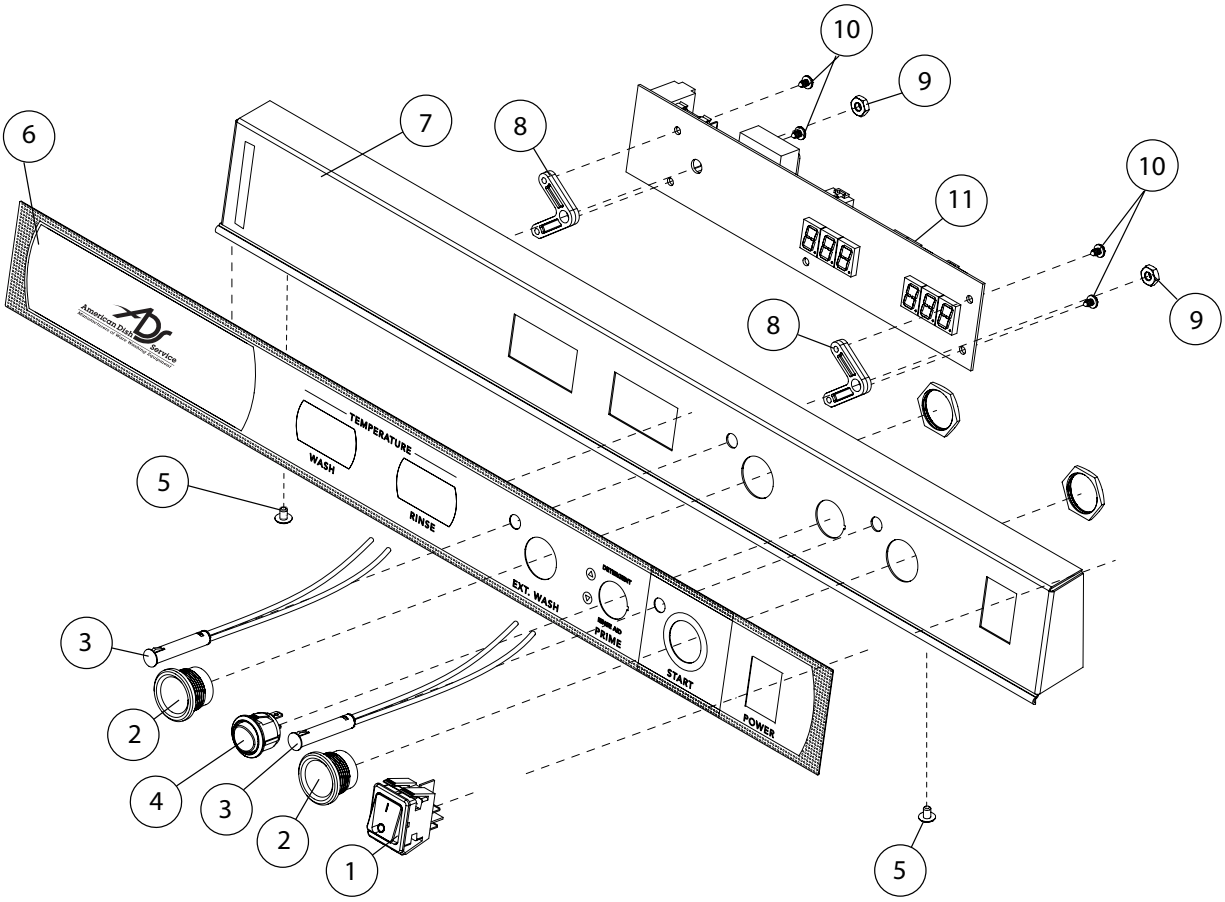
Item No.	Part No.	Description	Qty.
