

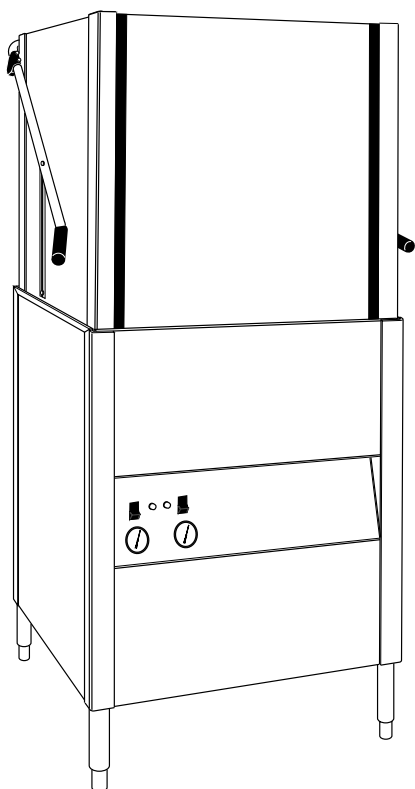


*This manual supersedes
P/N 112425, dated April, 1997.
Remove and destroy previous edition.*

Simply Engineered Better

Technical Manual

For machines beginning with serial no. 89519 and above



Door-Type Dishwasher

Model

**MH-60M3
High Temperature
with Built-in Booster**

**MH-6NM3
High Temperature**

**MH-6LM3
Low Temperature**

Machine Serial No.

February, 1998

P. O. Box 4183
Winston-Salem, North Carolina 27115-4183
336/661-1992 Fax: 336/661-1660

Manual P/N 112425 REV. B

2674 N. Service Road
Jordan Station, Ontario, Canada LOR 1S0
905/562-4195 Fax: 905/562-4618

Moyer Diebel

Complete the information below so it will be available for quick reference.

Model Number _____ Serial Number _____

Voltage and Phase _____

Moyer Diebel Parts Distributor _____ Phone _____
(if applicable)

Moyer Diebel Service Agency _____ Phone _____

Moyer Diebel Service:

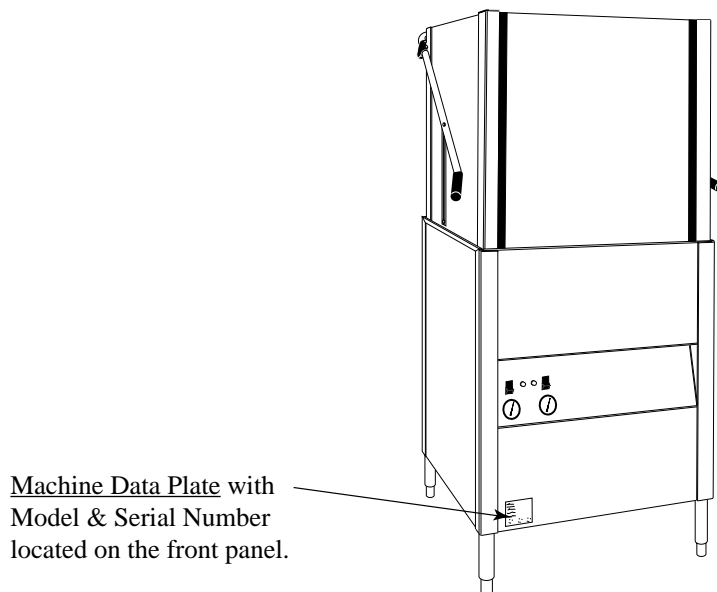
Moyer Diebel, US

Phone: 1(336) 661-1992
1(800) 228-8350
Fax: 1(336) 661-1660

Moyer Diebel, Limited

Phone: 1(905) 562-4195
1(800) 263-5798
Fax: 1(905) 562-4618

Note: When calling to order parts, be sure to have the model number, serial number, voltage and phase of your machine, along with your customer account number.



Revision History

| Revision Date | Revised Pages | Serial Number Effectivity | Comments |
|---------------|---------------|---------------------------|---|
| 4/27/97 | — | 89519 | MH-M3 control circuit is 120VAC MH-M2 series was 220VAC |
| 1/30/98 | All | 89519 | Reissue of manual and replacement parts lists <i>This manual replaces temporary manual issued 4/5/97</i> |
| 7/1/98 | 65 | — | Corrected P/N's for fuses |

CONTENTS

| | |
|---|----|
| LIMITED WARRANTY | 4 |
| INTRODUCTION | 5 |
| Model Number | 6 |
| Standard Equipment | 6 |
| Options | 6 |
| Electrical Power Requirements | 7 |
| INSTALLATION | 8 |
| Unpack the Dishwasher | 8 |
| To Change from Straight-through Operation to Corner Operation | 9 |
| Electrical Connections | 10 |
| Plumbing Connections | 12 |
| Water Connections | 12 |
| Drain Connections | 13 |
| Chemical Connections | 14 |
| INITIAL START-UP | 16 |
| OPERATION SUMMARY | 22 |
| CLEANING | 23 |
| Cleaning Schedule | 23 |
| Deliming Process | 24 |
| TROUBLESHOOTING | 25 |
| BASIC SERVICE | 27 |
| REPLACEMENT PARTS | 33 |
| ELECTRICAL SCHEMATICS | 69 |

LIST OF FIGURES

| | |
|---|----|
| Figure 1 – Remove Front Panel | 8 |
| Figure 2 – Placement for Corner Operation | 9 |
| Figure 3 – Change the Track Assembly | 9 |
| a — Straight-through Configuration | |
| b — Corner Configuration | |
| Figure 4 – Electrical Connection Location | 10 |
| Figure 5 – Hinged Control Panel | 11 |
| Figure 6 – Main Terminal Block | 11 |
| Figure 7 – Hot Water Connection (MH-60 Only) | 12 |
| Figure 8 – Hot Water Connection (MH-6N, MH-6L Only) | 12 |

LIST OF FIGURES (cont.)

| | |
|--|----|
| Figure 9 – Drain Hose Connection | 13 |
| Figure 10 – Chemical Dispenser Signal Terminal Block | 14 |
| Figure 11 – Chemical Signal Connection Points | 14 |
| Figure 12 – Detergent Probe Injection Points, 1/2" | 15 |
| Figure 13 – Rinse Aid and Sanitizer Injection Points | 15 |
| Figure 14 – Fuses | 28 |
| Figure 15 – Motor Overload | 28 |
| Figure 16 – Cycle Timer | 29 |
| Figure 17 – Cycle Timer Chart | 29 |
| Figure 18 – Fill Timer | 29 |
| Figure 19 – Heater Element Wiring | 30 |
| Figure 20 – Pump Motor Wiring Diagrams | 31 |
| Figure 21 – Pump Seal Replacement | 32 |
| Figure 22 – Doors and Panels | 34 |
| Figure 23 – Door Guides, Stops and Lift Bracket | 36 |
| Figure 24 – Door Handle, Spring Assembly and Safety Switch | 38 |
| Figure 25 – Track Assembly | 40 |
| Figure 26 – Wash/Rinse Spray Piping | 42 |
| Figure 27 – Wash/Rinse Spray Arms | 44 |
| Figure 28 – Drain Assembly and Scrap Screens | 46 |
| Figure 29 – Wash Tank Heat and Thermostats | 48 |
| Figure 30 – Electric Booster and Thermostats (MH-60 Only) | 50 |
| Figure 31 – Lower Fill Piping Assembly (MH-60 Only) | 52 |
| Figure 32 – Upper Fill Piping Assembly (MH-60/6N Only) | 54 |
| Figure 33 – Lower Fill Piping Assembly (MH-6N/6L Only) | 56 |
| Figure 34 – Upper Fill Piping Assembly (MH-6L Only) | 58 |
| Figure 35 – Pump Assembly | 60 |
| Figure 36 – Control Panel and Gauges | 62 |
| Figure 37 – Control Cabinet | 64 |
| Figure 38 – Dishracks and PRV | 66 |
| Figure 39 – Three Phase Electrical Schematic | 69 |
| Figure 40 – Single Phase Electrical Schematic | 70 |

LIMITED WARRANTY

Champion Industries/Moyer Diebel Limited, P.O. Box 4183, Winston-Salem, North Carolina 27115, and P. O. Box 301, 2674 North Service Road, Jordan Station, Ontario, Canada L0R 1S0 warrants machines, and parts, as set out below.

Warranty of Machines: Champion Industries/Moyer Diebel Limited warrants all new machines of its manufacture bearing the name "Champion" or "Moyer Diebel" 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 Champion/Moyer Diebel, whichever occurs first. [See below for special provisions relating to Model Series DF and SW.] The warranty registration card must be returned to Champion/Moyer Diebel within ten (10) days after installation. If warranty card is not returned to Champion/Moyer Diebel within such period, the warranty will expire after one year from the date of shipment.

Champion/Moyer Diebel 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, Champion/Moyer Diebel, at its election, will either repair or replace the defective machine or accept return of the machine for full credit; provided, however, as to Model Series DF and SW, Champion/Moyer Diebel'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 Champion/Moyer Diebel 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/Moyer Diebel authorized service technician. Defective parts become the property of Champion/Moyer Diebel. Use of replacement parts not authorized by Champion/Moyer Diebel will relieve Champion/Moyer Diebel of all further liability in connection with its warranty. In no event will Champion/Moyer Diebel's warranty obligation exceed Champion/Moyer Diebel's charge for the machine. The following are not covered by Champion/Moyer Diebel'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. Adjustments to chemical dispensing equipment.
- h. Cleaning of valves, strainers, screens, nozzles, or spray pipes.
- i. Performance of regular maintenance and cleaning as outlined in operator's guide.
- j. Damages resulting from water conditions, accidents, alterations, improper use, abuse, tampering, improper installation, or failure to follow maintenance and operation procedures.

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: Champion/Moyer Diebel warrants all new machine parts produced or authorized by Champion/Moyer Diebel 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 Champion/Moyer Diebel will replace the defective part without charge.

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

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

INTRODUCTION

Welcome to **Moyer Diebel**...
and thank you for allowing us to take care of
your dishwashing needs.

This manual covers the door-type dishwasher,
Models MH-60, MH-6N, MH-6L.
Your machine was completely assembled,
inspected, and thoroughly tested at our factory
before it was shipped to your installation site.

This manual contains:

- Installation Instructions
- Operation and Cleaning Instructions
- Troubleshooting Guide
- Basic Service Information
- Replacement Parts Lists
- Electrical Schematics

All information, illustrations and specifications
contained in this manual are based upon the
latest product information available at the time
of publication. **Moyer Diebel** constantly
improves its products and reserves the right to
make changes at any time or to change specifi-
cations or design without notice and without
incurring any obligation.

For your protection, factory authorized parts
should always be used for repairs.

Replacement parts may be ordered directly
from your **Moyer Diebel** authorized parts
distributor or authorized service agency. When
ordering parts, please supply the model num-
ber, serial number, voltage, and phase of your
machine, the part number, part descriptions and
quantity.

Model Numbers

MH-60, MH-6N, MH-6L

The MH-60 model is a high temperature (180°F/82°C rinse) sanitizing model with booster.

The MH-6N model is a high temperature (180°F/82°C rinse) sanitizing model without booster.

The MH-6L is a low temperature (Min. 120°F/49°C-140°F/60°C Optimum) sanitizing model for use with a sodium hypochlorite (Chlorine) based sanitizer at a minimum concentration of 50 PPM in the final rinse.

Standard Equipment includes:

MH-60, MH-6N, MH-6L

- Automatic tank fill and start
- Built-in electric booster heater (MH-60 only)
- Field convertible to corner model
- Electric tank heat
- Balanced three door lift system
- Low-water tank heat protection
- 1-hp drip-proof pump motor
- Door safety switch
- Common utility connections
- Two dish racks (peg and flat bottom)
- Detergent/chemical connection provisions
- Stainless steel front and side panels
- 60-second time cycle
- 1-1/2" O.D. gravity drain connection
- Water pressure reducing valve (MH-60 only)
- Interchangeable upper and lower spray arms

Options (MH-60 only)

- Electric booster (70°F/39°C temperature rise) heater for 110°F/43°C supply water
- Steam injector or steam coil tank heat (steam booster 40°F/23°C-70°F/39°C rise)

Accessories

Additional dishracks:

| | |
|-------------------------------|------------|
| Dish rack (peg) | P/N 101285 |
| Silverware rack (flat bottom) | P/N 101273 |

| | |
|------------------------------------|------------|
| 3/4" Pressure reducing valve (PRV) | P/N 112387 |
|------------------------------------|------------|

Electrical Power Requirements: Fig Electric Heat/Electric Booster

| Model | Voltage | Booster Rise (MH-60 Only) | Machine Full Load Amps | Power Requirement (125% Service Factor) |
|-------------|----------|------------------------------|---------------------------|--|
| MH-6N/MH-6L | 115/60/1 | — | 48 Amps | 60 Amps |
| MH-6N/MH-6L | 208/60/1 | — | 23 Amps | 29 Amps |
| MH-6N/MH-6L | 220/60/1 | — | 23 Amps | 29 Amps |
| MH-6N/MH-6L | 230/60/1 | — | 23 Amps | 29 Amps |
| MH-6N/MH-6L | 240/60/1 | — | 24 Amps | 30 Amps |
| MH-6N/MH-6L | 208/60/3 | — | 12 Amps | 15 Amps |
| MH-6N/MH-6L | 220/60/3 | — | 13 Amps | 16 Amps |
| MH-6N/MH-6L | 230/60/3 | — | 13 Amps | 16 Amps |
| MH-6N/MH-6L | 240/60/3 | — | 13 Amps | 16 Amps |
| MH-6N/MH-6L | 380/60/3 | — | 7 Amps | 9 Amps |
| MH-6N/MH-6L | 415/60/3 | — | 8 Amps | 10 Amps |
| MH-6N/MH-6L | 480/60/3 | — | 6 Amps | 8 Amps |
| MH-6N/MH-6L | 575/60/3 | — | 5 Amps | 6 Amps |
| <hr/> | | | | |
| MH-60 | 115/60/1 | — | — | — |
| MH-60 | 208/60/1 | 40°F/23°C | 59 Amps | 74 Amps |
| MH-60 | 220/60/1 | 40°F/23°C | 61 Amps | 76 Amps |
| MH-60 | 230/60/1 | 40°F/23°C | 63 Amps | 79 Amps |
| MH-60 | 240/60/1 | 40°F/23°C | 65 Amps | 81 Amps |
| MH-60 | 208/60/3 | 40°F/23°C | 33 Amps | 41 Amps |
| MH-60 | 220/60/3 | 40°F/23°C | 35 Amps | 44 Amps |
| MH-60 | 230/60/3 | 40°F/23°C | 36 Amps | 45 Amps |
| MH-60 | 240/60/3 | 40°F/23°C | 37 Amps | 46 Amps |
| MH-60 | 380/60/3 | 40°F/23°C | 20 Amps | 25 Amps |
| MH-60 | 415/60/3 | 40°F/23°C | 20 Amps | 25 Amps |
| MH-60 | 480/60/3 | 40°F/23°C | 17 Amps | 21 Amps |
| MH-60 | 575/60/3 | 40°F/23°C | 14 Amps | 18 Amps |
| <hr/> | | | | |
| MH-60 | 115/60/1 | — | — | — |
| MH-60 | 208/60/1 | — | — | — |
| MH-60 | 220/60/1 | — | — | — |
| MH-60 | 230/60/1 | — | — | — |
| MH-60 | 240/60/1 | — | — | — |
| MH-60 | 208/60/3 | 70°F/39°C | 50 Amps | 63 Amps |
| MH-60 | 220/60/3 | 70°F/39°C | 52 Amps | 65 Amps |
| MH-60 | 230/60/3 | 70°F/39°C | 54 Amps | 68 Amps |
| MH-60 | 240/60/3 | 70°F/39°C | 56 Amps | 70 Amps |
| MH-60 | 380/60/3 | 70°F/39°C | 30 Amps | 38 Amps |
| MH-60 | 415/60/3 | 70°F/39°C | 33 Amps | 41 Amps |
| MH-60 | 480/60/3 | 70°F/39°C | 28 Amps | 35 Amps |
| MH-60 | 575/60/3 | 70°F/39°C | 23 Amps | 29 Amps |

INSTALLATION

Unpack the dishwasher



CAUTION:

Care should be taken when lifting the machine to prevent damage.



NOTE:

The installation of your machine must meet all applicable health and safety codes.

1. Immediately after unpacking the machine, inspect for any shipping damage. If damage is found, save the packing material and contact the carrier immediately.
2. Remove the dishwasher from the skid. Move the machine to its permanent location.



NOTE:

Refer to: To change from Straight-through Operation to Corner Operation on the next page if your machine will be placed for corner operation.

3. Level the machine (if required) by placing a level on the top of the machine and adjusting the feet. Level the machine front-to-back and side-to-side.
4. Remove the dishracks from the interior of the machine.
5. Refer to Fig. 1. Remove (2) screws that hold the front panel. Remove the front panel in preparation for service connections.

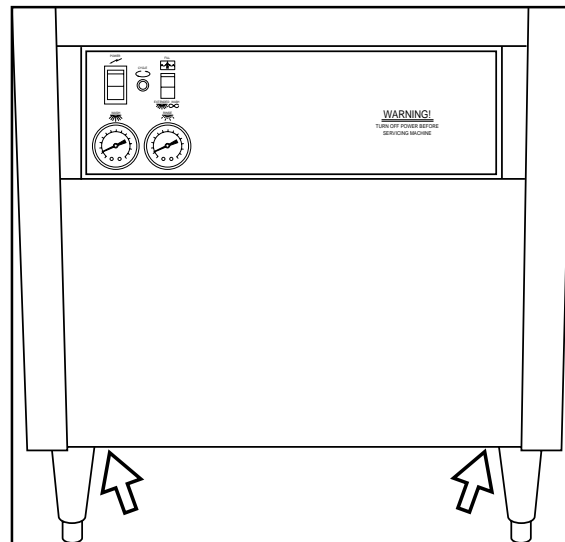


Figure 1
Remove Front Panel

To Change from Straight-through Operation to Corner Operation

The dishwasher is shipped from the factory for straight-through operation. The following instructions explain how to change the dishwasher for corner operation.

Refer to Fig. 2

1. Place the dishwasher so that operator controls are readily accessible.
2. Minimum clearance from any wall is 5-1/4" (133mm).

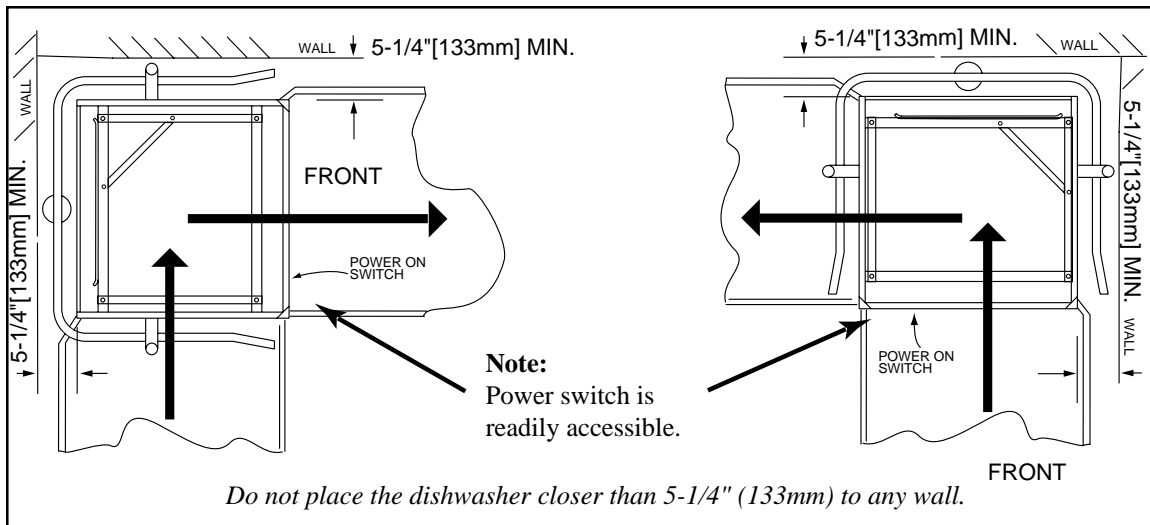


Figure 2
Placement for Corner Operation

Refer to Fig. 3a-3b and perform the steps below.

1. Remove the front rack guide (A). Discard the square spacers.
2. Move front rack guide (A) to the left side of the rack tracks. (See Fig. 3b) Use existing hardware.
3. Unbolt the track (B) and rack support rod (C).
4. Remove and save the two remaining fasteners from rear track.
5. Bolt (B) and (C) as shown in Fig. 3b.

Figure 3
Change the Track Assembly

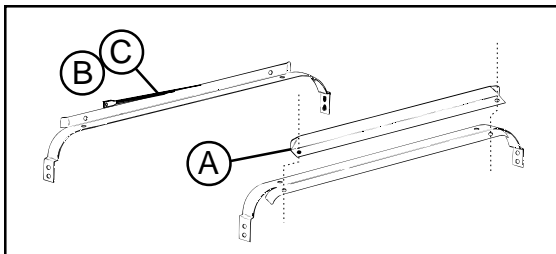


Figure 3a
Straight-through Configuration

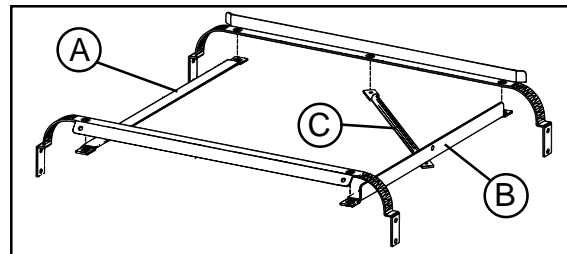




Figure 3b
Corner Configuration

INSTALLATION (Cont.)

Electrical Connections

 **WARNING:**
Electrical and grounding connections must comply with all applicable Electrical Codes.

 **WARNING:**
When working on the dishwasher, disconnect the electric service and place a tag at the disconnect switch to indicate work is being done on that circuit.

1. A qualified electrician must compare the electrical power supply with the machine electrical specifications before connecting to the incoming service through a fused disconnect switch.

Refer to Fig. 4

2. A knock-out is provided at the lower right rear corner (as viewed from the front) for the electrical service connection. A fused disconnect switch or circuit breaker (supplied by others) is required to protect the power supply circuit.

