



**4-SELECTION SERIES 1840
OPEN STORAGE TANK
MODEL 1840
WATER VENDING MACHINE
(CLICK PLC)**

OPERATOR'S & PARTS MANUAL

DO NOT USE OR OPERATE THIS EQUIPMENT UNTIL THIS MANUAL
HAS BEEN READ AND THOROUGHLY UNDERSTOOD

PART NUMBER 62502367 RevA

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62502367 RevA

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TO THE PURCHASER

This product is designed and manufactured to give years of dependable service when properly maintained and used for the purpose for which it was intended. Never allow anyone to operate this equipment until they fully understand the complete contents of this manual. For owners who do not operate this equipment, it is their responsibility to ensure that the operator has been properly instructed and is fully aware of the contents of this manual. The owner is also responsible to ensure that the operator is physically and mentally capable of operating this equipment. Information contained in this manual is important in the safe handling of this equipment, and also achieving an efficient operation. If there are any questions about information in this manual, it is important to contact your dealer for clarification.

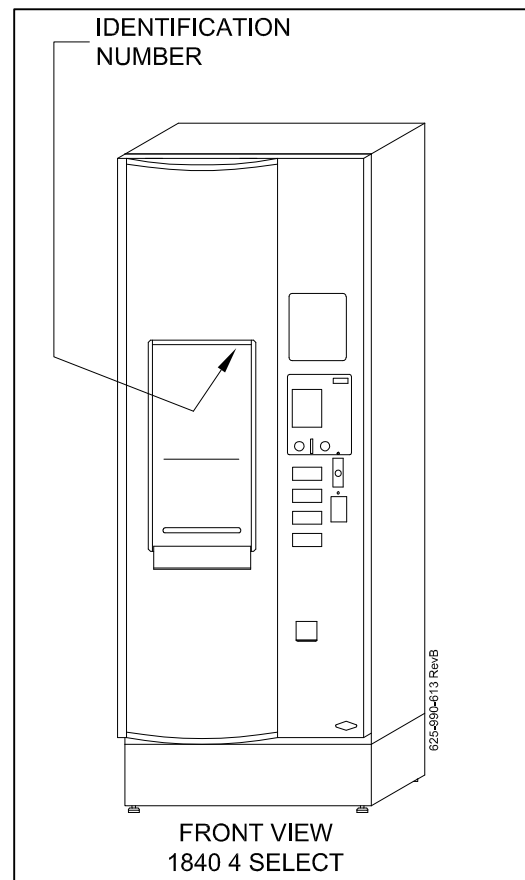


This is the safety alert symbol, it is used to alert the operator to instructions concerning the personal safety and risk factor of this equipment. Always observe and heed these very important instructions to promote a safe operation with good preventive maintenance habits.

Always obtain original equipment service parts from Coster Water. Never accept any type of substitute items, as this could affect the equipment performance.

Product registration: The purchaser and/or owner need to complete product/warranty registration by going to Coster Water web page "costereng.com". Under the 'warranty registration' drop down menu, complete all required fields and click on "submit" button

The location of the identification number plate on this equipment is as shown.



Please fill in the following information for your records:

DATE OF PURCHASE _____

OWNER'S NAME _____

DEALER'S NAME _____

IDENTIFICATION NUMBER _____

IMPORTANT: Never operate this machine until the user fully understands the complete contents of the owners instruction manual. For owners who do not operate this equipment, it is their responsibility that the user has been properly instructed and fully aware

of the manual contents. This is important in the safe handling and in obtaining an efficient operation of the machine.

Please retain this manual for future reference.

Please read this manual in its entirety before using this machine.

DISCLAIMER

The information contained in this document is subject to change without notice.

Coster Water shall not be liable for technical or editorial omissions made herein; nor for incidental or consequential damages resulting from the furnishing, performance, or use of this material.

SAFETY



TAKE NOTE! THIS SAFETY ALERT SYMBOL FOUND THROUGHOUT THIS MANUAL IS USED TO CALL YOUR ATTENTION TO INSTRUCTIONS INVOLVING YOUR PERSONAL SAFETY AND THE SAFETY OF OTHERS. FAILURE TO FOLLOW THESE INSTRUCTIONS CAN RESULT IN INJURY OR DEATH.

This symbol means ATTENTION: BECOME ALERT, YOUR SAFETY AND OTHERS IS INVOLVED.

SAFETY SIGNAL WORDS

DANGER: Indicates an imminently hazardous situation that, if not avoided, will result in death or serious injury. This signal word is to be limited to the most extreme situations typically for machine components which, for functional purposes, cannot be guarded.

WARNING: Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury, and includes hazards that are exposed when guards are removed. It may also be used to alert against unsafe practices.

CAUTION: Indicates a potentially hazardous situation that, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices.



WARNING: Read and understand operator's manual prior to making any repair, adjustments, or performing any maintenance on this machine.



WARNING: Use only sanitary FDA approved piping and filters in this machine. Failure to do so may result in illness, injury, or death to users of this machine.



WARNING: Install and operate this machine only in accordance with all applicable labeling, licensing, testing and inspection, installation, electrical, plumbing, health and safety, food water and vending machine codes.



WARNING: Flush system before use to remove all chemicals present.



WARNING: Never allow unauthorized or improperly supervised personnel to operate or service this machine. They must be responsible, properly trained and qualified.

The preservative, sodium bisulfite (SBS), is used to prevent microbiological growth during storage and shipment. Some individuals may experience a severe allergic reaction if machine is not flushed before system start up.



WARNING: Unplug this machine prior to making any repairs. Failure to take proper precautions may result in electrical shock and death.



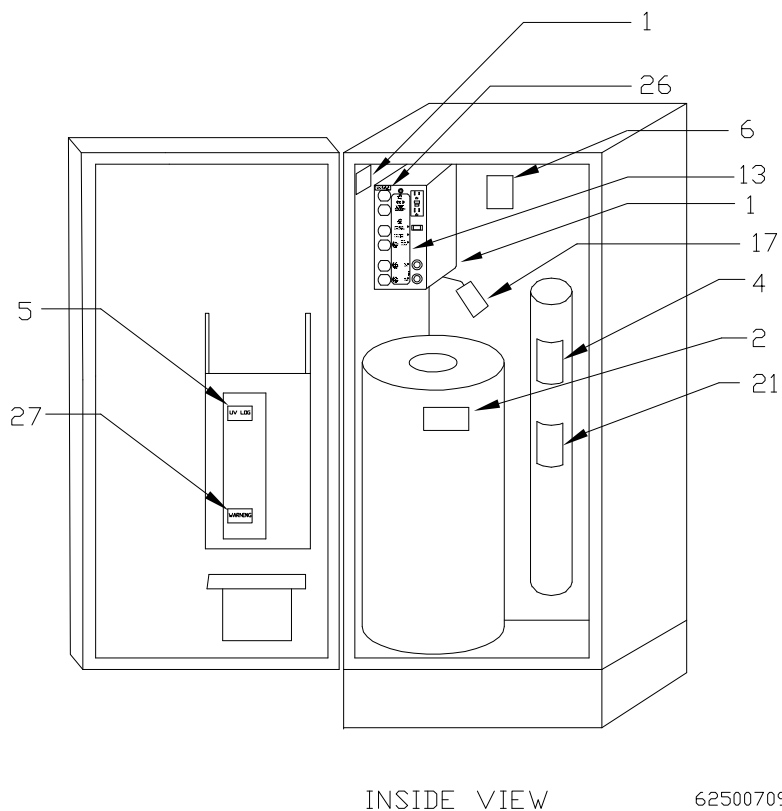
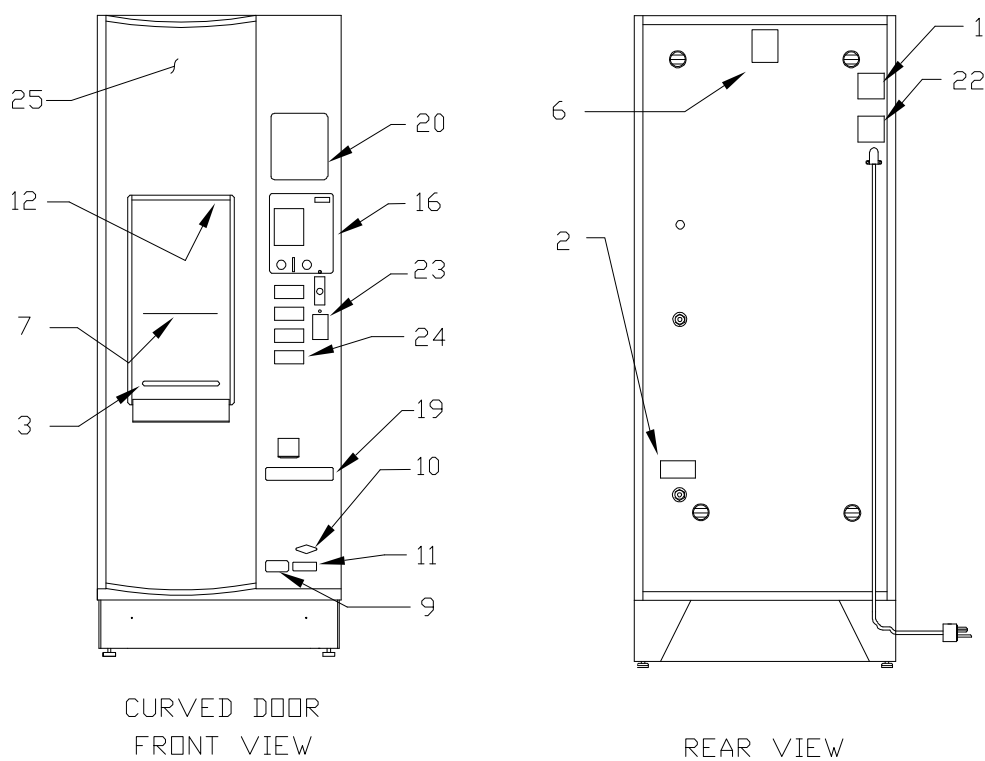
WARNING: Do not look directly into the ultraviolet light or eye damage may result. Always wear UV safety goggles and cover all exposed skin when securing UV bulb.



WARNING: Do not make any alteration or modification in the wiring or plumbing of this machine. Such alterations can result in damage to your machine, and/or cause injury, illness, or death to maintenance personnel, operators, and users of this machine.



WARNING: This machine must be connected to an inspected, approved, potable water system only containing 500 parts per million (PPM) of total dissolved solids (TDS) or less.



62500709 RevK

FIGURE 1

Decal Locations



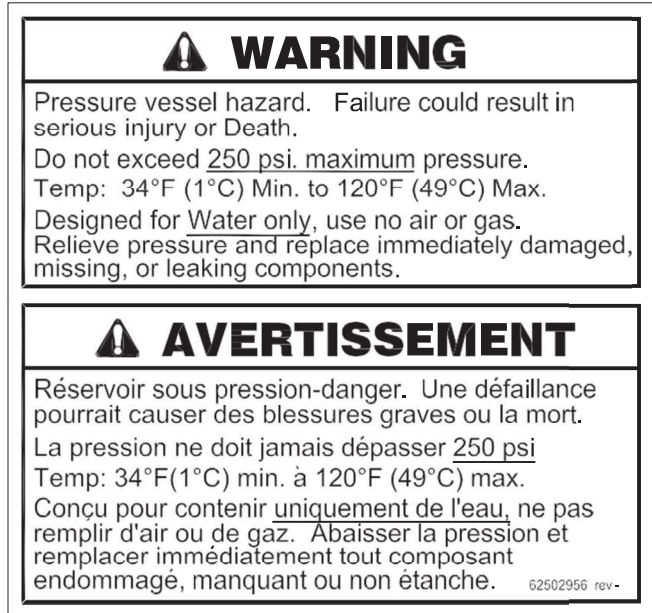
1. Decal 62502954 electrocution warning located on inside and on rear (French).