1	0501478	WASHER, 17/64 id X 9/16" OD SST	4
2	107967	NUT, HEX 1/40-20 NYLON INSERT SST	4
3	0514251-1	HUB, UPPER SPRAY ARMS	1
4	107873	WASHER, PACKING	1
5	110215	SCREW, RETAINING	1
6	0502571	CLAMP, HOSE GEAR 1-1/2" SST	2
7	0512120	HOSE, UPPER WASH ARM	1
7a	0513699	HOSE, UPPER WASH ARM	1
8	0512133	O-RING, 2-1/8" OD X 1-3/4" ID X 3/16"	1
9	0501481	WASHER, NYLITE	4
10	100738	BOLT, 1/4-20 X 1" SST	4
11	H420548	WASH ARM ASSEMBLY (Includes Item 12)	2
12*	0712749	BEARING ASSEMBLY	2
13	H34998	NUT, SPACER	2
14	H36211	RINSE ARM ASSEMBLY (Includes Items 13, 16, and 17)	2
15	H37149	NOZZLE, RINSE ARM	12
16	H190663	BEARING, RINSE ARM	4
17	H36275	SPINDLE, RINSE ARM	2
18	0512124	SHAFT, LOWER	1
19	0512239	O-RING	1
20	0512066	HUB, LOWER WASH ARM	1
21	0512133	O-RING, 2-1/8" OD X 1-3/4" ID X 3/16"	1
22	0513439	HOUSING, MANIFOLD FWR	1
23	0513443	PIN, RETENTION	1
24	0509439	SCREW, RETENTION PIN 10-32 X 5/16" SST	1
25	0513446	O-RING, QUAD	1
26	0513445	O-RING, PIVOT SHAFT	2
27	0513447	SHAFT, FLAPPER	1