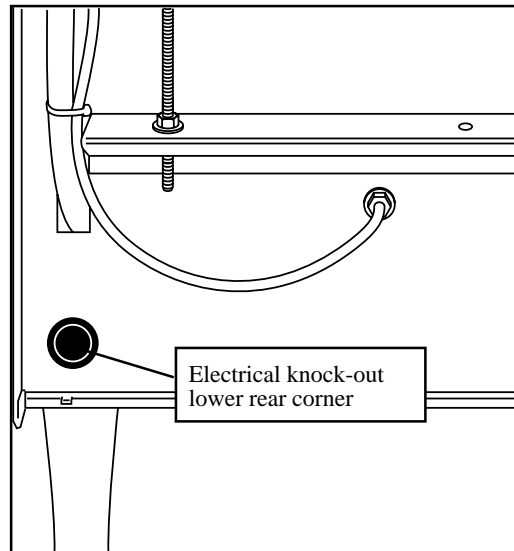


Figure 4
Electrical Connection Location

Electrical Connections (Cont.)

Refer to Fig. 5

3. Remove (2) lower screws from the front panel of the machine to expose the electrical controls. Remove (2) screws on the control panel support. Swing the hinged control panel forward.

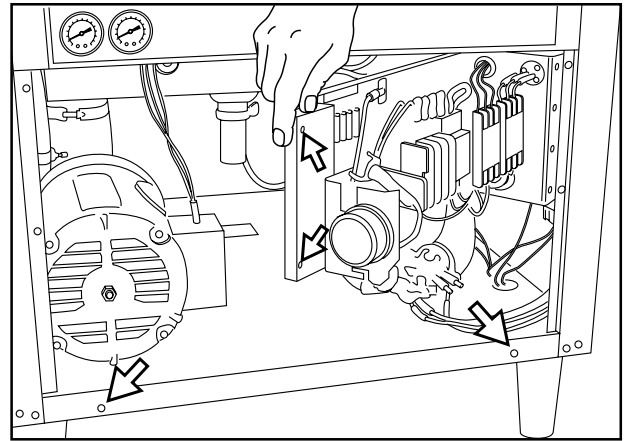


Figure 5
Hinged Control Panel

Refer to Fig. 6

4. Three phase or single phase incoming power wiring connections are made at the bottom of the machine's main terminal block. The main terminal block is located on the side of the front right post of the dishwasher.

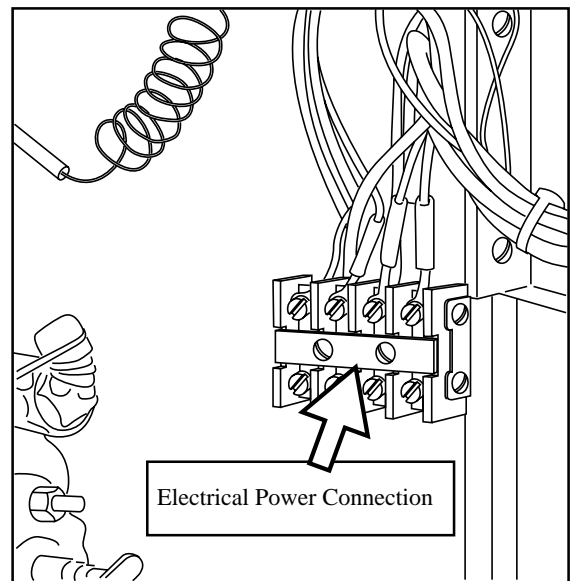


Figure 6
Main Terminal Block

INSTALLATION (Cont.)

Plumbing Connections

NOTE:

Plumbing connections must comply with all applicable sanitary and plumbing codes.

Water Connections

1. All MH series dishwashers require a single, hot water supply.

The hot water connection to all MH series dishwashers is 3/4" NPT.

The connection is made from underneath the dishwasher.

The following minimum water temperatures are recommended:

MH-60 with built-in 40° rise electric booster (Minimum 140°F/60°C)
(Min./Max. flow pressure 20-22 PSI/138-151.8 kPa)

MH-60 with built-in 70° rise electric booster (Minimum 110°F/43°C)
(Min./Max. flow pressure 20-22 PSI/138-151.8 kPa)

MH-6N without built-in booster (Minimum 180°F/70°C)
(Min./Max. flow pressure 20-22 PSI/138-151.8 kPa)

MH-6L low temperature (Minimum 120°F/49°C-140°F/60°C Optimum)
(Min./Max. flow pressure 20-22 PSI/138-151.8 kPa)

Refer to Figs. 7 and 8

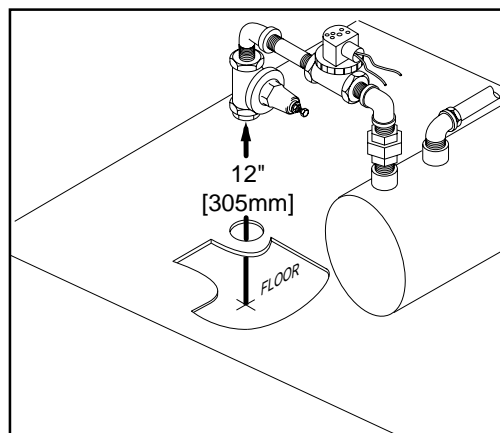


Figure 7
Hot Water Connection
(MH-60 Only)
3/4" NPT

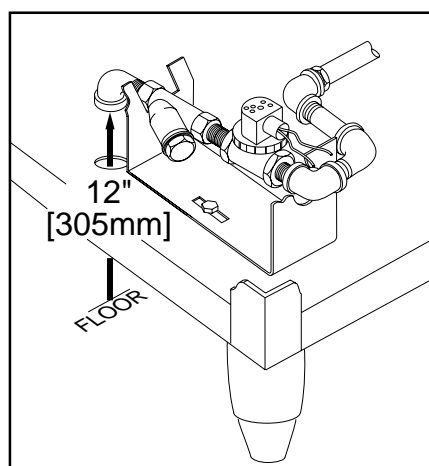


Figure 8
Hot Water Connection
(MH-6N, MH-6L Only)
3/4" NPT

Water Connections (Cont.)

2. A manual shut-off valve for steam and water (supplied by others) should be installed in the supply line to allow for servicing of the machine. The shut-off valve should be the same size or larger than the supply line.
3. Install a 3/4" pressure reducing valve (PRV) in the water supply line if flow pressure exceeds 20-22 PSI/138-151.8 kPa.

A PRV is standard equipment on Model MH-60. A PRV is not standard equipment on Models MH-6N, MH-6L.

Drain Connections

Refer to Fig. 9

1. MH series models are GRAVITY DRAIN machines equipped with a 1-1/2" O.D. hose connection point.
2. The maximum drain flow rate is 15 gallons/min-56.8 liters/min.
3. Drain height for all models must not exceed 11" (280mm) above floor level.
4. The drain connection is made to the dishwasher from underneath the machine through an access hole in the machine base.

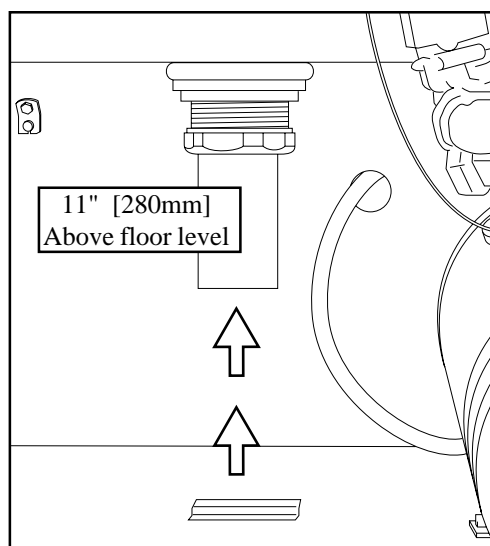


Figure 9
Drain Hose Connection
1-1/2" O.D.
(Max flow rate = 15 gal/min-56.8 liters/min)

Ventilation

NOTE:

Ventilation must comply with local sanitary and plumbing codes.



CAUTION:

Exhaust air should not be vented into a wall, ceiling, or concealed space of a building. Condensation can cause damage.

INSTALLATION (Cont.)

Chemical Connections



NOTE:

Consult a qualified chemical supplier for your chemical needs.

Refer to Fig. 10

1. A chemical signal terminal block is supplied for chemical dispensing equipment.
2. The terminal block is located below the control panel fuse block.

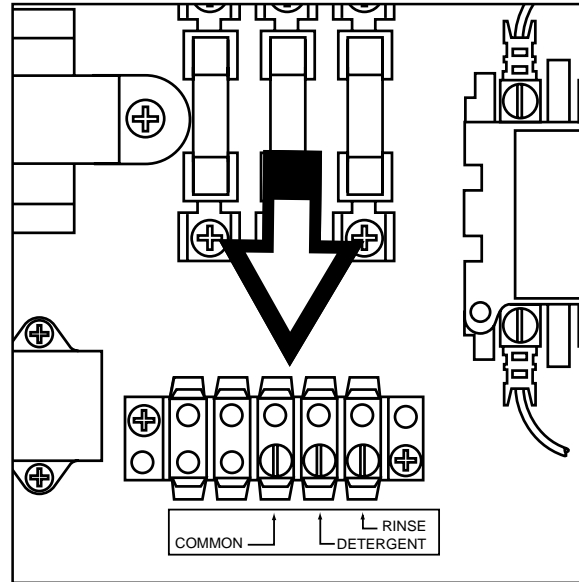


Figure 10
Chemical Dispenser
Signal
Terminal Block

Refer to Fig. 11

3. The detergent signal is limited to a maximum load of 1 Amp. Signal voltage is 115VAC.
4. The Rinse aid/Sanitizer signal is limited to a maximum load of 1 Amp. Signal voltage is 115VAC.

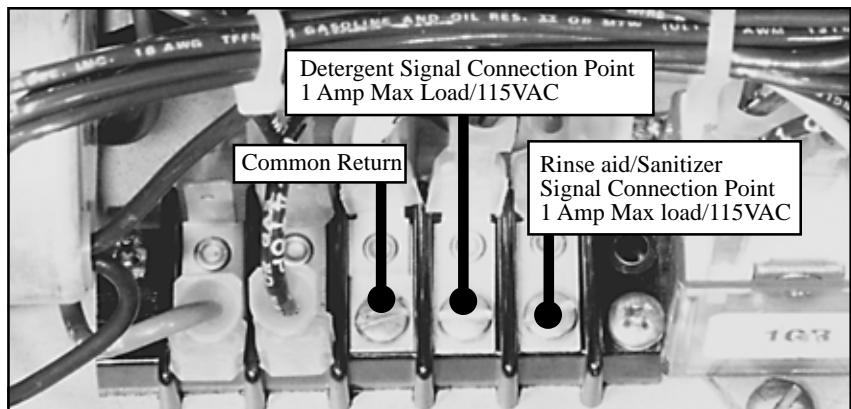


Figure 11
Chemical Signal
Connection Points

Chemical Connections (Cont.)

Refer to Fig. 12

5. A 1/2" detergent probe injection point is provided at the rear and left side of the dishwasher.
6. Detergent may be added manually if your dishwasher is not equipped with dispensing equipment. Consult your chemical supplier for recommended amounts.

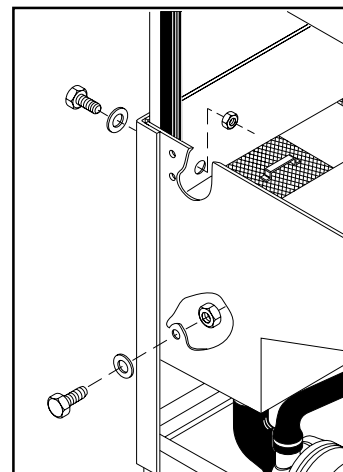


Figure 12
Detergent Probe
Injection Points, 1/2"

Refer to Fig. 13

7. **MH-60, 6N, 6L**

A 1/4" NPT rinse aid injection point is provided in the final rinse manifold. Use a liquid rinse aid. The manifold is located on the top right side of the dishwasher.

8. **MH-6L Only**

A 1/8" NPT sanitizer injection point is provided in the final rinse manifold.

Models MH-60 and MH-6N do not require sanitizer.

9. Use a sodium hypochlorite (Chlorine) based sanitizer at a minimum concentration of 50PPM in the final rinse.
10. Use chlorine test papers to verify and monitor the 50PPM chlorine level.



WARNING:

Never premix rinse aid with the sanitizing agent. Mixing may cause hazardous gases to form.



CAUTION:

Some metals, including silver, aluminum and pewter, are attacked by sodium hypochlorite (chlorine). Avoid cleaning these metals in a MH-6L.

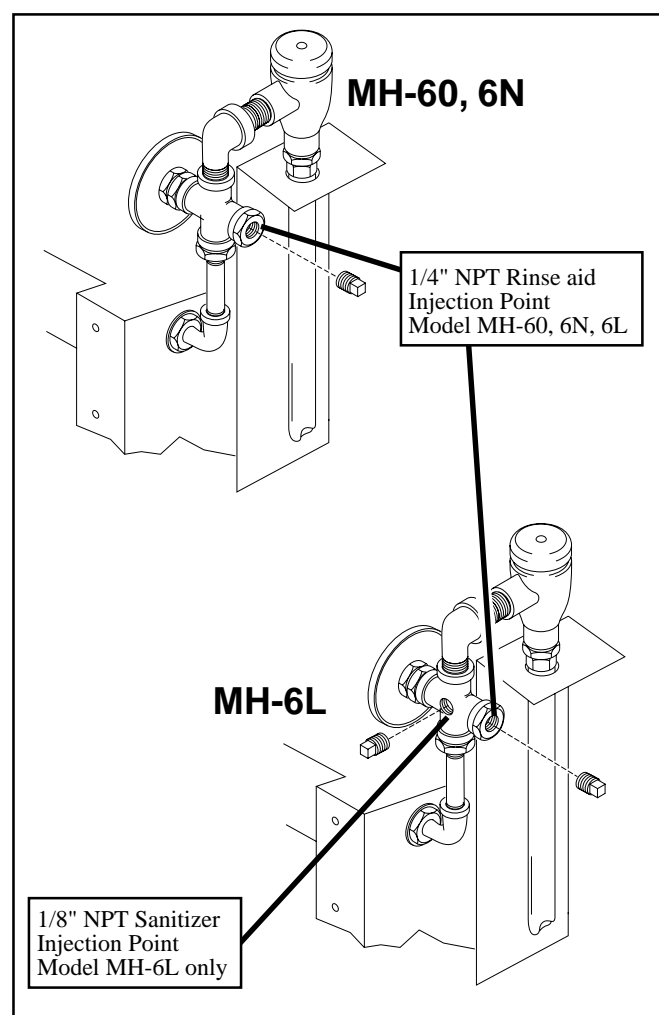


Figure 13
Rinse Aid and
Sanitizer Injection Points
(Top of Dishwasher)

INITIAL START-UP

Complete the installation

After plumbing and electrical connections are made, follow the steps below to complete the installation of your dishwasher.

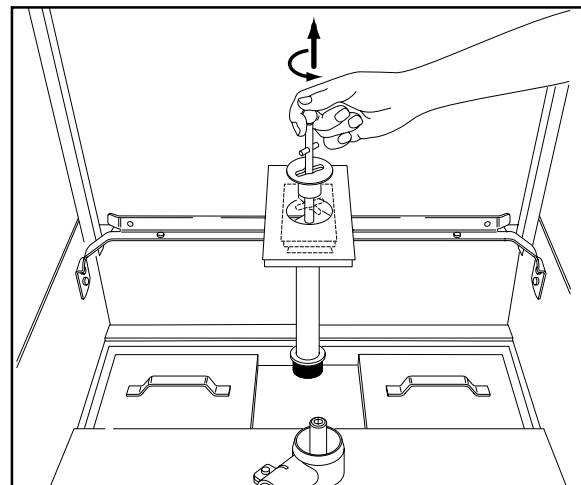
1. Remove the white protective covering from the exterior of the machine.
2. Remove any foreign material from inside the machine.
3. Make sure dishwasher power switch is off.
4. Turn main water supply on.
5. Turn main power on at the main power service disconnect switch.

1

Install the Scrap Screens and Drain-Overflow Assembly

Install scrap screens.
Make sure rubber stopper is secure on the drain-overflow assembly.

Make sure the drain-overflow seats securely in the tank bottom.

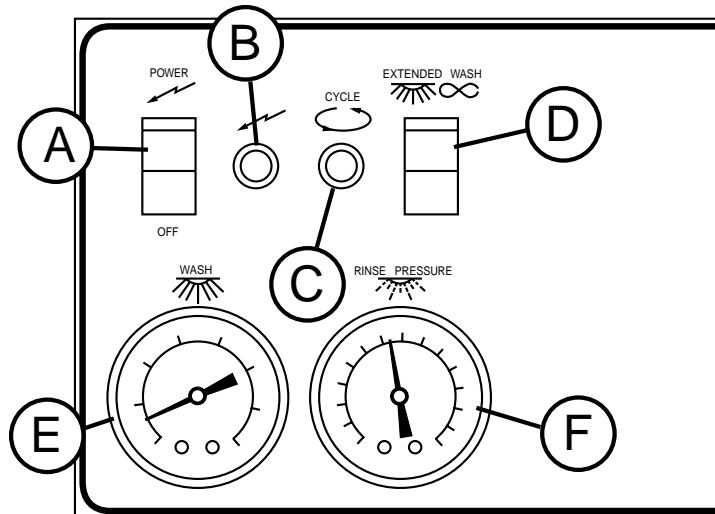


MAKE SURE DOORS ARE FULLY CLOSED.

2

The controls are located on the front of the dishwasher.

- A- On/Off power switch
- B- Power indicator Light
- C- In-cycle light
- D- Extended wash switch
- E- Wash water temperature gauge
- F- Final rinse pressure gauge



INITIAL START-UP (Cont.)

3

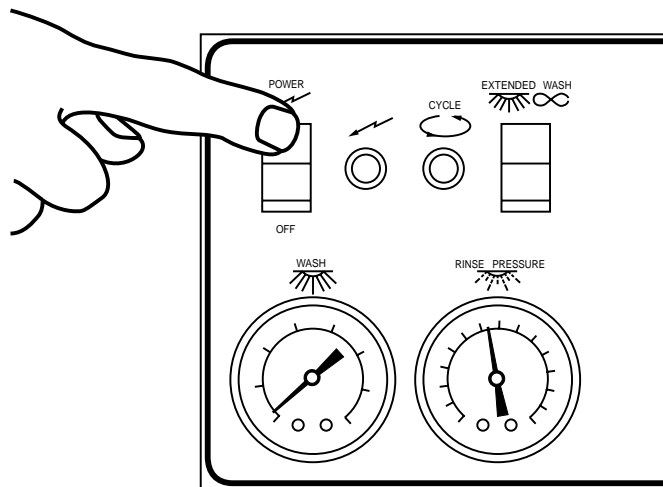
THE POWER SWITCH IS ON DURING INITIAL FILL.

Make sure the doors are fully closed.
Push the On/Off power switch to the UP position.

THE DISHWASHER FILLS AUTOMATICALLY.

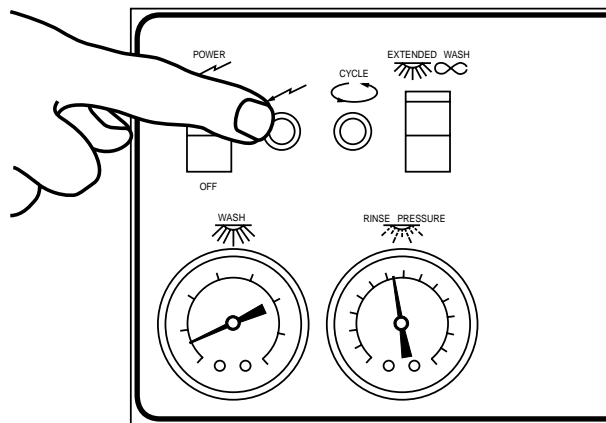
NOTE:

The dishwasher will fill automatically each time the power is turned off even if the dishwasher is full of water.



4

Note that the power indicator light is illuminated.



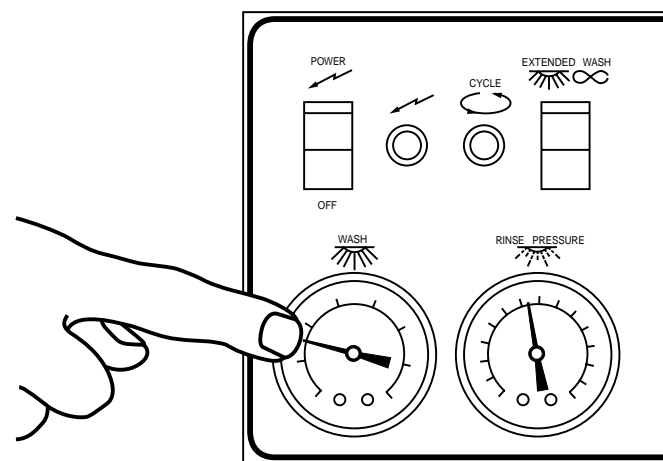
5

Check Wash Water Temperature

The wash tank heater and the (booster tank heater, MH-60 only) will begin to heat the water in the dishwasher.

Wait approximately 10 minutes for the wash tank water to reach operating temperature. The temperature should be a minimum of 150°F/66°C for (MH-60, MH-6N). The MH-6L requires a minimum of 120°F/49°C. However, a minimum of 140°F/60°C is optimum for the MH-6L.

Prescrap the dishes. Load ware into the dishrack. Open the doors, insert the rack into the dishwasher.



INITIAL START-UP (Cont.)

6

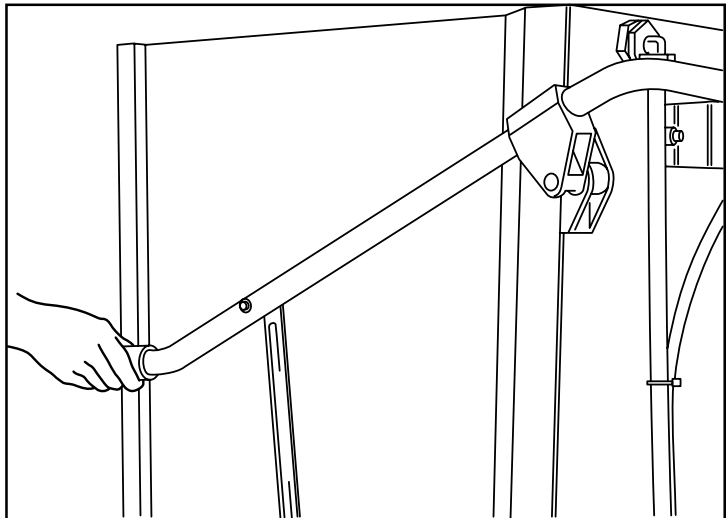
Fully close the dishwasher doors.
The dishwasher will begin the automatic cycle.