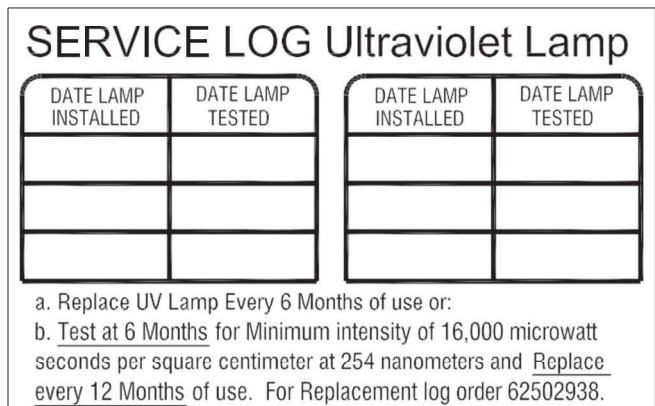
2. Decal 625-002-085 potable water warning located on inside and on rear (Figure 1).

USE CLEAN, SANITIZED CONTAINERS
UTILISER DES CONTENANTS PROPRES ET STÉRILISÉS
USE ENVASES LIMPIOS, E HIGIÉNICOS

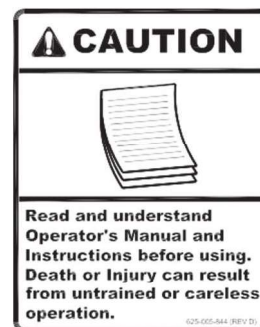
3. 62501730 On dispenser door.



4. 62502956 Located on both sides of pressure vessel (Figure 1).



5. Decal 62502938 service log decal located by ultraviolet light (Figure 1).



6. Decal 625-005-844, Read Manual located on rear inside, (Figure 1)

7. 625-004-044 Decal, "Lower This Shelf"
Located in dispenser housing (Figure 1)
8. N/A
9. 625-004-045 Decal, Water Quality-NAMA
Located lower left on front door (Figure 1)
10. 625-001-030 Decal, Coster Logo, (Figure 1)
11. 625-001-025 Decal, Coster Address,
Located on lower right (Figure 1)
12. Decal, Serial Number Plate, Top of dispenser
housing
13. 62502534 Decal, electrical control box
operation (Figure 1)
14. 625-001-022 Decal, "Pressure Pump",
Located inside on electrical box (Figure 1)
15. N/A
16. 62502110 Decal, Instruct (Non-Coin) VMC
Control
62502109 Instruct Coin (Early Style)
62502673 Instruct Coin (Current)
17. 625-004-512 Tag, Flush Warning (See 625-
004-513 for text)
18. N/A
19. 625-004-471 Decal, Fluoride Info
(State of Mass.) (Figure 1)
20. 62501044 Decal, Pictorial,
RO Only Description (Figure 1).

WARNING

The membrane element may contain a STORAGE SOLUTION of SODIUM BISULFATE (SBS) to prevent microbiological growth and GLYCERINE to prevent freezing. Remove all storage solutions by FLUSHING element and discarding all water before using. See operators manual for correct procedure.



AVERTISSEMENT

L'élément membranaire peut contenir du BISULFITE DE SODIUM, une SOLUTION employée durant L'ENTREPOSAGE pour prévenir la prolifération microbologique, ainsi que de la GLYCÉRINE, qui empêche le gel. Pour éliminer toutes les solutions employées durant l'entreposage, RINCER l'élément à fond et jeter toute l'eau de rinçage avant l'utilisation. Consulter la procédure à cet effet décrite dans le manuel de l'utilisateur.

62502958 rev. 1

21. 62502958, Decal located inside cabinet on pressure vessel (Figure 1).



CAUTION

**Electrical input
120 VAC/60 Hz
single phase**

625-004-488 Rev C

22. 625-004-488 Decal Caution 120VAC located on rear (Figure 1).



CAUTION

**Electrical input
120 VAC/60 Hz
single phase**

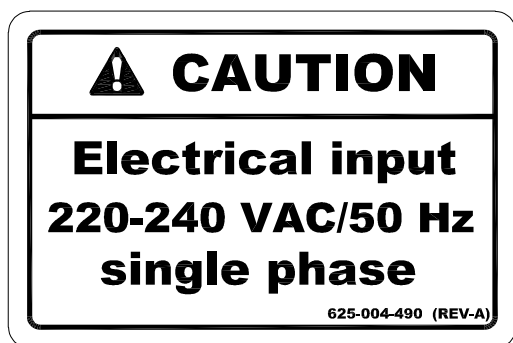


PRUDENCE

**Alimentation électrique
120 Vca/60 Hz
Courant monophasé**

62502959 rev. 1

22. 62502959 Decal Caution 120VAC located on rear (French)



22. 625-004-490 Decal Caution, 240 VAC 50 Hz
 Located on rear (Figure 1) (240 VAC 50 Hz
 Units Only)



23. 625-004-497, Located on front (Figure 1).

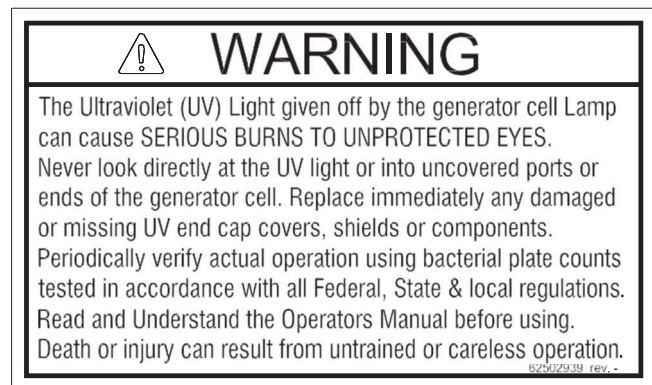
24. 62500687, Button Tag Set, Gallons.

62500688, Button Tag Set, Liters.

62500689, Button Tag Set, Purified Water.

25. 62502156 Panel, Rinse, Refill, Refresh

26. 62502944 Label, Upper outlet locked on
 electrical box (Figure 1).



27. 62502939 Decal U.V. Warning located on
 U.V. light (Figure 1).

SAFETY FEATURES

The vending machine provides the needed safety shut offs should certain conditions exist.

The machine will not dispense if:

1. The ultraviolet light is burned out.
2. The TDS in the deionized water exceeds 10 PPM (NAMA approved models only).
3. The sump float switch on the cabinet floor has been activated as a result of water in bottom of the cabinet. (Possible leak)

The machine will not charge (process water) if:

1. The feed pressure is less than 5 psi.
2. The sump float switch on the cabinet floor has been activated as a result of water in the bottom of cabinet.

The machine incorporates two (2) ground fault circuit interrupter (GFCI) devices, and a 5 amp fast blow fuses. (One main fuse and one for coin system)

TECHNICAL SPECIFICATIONS

DIMENSIONS:

Height:74 Inches
 Depth:32 Inches
 Width:.....28 Inches

WEIGHT:

Dry Shipping: 665 Lbs.

OPERATING PRESSURE:

Pressure Pump:100-125 psi maximum

PRODUCT WATER DISPENSING PRESSURE:

Pressure:5-40 psi

PLUMBING CONNECTIONS:

Feed 1/2 Inch FNPT
 Drain.....1/2 Inch FNPT

ELECTRICAL:

Electrical: Standard Unit 15A 110 VAC 60HZ
 GFCI protected circuit

| CAPACITY | |
|---|---------------------|
| | Pressure Pump Units |
| Element | XLE |
| Operating Pressure (psi) | 125 (maximum) |
| Product Flow (GPM)* | 1 |
| Product Flow (GPD)* | 1500 |
| Concentrate Flow (GPM) | 1 |
| % Recovery (Nominal) | 50 |
| * Approximate initial product flow based on properly pretreated feed water of 1000 ppm TDS (As NaCl). 15° C (59F) and silt density less than 3. Production capacity may vary due to feed water temperature, pressure, quality, and product back pressure. | |

GENERAL INFORMATION

The Coster Water Model 1840 Vending Machines are designed to process and dispense reverse osmosis drinking water from an approved, potable drinking water supply.

MULTI-STAGE PROCESS

The Coster Water Machines use a six-step process for water purification and storage. These separate steps allow for consistent economical water treatment of reverse osmosis drinking water.

1. PARTICLE PREFILTRATION

The first step is a ten-inch one (1) micron sediment cartridge filter composed of spun polypropylene. The particle filter removes any suspended particles that are greater than one micron in size, such as, silt, fine sand, and grit.

2. CARBON PREFILTRATION

The second step is a carbon briquette filter. This filter removes chlorine that would otherwise destroy the reverse osmosis membrane.

3. REVERSE OSMOSIS

Next, a reverse osmosis (RO) membrane removes up to 98% of the water's Total Dissolved Solids (TDS). Reverse osmosis is the process which produces the dispensed product water available to the consumer.

The amount of reverse osmosis water produced by the machine will drop if...

- A. The feed water temperature drops. For every 1 degree Celsius decrease in feed water temperature, RO product water production will decrease by 3 percent.
- B. The RO membrane becomes fouled. In normal operation, minerals, and biological materials may build up on the membrane.

- C. The feed water TDS content increases. If the TDS of the feed water to the machine rises, production of water will decrease.

4. THE RO WATER STORAGE TANK

The vending machine has a 45 gallon storage tank which is specially constructed to store reverse osmosis processed water.

5. POST CARBON FILTRATION

Prior to ultraviolet sterilization and dispensing, a final carbon impregnated filter cartridge polishes the product water, removing any remaining odors, tastes, or discolorations.

6. ULTRAVIOLET STERILIZATION

The final water treatment process is ultraviolet sterilization. While the product water is being dispensed, it passes through a chamber which irradiates the flow with ultraviolet light.

The Water Vending Machines will not dispense water if the UV bulb is burned out.

Water is flushed thru the UV light for approximately 3 seconds every hour **ONLY** when the unit **HAS NOT** dispensed water. This reduces the peak temperature experienced after the unit has set idle for an extended time, such as the first vend in the morning.

CONSTRUCTION

The water vending machines have a sheet metal construction with a durable polyurethane epoxy finish. The dispenser housing is made of stainless steel to provide an easy to clean rust-free dispensing area. The control system takes care of the charge and post flushes and is equipped with several shut down conditions should any maintenance be required.

FEATURES

- Choice of direct vend or coin mechanism.
 - Coin mechanism can be set for "Free" vends.
 - Automatic shut off on occurrence of an internal leak. (Charging and vending)
 - Automatic shut off when the ultraviolet lamp fails.
 - Shut down when feed pressure drops too low. (Pressure pump units only)
 - Four (4) selection push buttons standard on all units.
1. RO Non-Coin. 3 Volumes plus "Stop" & "Hold".
 2. RO, Coin Mech, 4 volumes, plus 18 second "Pause".
- Preset starting volumes, 1, 2, 3, & 5 gallons. (All volumes field adjustable).
 - Removable drain tank for ease of service.
 - Adjustable legs.
 - Small cabinet size.
 - Ease of component access and repair.

OPTIONS

- Dollar bill and coupon validators.
- Auxiliary water port - Mister System.
- Ozonation (O3) system.
- Auxiliary water meter.
- Security lock kits.
- Anti-Theft kits.
- Wireless Cashless Payment System.
- Wireless Remote Monitoring. (via NAYAX cashless payment system)

INSTALLATION AND SETUP

PRELIMINARY SITE INSPECTION

WATER SERVICE

The vending machine can only be connected to an approved potable water source that will provide a 4 GPM feed minimum.