28	0712123	MOTOR, DRAIN VALVE	1
—	0509257	PIN, MOTOR (COMES WITH MOTOR)	1
29	104883	SCREW, MOTOR 6-32 X 3/8" SST	2
30	0501497	WASHER,SPLIT LOCK #8	2
31	0512126	SPRING, TORSION	1
32	0513442	FLAPPER	1
33	100194	NUT, FLAPPER SEAL 10-32 SST	1
34	0512127	GASKET, FLAPPER	1
35	100007	SCREW, FLAPPER SEAL 10-32 X 3/8" RD.HD. SST	1
36	0513441	BODY, CARTRIDGE DRAIN VALVE	1
37	0513444	O-RING, CARTRIDGE BODY	2
—	0713667	CARTRIDGE ASSEMBLY, DRAIN VALVE COMPLETE INCLUDES ITEMS 23-37	1

* Note:
The bearing assembly, P/N 0712749 includes 2 bearings, 1 locknut, and 1 wash arm hub. The bearings, locknut and hub are not available as separate service replacement parts.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EXT. WASH
PRIME
START
POWER
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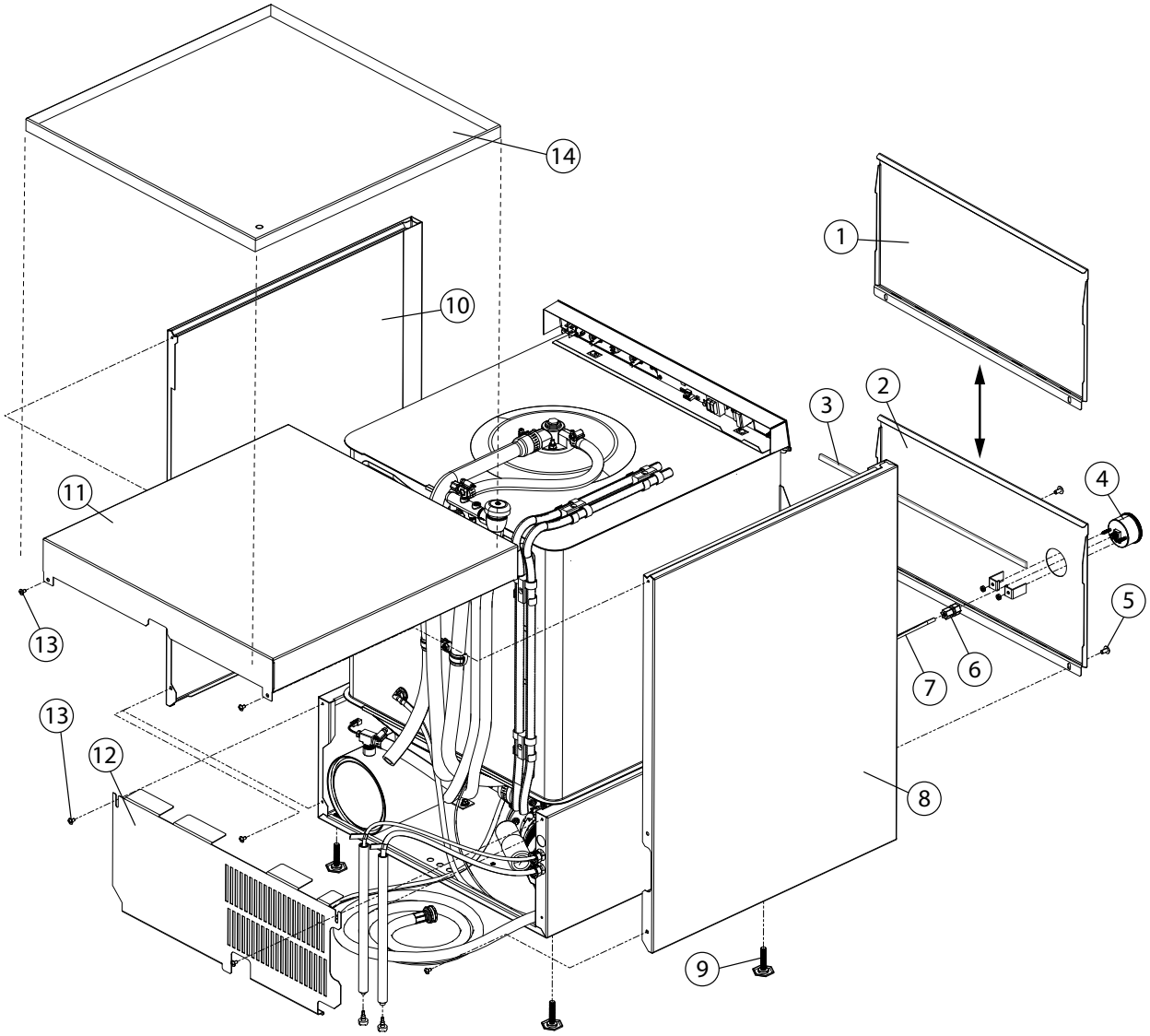
Item No.	Part No.	Description	Qty.
1	A0512221	SWITCH, ROCKER DPST 250V NEON	1
2	A0512213	SWITCH, PIEZIO	2
3	A0512232	LIGHT, INDICATOR, GREEN	2