Opening the doors anytime
during the cycle will stop the
dishwasher.

Closing the doors will resume
the automatic cycle where it
left off.

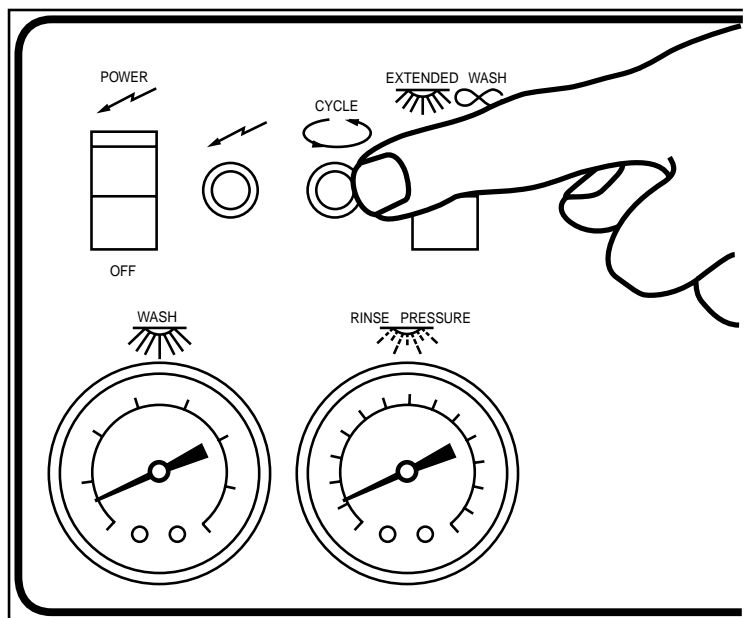
The cycle times are listed below:

| | | |
|-------------|---|------------|
| Wash | = | 45 seconds |
| Dwell | = | 1 second |
| Final rinse | = | 14 seconds |



7

Note that the in-cycle light
is lit during the automatic
dishwasher cycle.



INITIAL START-UP (Cont.)

8

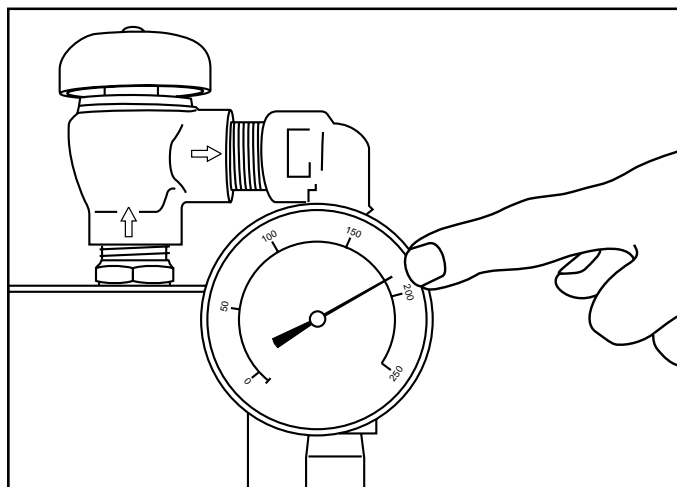
Check Final Rinse Water Temperature

Check the final rinse water temperature during the final rinse cycle.

The final rinse water temperature gauge is located in the final rinse piping at the top of the dishwasher.

The final rinse water temperature should be a minimum of 180°F/82°C for (MH-60, MH-6N). The optimum final rinse temperature for (MH-60, MH-6N) is 180-195°F/82-91°C.

The MH-6L requires a minimum final rinse temperature of 120°F/49°C. However, a minimum final rinse temperature of 140°F/60°C is optimum for the MH-6L.

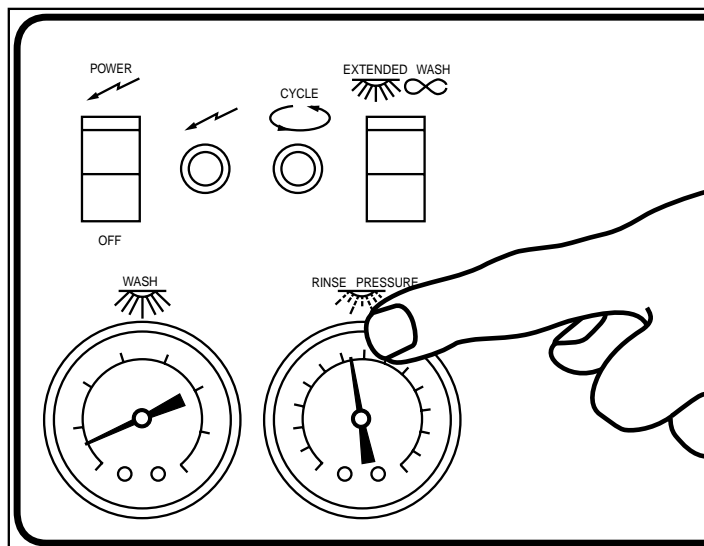


9

Check Final Rinse Water Pressure

The final rinse water pressure gauge should indicate a flowing pressure of 20-22 PSI/138-151.8 kPa during the final rinse cycle for all models.

A pressure reducing valve (PRV) is required if flow pressure exceeds 20-22 PSI/138-151.8 kPa.



INITIAL START-UP (Cont.)

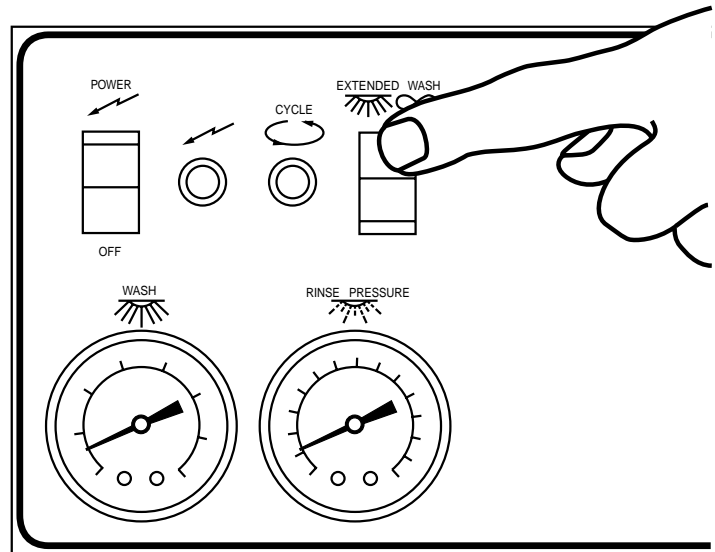
10

The Extended Wash Operation

The extended wash switch holds the dishwasher in a continuous wash mode for cleaning heavily soiled ware.

Open and then fully close the dishwasher doors. The dishwasher will begin a wash cycle automatically.

Push the Extended wash switch UP to the extended wash position. The dishwasher will remain in a continuous wash mode until the switch is flipped down. The dishwasher will resume the cycle and finish with a final rinse.



11

Complete the initial start-up

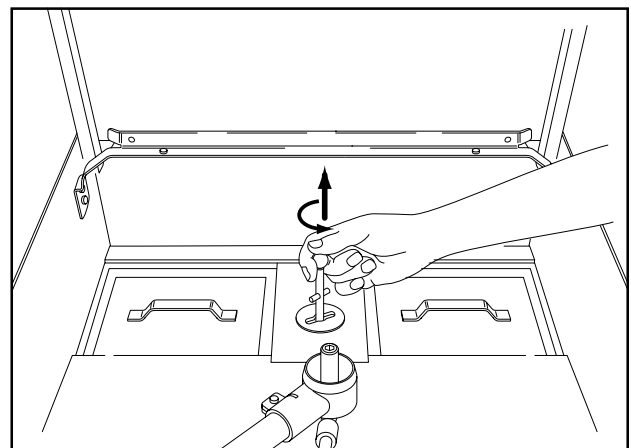
Check all the plumbing for leaks. Also, check the drain plumbing for leaks and be sure that the drain will handle the drain water flow (15 gal/min-56.8 liters/min) from the dishwasher.

After the drain and the plumbing connections are checked, turn off the dishwasher power switch.

12

Drain the dishwasher

Make sure the dishwasher power switch is turned off. Drain the dishwasher by pulling the handle of the drain-overflow assembly straight up. Rotate the handle 90° to lock the drain in the up position.

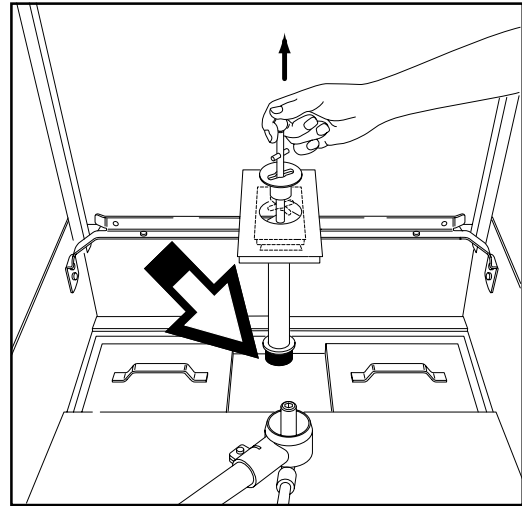


INITIAL START-UP (Cont.)

13

Drain the dishwasher (Cont.)

Be sure the drain-overflow seal is secure on the drain-overflow assembly.

**14**

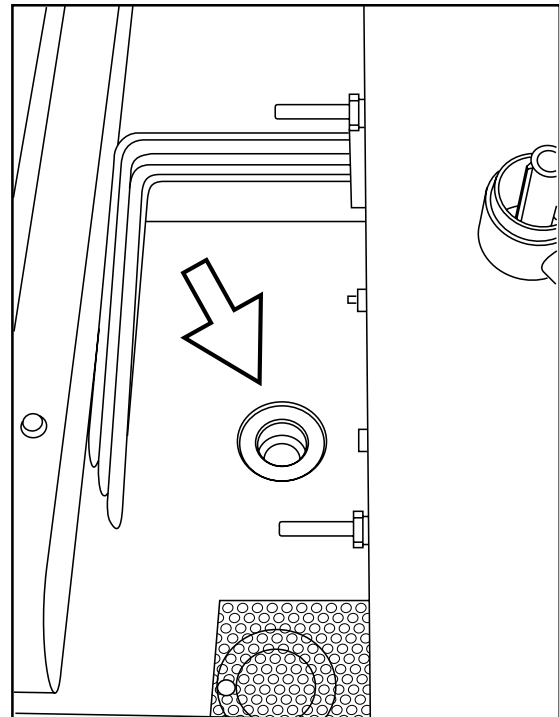
Remove the scrap screens and check the drain located in the bottom of the dishwasher wash tank.

Make sure that the building drain handles the water flow exiting the dishwasher.

Clean the interior of the wash tank of any foreign material.

Leave the doors open to air dry the interior of the dishwasher.

The initial start-up is complete.



OPERATION SUMMARY

| Action | Result |
|---|---|
| 1. Push the On/Off power switch “UP” to the ON position. Dishwasher fills automatically. | 1. The power indicator light illuminates. The wash tank heater and the booster tank heater begin to heat. |
| 2. Wait approximately 10 minutes for the wash tank heater to heat the water. Then, check the reading on the wash water temperature gauge. | 2. The wash water temperature gauge should indicate a minimum of 150°F/66°C for MH-60,MH-6N and 120°F/60°C for MH-6L. |
| 3. Prescrap and load the ware into the dishrack. | 3. Ware should be placed edgewise in the peg rack. Cups and bowls should be placed upside down in the flat rack. Silverware should be spread evenly in a single layer in the flat rack. |
| 4. Open the doors. Insert a dishrack of soiled ware. Fully close the doors. Opening the doors anytime during the automatic cycle stops the dishwasher. Closing the doors will resume the cycle where it left off. | 4. In-cycle light illuminates as the dishwasher begins a 60 second automatic cycle. The cycle times are listed below: Wash = 45 seconds Dwell = 1 second Final rinse = 14 seconds |
| 5. Check the final rinse temperature gauge reading during the 14 second final rinse cycle. | 5. The final rinse temperature gauge should indicate a minimum of 180°F/82°C for MH-60/6N. The optimum final rinse temperature range is between 180-195°F/82-90°C for MH60/6N. MH-6L optimum is 140°F/60°C. |
| 6. Check the incoming water pressure during the 10 second final rinse cycle. | 6. The water pressure gauge should indicate a flowing pressure of 20-22 PSI/138-151.8 kPa. A pressure reducing valve (PRV) is required if flow pressure exceeds 20-22 PSI/138-151.8 kPa. |
| 7. The 60 second automatic cycle ends. | 7. The in-cycle light goes out. |
| 8. Open the doors. Remove the clean rack. Insert another rack of soiled ware. Fully close the doors. | 8. The 60 second automatic cycle begins again. |
| 9. Turn power OFF at the dishwasher. Remove the drain-overflow assembly. Clean the scrap screens. Clean the dishwasher after each meal period or every two hours of operation. | 9. Dishwasher wash tank drains completely. Periodic cleaning reduces detergent consumption and improves washing results. |

CLEANING

Cleaning your machine is the best maintenance that you can provide. Components that are not regularly flushed and cleaned do not perform well.

The following schedules are the minimum requirements necessary for the proper performance of your machine. Intervals should be shortened whenever your machine is faced with abnormal working conditions, hard water, or multiple shift operations.

CLEANING SCHEDULE

Every 2 Hours or After Each Meal Period

1. Drain the dishwasher.
2. Flush interior with fresh water.
3. Clean scrap screens and pump intake screen.
4. Clean spray arm nozzles.

Every 8 Hours or at the End of the Day

1. Drain the machine.
2. Flush interior with fresh water.
3. Clean scrap screens and pump intake screen.
4. Clean spray arms.
5. Thoroughly clean the exterior of machine.

DO NOT HOSE DOWN WITH WATER.

6. Reassemble the machine.
7. Leave doors open to aid in drying.



CAUTION:

Do not leave water in wash tank overnight.

DELIMING

Your dishwasher should be delimed regularly depending on the mineral content of your water. Inspect the machine interior for mineral deposits and use a deliming solution for the best cleaning results.



NOTE:

Consult your chemical supplier for an appropriate deliming solution.



WARNING:

Deliming solutions or other acids must not come in contact with household bleach (sodium hypochlorite) or any chemicals containing chlorine, iodine, bromine, or fluorine. Mixing will cause hazardous gases to form.

Skin contact with deliming solutions can cause severe irritation and possible chemical burns. Consult your chemical supplier for specific safety precautions.

DELIMING PROCESS

Model MH-60 and MH-6N

1. Remove all dishes from machine.
2. Remove any chemical pick-up tubes from their containers.
3. Place each tube in a container of fresh water and prime the chemical lines for several minutes to thoroughly flush chemical from the lines. Leave pick-up tubes out of their containers.
4. Drain the machine and refill with fresh water.
5. Spray interior walls with deliming solution and let sit for 5 or 10 minutes depending on amount of build-up. Add deliming solution to wash tank.
Do not let chemicals sit for longer than 15 minutes.
6. Close the doors to run an automatic cycle.
7. Repeat Steps 4-6 if necessary.
8. Lift the drain lever assembly and drain the machine.
9. Refill the machine and run a complete cycle two additional times. Drain and refill the machine after each cycle to thoroughly flush any deliming solution from the interior of the machine.
10. Flip the power switch to OFF.
11. Drain machine.
12. Deliming is complete.

TROUBLESHOOTING

Perform the seven checks listed below in the event that your dishwasher does not operate as expected.

1. All switches are ON
2. Drain-overflow assembly is in place and seated
3. Wash and rinse nozzles are clean
4. Wash and rinse pipe assemblies are installed correctly
5. Scrap screens are properly positioned
6. Thermostat(s) are properly adjusted
7. Detergent and rinse additive dispensers are adequately filled

If a problem still exists, use the following table for troubleshooting

| CONDITION | CAUSE | SOLUTION |
|--|---|---|
| Machine will not start | Doors not closed | Make sure doors are fully closed |
| | Door safety switch faulty | Contact your service agency |
| | Start switch faulty | Contact your service agency |
| | Main switch off | Check disconnect at main panel |
| | Overload protector tripped | Reset overload in Control Box |
| Machine washes constantly | Extended wash switch in extended wash position | Push Extended wash switch down to the off position |
| Low or no water | Main water supply is turned off | Turn on house water supply |
| | Drain-overflow assembly is not in place and seated | Place and seat drain-overflow |
| | Machine doors not fully closed | Close doors securely |
| | Faulty fill valve | Contact your service agency |
| | Machine not filled initially | Push Power switch UP to fill |
| | Clogged strainer in fill valve | Clean or replace |
| Continuous water filling | Stuck or defective Fill Timer | Contact your service agency |
| | Fill valve will not close | Clean or replace |
| | Drain-overflow not in place | Install drain-overflow assembly |
| Wash motor not running | Overload protector tripped | Reset overload in Control Box |
| | Defective motor | Contact your service agency |
| Wash tank water temperature is low when in use | Incoming water temperature at machine too low | Raise temperature to: 110-140°F/43-60°C for MH60 180°F/82°C for MH-6N 120°F/49°C-140°F/60°C for MH6L |
| | Defective thermometer | Check or replace |
| | Defective thermostat | Check for proper setting or replace |
| | Defective heater element | Check or replace |
| | Defective solenoid valve | Check or replace |
| | Heater elements | Clean and delime |
| | have soil/lime buildup | |
| | | |

TROUBLESHOOTING (Cont.)

| CONDITION | CAUSE | SOLUTION |
|--|---|---|
| Insufficient pumped spray pressure | Clogged pump intake screen | Clean |
| | Clogged spray pipe | Clean |
| | Scrap screen full | Must be kept clean and in place |
| | Low water level in tank | Check drain-overflow assembly |
| | Pump motor rotation incorrect | Reverse connection between L1 and L2 in Control Cabinet |
| | Defective pump seal | Contact Service Agent |
| Insufficient final rinse or no final rinse | Faulty pressure reducing valve | Clean or replace |
| | Improper setting on pressure reducing valve | Set flow pressure at 20-22 PSI/ 138-151.8 kPa |
| | Clogged rinse nozzle and/or pipe | Clean |
| | Improper water line size | Have installer change to proper size |
| | Clogged strainer in fill valve | Clean or replace |
| Low final rinse temperature | Low incoming water temperature | Check the booster (MH60, MH6N) be sure the thermostat is set to maintain 180°F/82°C temperature. MH6L check incoming water is set Min. 120°F/49°C-140°F/60°C. |
| | | Check valve to be sure it is clean and operating |
| | Defective thermometer | Check for proper setting or replace |
| Poor washing results | Detergent dispenser | Contact detergent supplier |
| | not operating properly | |
| | Insufficient detergents | Contact detergent supplier |
| | Wash water temperature | See condition "Wash Tank Water Temperature" above |
| | too low | |
| | Wash arm clogged | Clean |
| | Improperly scraped dishes | Check scraping procedures |
| | Ware being improperly placed in rack | Use proper racks. Do not overload racks |
| | Improperly cleaned equipment | Unclog wash sprays and rinse nozzles to maintain proper pressure and flow conditions. Overflows must be open. Keep wash water as clean as possible. |
| | Heater elements | Clean and delime |
| | have soil/lime buildup | |

BASIC SERVICE

This Basic Service section does not cover all possible repair procedures. If you require additional service support, you may call your local service company or:

Moyer Diebel National Service

USA: 1-800-858-4477

Canada: 1-800-263-5798

Please have the Model and Serial Number of the machine ready when you call.

ELECTRICAL SERVICE

NOTE:

DO NOT USE CHASSIS GROUND WHEN PERFORMING VOLTAGE CHECKS.

Doing so will result in false and inaccurate readings.

PERFORM VOLTAGE CHECKS BY READING FROM THE HOT SIDE OF THE LINE AND NEUTRAL (any #2 or white wire).



WARNING:

USE EXTREME CAUTION when performing tests on energized circuits.



WARNING:

When repairing a circuit, disconnect the power at the main service disconnect switch and place a tag at the disconnect switch to indicate that work is being performed on the circuit.

Troubleshooting

Schematics

Moyer Diebel places an electrical schematic in the control cabinet of every machine before it is shipped. Schematics are included at the back of this manual as well. Be aware that these schematics include options that may not apply to your machine. Options are enclosed in dashed lines with the words (IF USED) next to them on the schematic. Disregard any options that appear on the schematics which are not a part of your machine.

Tools

All electrical repairs can be made with:

- Standard set of hand tools
- Volt/Ohm Meter (VOM)
- Clip-on AC current tester

Circuit Tests

Use a clip-on AC current tester to check the motors and electric heaters.

Use a VOM to test line voltages and the 115VAC control circuit.

ELECTRICAL SERVICE (Cont.)

Fuses —

Refer to Fig. 14.

There are two fuse blocks. A 3 pole block (A) is located in the main control cabinet. The (A) fuses protect the wash tank heater circuit. Booster heater circuits (MH-60 only) are not fused. A 2 pole fuse block is located on the machine base to protect the control circuit.

To Replace a fuse:

Turn the dishwasher main power switch off. Disconnect power to the machine at the main service disconnect switch. Replace the fuse. If the fuse blows again, **DO NOT INCREASE THE FUSE SIZE. DETERMINE THE CAUSE OF THE OVERLOAD.**

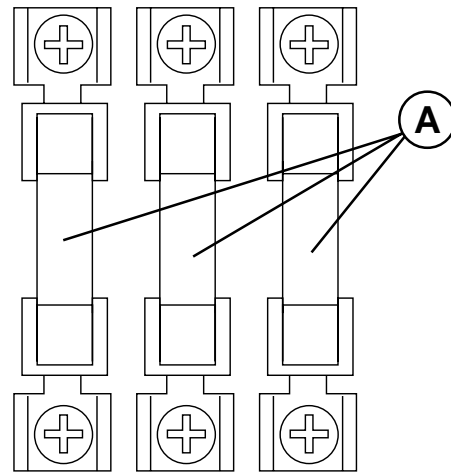


Figure 14
Wash tank heater fuses
Control Cabinet

Motor Overloads —

The wash pump motor has an overload to protect it from line voltage electrical overloads. The overload disconnects 120VAC power to the motor contactor coil.

Refer to Fig. 15.

Note the Switch Lever on the Overload.

If the switch lever is off with the “0” showing then the overload has tripped.

To Reset the Motor Overload:

Flip the overload switch to the On position. A “1” should be visible on the switch lever.

To Replace a Motor Overload:

Disconnect the wires to the overload. Release the mounting catch on the front side of the overload. Push forward and lift out. Snap the new overload into place and reconnect the wires.