Obtain or measure the following parameters from the water source.

- TDS (See Measuring TDS)
- Chlorine (See Measuring Chlorine)
- Hardness
- Iron (Total)

NOTE: Values for hardness and iron can be obtained from your local municipality, or obtaining and testing your own sample. Should the hardness of the feed water source exceed 150 ppm, and/or the iron level exceed .05 ppm, softener pretreatment will be required. Consult your local water treatment dealer or Coster Water for pretreatment recommendations.



WARNING: Chlorine can damage the reverse osmosis membrane. Feed water, Free chlorine must be 0 to 0.1 ppm maximum. Carbon filters must be replaced when the residual free chlorine approaches 0.1 ppm. Failure to maintain proper chlorine levels may void your warranty. If the chlorine level in the supply water is unusually high (greater than 1.0 ppm) additional pretreatment devices may be required. Consult your local dealer or Coster Water for pre-treatment recommendations.

ELECTRICAL

A 15 AMP, 110 VAC, 60 HZ **grounded** power supply will be required. (Required North America)



WARNING: Verify grounding continuity before operation.



WARNING: The power cord in-line Ground Fault Circuit Interrupter (GFCI) must be readily accessible for periodic testing and operation.

Be sure no other equipment is connected to the vending machine power supply circuit.

PLUMBING



The vending machine should not exceed 100 feet from access to the nearest water source and drain connection.

WARNING: Use only sanitary approved FDA materials for plumbing connections.

SET-UP

SERVICE CONNECTIONS

1. Potable water feed line - 1/2-inch FNPT connection (See Figure 2).
2. Plumbing connections should be a minimum of 1/2 ID. (3/4 ID if distances greater than 50 feet are needed.)
3. The feed pressure should not be less than 40 psi at the vending machine.
4. Drain line - 1/2-inch FNPT connection.
5. Electrical service will be a 15 AMP minimum, 110 VAC, 60 HZ grounded supply. (Required North America)

MACHINE SETUP

NOTE: Do Not plug machine in or apply power until all required installation procedures have been completed.

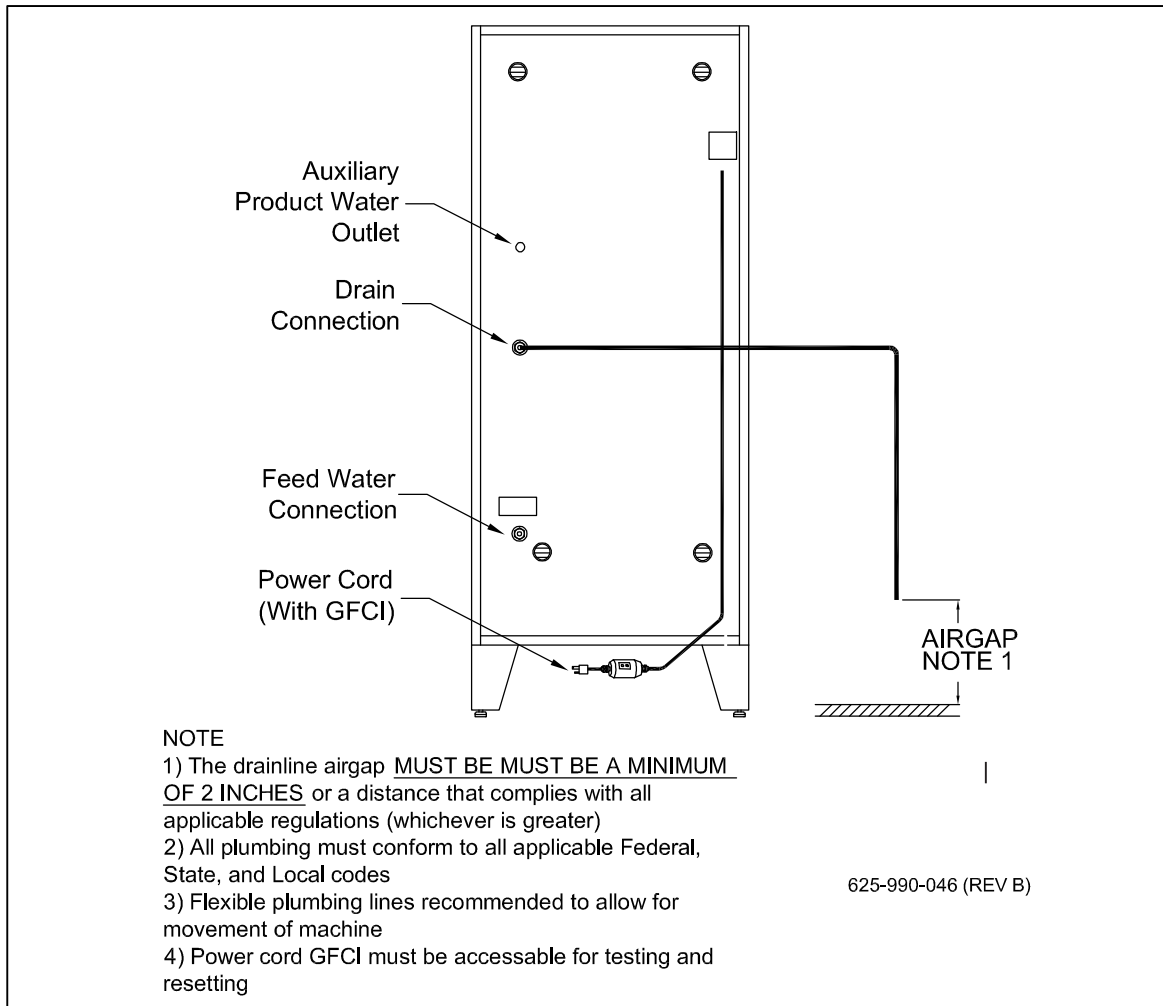
NOTE: Be sure that installation of this machine complies with all Federal, State and local electrical and plumbing codes and with all applicable federal, state, county and local standards for food and drinking water installations. The machine must be installed in a location free of dust and debris.

1. Move the vending machine to desired setup location. Cut the banding and remove cardboard shell; inspect the machine for any damages that may have occurred in transit.

2. Place machine on floor, adjust legs (hand adjustable) to prevent rocking.
3. Connect plumbing inlet and outlet lines. Use guidelines specified in: "Service Connection," Figure 2.
4. Check all fittings for tightness.

NOTE: This will prevent water leakage caused by loosening of fittings during shipment.

5. Install carbon and sediment filters (See Filter Maintenance Section).



SERVICE CONNECTIONS

The rear view of the water vending machine showing the service connections.

FIGURE 2

FLUSHING / CHARGING

FLUSHING



WARNING: Your reverse osmosis element may contain a storage solution made up of Sodium Bisulfite (SBS) and/or Propylene Glycol. Some individuals may experience allergic reactions to SBS. Make sure the system is flushed thoroughly prior to placing in service.

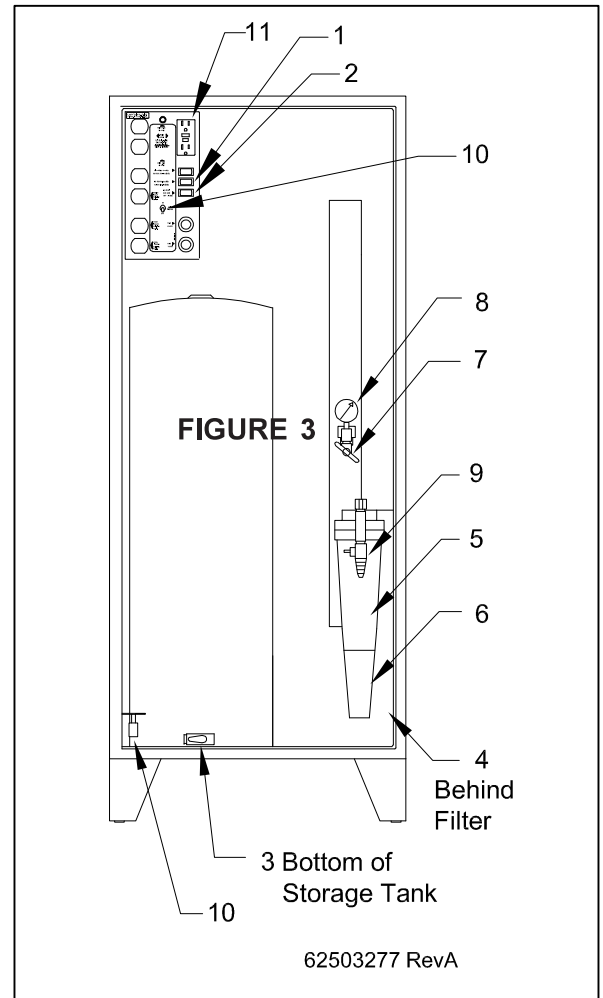
Refer to Figure 3.

1. Item 1, place Run/Flush Switch in "Flush" position
2. Item 2, place RO Pump Switch in "Off" position
3. Item 7, open (full counterclockwise) the T-Handle pressure regulating valve.
4. Item 4, open Feed Shut Off ball valve located behind filter housings.
5. Item 10, place Power Switch in "On" position machine and allow filter housings (Items 5 & 6) fill with water. Allow to flush for 5-10 minutes with pump off.
6. Item 2, place RO Pump Switch in "On" position. Operate 5-10 minutes at low pressure.
7. Item 7, turn T-Handle valve clockwise until Pressure Gauge (Item 8) indicates 100-120 psi.
8. After flushing for 30 minutes, take a sample of product water from the drain bucket on door. Smell the water to see if any odors may be present. Continue to flush until the water is free of odor.

IMPORTANT: Take a sample of water from sample cock (Item 9) during this time. Test it for chlorine. (See Measuring Chlorine Section). Do this during the first five (5) minutes of operation. Free chlorine must be 0 to 0.1 ppm maximum.

SYSTEM CHARGING PRESSURE PUMP UNITS

1. Item 1, place Run/Flush Switch in "Run" position.
2. Item 10, Test Shut Off Level Switch, located in sump of machine. Raise up float by hand, machine should shut down. If machine is still running, float is defective and must be replaced. Release float; machine will re-start charge cycle after a time delay.
3. After 10 minutes, push a drinking water selector switch on front of door. A steady stream should appear at the dispensing nozzle.
4. Let machine charge for approximately 5 minutes, then empty tank. (Place 5 gallon container in dispenser and press 5 gallon selection button. Repeat until tank is empty.)
5. Triple rinse storage tank by repeating Step 6 three times.
6. Machine is now ready for customer use.



DISPENSING / VENDING WATER

(Refer to Figure 5)

This section will detail the different modes in which the machine will dispense water, how to set each mode, and how the selection button will react for each mode.

NON-COIN OPERATION

Before vending, verify the following switches are set properly: (Refer to Figure 4)

-Switch "A" (Coin/Manual Mode) "Manual" position (No Red Showing)

-Switch "B" (Run/Calibrate Mode) "Run" position (Red Showing)

Volumes are factory programmed as follows:

Top Button: One (1) gallon drinking water

2nd Button: STOP

3rd Button: Three (3) gallons drinking water

4th Button: Five (5) gallons drinking water

COIN OPERATION

Before vending, verify the following switches are set properly: (Refer to Figure 4)

-Switch "A" (Coin/Manual Mode) "Coin" position (Red Showing)

-Switch "B" (Run/Calibrate Mode) "Run" position (Red Showing)

Top Button: One (1) gallon drinking water

2nd Button: Two (2) gallons drinking water

3rd Button: Three (3) gallons

4th Button: Five (5) gallons drinking water

IMPORTANT: All factory calibrated volumes are nominal only. They must be verified on site when the unit is put into service. Use the calibration procedure to adjust volumes as required. Seal electrical box after calibration, if required by local or state regulations.