4	A0512226	SWITCH, ROCKER RND SPDT MOMENTARY	1
5	A0501408	SCREW, TRUSS PHIL. SST 8-32 X 1/4"	2
6	A0513313	LABEL, FACIA ADS HUB-40 HIGH TEMP	1
7	A0313417	PANEL, FACIA	1
8	A0512357	STANDOFF, LED DISPLAY BOARD	2
9	A0503580	NUT, 10-32	2
10	A0501563	SCREW, #8 X 3/8"	4
11	A0712106	TEMPERATURE INDICATOR BD., DIGITAL	1
–	A0512362	HARNESS, DIGITAL DISPLAY *(Not Shown)*	1
–	A0513538	HARNESS, BOOSTER CONTROL *(Not Shown)*	1
–	A0513361	HARNESS, MACHINE *(Not Shown)* (Does not include Booster or Digital display harness)	1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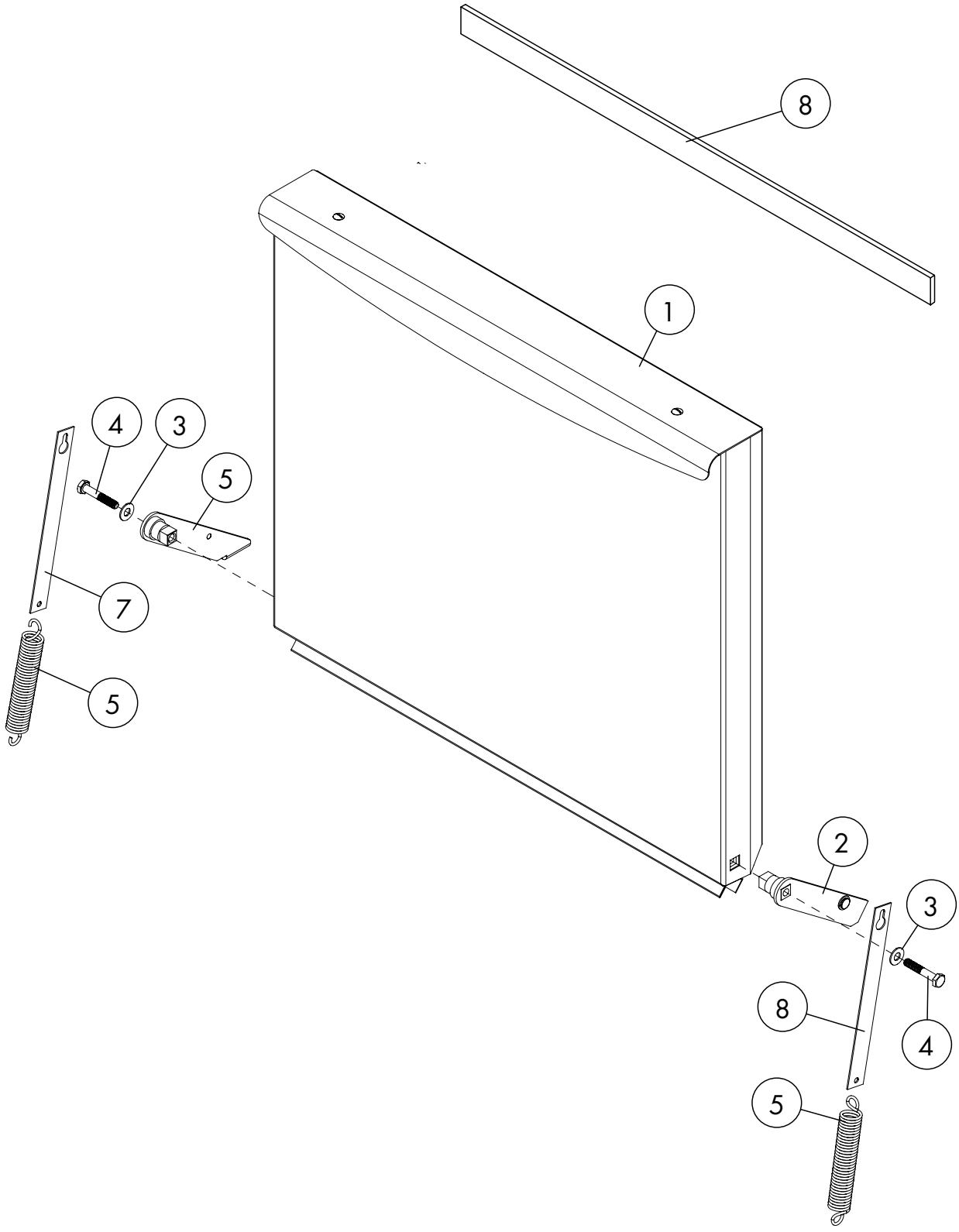
Item No.	Part No.	Description	Qty.
1	A0313406	PANEL, FRONT WITHOUT GAUGE HOLE	1
2	A0313407	PANEL, FRONT WITH GAUGE HOLE	1
3	A0512319	GASKET, 1/8" x 5/8" x 21-1/2"	1
4	A109812	GAUGE, PRESSURE 0-60 PSI	1
5	A100779	SCREW 1/4-20 X 5/8" TRUSS SS PHIL	A/R
6	A0513659	FITTING, 1/4" TUBE X 1/8" FNPT PP	1
7	A107928	TUBING, 1/4" NATURAL	A/R
8	A0313403	PANEL, LH SIDE	1