To adjust the overload setting:

The screwdriver in Fig. 15 is positioned to adjust the motor overload AMP setting. Read the full load amps (FLA) motor amps on the motor nameplate. Turn setting to match the motor nameplate.

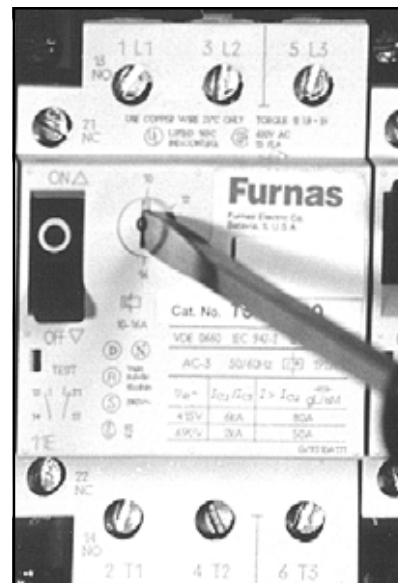


Figure 15
Motor Overload

ELECTRICAL SERVICE (Cont.)

Timers

MH-60, MH-6N, and MH-6L models have two timers located in the control cabinet.

These timers are not adjustable.
The timer chart is shown in Fig. 17.

Cycle Timer —

Refer to Fig. 16.

The cycle timer controls the dishwasher's 60-second operation. The timer consists of a timer motor, four micro-switches, and four non-adjustable metal cams.

Cam A controls power to the timer motor
Cam B controls power to the wash motor.

Cam C is not used.

Cam D controls power to the final rinse valve.

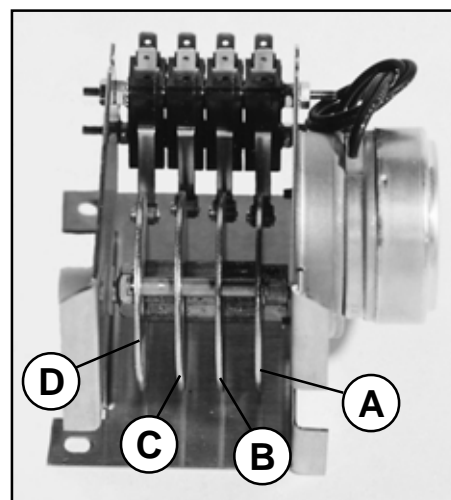
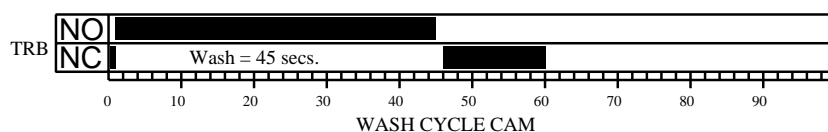
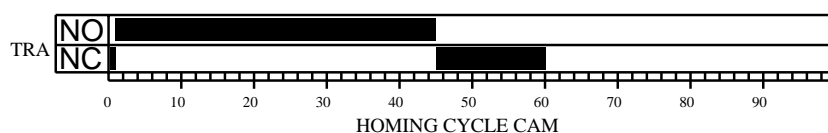
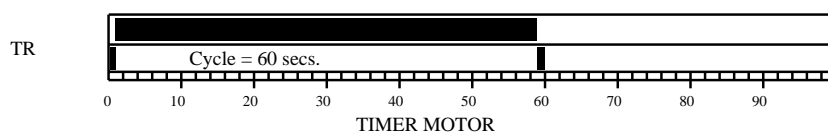


Figure 16
Cycle Timer



(TRC Not Used)

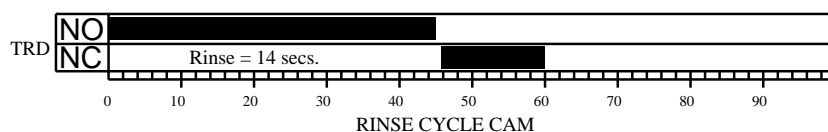


Figure 17
Cycle Timer Chart

Fill Timer —

Refer to Fig. 18.

The fill timer controls the dishwasher's 90-second fill operation. The timer consists of a timer motor, one micro-switch, and one non-adjustable plastic cam. The fill timer operates during initial fill. The fill timer also operates if main power is turned off and then turned back on even if the dishwasher is full of water.



Figure 18
Fill Timer

FILL TIME 90-SEC.



ELECTRICAL SERVICE (Cont.)

Heater Element Wiring – Booster Tank and Wash Tank Heater Elements

Refer to the illustrations and follow the steps below to properly install terminal jumpers and to make line power connections to a replacement element.

Step 1. Hold the element assembly with the calrod coils facing toward you.

Step 2. Match your element coil to Configuration A, B, C, or D.

Step 3. Rotate your element coils to match the correct configuration.

Step 4. Turn the element over and match your element to the correct terminal configuration.

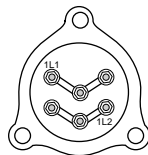
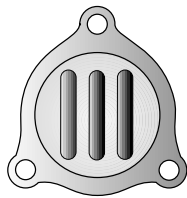
Step 5. Install terminal jumpers according to the illustration for your voltage requirement.

Step 6. Install the element and make your line connections 1L1, 1L2, or 1L3 per the illustration.

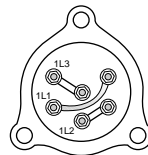
Configuration A

Booster tank element

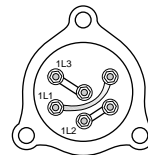
View of calrod coils



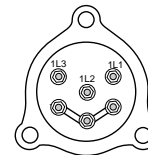
208V/1 Phase



208-240V/3 Phase
Delta Connection



480V/3 Phase
575V/3 Phase
Delta Connection



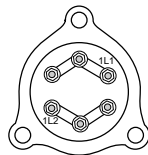
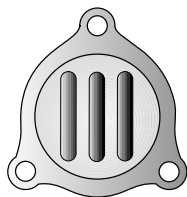
208-240V/3 Phase
Wye Connection for
380-415V/3 Phase

Terminal Connections View of element

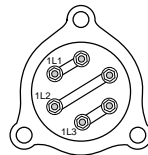
Configuration B

Booster tank element

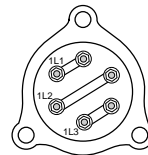
View of calrod coils



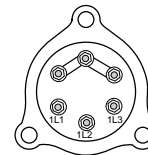
208V/1 Phase



208-240V/3 Phase
Delta Connection



480V/3 Phase
575V/3 Phase
Delta Connection



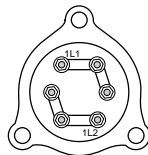
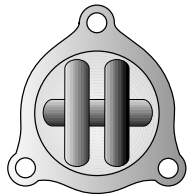
208-240V/3 Phase
Wye Connection for
380-415V/3 Phase

Terminal Connections View of element

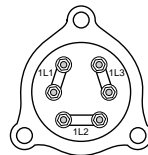
Configuration C

Booster tank element

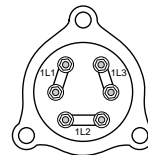
View of calrod coils



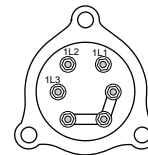
208V/1 Phase



208-240V/3 Phase
Delta Connection



480V/3 Phase
575V/3 Phase
Delta Connection



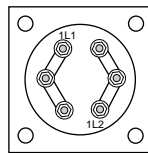
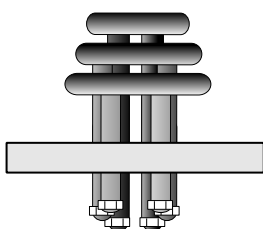
208-240V/3 Phase
Wye Connection for
380-415V/3 Phase

Terminal Connections View of element

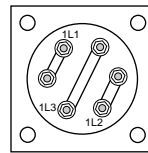
Configuration D

Wash tank element

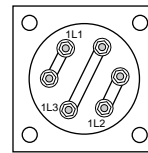
View of calrod coils



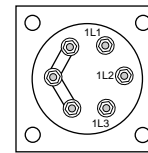
208V/1 Phase



208-240V/3 Phase
Delta Connection



480V/3 Phase
575V/3 Phase
Delta Connection



208-240V/3 Phase
Wye Connection for
380-415V/3 Phase

Terminal Connections View of element

Figure 19
Heater Element Wiring

ELECTRICAL SERVICE (Cont.)

Motor Connections —

1. Models MH-60, MH-6N, and MH-6L are available in either single phase or 3 phase voltages.
2. Motor rotation was set at the factory. For three phase machines, reversing the motor direction is done in the control cabinet by reversing the wires L1 and L2 on the disconnect side of the main electrical connection block. For single phase machines, motor rotation is changed at the motor connection plate on the rear of the single phase motor (if necessary).

Refer to Fig. 20 for the proper wiring of the pump motor for single and three phase voltages.

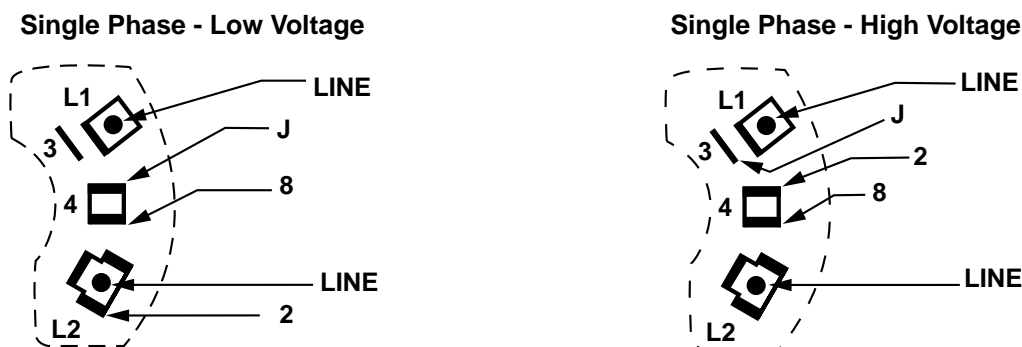
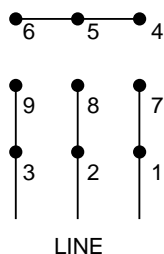
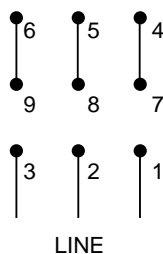


Figure 20
Pump Motor Wiring Diagrams

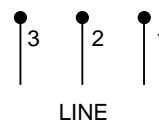
208-240V Three Phase - Low Voltage



480V Three Phase - High Voltage



575V Only Three Phase



MECHANICAL SERVICE

Pump Seal Replacement

1. Disconnect the power to the machine at the main breaker panel or fuse box.
2. Drain the machine.
3. Remove the front and side panels.
4. Remove drain plug on the pump volute and drain the pump.
5. Remove the pump hoses.
6. Disconnect the wires to the motor at the motor junction box.
7. Unbolt motor from machine base and remove the pump/motor assembly.
8. Remove bolts on volute and carefully remove from the pump flange.
9. Remove the impeller retaining bolt and nut from center of impeller.
10. Lock the motor shaft with a wrench or pliers. The back of motor shaft is square.
11. Turn the impeller counter-clockwise to remove from shaft (right hand threads).
12. Remove the old seal and discard.
13. Check seal seat in the pump flange and clean thoroughly.
14. Press rubber seal/ceramic portion of seal assembly into the pump flange. Use a water soluble lubricant. Be careful to keep the ceramic clean.
15. Install the rotating part of the seal on the shaft with the graphite surface toward the ceramic. Use a water soluble lubricant on the rubber seal part only (not the graphite).
16. Reinstall impeller, and new flange gasket. Reinstall bolts. Reinstall drain plug.
17. Reinstall the pump/motor assembly and reconnect the pump hoses.
18. Fill the dishwasher with water.
19. Check motor rotation by bump starting motor.
Correct motor shaft rotation is clockwise when viewing motor from the rear.
20. Test run and check for leaks.

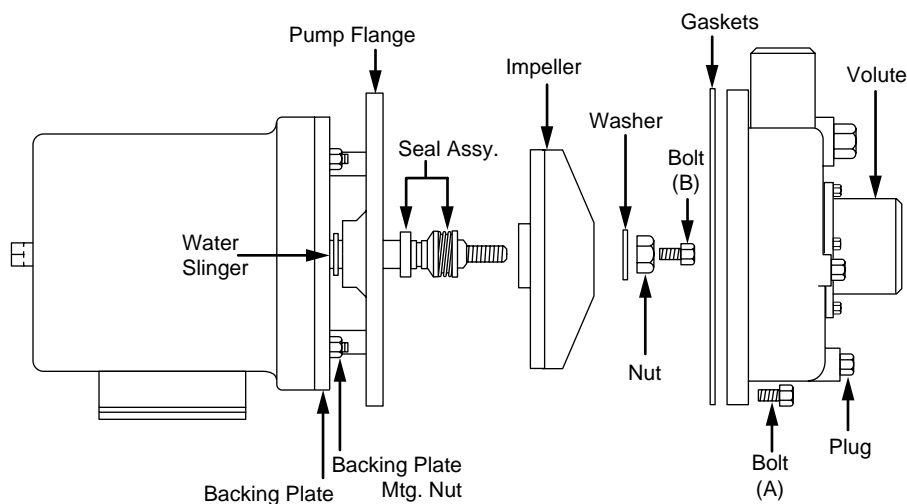


Figure 21
Pump Seal Replacement

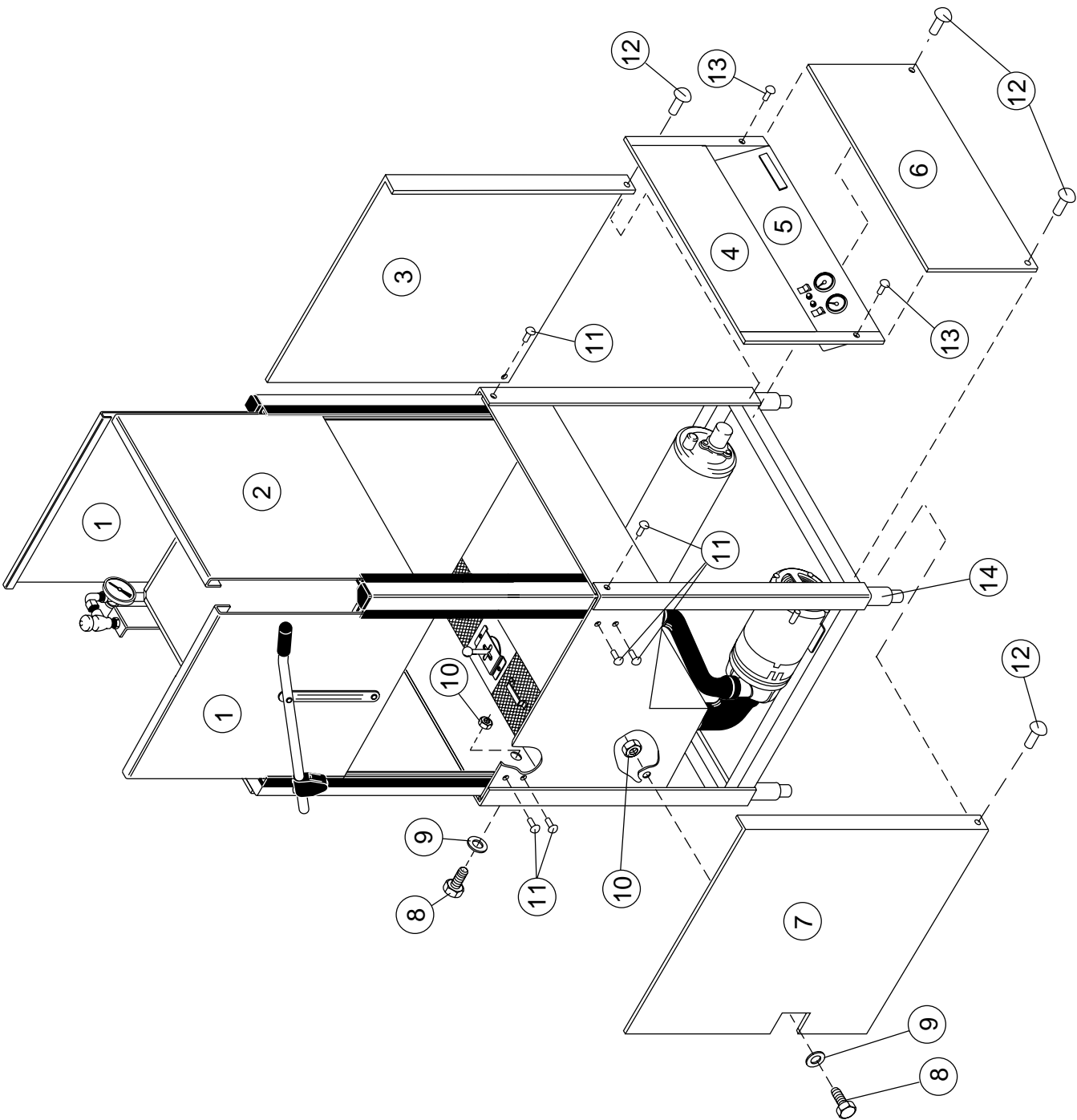


Figure 22 - MH-60/6N/6L
Doors and Panels

MH-60/6N/6L
DOORS AND PANELS

| Fig. 22 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|---------------------------------------|-------------|
| 1 | 0709405 | DOOR, SIDE | 2 |
| 2 | 0709317 | FRONT DOOR, DOOR MACH | 1 |
| 3 | 321929 | RH PANEL NO CUT OUT | 1 |
| 4 | 321930 | PANEL, INSTRUMENT | 1 |
| 5 | 112388 | DECAL, CONTROL PANEL | 1 |
| 6 | 322074 | PANEL, FRONT LOWER | 1 |
| 7 | 321941 | LH PANEL W/CUTOUT | 1 |
| 8 | 108418 | PLUG PLASTIC | 2 |
| 9 | 109034 | WASHER 13/16 X 1 13/16 FIBER | 2 |
| 10 | 108417 | NUT, PLASTIC | 2 |
| 11 | 100779 | SCREW, 1/4-20 X 5/8 TRUSS HEAD | 6 |
| 12 | 0504822 | SCREW, 8-32 X 1/2 PAN HEAD | 4 |
| 13 | 100763 | SCREW, 10-32 X 1-1/4 ROUND HEAD | 2 |
| 14 | 112587 | FOOT, CAST GREY | 4 |

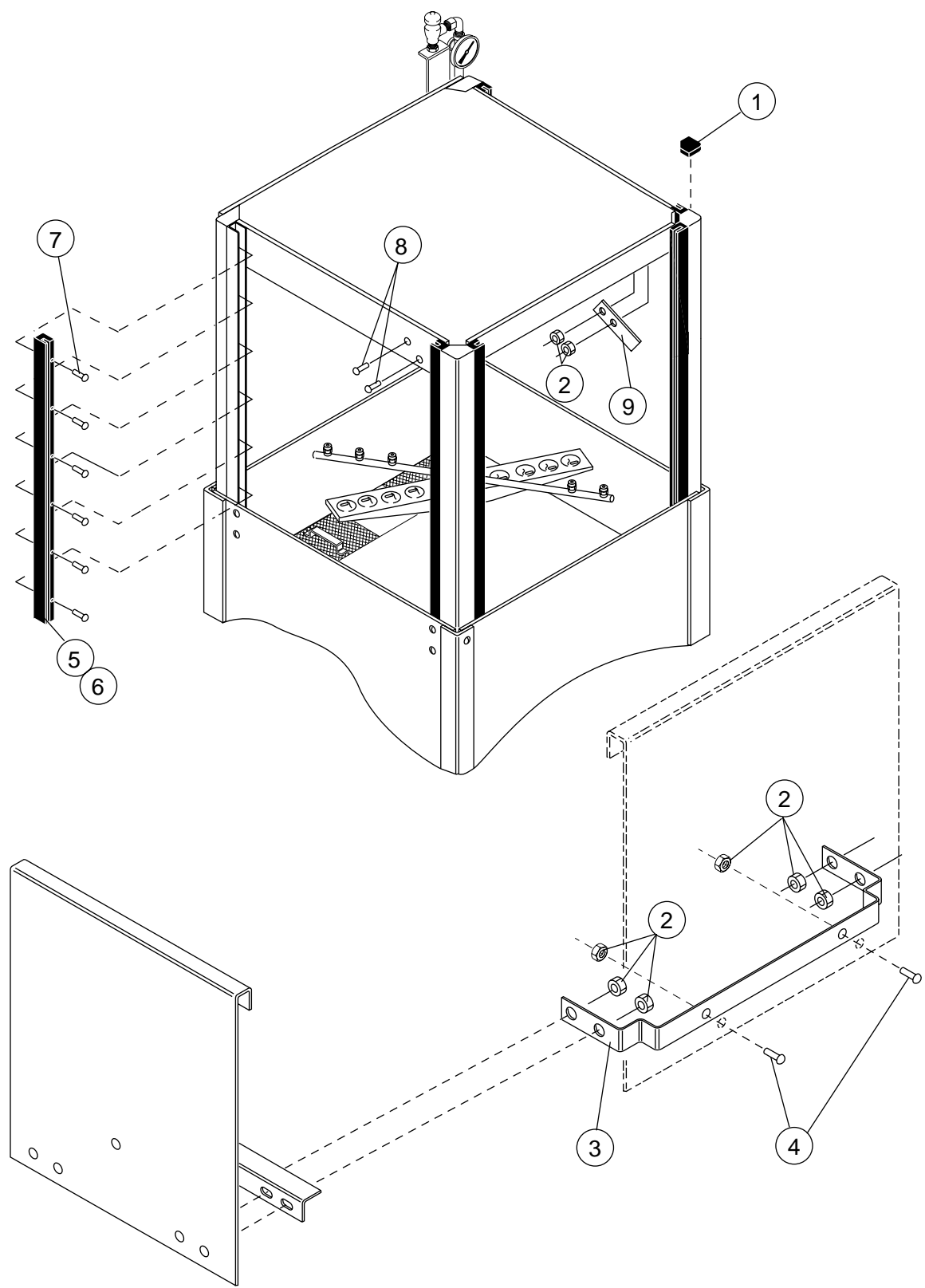


Figure 23 - MH-60/6N/6L
Door Guides, Stops, and Lift Bracket

MH-60/6N/6L
DOOR GUIDES, STOPS, AND LIFT BRACKET

| Fig. 23 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|-------------------------------------|-------------|
| 1 | 108053 | PLUG, CORNERPOST | 2 |
| 2 | 107966 | NUT, GRIP 10-32 W/INSERT | 8 |
| 3 | 0309277 | BRACKET, DOOR LIFT | 1 |
| 4 | 100097 | SCREW 10-32 X 1/2" TRUSS HEAD | 2 |
| 5 | 108347 | GUIDE, DOOR | 6 |
| 6 | 108410 | GASKET, DOOR GUIDE (26") | 12 |
| 7 | 107970 | SCREW 8-32 X 1 FILISTER | 36 |
| 8 | 100007 | SCREW 10-32 X 3/8 TRUSS HEAD | 2 |
| 9 | 0307328 | STOP, DOOR | 2 |