NOTE: When operating in Coin Mode, the red "pause" button, on front of door, may be pressed to interrupt a vend. The vend will automatically continue after eighteen (18) seconds or when the pause button is pressed a second time. This allows several smaller containers to be used for a larger selection volume.

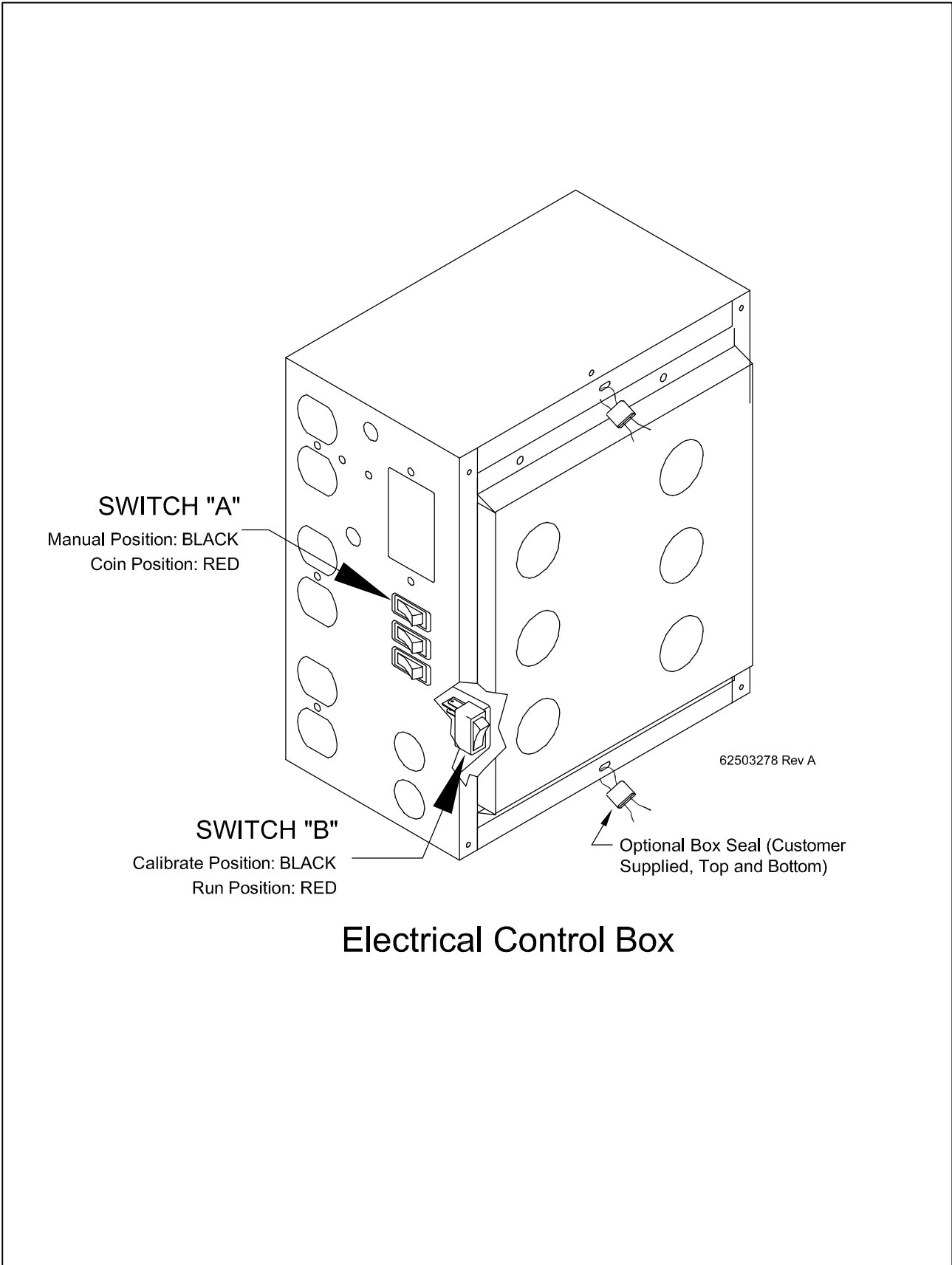


FIGURE 4

CALIBRATION

(Refer to Figure 4)

IMPORTANT: Vending in the “calibration” mode will cause the existing volume calibration of that button to be changed. Verify all selection button volumes after returning the internal calibration switch “B” to the “RUN” position. All buttons are “Hold to Vend” in calibration mode.



WARNING: Turn off power before removing electrical box cover to access calibrate switch “B”. Replace electrical box cover before restoring electrical power in all steps.

TO CALIBRATE A DESIRED VOLUME:

1. Switch “A”, place in “Manual Mode” position. Refer to Figure 4. **NOTE: This is the normal position for non-coin units.**
2. Switch “B”, place in “CAL” position. Refer to Figure 4. (Note: Switch “B” is located inside the electrical control box)
3. Press and hold the red “Pause Vend” button and simultaneously push the desired selection button to reset respective selection button volume to zero (0). Release both buttons. **(Note: Pause Button location: Coin Machines outside of door, Non-Coin machines inside of door.)**
4. Position empty container of desired volume under nozzle.
5. Press and hold individual selection button until container holds the desired volume of water. **(Note: The selection button can be pressed and released as many times as needed to fill the container, but once a container is over filled, the container must be emptied, and then steps 3, 4 and 5 repeated.)**
6. Repeat steps 2, 3, and 4, for remaining selection buttons if desired.
7. Switch “B”, return to “RUN” position.
8. Coin-Operated machines: Place Switch “A” in “Coin Mode” position.
9. Verify all selection buttons volumes by filling an appropriately sized container for each selection button.

TO INCREASE THE VOLUME OF A CALIBRATED SELECTION (COIN AND NON-COIN UNITS:

1. Leave partially filled container under nozzle.
2. Switch “A” place in “Manual Mode” position. **NOTE: This is normal position in Non-Coin machines.**
3. Switch “B” place in “CAL” position.
4. Press and hold individual selection button until container holds desired amount of water.
5. Switch “B”, return to “RUN” position.
6. Coin-Operated machines only. Place Switch “A” in “Coin Mode” position.
7. Verify correct volumes by filling a container for each selection button.

TO DECREASE VOLUME:

Once a container is overfilled, the calibration process must be restarted from the beginning. (See "To calibrate to a desired volume").

"HOLD TO VEND" BUTTON PROGRAMMING, (Non Coin Units only)

1. Switch "A" place in "Manual Mode" position. **NOTE: This is the normal position of Non-Coin machines.**
2. Switch "B", place in "CAL" position.
3. Press and hold the red "Pause Vend" button and simultaneously push the desired selection button to reset respective selection button volume to zero (0). Release both buttons.
4. Press and quickly release same selection button, to dispense as small amount of water as possible.
5. Switch "B", return in "RUN" position.
6. Turn off power to machine.
IMPORTANT: Selection buttons must not be pushed before power is turned off.
7. Turn on power and verify "HOLD TO VEND" button operation. **NOTE: If button does not properly function as "Hold to Vend" repeat steps 1 through 7.**

TO RETURN CALIBRATION TO FACTORY DEFAULT VOLUMES: 1, 2, 3, AND 5 GALLONS

1. Switch "A" place in "Manual Mode" position. **NOTE: This is the normal position of Non-Coin machines.**
2. Switch "B" place in "CAL" position.

3. Press and hold the red "Pause Vend" button and simultaneously push and release each selection button one at a time to reset the respective volumes to zero (0). Release "Pause Vend" button last.

NOTE: (Coin-Op.) Red Pause Button is on outside of door. (Non-Coin) Red Pause Button is on inside of door.

4. Switch "B", return to "Run" position.
5. Turn off power to machine.
IMPORTANT: Selection buttons must not be pushed before power is turned off.
6. Switch "A" place to "Coin Mode" (Coin Operated machines only)
7. Turn on power to unit.
8. Verify all selection volumes by filling a appropriately sized container for each selection button.

MAINTENANCE

General maintenance requirements depend upon the feed water quality and use of the machine. To build a proper maintenance schedule, a log sheet, as shown in the rear of this manual, should be prepared for each machine. The log sheet will contain information about feed water and RO product water. Periodic analysis of water quality and system parameters will help track the performance of the machine and indicate if any replacement parts are needed. Additionally, the log sheet will track replacement dates of any components, system repairs, or comments concerning operation.

The following schedule is a "Rule-of-Thumb" guide to performing general maintenance and service on the water vending machines. For additional maintenance information addressed in the schedule below, please refer to the appropriate sections in the manual.

TESTING GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE AND POWER CORD

Push in test button, GFCI will trip and machine power is shut OFF. Push reset button firmly in to reset GFCI, power is restored to machine.

If GFCI fails to trip or reset properly, **DO NOT USE**. Call a qualified electrician.

MAINTENANCE SCHEDULE

Daily

- Clean and disinfect the customer contact surfaces.
- Clean exterior of cabinet.
- Check the machine for good working order.

Weekly Or Monthly or Bi-Monthly

- Clean and disinfect the drain tank (See Cleaning-Sterilization Section).

- Measure and record the TDS of the feed and RO product water (See Measuring TDS Section).
- When any of the above TDS readings are out of specification, perform required service to bring them back to normal. (See Reverse Osmosis Maintenance Section).
- Test and record the chlorine level after the chlorine removal filter. Use the sample valve on filter to collect sample. The carbon filter must be replaced when the residual free chlorine approaches 0.1 ppm maximum. Free chlorine will destroy the membrane (See Filter Maintenance and Measuring Chlorine Section).
- Check filters, replace if dirty.
- Log pressure gauge readings.
- Check softener salt tank level (where applicable).
- Test Ground Fault Circuit Interrupter (GFCI) duplex receptacle and power cord.

90 Days

- Replace the chlorine removal carbon filter.
- Replace the post-carbon filter.
- Replace the sediment filter.
- Coliform test.

NOTE: Must conform to all state and local regulations

6 Months

- Test UV bulb intensity or replace bulb.
- Check UV Quartz Sleeve and clean if necessary.

Yearly

- Replace UV bulb
- Clean UV Quartz Sleeve

Periodic (As Required)

- Sterilization as required.
- Reverse osmosis membrane replacement for cleaning. When drinking water TDS rises to more than 10% of the feed water TDS (See measuring TDS).

NOTE: Water quality must conform to all state and local regulations.



CAUTION: Your actual maintenance schedule may vary according to water quality, machine usage, and must conform to all state and local requirements. Please adjust the maintenance schedule to best suit your needs. However, for any filter replacement please do not exceed the maximum period of time or volume of water recommended for their respective replacement.

FILTER MAINTENANCE

NOTE: Coster Water recommends frequent replacement of the prefilters in order to minimize any possible fouling of the reverse osmosis element. It is Coster Water's belief that such replacements will save you money in membrane replacement in the long run.

General

The following points should be observed when changing filters.

1. Filter housings are to be screwed on only hand tight.
2. Relieve line pressure before attempting to unscrew filter housing.
3. Unscrew filter cartridge housing (counter clockwise) by hand.
4. Discard old filter.
5. Clean filter housing and rinse with clean water.

NOTE: If the interior of the filter housing gets slimy, a cleaning and disinfection will be required. (See Sterilization Section).

6. Insert new cartridge.

Make sure cartridge filter is lined up on top and bottom posts before screwing cartridge housing tight.

7. Replace cartridge housing.

Check to make sure o-ring is clean, properly seated and lubricated before assembling filter housing. Hand tighten, check for leaks.