9	A0503718	FOOT, ADJUSTING	4
10	A0313402	PANEL, RH SIDE	1
11	A0313401	PANEL, TOP	1
12	A0313404	PANEL, REAR	1
13	A100007	SCREW, TRUSS SLOT SST 10-32 X 3/8"	A/R
14	A0714208	KIT, DRIP TRAY (See page 64)	A/R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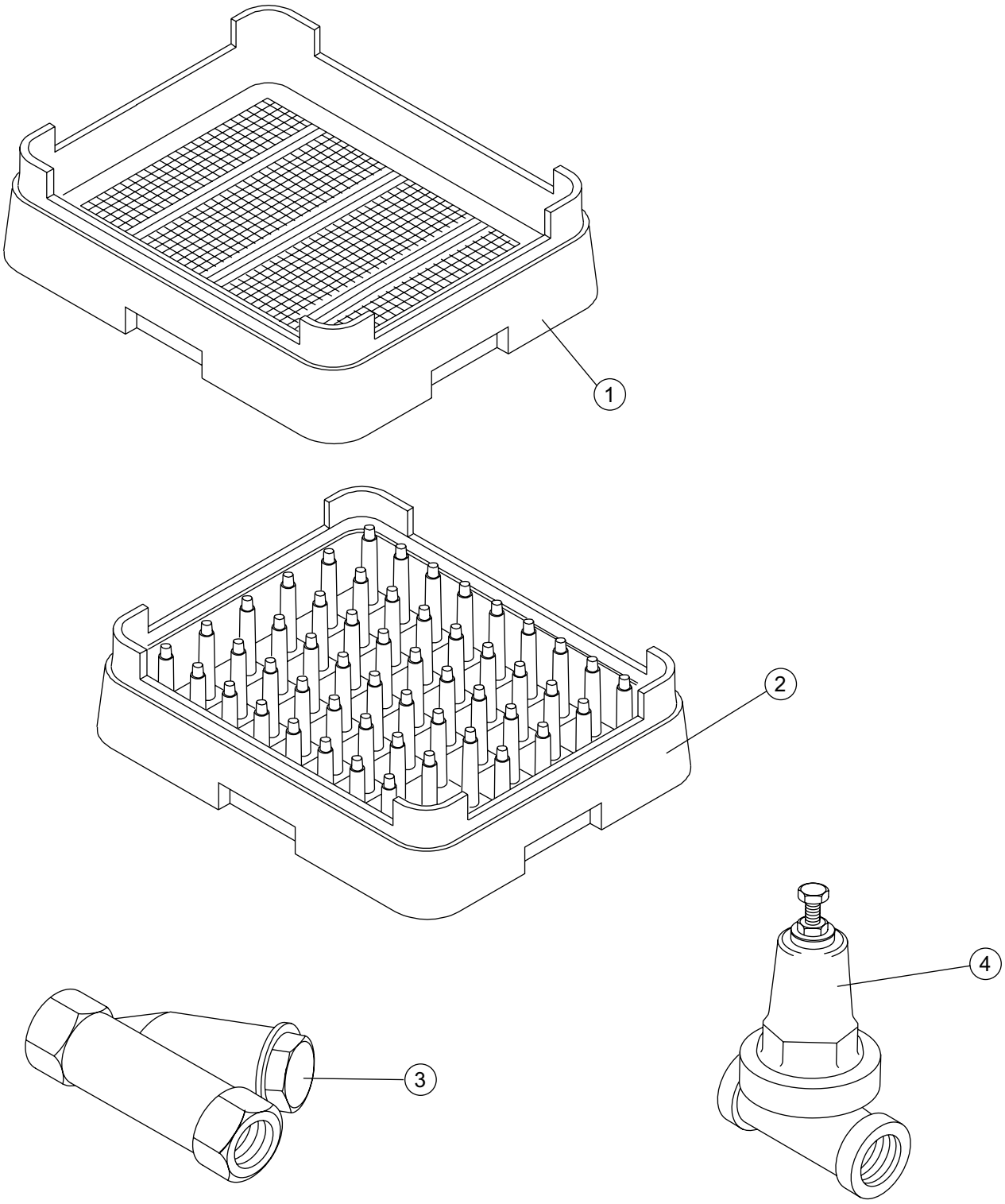
Item No.	Part No.	Description	Qty.
1	A0713136	DOOR ASSEMBLY	1
2	A0713428	HINGE, RH ASSY	1
3	A0501476	WASHER, 9/32" X 5/8" OD SS	1
4	A0501422	BOLT, HEX SS 1/4-20 X 1-1/2"	1
5	A0513332	SPRING, DOOR	2
6	A0713429	HINGE, LH ASSY	1
7	A0313430	ARM, DOOR SPRING	2
8	A0513794	GASKET, TOP DOOR	1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Item No.	Part No.	Description	Qty.
1	A101273	DISH RACK, FLAT-BOTTOM	AR
2	A101285	DISH RACK, PEG	AR
3	A104421	STRAINER, LINE 1/2" BRONZE	1
4	A108265	VALVE, PRESSURE REGULATING (PRV)	1

RACK STORAGE WARNING

*****WARNING*****

STORING WET DISH RACKS DIRECTLY ON TOP OF THE MACHINE WITHOUT A DRIP TRAY KIT INSTALLED WILL VOID WARRANTY

PART NO. 0714208