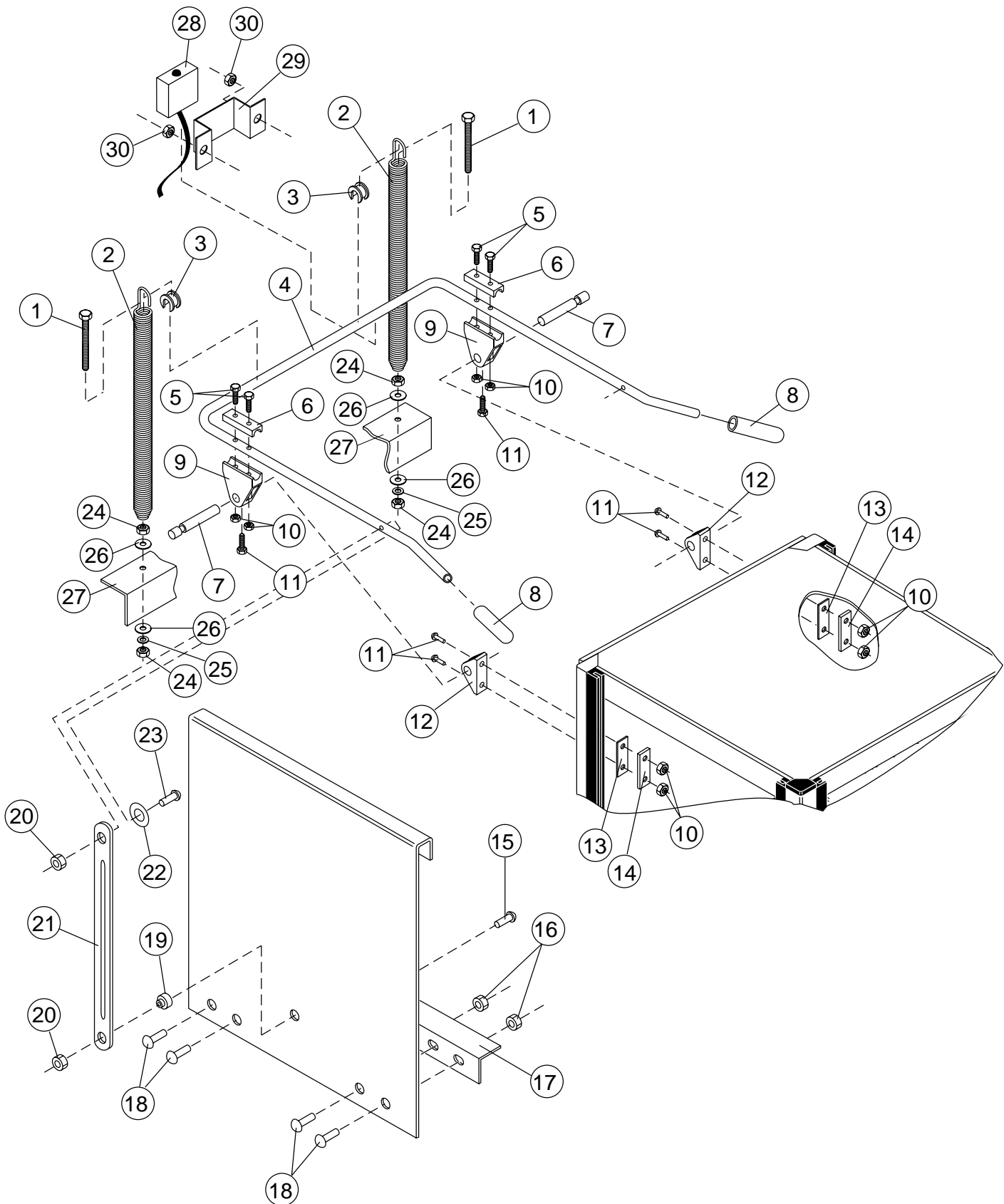


Figure 24 - MH-60/6N/6L
Door Handle, Spring Assembly, and Safety Switch

MH-60/6N/6L

DOOR HANDLE, SPRING ASSEMBLY, AND SAFETY SWITCH

| Fig. 24 Item No. | Part No. | Part Description | Qty. |
|---------------------|-------------|---|------|
| 1 | 0509168 | BOLT 5/16-18 X 11 HEX HEAD | 2 |
| 2 | 108066 | SPRING, EXTENSION | 2 |
| 3 | 107397 | BLOCK, SPRING HOOK | 2 |
| 4 | 0509166 | DOOR HANDLE | 1 |
| 5 | 107437 | BOLT M6 X 45MM HEX HEAD | 4 |
| 6 | 107396 | BLOCK, UPPER PIVOT | 2 |
| 7 | 107393 | PIN, PIVOT | 2 |
| 8 | 0508864 | HANDLE, GRIP | 2 |
| 9 | 107395 | BLOCK, LOWER PIVOT | 2 |
| 10 | 107420 | NUT, PLAIN M6 | 8 |
| 11 | 107436 | SCREW M6 X 16MM FILISTER | 6 |
| 12 | 107399 | SUPPORT, PIVOT BLOCK | 2 |
| 13 | 108368 | GASKET, BACKING | 2 |
| 14 | 304811 | PLATE, BACKING | 2 |
| 15 | 100740 | BOLT 5/16-18 X 1 HEX HEAD | 2 |
| 16 | 107966 | NUT, GRIP 10-32 W/NYLON INSERT | 8 |
| 17 | 322077 | GUARD, SPLASH..... | 2 |
| 18 | 100097 | SCREW 10-32 X 1/2 TRUSS HEAD | 8 |
| 19 | 0509264 | BUSHING, SIDE DOOR | 2 |
| 20 | 0509274 | NUT, ACORN 5/16-18 SST | 2 |
| 21 | 0309167 | LIFT BAR, DOOR | 2 |
| 22 | 102376 | WASHER, FLAT | 2 |
| 23 | 104002 | BOLT 5/16-18 X 1-1/2 | 2 |
| 24 | 100154 | NUT, PLAIN 5/16-18..... | 4 |
| 25 | 106013 | WASHER, LOCK 5/16 SPLIT | 2 |
| 26 | 102376 | WASHER 5/16 X 3/4 X 1/16 | 4 |
| 27 | 321927 | SPRING ANCHOR BRACKET | 1 |
| 28 | 0509199 | SWITCH, DOOR SAFETY | 1 |
| 29 | 0309451 | BRACKET, SWITCH | 1 |
| 30 | 107967 | NUT, GRIP (1/4-20 w/nylon insert) | 2 |

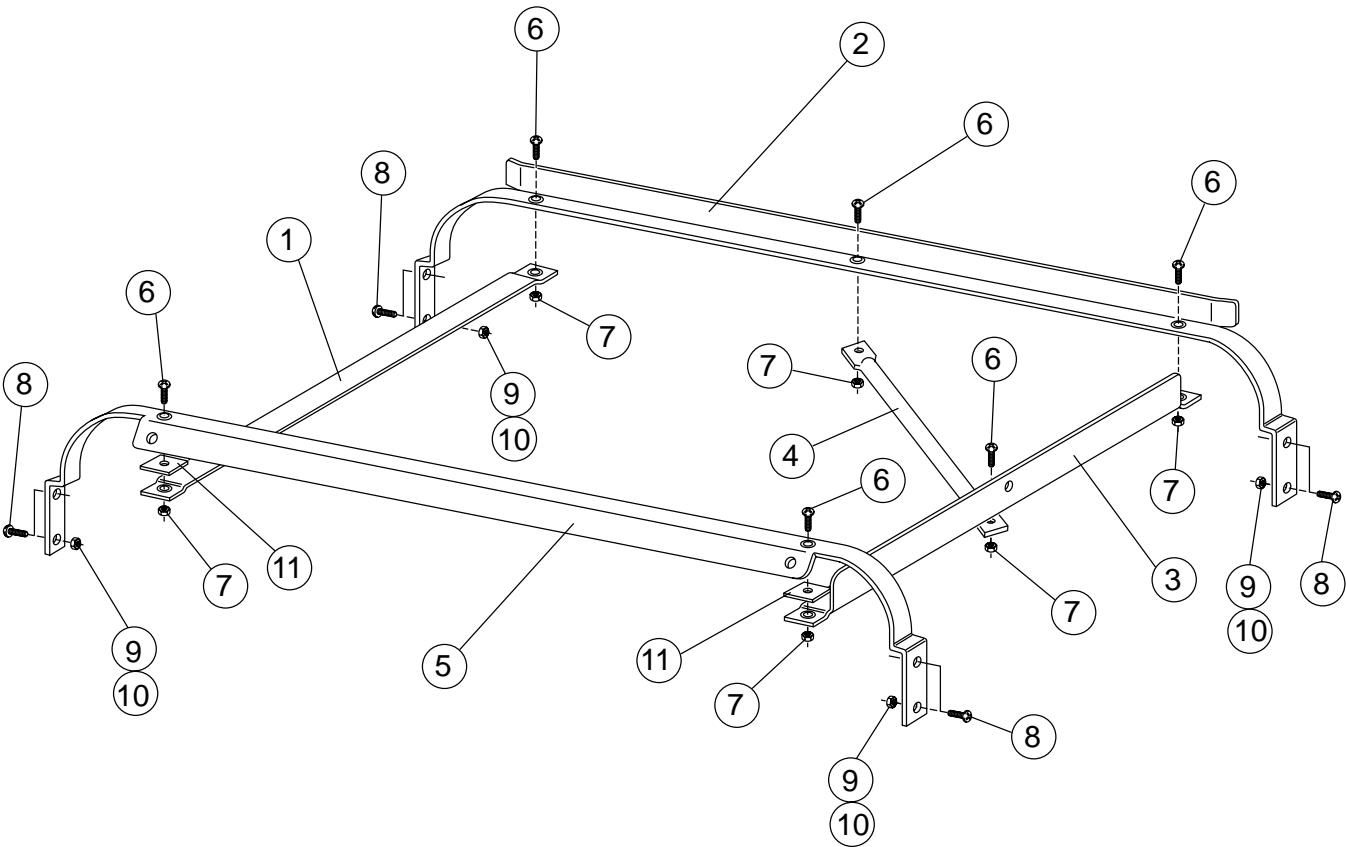


Figure 25 - MH-60/6N/6L
Track Assembly
(Corner configuration shown)

MH-60/6N/6L
TRACK ASSEMBLY

| Fig. 25 Item No. | Part No. | Part Description | Qty. |
|-----------------------------------|---------------------------|--|-------------|
| 1 | 0309469 | GUIDE, RIGHT HAND | 1 |
| 2 | 0309472 | TRACK, REAR | 1 |
| 3 | 0309468 | GUIDE, LEFT HAND | 1 |
| 4 | 0309470 | SUPPORT, RACK | 1 |
| 5 | 0309471 | TRACK, FRONT | 1 |
| 6 | 106727 | SCREW (10-32 x 5/8 Flat Hd) | 6 |
| 7 | 107966 | NUT, GRIP (10-32 w/nylon insert) | 6 |
| 8 | 100779 | BOLT (1/4 -20 x 5/8 Truss Hd) | 8 |
| 9 | 106482 | WASHER, LOCK | 8 |
| 10 | 100003 | NUT (1/4-20 Hex Hd) | 8 |
| 11 | 0309473 | SPACER | 2 |

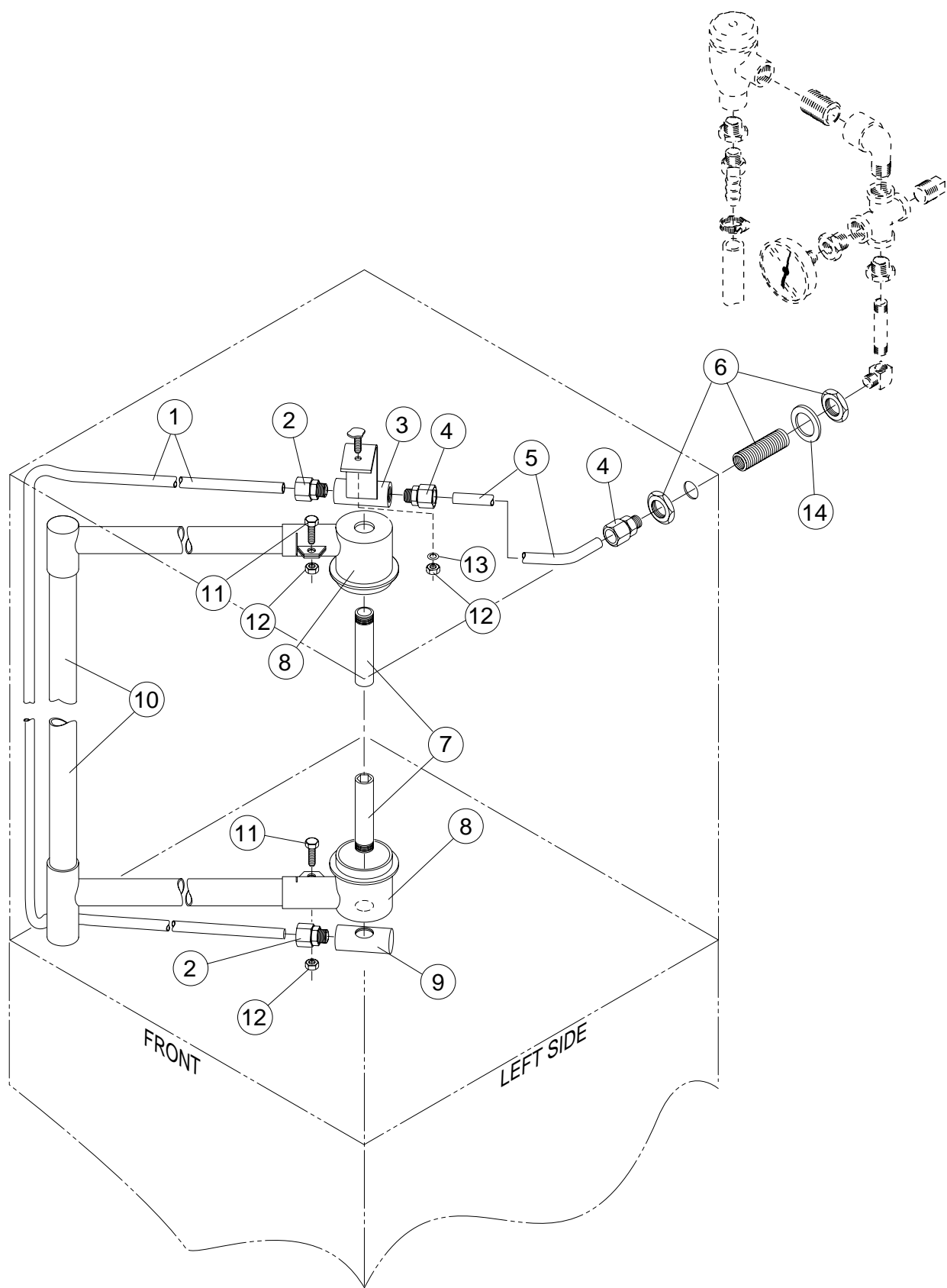


Figure 26 - MH-60/6N/6L
Wash/Rinse Spray Piping

MH-60/6N/6L
WASH/RINSE SPRAY PIPING

| Fig. 26 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|-------------------------------------|-------------|
| 1 | 0309444 | RINSE TUBE | 1 |
| 2 | 0509181 | FITTING, STRAIGHT COMPRESSION | 2 |
| 3 | 0509150 | CONNECTOR, TOP RINSE | 1 |
| 4 | 0509180 | FITTING, STRAIGHT COMPRESSION | 2 |
| 5 | 0309445 | RINSE TUBE, TOP | 1 |
| 6 | 0509179 | FITTING, BULKHEAD 1/2"NPT | 1 |
| 7 | 0507445 | SPINDLE, WASH ARM | 2 |
| 8 | 109864 | SUPPORT, WASH ARM | 2 |
| 9 | 0509178 | CONNECTOR, BOTTOM RINSE | 1 |
| 10 | 109781 | STANDPIPE, WASH | 1 |
| 11 | 100736 | BOLT 1/4-20 X 3/4 HEX HEAD | 2 |
| 12 | 107967 | NUT, GRIP 1/4-20 | 1 |
| 13 | 106482 | WASHER, SPLIT LOCK SST | 2 |
| 14 | 0309350 | WASHER | 1 |

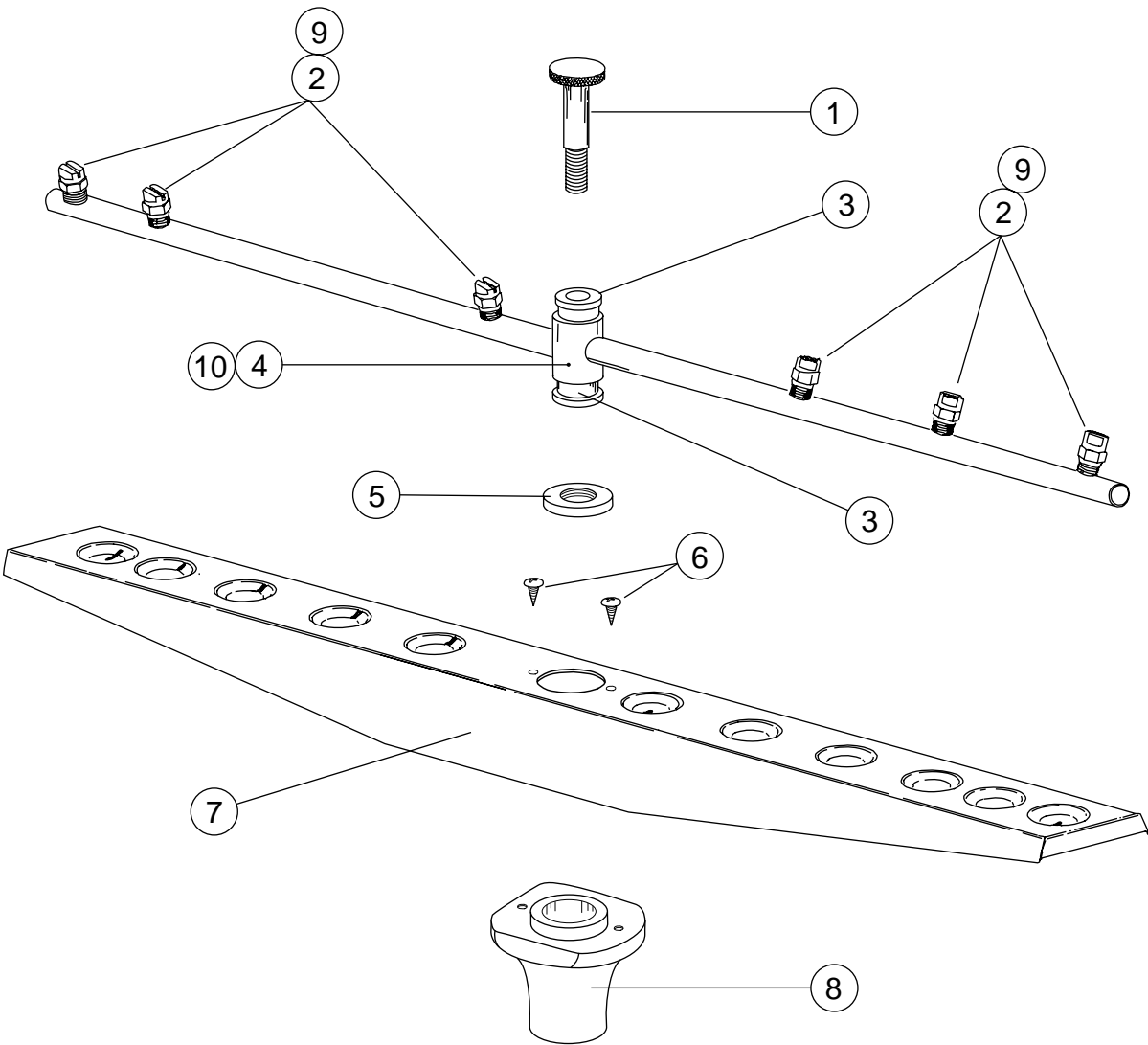


Figure 27 - MH-60/6N/6L
Wash/Rinse Spray Arms

MH-60/6N/6L
WASH/RINSE SPRAY ARMS

| Fig. 27 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|---|-------------|
| 1 | 0507443 | SPINDLE, RINSE ARM | 2 |
| 2 | 0508376 | NOZZLE, RINSE ARM (MH-60, MH-6N only) | 12 |
| 3 | 112164 | BEARING, RINSE ARM | 4 |
| 4 | 0707453 | RINSE ARM ASSY. (Includes 2 & 3) | 2 |
| 5 | 0507444 | NUT, RINSE ARM | 2 |
| 6 | 109835 | SCREW (#8 X 1/2 PAN HD) | 4 |
| 7 | 0707452-S | WASH ARM ASSY. (Includes 6 & 8) | 2 |
| 8 | 0507446 | BEARING, WASH ARM | 2 |
| 9 | 0507451 | NOZZLE RINSE ARM (SST) (Model MH-6L only) | 12 |
| 10 | 0708899 | RINSE ARM ASSY. (Model MH-6L only) (Includes 3 & 9) | 1 |
| — | 0707450 | RINSE ARM (Does not include items 2, 3 or 9) | |
| — | 0707456 | WASH ARM (Does not include item 8) | |