NOTE: Use only food grade grease for lubrication.

Sediment Filter

This filter catches any of the sediment in the feed water. It should be inspected and changed according to the maintenance schedule. The frequency of changes can be adjusted according to the appearance of the interior of the sediment filter.

**Pre-Carbon Filter (Feed Filter)
(CBC Carbon Briquette)**

This filter removes chlorine before the feed water is fed to the membrane. With sediment filter installed always flush a new filter using sample port until water runs clear with no visible trace of carbon fines.

NOTE: Free Chlorine will attack the membrane, destroying the membrane's ability to reject contaminants. Carbon filters must be replaced when the residual free chlorine approaches 0.1 ppm maximum. Test for free chlorine using 'low range' 0-7 mg/l test kit instructions, if available. If feed chlorine levels are unusually high (greater than 1.0 ppm) additional carbon pretreatment devices may be required.

Post Carbon Filter (Product Water)

The post carbon filter is for the removal of any remaining tastes and odors from the dispensed water. This also must be changed according to the maintenance schedule.

NOTE: Position a large open container under the 10" post-carbon filter on door when changing. This will reduce time spent cleaning up drain down water spillage on floor.

| FILTER CHANGE SCHEDULE | | | |
|---|------------------------|---------------------------|---------------------|
| | <u>Check/ Test</u> | <u>Replacement</u> | <u>Max Time</u> |
| Pre Carbon | 1-2 weeks | As required/ 1500 gal. | 90 days |
| Sediment | 1-2 weeks | As required | 90 days |
| Post Carbon | ----- | 3000 gal. | 90 days |
| Storage Tank Air Filter (Open Tank Only) | 1-2 weeks | ----- | 12 months |

R.O. MAINTENANCE

Reverse Osmosis Membrane Performance

R.O. membranes will eventually get fouled, decreasing membrane performance. When an R.O. membrane no longer produces acceptable product water flow or quality, it will need to be replaced. Completing the following steps in accordance with the maintenance schedule will help determine when replacement is necessary.

1. Vend one (1) gallon of drinking (reverse osmosis) water. Discard
2. Vend another gallon of drinking (reverse osmosis) water.
3. Take a TDS reading with your TDS meter. (See measuring TDS).

NOTE: Make sure readings have been temperature compensated.

4. Collect a sample of the feed water through the sample port located directly after pre- filters.

NOTE: If the machine is not charging, then vend two (2) gallons of water. This will start the charging cycle and enable you to collect a feed water sample.

5. Take a TDS reading:
6. Calculate rejection of the minerals with the following formula:

$$\text{Rejection \%} = \frac{\text{TDS (Feed Water)} - \text{TDS (Product Water)}}{\text{TDS (Feed Water)}} \times 100$$

7. Compare current rejection reading with the first entry on the log sheet.
- If the vending machine is running on unsoftened water, then a 10% drop in rejection indicates membrane needs replacement.
 - If the vending machine is running on softened water, then a 15% drop in rejection can be tolerated before cleaning.

NOTE: If any valves have been adjusted or membrane replaced since installation, then the rejection comparisons must be made with the TDS values obtained after these adjustments.

UV LIGHT MAINTENANCE



WARNING: Ultraviolet light given off by the UV lamp can cause serious burns to unprotected eyes. Do not operate ultraviolet lamp when is removed from the UV chamber and never look directly into the cell's ports while the unit is in operation. UV radiation may, even in small doses, cause harm to the eyes and skin.



WARNING: When testing UV intensity, always wear UV safety goggles. Exposure may result in irreversible eye damage. (Contact Coster Water additional more information).



WARNING: Cover all exposed skin surfaces or skin damage may result. Perform test during closed or quiet times. Keep all unprotected persons away from direct view of the UV lamp.



IMPORTANT: A dirty quartz sleeve will reduce UV light transmission to the water and reduce disinfection performance of the UV light. When feeding a UV light with water containing higher mineral content than RO water, such as alkaline water, the Quartz Sleeve coating buildup is accelerated and requires more frequent cleaning. Initially, check sleeve monthly or bimonthly and adjust cleaning procedure to suit the type of water that you are vending. Refer to vending machine operators manual and UV light manufacturer operators manual quartz sleeve cleaning instructions.

TESTING LAMP INTENSITY/REPLACEMENT

Option 1. Replace UV Lamp every 6 months of use.

Option 2. Test at 6 months and replace every 12 months of use. A minimum intensity level of 16,000 UWs/cm² at 254 nm wave length shall be maintained for the life of the lamp.

Readings are obtained with a commercially available portable UV intensity meter. Consult Coster Water for recommended meter type. Follow all instructions and safety procedures included with meter.

An LED monitor located on the side of the UV assembly will indicate whether the UV bulb is illuminated. If this monitor light is not on, it will prevent the machine from dispensing water.

If the LED monitor goes out, shut off water supply to sterilizer immediately and disconnect power supply. Replace UV lamp with a new one by following installation directions. Regularly inspect the unit to ensure that the monitor light is still glowing.

QUARTZ JACKET CLEANING/ REPLACEMENT

1. Disconnect power to vending machine.
2. Shut off the water supply.
3. Remove UV chamber from mounting clamps.
4. Disconnect the lamp connector at the end of the UV chamber and remove lamp from chamber.
5. Remove Quartz Sleeve as follows:
 - a. Unscrew retaining nuts, remove floating spring, and carefully slide sleeve out of UV chamber.
 - b. Clean sleeve with vinegar or some other mild acidic solution, then rinse with water.
 - c. Clean and lubricate O-rings with food grade lubricant or replace with new O-rings.
6. Reinstall Quartz Sleeve in UV chamber as follows. **NOTE:** Be sure no marks or fingerprints are on sleeve or lamp.
 - a. Position sleeve in chamber allowing sleeve to protrude an equal distance at both ends of chamber.
 - b. Slide O-rings onto each end of sleeve.
 - c. Reinstall retaining nuts and floating spring. Note: Hand tighten retaining nuts only.



IMPORTANT: Glass Quartz Sleeve is fragile, hand tighten nuts only.

7. Install UV lamp, lamp connector, and secure UV chamber in mounting clamps.
8. Test the unit by plugging it into the electrical outlet. The indicator light on the side of the housing should glow steadily within a few seconds. If the light does not come on or continue to glow steadily, check lamp electrical connection. Replace lamp if necessary.

9. Turn on water supply and check all connections for leaks. Allow the water to run for a few minutes to clear out any air or dust that may be in the cell.

CLEANING - STERILIZATION **CUSTOMER CONTACT SURFACES**

Cleaning and disinfecting of the customer contact surfaces must conform to state and local codes. However, it is recommended that daily cleaning and disinfecting of the customer contact surfaces be performed.

The customer contact surfaces of the machine are the dispenser housing and nozzle. The following steps outline their cleaning and disinfection procedure.

1. Wash off any dirt or debris in or around the dispenser housing and dispensing nozzle with a mild detergent solution. Rinse with clean water.
2. Spray a chlorine based disinfecting solution at 100 ppm onto the dispenser housing and nozzle. Allow to air dry.

NOTE: Prepare 100 ppm chlorine based cleaning solution as follows:

- Mix one (1) Tablespoon standard household bleach containing 5.25% sodium hypochlorite with one (1) gallon clean R.O. water (or other low TDS water).

NOTE: Stronger more concentrated solutions of chlorine may cause rusting and damage to stainless steel and other components.

PLUMBING

This procedure should be used if a bacterial contamination is suspected in the machine. Bacteria may grow in the machine if it is taken out of service and stored. This growth can sometimes occur in a one to two week period depending upon the conditions. No matter the cause, if you suspect bacterial contamination of a vending machine, this contamination should be eliminated through the following sanitization procedure.

1. The following materials will be needed for the disinfection of the plumbing system.
 - Two (2) 5 gallon pails.
 - 6 to 9 pints of 3% hydrogen peroxide.
2. Obtain potable drinking water in two (2) five gallon pails.
3. Add 3 pints of a 3% hydrogen peroxide solution to the water in each pail.
4. Discard all filters.
5. Disconnect water inlet on rear of unit.
6. Fill all plumbing, filter housings and UV light with disinfection solution by use of gravity or a portable feed pump.
7. Allow the sterilization solution to set for 3 to 12 hours. The longer the time, the greater the killing effectiveness of the sterilization solution.
8. Flush all sterilization solution from machine by reconnecting inlet and holding vend button.



CAUTION: Run sufficient water to ensure total flushing of unit.

9. Install new filters.

Auxiliary RO Product Port Bladder Tank Air Pre-Charge

Check Tank Air Pre-Charge at 6 Months, Minimum

- Step 1. Remove electrical power to unit, (unplug).
- Step 2. Open outlet and drain water from tank.
- Step 3. Measure tank air pressure at Schrader valve. Add compressed air to maintain 25-30 psi. Note: Tank will discharge water when adding air.
- Step 4. Reconnect tank outlet. Restore power.

ELECTRICAL SECTION

TESTING GROUND FAULT CIRCUIT INTERRUPTER (GFCI) DUPLEX RECEPTACLE and POWERCORD

Press test button to trip device. Machine power is interrupted. Press reset button to restore power.

If GFCI fails to trip or reset correctly, **DO NOT USE**. Call a qualified electrician.

ELECTRICAL CONTROL OVERVIEW

Charging cycle (processing water to fill the storage tank):

When water level in the storage tank drops, the upper level switch (LS-4) will drop to its lower position. This provides the PLC an input (via feed pressure switch PS-1) to start the charging cycle.

- 60 second pump off pre-flush. During this time, product (processed) water is diverted into the drain tank via the airgap solenoid valve
- Product tank fill cycle The RO pressure pump starts, airgap solenoid closes, and the product tank fill solenoid valve opens. The pump will not start during a vend, but will wait for the vend to be completed. When the pump is running, water can be vended or dispensed normally and the pressure pump will continue to run.
- 60 second pump off post-flush. During this time, product (processed) water is diverted into the drain tank via the airgap solenoid valve.

Dispensing Cycle

Before water can be vended or dispensed, the following conditions must exist:

1. "NO" water in the bottom of the cabinet (water in cabinet bottom will raise LS-1 leak level switch, resulting in no vending or RO charging cycles.
2. "UV" light must be operating correctly.

Drain Tank

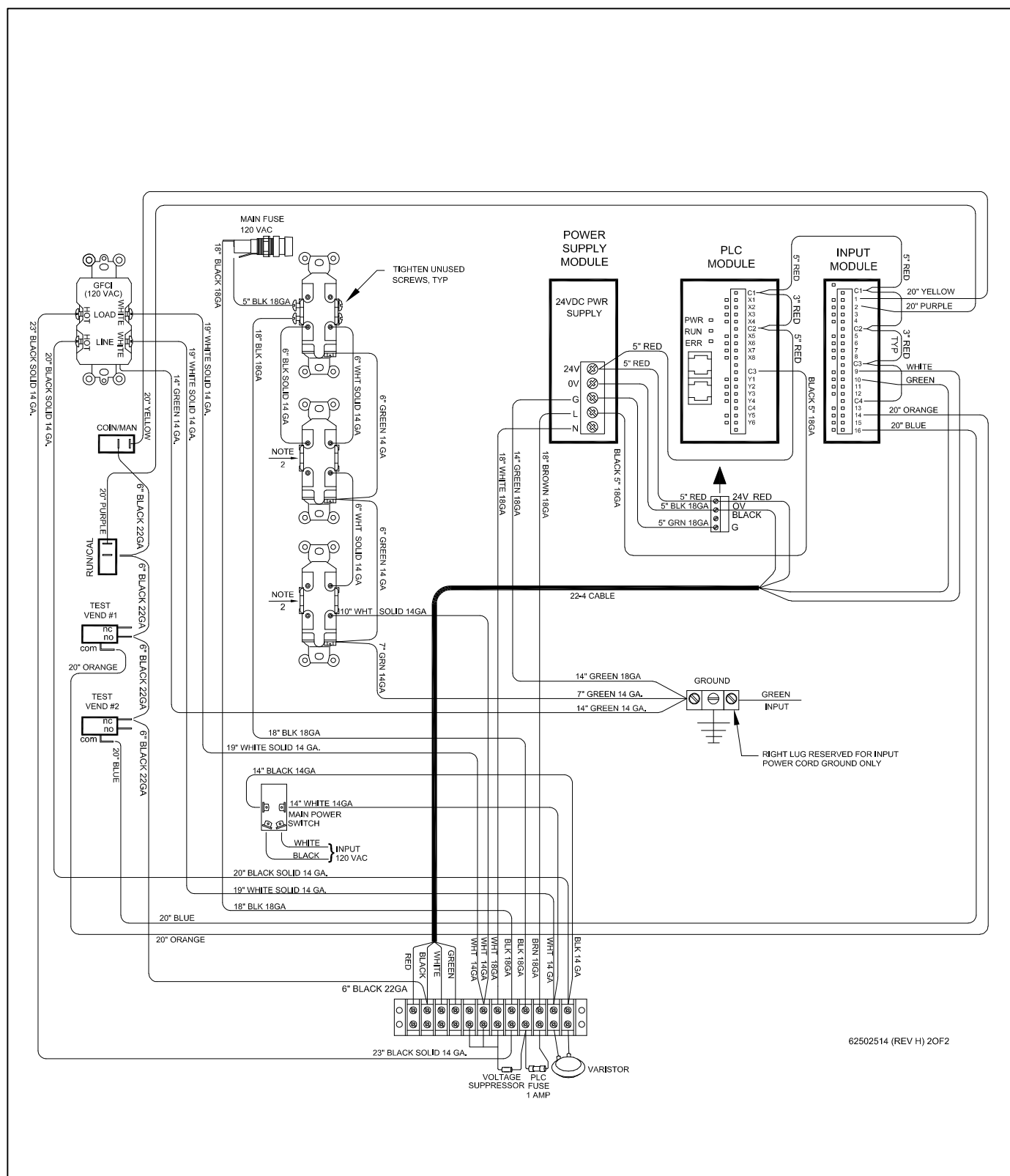
The level switch in the drain tank must be in the raised (up) position for (3) seconds (continuous) to turn the drain pump on. When the float is in the lower (down) for 4 seconds (continuous), the pump will turn off.

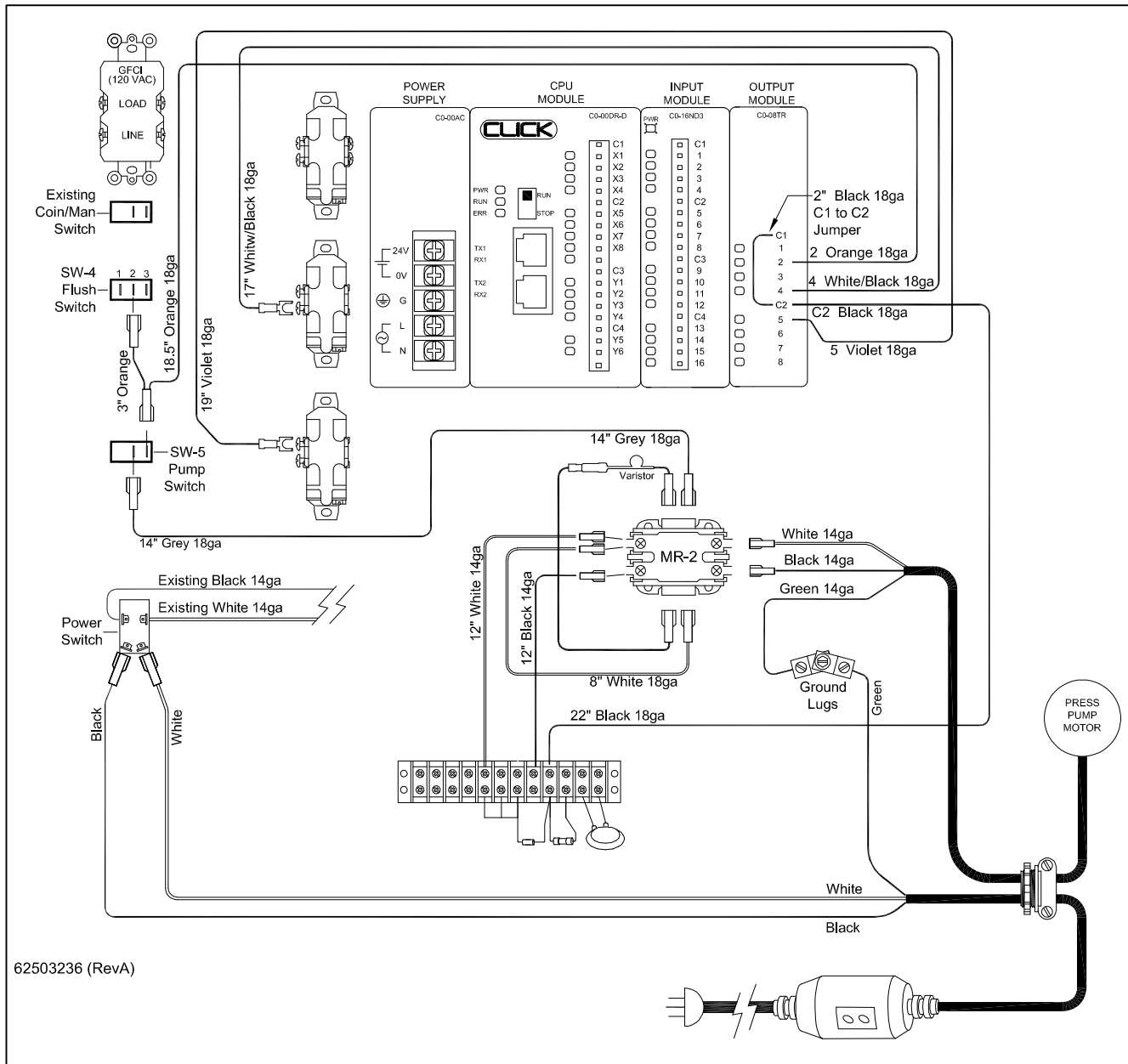
UV Temperature Flush/Tank Recirculation

Product water recirculates through the UV for 6 seconds every 60 minute period in which no water has dispensed keep the water in the tank fresh and reduce the peak temperature of the UV cell. The 60 minute timer will be reset every time water is vended or dispensed.