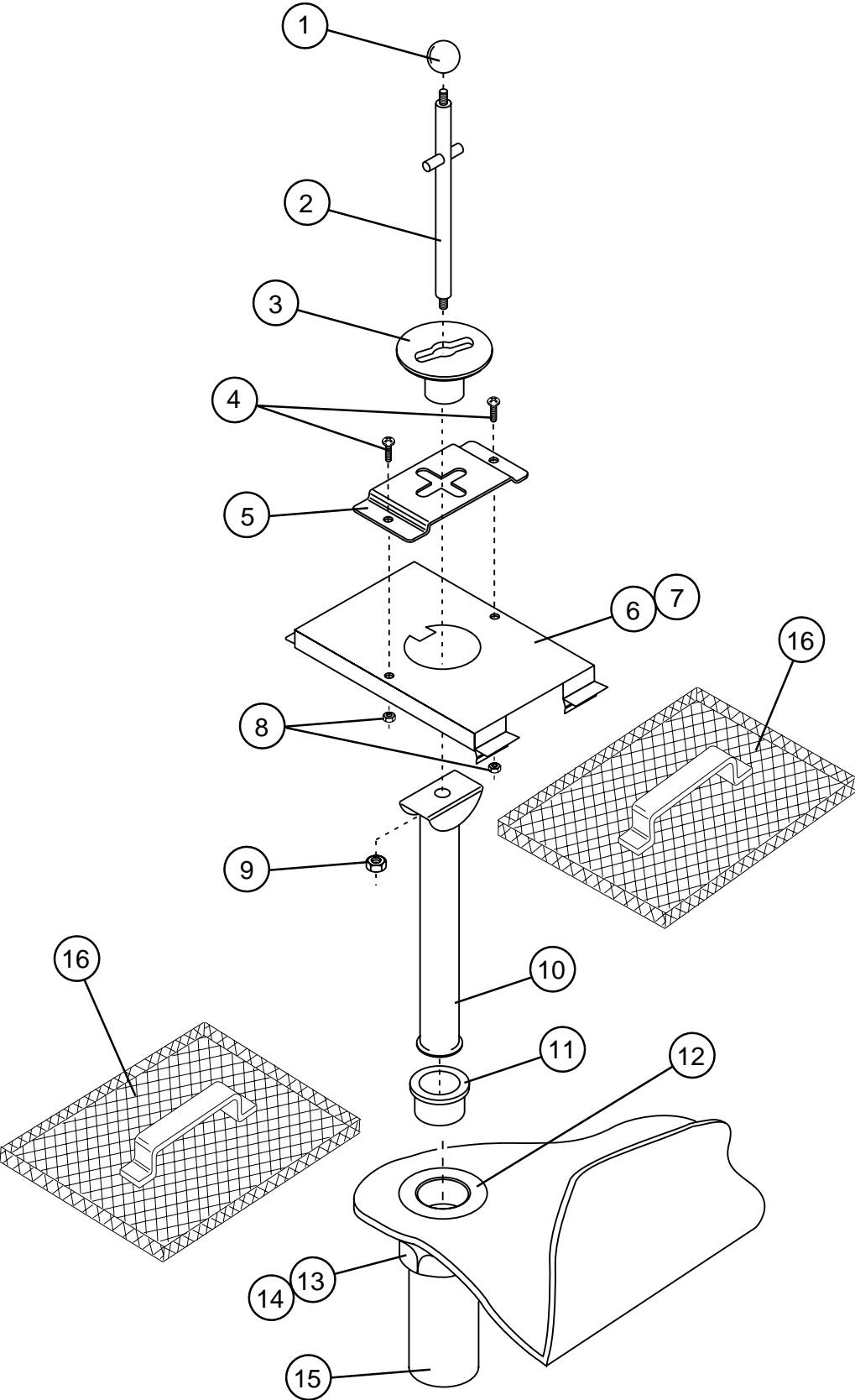


Figure 28 - MH-60/6N/6L
Drain Assembly and Scrap Screens

MH-60/6N/6L

DRAIN ASSEMBLY AND SCRAP SCREENS

| Fig. 28 Item No. | Part No. | Part Description | Qty. |
|---------------------|-------------|--|------|
| 1 | 112393 | KNOB, DRAIN LIFT | 1 |
| 2 | 112394 | ROD ASSY, DRAIN LIFT | 1 |
| 3 | 112392 | GUIDE, DRAIN LIFT | 1 |
| 4 | 100097 | SCREW (10-32 X 1/2" TRUSS HD) | 2 |
| 5 | 322159 | RETAINER, OVERFLOW | 1 |
| 6 | 321939 | FILLER, DRAIN PLATE (retained by spring clip) | 1 |
| 7 | 322120 | FILLER, DRAIN PLATE (retained by stud and nut) (Not shown) | 1 |
| 8 | 100194 | NUT, GRIP (10-32 SST) | 2 |
| 9 | 100141 | NUT , GRIP (1/4-20 SST)..... | 1 |
| 10 | 322006 | TUBE, OVERFLOW | 1 |
| 11 | 107680 | SEAT RUBBER, OVERFLOW TUBE | 1 |
| 12 | 205813 | DRAIN BASKET, MODIFIED | 1 |
| 13 | 112044 | SLIP NUT | 1 |
| 14 | 112045 | WASHER, TAILPIECE | 1 |
| 15 | 107473 | TAILPIECE | 1 |
| 16 | 305164 | SCREEN, SCRAP | 2 |

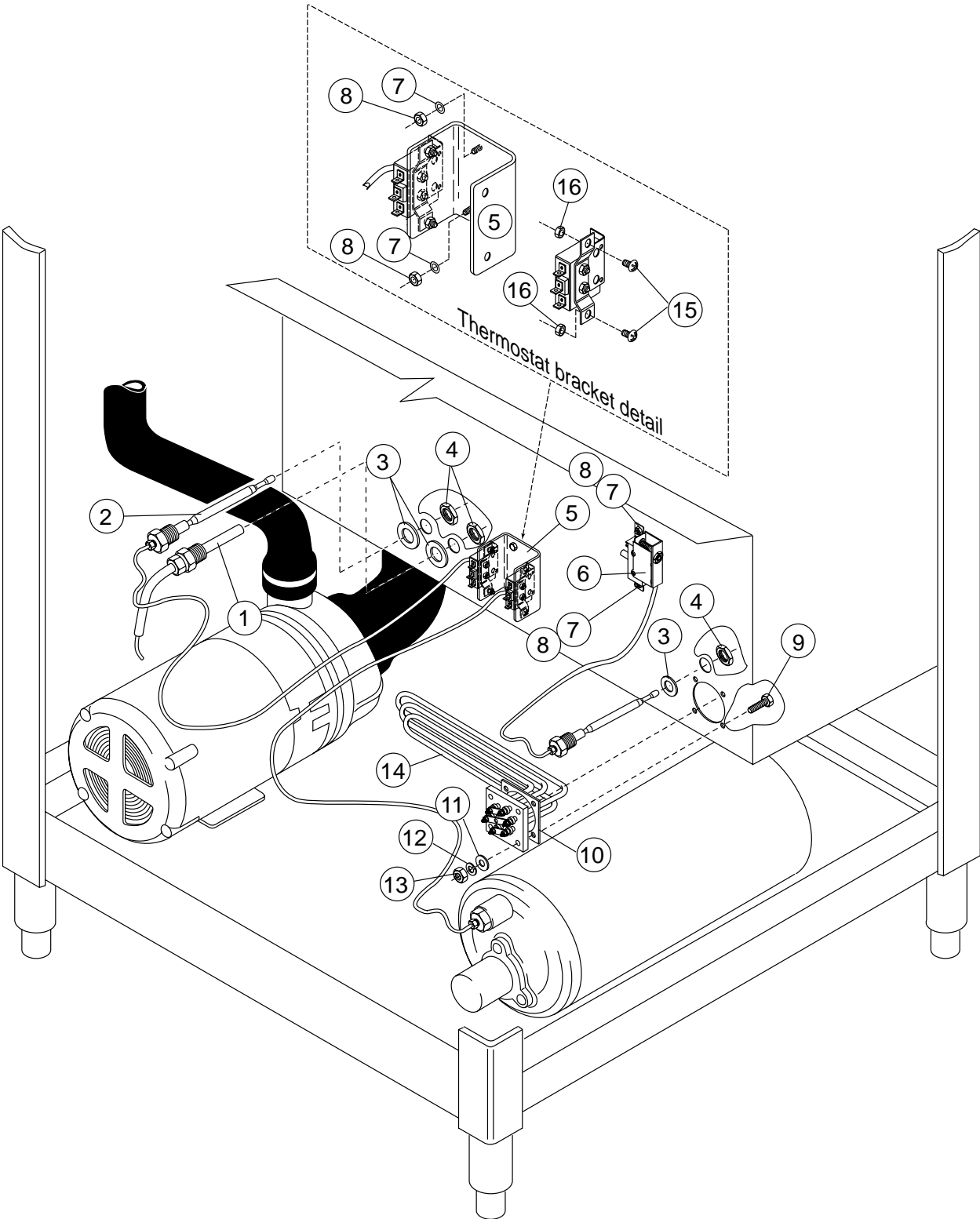


Figure 29 - MH-60/6N/6L
Wash Tank Heat and Thermostats

MH-60/6N/6L
WASH TANK HEAT AND THERMOSTATS

| Fig. 29 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|--|-------------|
| 1 | 108391 | THERMOMETER 4 FT. | 1 |
| 2 | 109069 | THERMOSTAT W/CAP 110-220°F | 1 |
| 3 | 201041 | WASHER | 3 |
| 4 | 201029 | NUT, LOCK 1/2" | 3 |
| 5 | 322076 | DUAL THERMOSTAT BRACKET | 1 |
| 6 | 110561 | THERMOSTAT, FIXED HIGH LIMIT | 1 |
| 7 | 106482 | WASHER, LOCK 1/4 SPLIT SST | 4 |
| 8 | 100003 | NUT, PLAIN 1/4-20 SST | 4 |
| 9 | 100740 | BOLT 5/16-18 X 1 HEX HEAD | 4 |
| 10 | 108345 | GASKET 3 X 3-1/8 X 2" | 1 |
| 11 | 102376 | WASHER 5/16 X 3/4 X 1/16 | 8 |
| 12 | 106013 | WASHER, LOCK 5/16 SPLIT | 4 |
| 13 | 100154 | NUT, PLAIN 5/16-18 SST | 4 |
| 14 | 0509637 | HEATER 3KW 115V/1PH | 1 |
| | 0509185 | HEATER 3KW 208-240/380-415V 1/3PH | 1 |
| | 0509373 | HEATER 3KW 460V/3PH | 1 |
| | 0507707 | HEATER 3KW 575V/3PH | 1 |
| 15 | 100007 | SCREW 10-32 X 3/8 TRUSS HEAD | 4 |
| 16 | 107966 | NUT, GRIP 10-32 W/NYLON INSERT | 4 |

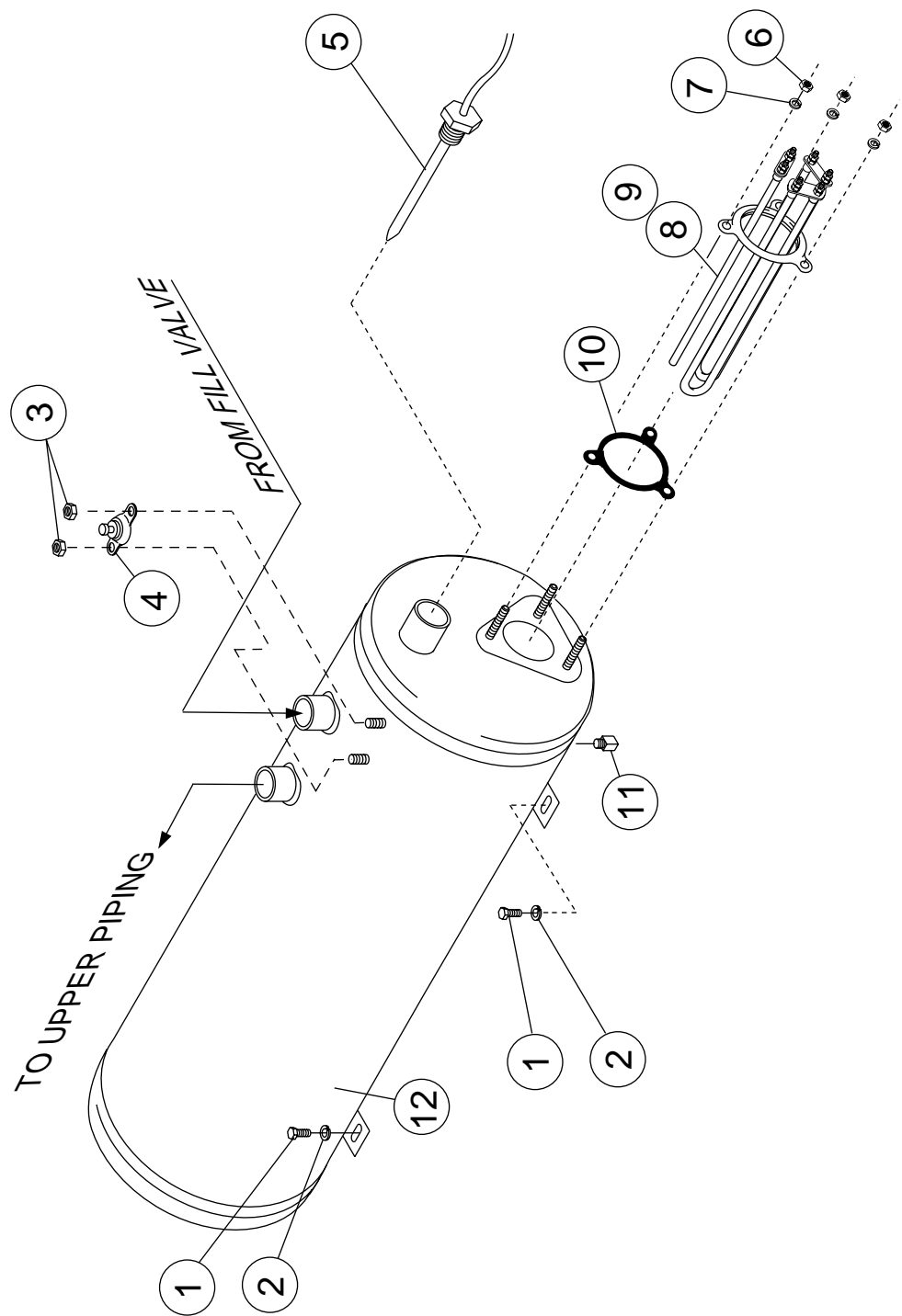


Figure 30- MH-60 Only
Electric Booster and Thermostats

MH-60 ONLY
ELECTRIC BOOSTER AND THERMOSTATS

| Fig. 30 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|---|-------------|
| 1 | 100740 | BOLT 5/16-18 X 1 HEX HEAD | 2 |
| 2 | 102376 | WASHER, FLAT 5/16 X 3/4 X 1/16 | 2 |
| 3 | 108954 | NUT, GRIP 6-32 W/INSERT | 2 |
| 4 | 110562 | THERMOSTAT, HIGH LIMIT | 1 |
| | 110563 | COMPOUND, HEAT SINK | A/R |
| 5 | 109069 | THERMOSTAT, BOOSTER | 1 |
| 6 | 100003 | NUT, PLAIN 1/4-20 SST | 3 |
| 7 | 106482 | WASHER, LOCK 1/4 SPLIT | 3 |
| 8 | 111233 | HEATER 9KW 208-240/380-415V, 40°RISE (1 & 3 phase) | 1 |
| | 108579 | HEATER 9KW 480V, 40°RISE (3 phase only) | 1 |
| | 111122 | HEATER 9KW 575V, 40°RISE (3 phase only) | 1 |
| 9 | 111266 | HEATER 18KW 208-240/380-415V, 70°RISE (1 & 3 phase) | 1 |
| | 111267 | HEATER 18KW 480V, 70°RISE (3 phase only) | 1 |
| | 111600 | HEATER 18KW 575V, 70°RISE (3 phase only) | 1 |
| 10 | 109985 | SEAL, ELECTRIC HEATER | 1 |
| 11 | 100210 | PLUG 1/8 SST | 1 |
| 12 | 0509042 | TANK, BOOSTER | 1 |

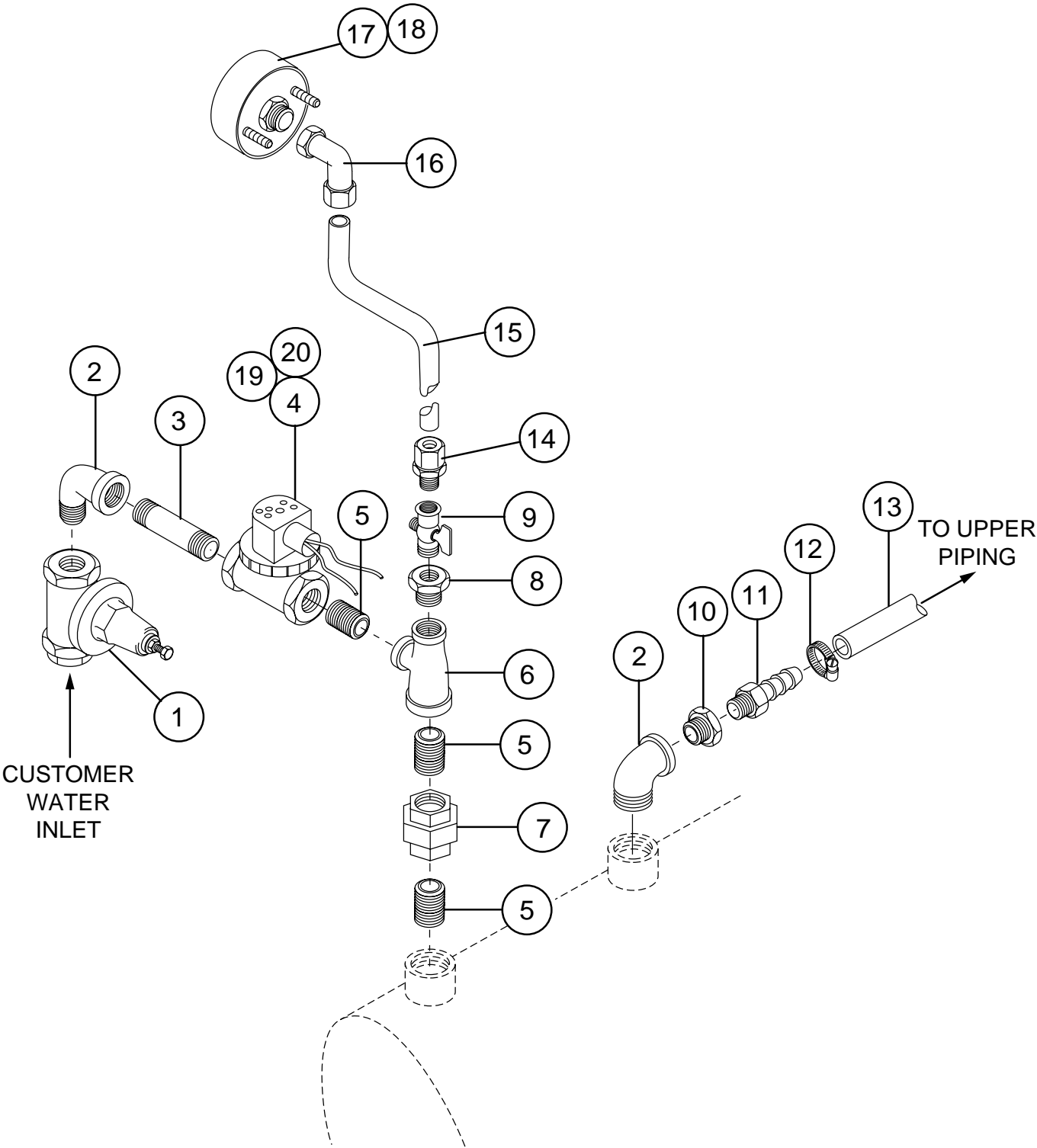


Figure 31 - MH-60 Only
Lower Fill Piping Assembly

MH-60 ONLY
LOWER FILL PIPING ASSEMBLY

| Fig. 31 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|---|-------------|
| 1 | 112387 | LINE STRAINER/PRV COMBO | 1 |
| 2 | 102444 | STREET ELL 3/4" NPT BRASS | 2 |
| 3 | 102651 | NIPPLE 3/4" X 2" BRASS | 1 |
| 4 | 111437 | VALVE 3/4" NPT HOT WATER | 1 |
| 5 | 100184 | NIPPLE 3/4" NPT | 3 |
| 6 | 102525 | TEE 3/4" X 1/2" X 3/4" BRASS | 1 |
| 7 | 100571 | UNION 3/4" NPT BRASS | 1 |
| 8 | 102388 | BUSHING REDUCER 1/2" X 1/4" BRASS | 1 |
| 9 | 112437 | VALVE, NEEDLE 1/4" | 1 |
| 10 | 100171 | BUSHING REDUCER 3/4" X 1/2" BRASS | 1 |
| 11 | 107419 | BARB, HOSE 1/2 NPT X 1/2 HOSE | 1 |
| 12 | 105994 | CLAMP, HOSE | 1 |
| 13 | 107417 | HOSE, 1/2" I.D. | 9ft. |
| 14 | 107065 | CONNECTOR, MALE 1/4" O.D. X 1/4 NPT | 1 |
| 15 | 107928 | TUBING, HIGH DENSITY | 3ft. |
| 16 | 111100 | ELBOW, FEMALE 1/4" O.D. X 1/8 NPT | 1 |
| 17 | 109812 | GAUGE, PRESSURE 0-100 PSI | 1 |
| 18 | 109816 | OVERLAY, GAUGE 20-30 PSI | 1 |
| 19 | 108516 | COIL, SOLENOID VALVE (120V) | 1 |
| 20 | 109903 | KIT, REPAIR, 3/4" SOLENOID VALVE | 1 |