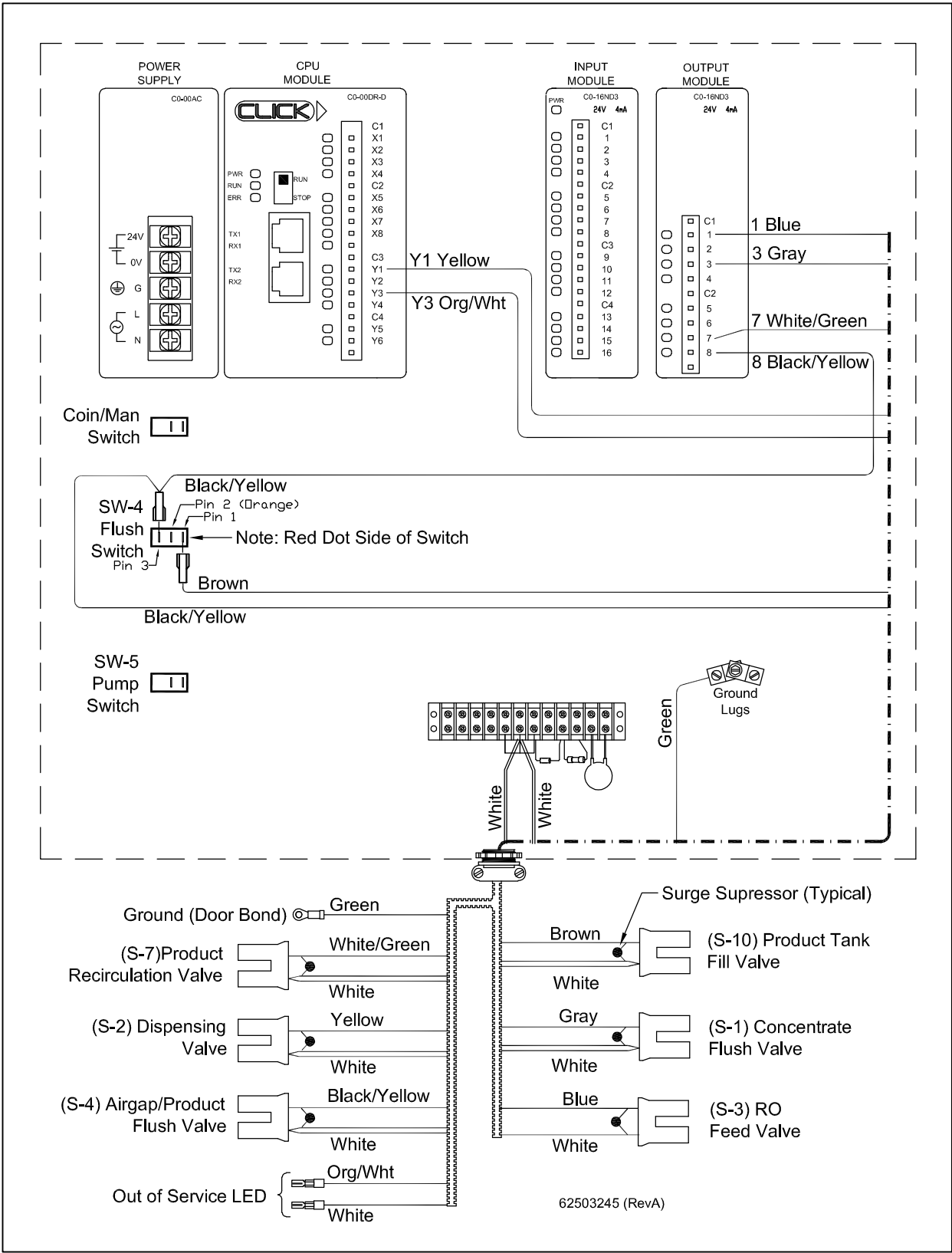
WIRING DIAGRAM

ELECTRICAL BOX



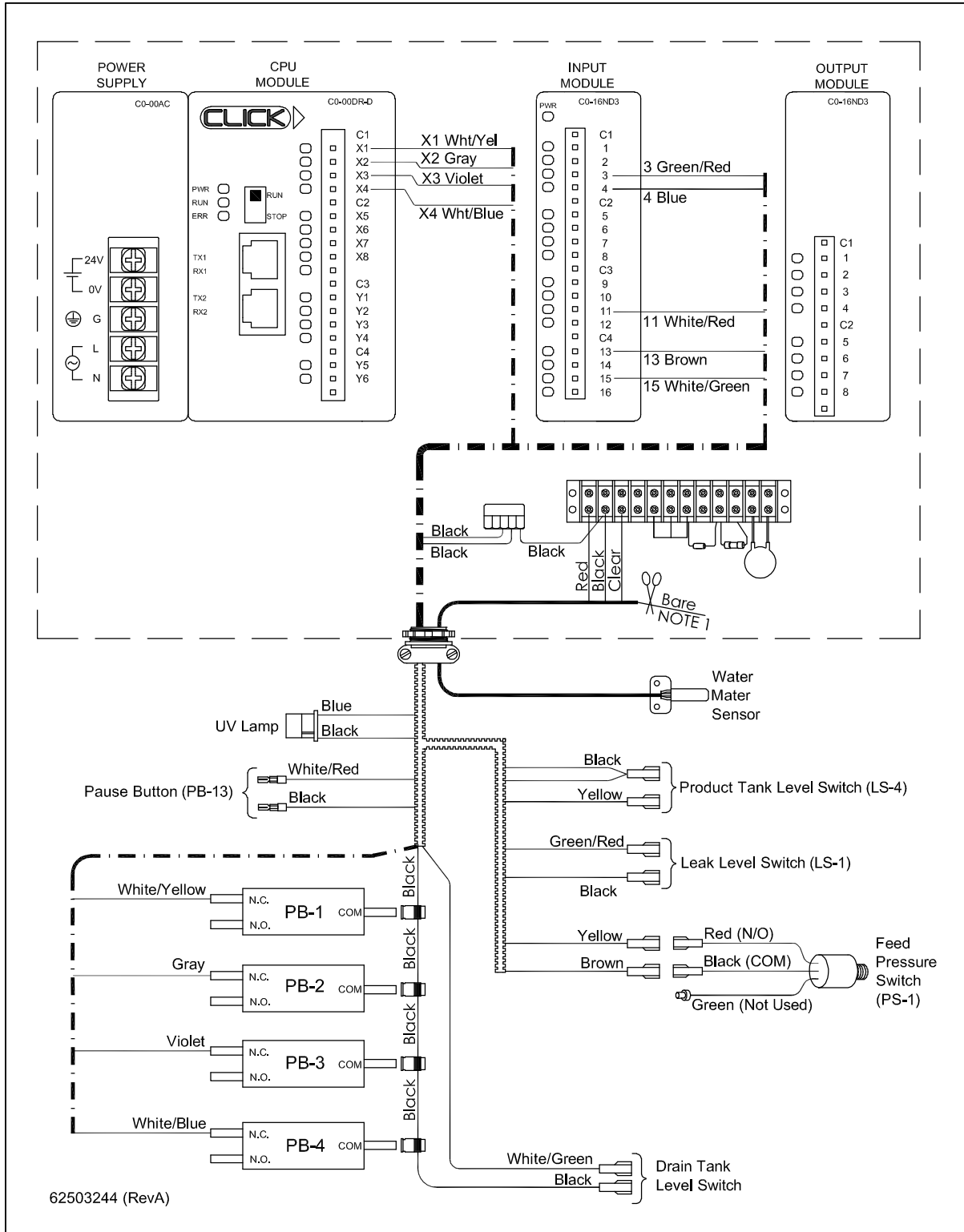


WIRING DIAGRAM
120 VAC HARNESS
(ALL UNITS)



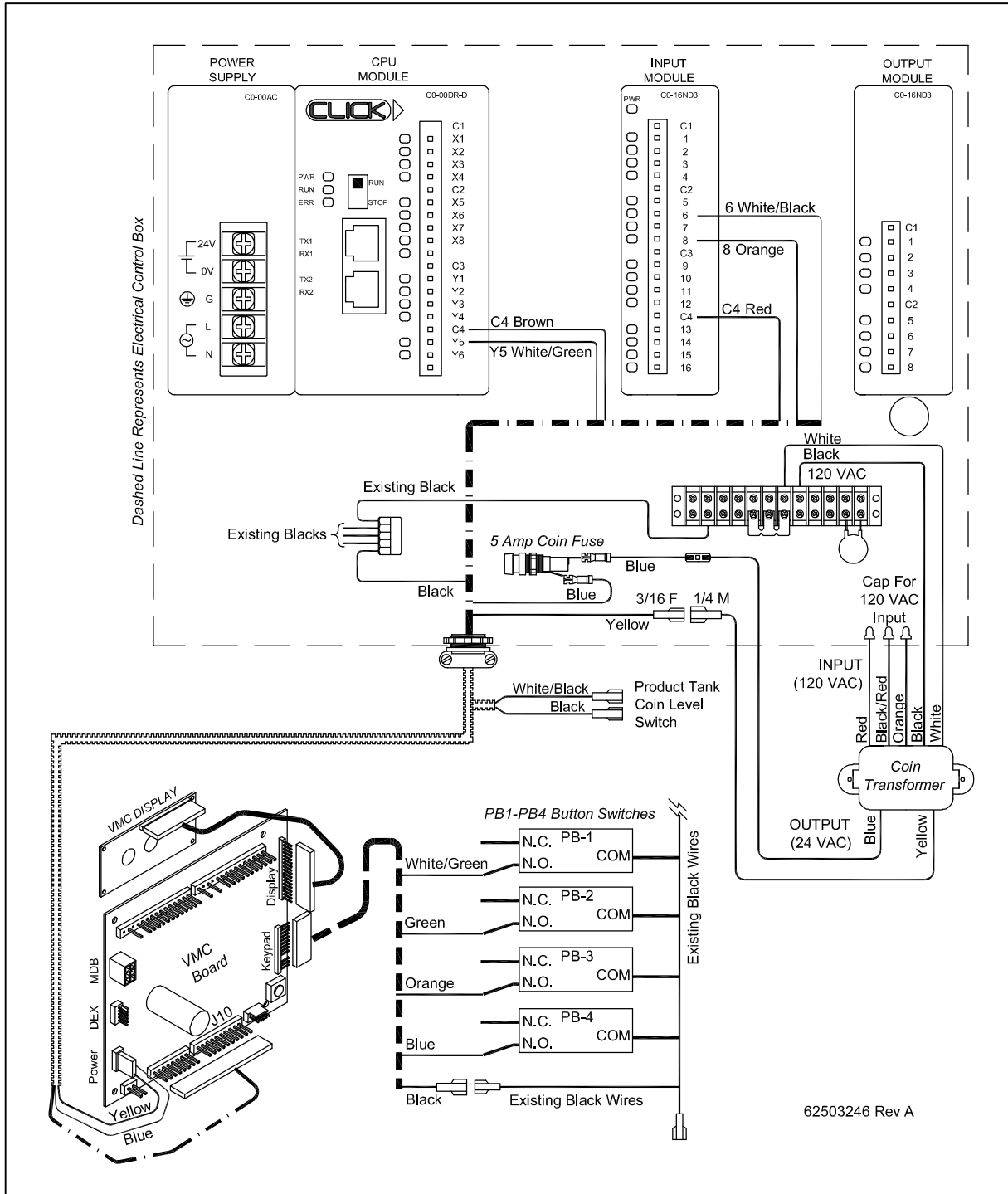
WIRING DIAGRAM

24 V DC HARNESS (ALL UNITS)



WIRING DIAGRAM

4 SELECT COIN MECH HARNESS (COIN MECHANISMS UNITS ONLY)



SOLENOID VALVES

FEED SOLENOID VALVE

1. The solenoid valve will be inoperative if the coil is defective or if no power is reaching the valve. Fix or replace as required.
2. If the valve continues to flow water through it when the machine is disconnected from power, replace the valve.
3. Any dripping fittings should be immediately tightened to avoid a potentially serious leak.

PLASTIC DISPENSER SOLENOID VALVE

1. The dispenser solenoid valve contains no field replacement internal components.
2. The solenoid valve inlet screen protects it from particles. This screen can be cleaned by flushing with clean water.
3. The solenoid valve will be inoperative if the coil is defective or if no power is reaching the valve.
4. Any dripping fittings should be immediately tightened to avoid a potentially serious leak.

MEASURING TDS

When taking a TDS reading, follow the specific instructions included with your meter. The following are general instructions for taking a TDS reading.

1. Rinse a cup with drinking or purified water.
2. Rinse your TDS meter probe with drinking or purified water. Shake off excess water.
3. Fill cup with sample water.

NOTE: In order to sample the feed water, the machine must be in a RO charging cycle. Vending two gallons from the dispenser will place the machine in a charging mode and allow sampling to be completed.

NOTE: When testing RO product water, vend one gallon prior to taking samples.

4. Insert TDS meter probe into sample. Record meter reading on log sheet, if desired.

MEASURING CHLORINE



WARNING: Free Chlorine can damage the reverse osmosis membrane. Feed water free chlorine must be 0 to 0.1 ppm maximum. Carbon filters must be replaced when the residual free chlorine approaches 0.1 ppm. Failure to maintain proper chlorine levels may void your warranty. If the free chlorine level in the supply water is unusually high (greater than 1.0 ppm) additional pretreatment devices may be required.

Typical processes/procedures to measure Free Chlorine. Follow manufacturer instructions for accurate test procedures.

1. Free Chlorine Test Strips:
 - a) Available from many online vendors.
 - b) Typically sold in packages of 50 test strips.
 - c) Purchase test strips with a range of range 0.0-5.0 ppm free chlorine.
 - d) Test strips have a shelf life (expiration date), only purchase a quantity which can be used before they expire)
2. Hach Free Chlorine Color Disc Test Kit
 - a) Available from from many online vendors.
 - b) Considered more accurate than test strips.
 - c) Hach catalog number CN-66F.

CLEANING - SANITIZATION

CUSTOMER CONTACT SURFACES

Cleaning and disinfecting of the customer contact surfaces must conform to state and local codes. However, it is recommended that daily cleaning and disinfecting of the customer contact surfaces be performed.

The customer contact surfaces of the Water Vending Machines are the dispensing chamber and nozzle. The following steps outline their cleaning and disinfection procedure.

1. Wash off any dirt or debris in or around the dispensing chamber and dispensing nozzle with a mild detergent solution. Rinse with clean water.
2. Spray a chlorine based 100 ppm disinfecting solution into the dispensing chamber and nozzle. Allow to air dry.

NOTE: Prepare 100 PPM chlorine based cleaning solution as follows:

- Mix one (1) gallon of clean RO water with one (1) tablespoon of standard household bleach containing 5.25 % sodium hypochlorite.

NOTE: Stronger more concentrated solutions of chlorine may cause rusting and/or damage to stainless steel and other components.

DRAIN TANK

The drain tank can get bacterial growth within a few days. Therefore, a regular cleaning procedure should be completed.

1. Remove drain tank from bracket.

2. Wash, rinse and disinfect internal surfaces using cleaning solutions above.
3. Fill drain tank with a gallon of clean R.O. water to verify prime of drain pump, and proper operation of float switches.

PLUMBING

This procedure should be used if a bacterial contamination is suspected in the vending machine. This contamination may occur when poorly treated water containing a high coliform count is fed into the machine. Although bacteria should not pass through the membrane, bacteria colonies may start to grow on the membrane surface coating it with a slimy film. Bacteria may also grow in the machine if it is taken out of service and stored without sodium metabisulfite membrane preservative. This growth can sometimes occur in little as a one to two week period depending upon the conditions. No matter the cause, if you suspect bacterial contamination of a vending machine, this contamination should be eliminated through the following sanitization procedure.

NOTE: Ideally, the membrane should be cleaned before sanitization. All membranes that have been in use for any period of time will have some degree of fouling. This may mask any attempts for complete sanitization.



WARNING: The temperature of your hydrogen peroxide sanitization solution should not exceed 75° Fahrenheit (24° centigrade) or damage to the membrane may occur.

- Use only drinking (reverse osmosis) water to mix the .2% (by volume) sterilization solution.
- The maximum concentration of hydrogen peroxide (H2O2) that should come in contact with a R.O. membrane is .25% (by volume).
- If an R.O. membrane has been in operation for several months, it should be cleaned with an acid and/or alkaline cleaner before the sterilization procedures are completed.

EQUIPMENT

The following materials will be needed for the disinfection of the vending plumbing system.