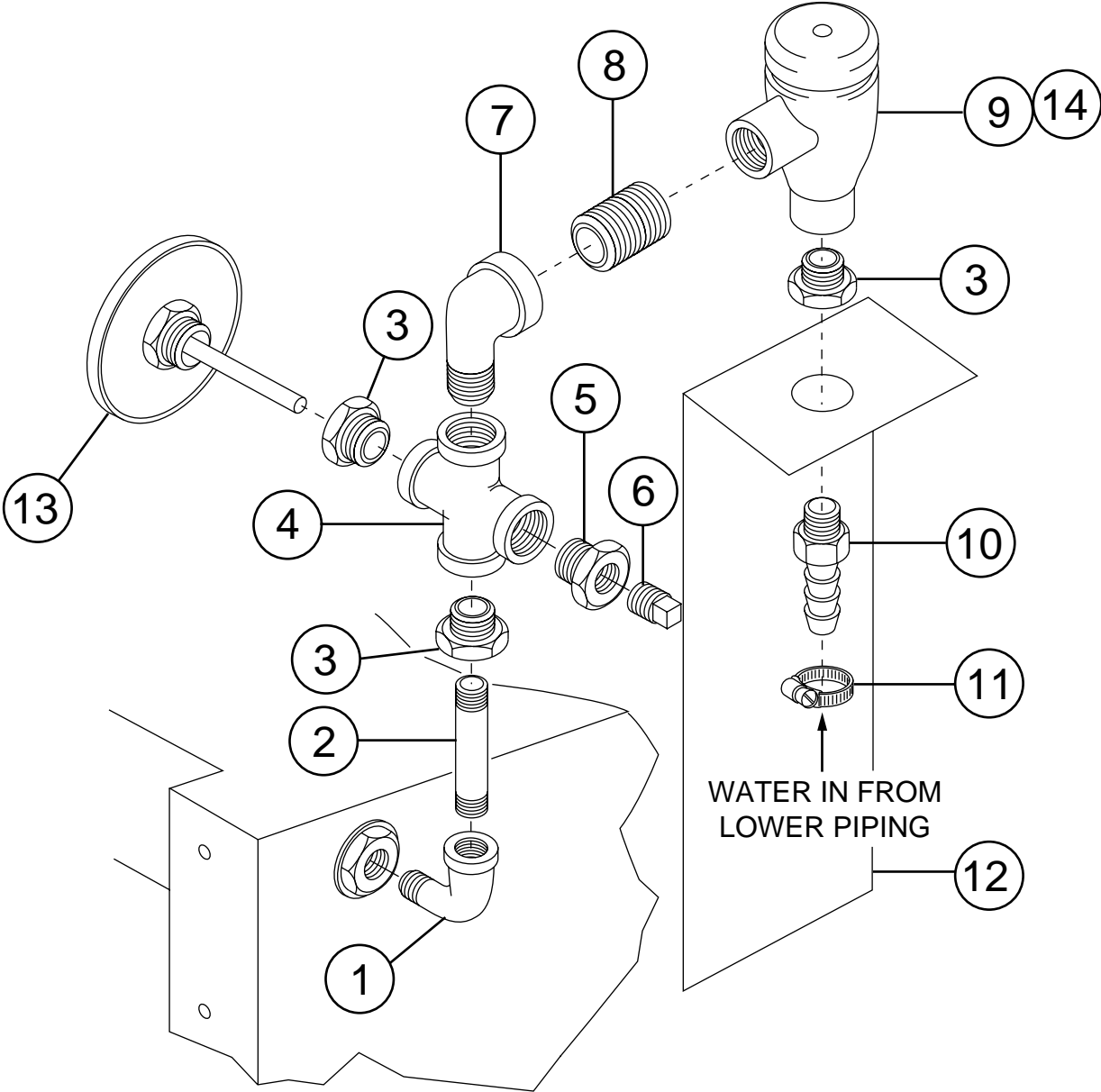


Figure 32 - MH-60/6N Only
Upper Fill Piping Assembly

MH-60/6N ONLY
UPPER FILL PIPING ASSEMBLY

| Fig. 32 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|--|-------------|
| 1 | 102438 | ELBOW STREET, 1/2" NPT X 90° BRASS | 1 |
| 2 | 102567 | NIPPLE, 1/2" NPT X 3" BRASS | 1 |
| 3 | 102392 | BUSHING, REDUCER 3/4" NPT X 1/2" NPT BRASS | 2 |
| 4 | 100599 | CROSS 3/4" NPT BRASS | 1 |
| 5 | 108181 | BUSHING, REDUCER 3/4" X 1/4" NPT PLASTIC | 1 |
| 6 | 107463 | PLUG, 1/4" NPT PLASTIC | 1 |
| 7 | 112430 | ELBOW, STREET 3/4" X 90° BRASS | 1 |
| 8 | 100184 | NIPPLE, 3/4" NPT CLOSE BRASS | 1 |
| 9 | 104429 | VACUUM BREAKER, 3/4" NPT BRASS | 1 |
| 10 | 107419 | BARB, HOSE 1/2 NPT X 1/2 HOSE | 1 |
| 11 | 105994 | CLAMP, HOSE | 1 |
| 12 | 0309426 | BRACKET, PLUMBING SUPPORT | 1 |
| 13 | 112410 | THERMOMETER, FINAL RINSE, 2" STEM | 1 |
| 14 | 108351 | KIT, REPAIR, 3/4" VACUUM BREAKER | 1 |

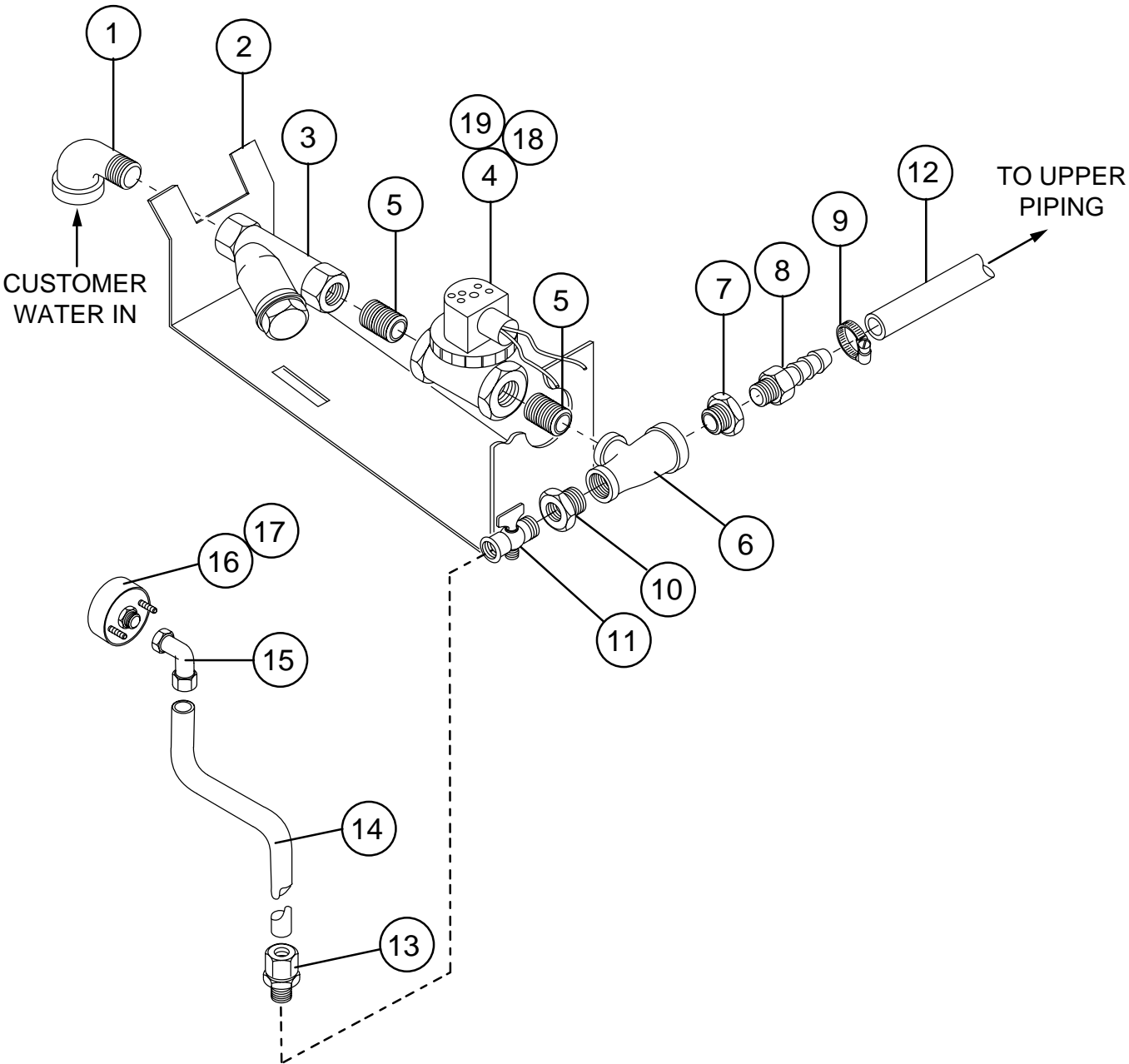


Figure 33 - MH-6N/6L Only
Lower Fill Piping Assembly

MH-6N/6L ONLY
LOWER FILL PIPING ASSEMBLY

| Fig. 33 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|---|-------------|
| 1 | 102444 | ELBOW, STREET X 90° BRASS | 1 |
| 2 | 0309340 | BRACKET, PLUMBING SUPPORT | 1 |
| 3 | 110768 | LINE STRAINER, 3/4" BRASS | 1 |
| 4 | 111437 | VALVE 3/4" NPT HOT WATER | 1 |
| 5 | 100184 | NIPPLE 3/4" NPT | 2 |
| 6 | 102525 | TEE 3/4" X 1/2" X 3/4" BRASS | 1 |
| 7 | 100171 | BUSHING, REDUCER 3/4" X 1/2" BRASS | 1 |
| 8 | 107419 | BARB, HOSE 1/2 NPT X 1/2 HOSE | 1 |
| 9 | 105994 | CLAMP, HOSE | 1 |
| 10 | 102388 | BUSHING, REDUCER 1/2" X 1/4" BRASS | 1 |
| 11 | 112437 | VALVE, NEEDLE 1/4" | 1 |
| 12 | 107417 | HOSE, 1/2" I.D. | 9ft. |
| 13 | 107065 | CONNECTOR, MALE 1/4" O.D. X 1/4 NPT | 1 |
| 14 | 107928 | TUBING, HIGH DENSITY | 3ft. |
| 15 | 111100 | ELBOW, FEMALE 1/4" O.D. X 1/8 NPT | 1 |
| 16 | 109812 | GAUGE, PRESSURE 0-100 PSI | 1 |
| 17 | 109816 | OVERLAY, GAUGE 20-30 PSI | 1 |
| 18 | 108516 | COIL, SOLENOID VALVE (120V) | 1 |
| 19 | 109903 | KIT, REPAIR, 3/4" SOLENOID VALVE | 1 |

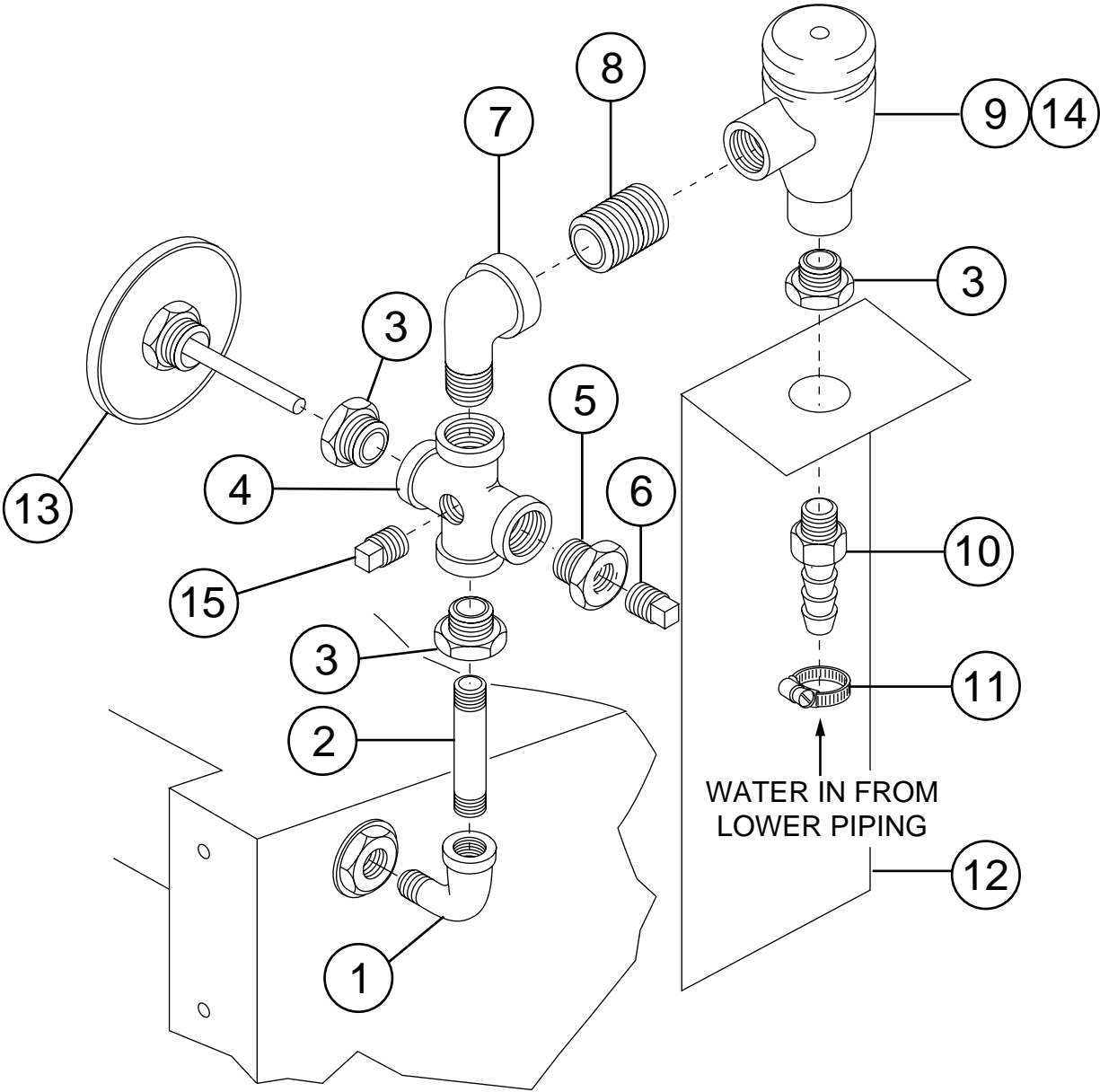


Figure 34 - MH-6L Only
Upper Fill Piping Assembly

MH-6L ONLY
UPPER FILL PIPING ASSEMBLY

| Fig. 34 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|--|-------------|
| 1 | 102438 | ELBOW STREET, 1/2" NPT X 90° BRASS | 1 |
| 2 | 102567 | NIPPLE, 1/2" NPT X 3" BRASS | 1 |
| 3 | 102392 | BUSHING, REDUCER 3/4" NPT X 1/2" NPT BRASS | 2 |
| 4 | 0309529 | CROSS, MODIFIED 3/4" NPT BRASS | 1 |
| 5 | 108181 | BUSHING, REDUCER 3/4" X 1/4" NPT PLASTIC | 1 |
| 6 | 107463 | PLUG, 1/4" NPT PLASTIC | 1 |
| 7 | 112430 | ELBOW, STREET 3/4" X 90° BRASS | 1 |
| 8 | 100184 | NIPPLE, 3/4" NPT CLOSE BRASS | 1 |
| 9 | 104429 | VACUUM BREAKER, 3/4" NPT BRASS | 1 |
| 10 | 107419 | BARB, HOSE 1/2 NPT X 1/2 HOSE | 1 |
| 11 | 105994 | CLAMP, HOSE | 1 |
| 12 | 0309426 | BRACKET, PLUMBING SUPPORT | 1 |
| 13 | 104682 | THERMOMETER, FINAL RINSE, 2" STEM | 1 |
| 14 | 108351 | KIT, REPAIR, 3/4" VACUUM BREAKER | 1 |
| 15 | 107424 | PLUG, 1/8" NPT, PLASTIC | 1 |

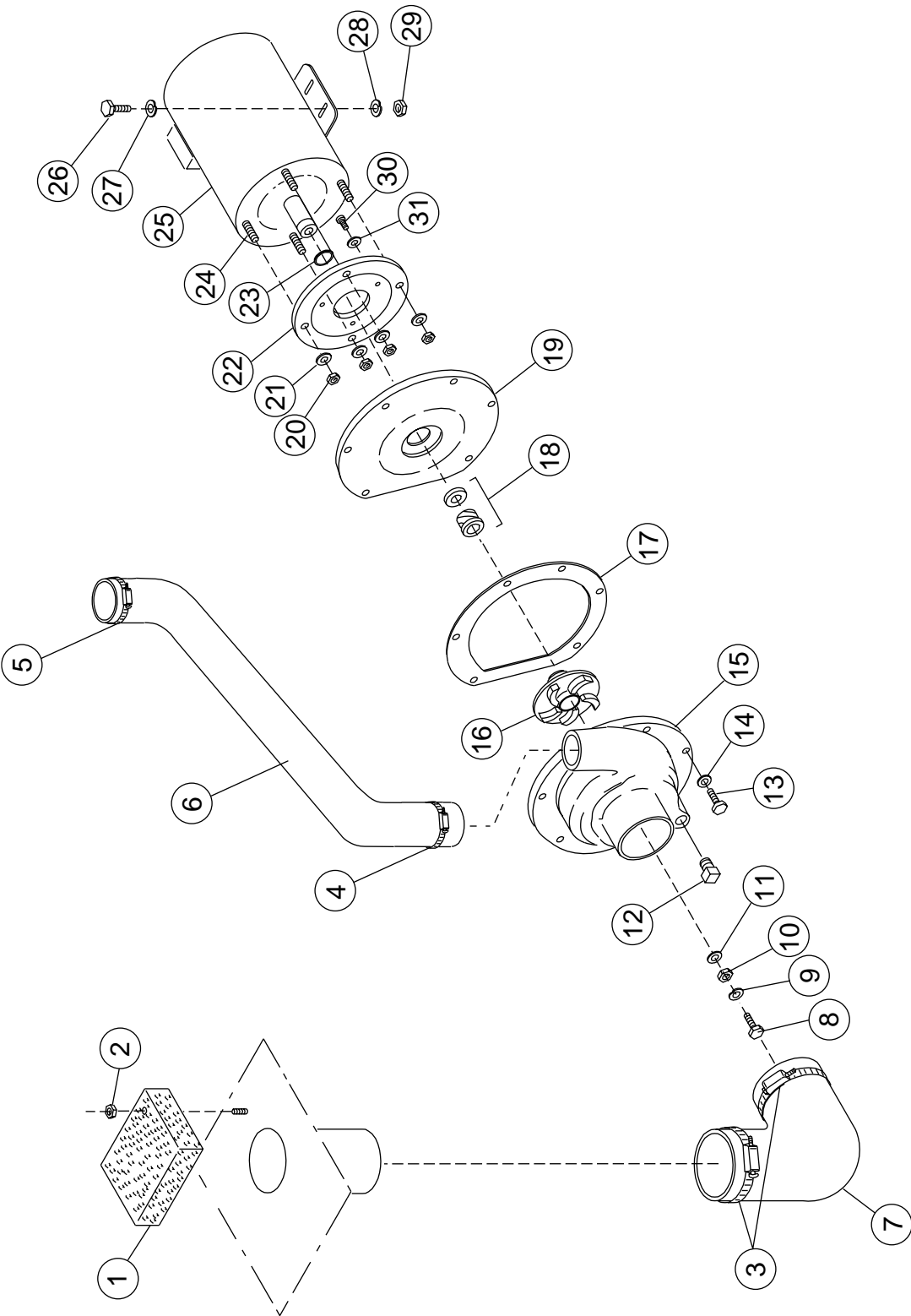


Figure 35 - MH-60/6N/6L
Pump Assembly

MH-60/6N/6L
PUMP ASSEMBLY

| Fig. 35 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|---|-------------|
| 1 | 308005 | STRAINER | 1 |
| 2 | 107966 | NUT, GRIP 10-32 W/NYLON INSERT | 1 |
| 3 | 104203 | CLAMP, HOSE | 2 |
| 4 | 104165 | CLAMP, HOSE | 1 |
| 5 | 107340 | CLAMP, HOSE | 1 |
| 6 | 112383 | HOSE PUMP DISCHARGE | 1 |
| 7 | 109562 | HOSE, SUCTION | 1 |
| 8 | 100734 | BOLT 1/4-20 X 1/2" HEX HEAD | 1 |
| 9 | 106482 | WASHER, LOCK 1/4" SPLIT | 1 |
| 10 | 110247 | NUT, HEX JAM 7/16-20 | 1 |
| 11 | 110248 | WASHER, FLAT | 1 |
| 12 | 107463 | PLUG 1/4" | 1 |
| 13 | 107137 | BOLT 10-32 X 7/8 HEX HEAD | 11 |
| 14 | 0501505 | WASHER, LOCK | 11 |
| 15 | 109651 | VOLUTE | 1 |
| 16 | 111143 | IMPELLER | 1 |
| 17 | 109653 | GASKET, O-RING | 1 |
| 18 | 111111 | PUMP SEAL | 1 |
| 19 | 109649 | BACK PUMP HOUSING | 1 |
| 20 | 107690 | NUT, JAM 3/8-16 | 4 |
| 21 | 106407 | WASHER, LOCK 3/8" SPLIT | 4 |
| 22 | 204460 | BACKING PLATE, MACHINED | 1 |
| 23 | 109654 | PUMP SLINGER WASHER | 1 |
| 24 | 110734 | STUD 3/8-16 X 1 3/8 | 4 |
| 25 | 111145 | MOTOR 1.4HP (208-240V/ 460V/60/3) | 1 |
| | 111144 | MOTOR 1.4HP (115V/208-240V/60/1) | 1 |
| | 0507708 | MOTOR 1.4HP (575V/60V3PH) | 1 |
| 26 | 100739 | BOLT 5/16-18 X 3/4 HEX HEAD | 4 |
| 27 | 102376 | WASHER, FLAT 5/16 | 4 |
| 28 | 106013 | WASHER, LOCK 5/16-18 SST | 4 |
| 29 | 100142 | NUT, GRIP 5/16-18 | 4 |
| 30 | 100754 | SCREW, FLAT 10-32 X 1/2" | 4 |
| 31 | 110270 | WASHER, COUNTERSUNK SST | 4 |
| — | 109645 | KIT, PUMP (INCLUDES 15,17,19) | 1 |
| — | 451643 | PUMP/MOTOR ASSEMBLY COMPLETE 1.4HP(208-240V/460V/60/3PH) | 1 |
| — | 451642 | PUMP/MOTOR ASSEMBLY COMPLETE 1.4HP(115V/208-240V/60/1PH) | 1 |
| — | 0707549 | PUMP/MOTOR ASSEMBLY COMPLETE 1.4HP(575V/60/3PH) | 1 |

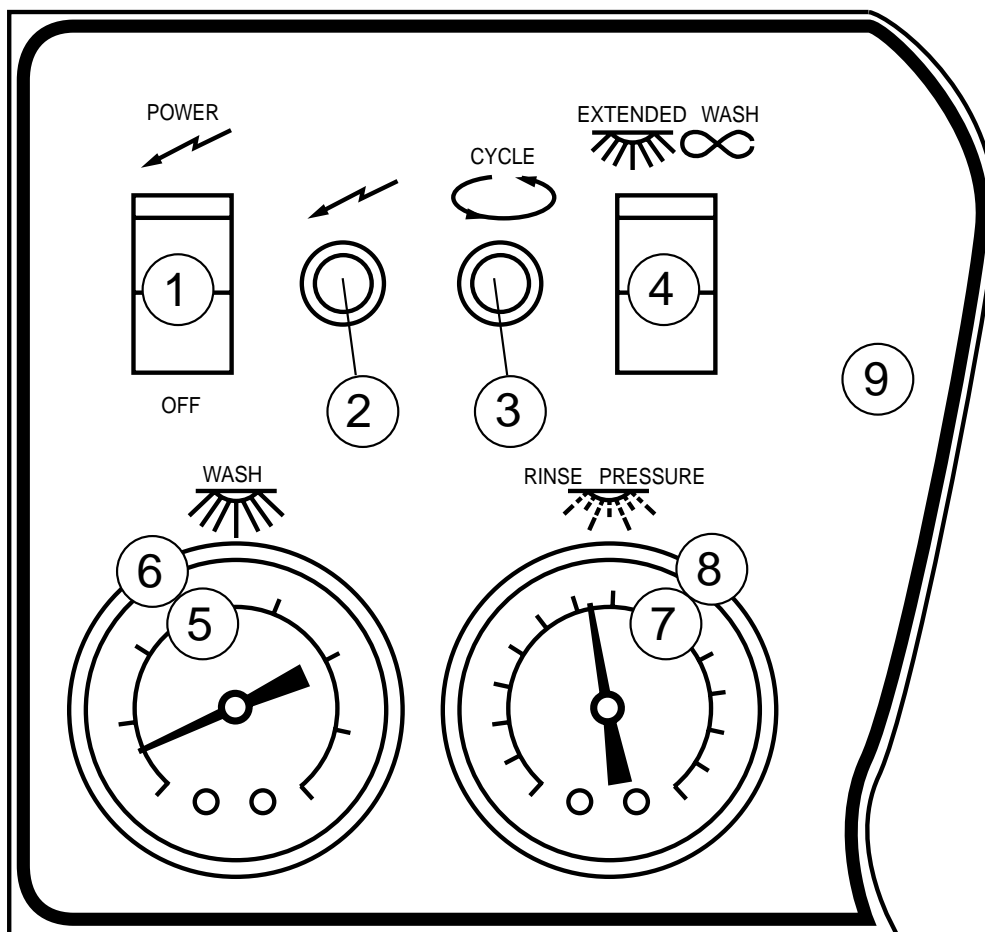
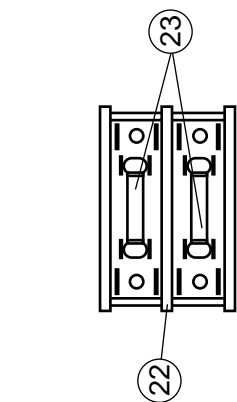
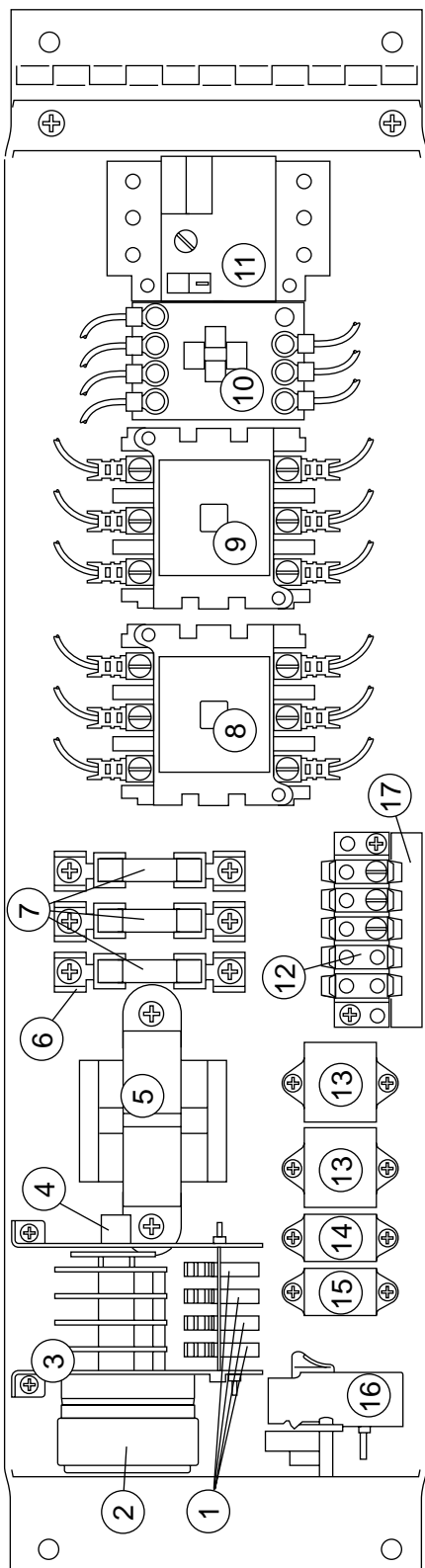


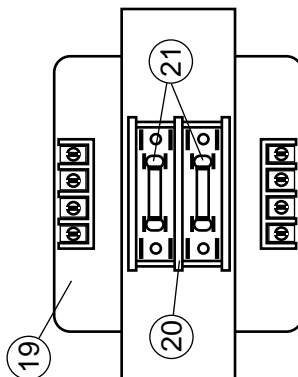
Figure 36 - MH-60/6N/6L
Control Panel and Gauges

MH-60/6N/6L
CONTROL PANEL AND GAUGES

| Fig. 36 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|--|-------------|
| 1 | 0501361 | SWITCH, ON-OFF | 1 |
| 2 | 112390 | LITE, RED (POWER) | 1 |
| 3 | 112391 | LITE, AMBER (In-Cycle) | 1 |
| 4 | 0501361 | SWITCH, EXTENDED WASH | 1 |
| 5 | 108391 | THERMOMETER, 4 FT | 1 |
| 6 | 112086 | OVERLAY, WASH 150°F (MH-60/6N) | 1 |
| | 112093 | OVERLAY, WASH 120°F (MH-6L Only) | 1 |
| 7 | 109812 | GAUGE, PRESSURE 0-100 PSI | 1 |
| 8 | 109816 | OVERLAY, 20-30 PSI | 1 |
| 9 | 112388 | DECAL, CONTROL PANEL | 1 |



Main Power Fuse Block
mounted on machine base
(115V/1 phase only)



Main Power Transformer
mounted on machine base
(208V-575V/1 or 3 phase)

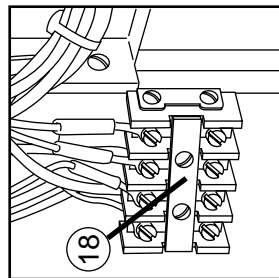
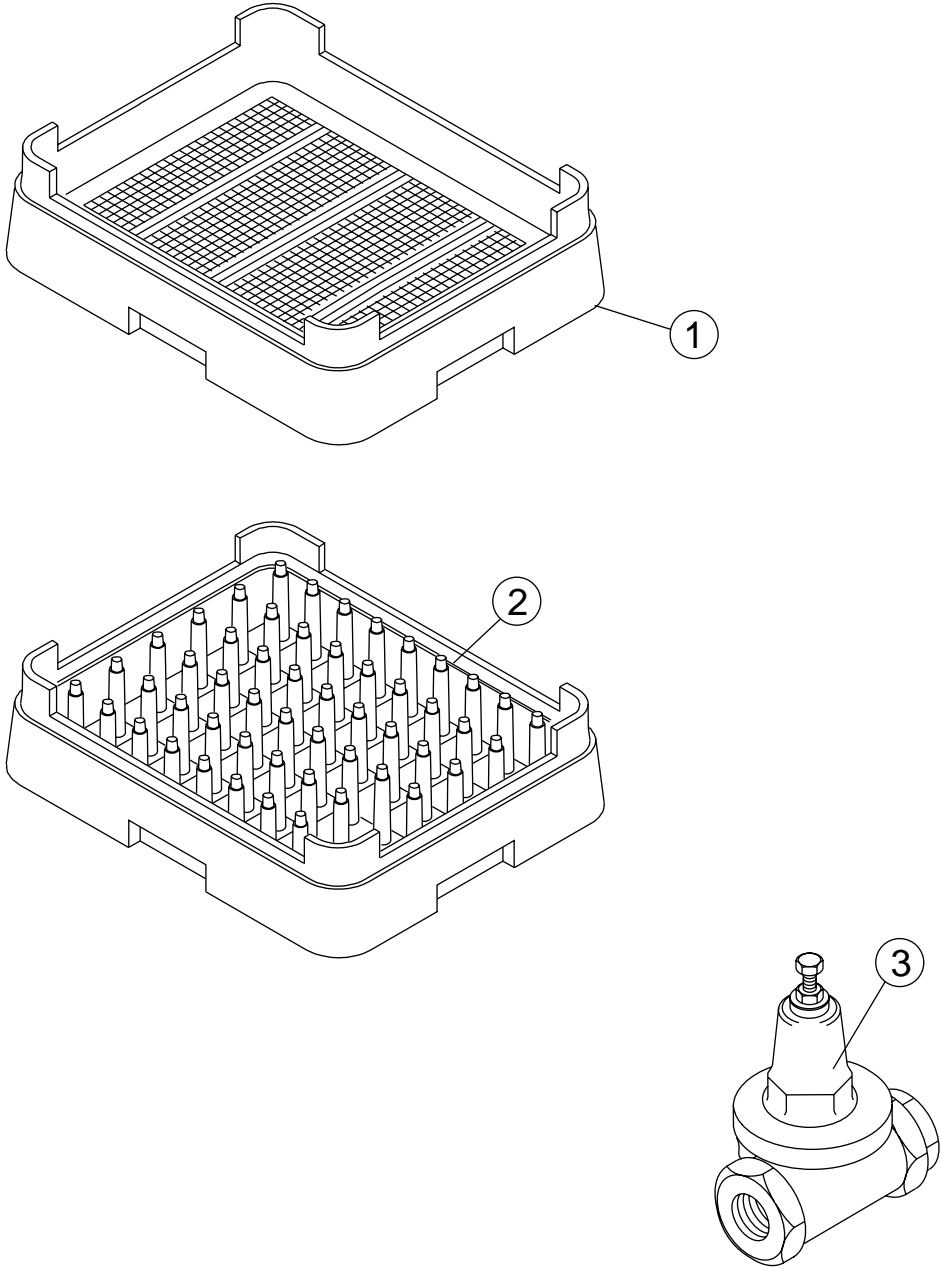


Figure 37 - MH-60/6N/6L
Control Cabinet

MH-60/6N/6L
CONTROL CABINET

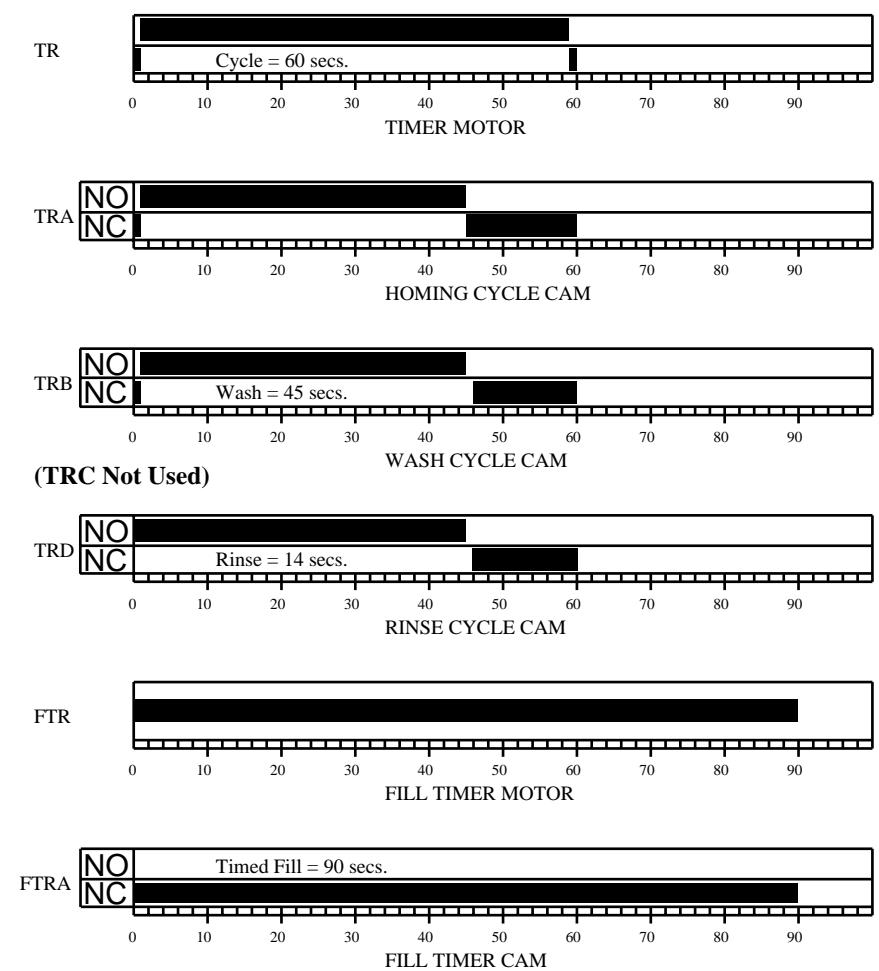
| Fig. 37 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|--|-------------|
| 1 | 0501379 | Switch, timer | 4 |
| 2 | 0508773 | Motor, timer | 1 |
| 3 | 0709633 | Assembly, timer (includes Items 1, 2, 4) | 1 |
| 4 | 0503701 | Bearing, timer | 1 |
| 5 | 111277 | Transformer (120V : 24V) | 1 |
| 6 | 106925 | Block, fuse (30A, 3 pole) | 1 |
| 7 | 0508675 | Fuse, 10A ((MH60) 208-240V/3 | 3 |
| 7 | 100906 | Fuse, 5A (MH60) 480V/3 | 3 |
| 7 | 100913 | Fuse, 10A (MH60) 380-415V/3 | 3 |
| 7 | 100906 | Fuse, 5A (MH60) 575/3 | 3 |
| 7 | 0508675 | Fuse, 10A (MH6L, 6N) 208-240V/3 | 3 |
| 7 | 100913 | Fuse, 10A (MH6L, 6N) 380-415V/3 | 3 |
| 7 | 100906 | Fuse, 5A (MH6L, 6N) 480V/3 | 3 |
| 7 | 0508676 | Fuse, 30A (MH6L, 6N) 115V/1 | 2 |
| 7 | 107384 | Fuse, 20A (MH6L, MH6N) 208-240V/1 | 2 |
| 8 | 111904 | Contactor, booster heater (40A, 3 pole) (MH60 Only) | 1 |
| 9 | 111904 | Contactor, wash tank heater (40A, 3 pole) (All Models) | 1 |
| 10 | 111642 | Contactor, 1.4 HP Wash motor (12A 3 pole) (All Models) | 1 |
| 11 | 112691 | Overload, motor 1.4 HP Wash (All Models) 208-240V/3 | 1 |
| 11 | 111626 | Overload, motor 1.4 HP Wash (All Models) 480V/3 | 1 |
| 11 | 111627 | Overload, motor 1.4 HP Wash (All Models) 380-415V/3 | 1 |
| 11 | 112692 | Overload, motor 1.4 HP Wash (All Models) 575V/3 | 1 |
| 11 | 111632 | Overload, motor 1.4 HP Wash (MH6L, 6N) 115V/1 | 1 |
| 11 | 111630 | Overload, motor 1.4 HP Wash (MH6L, 6N) 208-240V/1 | 1 |
| 12 | 107366 | Board, terminal | 1 |
| 13 | 112382 | Relay (3PDT, 10A, 120VAC coil) | 2 |
| 14 | 111068 | Relay (2PDT, 10A 120VAC coil) | 1 |
| 15 | 111067 | Relay (2PDT, 10A 24VAC coil) | 1 |
| 16 | 0508469 | Fill timer assembly | 1 |
| 17 | 0509564 | Label, chemical connections | 1 |
| 18 | 0509527 | Block, terminal (4 pole) (Main Power) | 1 |
| 19 | 109064 | Transformer (208-240V/1 and 3HP/480V/3PH) | 1 |
| 19 | 111464 | Transformer (380-415V/3PH) | 1 |
| 19 | 111521 | Transformer (575V/3PH) | 1 |
| 20 | 112424 | Kit, fuse block (2 pole) (208-240V/1-3PH, 380-415V/3PH, 480V/3PH, 575V/3PH) | 1 |
| 21 | 112482 | Fuse, 3.5A 600V (ATDR) 208-240V 1 and 3PH | 2 |
| 21 | 112483 | Fuse, 1.8A 600V (ATDR) 380-415V/3PH | 2 |
| 21 | 112484 | Fuse, 1.5A 600V (ATDR) 480V/3PH | 2 |
| 21 | 112485 | Fuse, 1.25A 600V (ATDR) 575V/3PH | 2 |
| 22 | 106402 | Block, fuse (2 pole) (115V Only) | 1 |
| 23 | 107289 | Fuse, 2.5A 250V (ATDR) 115V Only | 2 |
| — | 103309 | Wire lug, ground (Not shown) | 1 |



**Figure 38 -
Dishracks and PRV**

DISHRACKS AND PRV

| Fig. 38 Item No. | Part No. | Part Description | Qty. |
|-----------------------------|---------------------|-------------------------------|-------------|
| 1 | 101273 | RACK, (Flat Bottom) | 1 |
| 2 | 101285 | RACK, (PEG) | 1 |
| 3 | 112387 | LINE STRAINER/PRV COMBO | 1 |



| | |
|---------|--|
| 1M | Wash Motor Contactor |
| 1MOL | Wash Motor Overload |
| 1MTR | Wash Motor |
| BC1 | Booster Tank Contactor or Steam Valve |
| BCHL | Booster Tank High Limit (ELECTRIC HEAT ONLY) |
| DR | Door Safety Switch Relay |
| DSS | Door Safety Switch |
| EWS | Extended Wash Switch |
| FTR | Fill Timer Motor |
| FTRA | Fill Timer Cam |
| FU1 & 2 | Transformer Fuses |
| FU3,4,5 | Tank Heat Fuses |
| HC1 | Tank Heat Contactor or Steam Valve |
| HCHL | Tank Heat High Limit (ELECTRIC HEAT ONLY) |
| LT1 | Power ON Light |
| LT2 | Cycle Light |
| MPS | Main Power Switch |
| R1 | Fill Relay |
| R2 | Hold-In Relay |
| R3 | Power-Up Relay |
| RWV | Rinse Water Valve |
| T1 | LINE:120V Transformer |
| T2 | 120V:24V Transformer |
| TR | Timer Motor |
| TRA | Homing Cycle Cam |
| TRB | Wash Cycle Cam |
| TRD | Rinse Cycle Cam |
| TSBC | Booster Tank Thermostat |
| TSHC | Wash Tank Thermostat |

| DIAGRAM STATE |
|--|
| END OF CYCLE POWER - OFF DOOR - CLOSED |

69

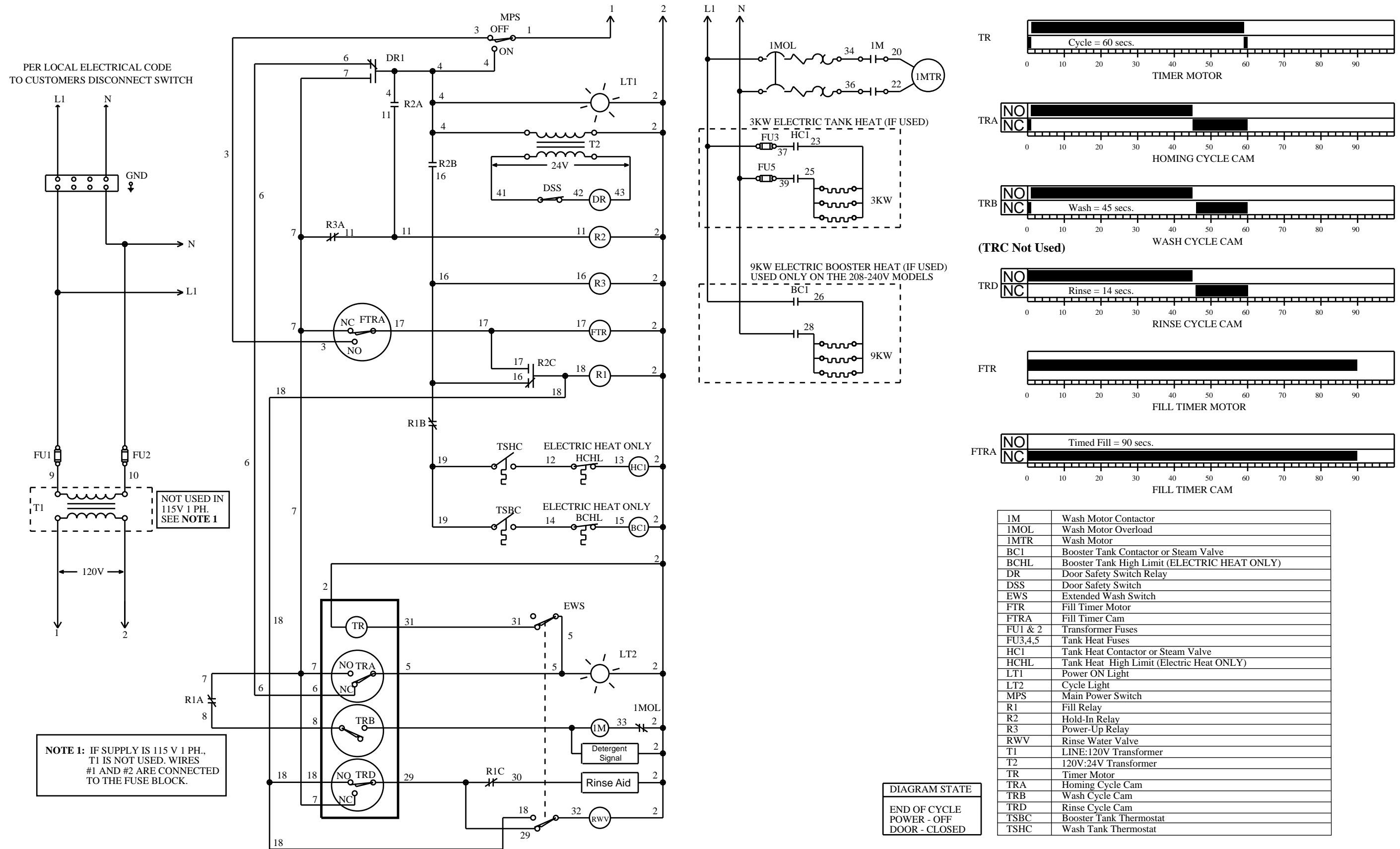


Figure 40 - Electrical Schematic / 1 Phase (MH-60, 6N, 6L)

B701478/A