- Two (2) 5 gallon pails.
- 6 to 9 pints of 3% hydrogen peroxide.

MIXING INSTRUCTIONS

Vend 4.5 gallons of reverse osmosis water into two five gallon pails.

Add 3 pints of a 3% hydrogen peroxide solution to the water in each pail.

IMPORTANT: Always allow sanitizing solution to remain a minimum of 2 hours to 12 hours. The longer your exposure, the greater your killing time.

A. All Units - Before Next Sanitation Step

1. Empty storage tank.
2. Remove power (unplug unit).
3. Remove and discard ALL sediment and carbon filters.
4. Clean filter housing. Fill with sanitizing solution and replace on unit.

NOTE: Do not install new filters at this point.

C. Storage Tank

1. Open Tank
 - a. Clean any debris from inside of tank.
 - b. Wash and rinse internal tank with a chlorine based disinfectant solution at 100 ppm. Drain chlorine base solution completely.
 - c. Add approximately 5 gallons of hydrogen peroxide sanitizing solution to tank.
 - d. Pump disinfectant solution through system by pushing vend button.
 - e. Allow solution to set in system for 2 to 12 hours. The longer your exposure time the greater the killing effectiveness.
 - f. Pump out all disinfectant solution from tank by holding vend button.
 - g. Install new post carbon filter.

Let machine charge approximately 5 minutes then empty pressure tank by holding selector button to the "on" position, alternating between drinking and purified water option (if included).

Triple rinse tank by repeating above step 3 times.

C. Pump/Membrane Cleaning

1. Line Pressure Series (Open Tank).
 - a. Add 5 gallons premixed sanitizing solution to storage tank. Cleaning tank inside as required.
 - b. Empty prefilters. Discard filters.
 - c. Disconnect the feed line from the outside rear of machine.
 - d. Remove the 3/8" hose from RO output solenoid located after UV light. Connect a hose from RO output solenoid to rear feed port of machine.

- e. Plug in machine.
- f. Vend approx. 3 gallons of tank solution into membrane pressure vessel.

NOTE: Vend pump will cycle on/off during this time.

- g. Remove electrical power (unplug machine).
- h. Allow this sanitizing solution to set for 2 to 12 hours of time. The longer your exposure time the greater the killing effectiveness if the solution.
- i. Reconnect feed (input) and RO output solenoid valve.
- j. Discard all sanitizing solution in tank and filter housings.
- k. Install new sediment and carbon filters.

2. Pressure Pump Systems.

- a. Disconnect the feed and drain (discharge) lines from the outside rear of machine.
- b. Attach a 1/2 inch diameter plastic hose extension (approx. 3') to the feed (inlet) and discharge (drain) ports on rear outside of machine, place the ends of these two hoses in the 5 gallon sanitizing solution. You will be recirculating the solution to your 5 gallon container.
- c. Unhook spade electrical terminals at low pressure input switch located at lower rear corner of machine. Connect with jumper the terminals together.

NOTE: This will temporarily bypass low pressure switch and allow pressure pump to run. Do not allow the 24 VDC terminals to contact metal cabinet or components.

- d. Plug in machine and turn on pressure pump switch.

NOTE: Do not allow pressure pump to run dry. If pump does not prime in 15 - 20 seconds, shut off power. Recheck all hoses, 5 gallon sterilization solution and then retry pressure pump switch.

Recirculate this solution through the reverse osmosis membrane for 15 - 20 minutes.

IMPORTANT: Recirculate at low pressure 50 psi or less.

- e. Remove electrical power (unplug machine).
- f. Allow this sanitizing solution to set for 2 to 12 hours of time. The longer your exposure time the greater the killing effectiveness of the solution.
- g. Discard all sanitizing solution in storage tank and filter housings.
- h. Install new sediment and carbon filters.

COIN MECHANISM

COIN MECHANISM OPERATING FEATURES

NOTE: The coin control board supports 24 volt standard multi-drop bus (MDB) changers with a six (6) pin connector. Contact Coster Water for a correct list of MDB peripherals which have been tested and found to work in conjunction with the Coster 4-Select Electronics Package.

CREDIT ACCUMULATION

Credit acceptance will be disabled when the accumulated credit equals or exceeds the highest price item. Bill acceptance is enabled when the coinage currently held in the changers coin tubes is greater than the bill to be accepted and the correct change light is off.

EXACT CHANGE

"Please Use Exact Change" is displayed when Coin Changer tubes fall below a minimum level. Bill acceptance is not allowed when "Please Use Exact Change" is displayed.

SERVICE MODE

Various Features and Options are accessed through the Service Mode of the Vending Machine Controller, (VMC). The Service Mode is comprised of three functional areas or "Menus":

- System Errors Menu
- Main Menu
- Help Menu (accessed through Main Menu)

ENTERING THE SERVICE MODE

1. Vending machine must be in "Coin Mode" with the power on.
2. Press the round yellow push button on the VMC (See figure 7). An audible "beep" signals the service mode has been accessed. Either the System Errors Menu (If system errors are present) or the Main Menu (if no errors are present) will be displayed.

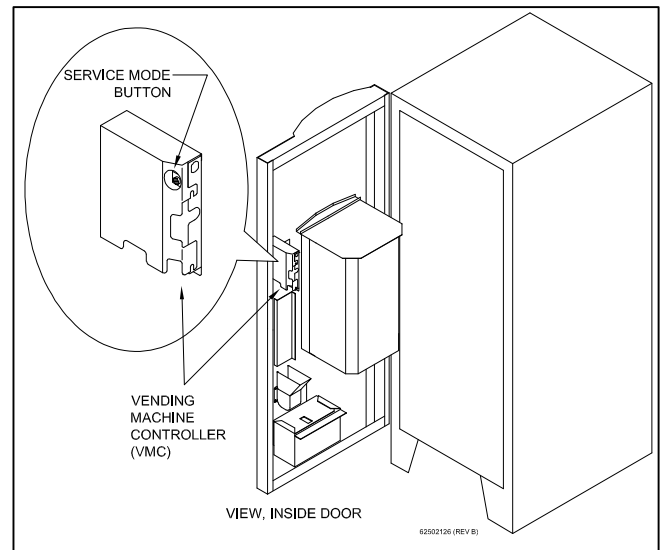


FIGURE 7

SERVICE MODE NAVIGATION

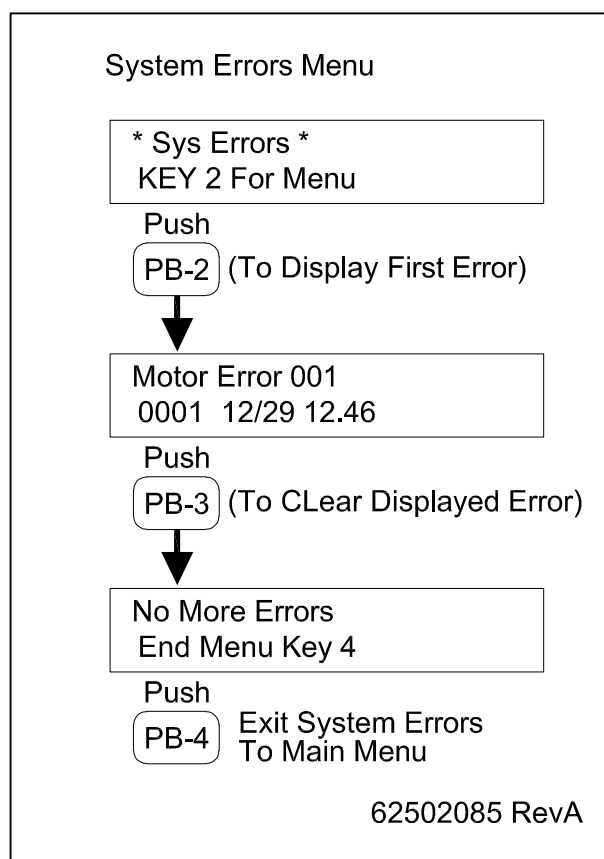
The front push buttons are used to navigate (or scroll) through the service mode.

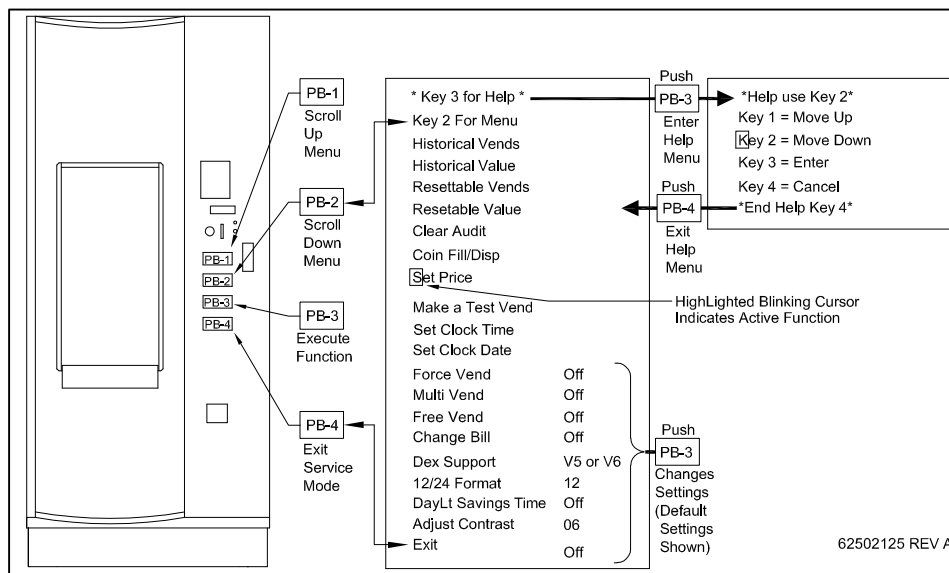
- PB-1** (Selection Push Button #1) = KEY 1 = "Scroll UP" in screen menu
- PB-2** (Selection Push Button #2) = KEY 2 = "Scroll DOWN" in screen menu
- PB-3** (Selection Push Button #3) = KEY 3 = "Execute" Function
- PB-4** (Selection Push Button #4) = KEY 4 = "Cancel" / exit service mode

SYSTEM ERRORS MENU:

Displayed only if System Errors are present. Note: Displayed errors will list error type, date, and time the error was detected.

1. Record (write down) all errors before to aid in future troubleshooting.
2. Clear each displayed error by pushing PB-3. Note: Errors which are not cleared will again be displayed next time the service mode is entered. In the case of Motor Errors, any "locked out" selection buttons will remain locked out.





SETTING PRICE

1. Enter Service Mode.
2. Scroll through menu to "Set Price", push "PB-3"
3. Push desired selection button for price change.
4. Change price as follows:
 - a. PB-1 = Increases Price
 - b. PB-2 = Decreases Price
 - c. PB-3 = Saves Price change.
 - d. PB-4 = Cancels Price change.

MAKE A TEST VEND

1. Enter Service Mode.
2. Scroll through menu to "MAKE A TEST VEND", push "PB-3"
3. Push desired selection button for Test Vend.
4. Unit will;
 - a. Start Vending if all conditions are OK.
VMC automatically returns to Main Menu.
 - b. Display Sold Out, which indicates a component needs repair.

COIN FILL/DISPENSE

1. Enter Service Mode.
2. Scroll through menu to "Coin Fill/Disp", push "PB-3"
3. Select coin type to be dispensed.

Note: Some Coin Changers feature coin dispense buttons, allowing coin dispensing without entering the service mode.

SET CLOCK TIME/CLOCK DATE

1. Enter Service Mode.
2. Scroll through Main Menu to "Set Clock Time" or "Set Clock Date" Push "PB-3".
3. Change Clock Time or Date::
 - a. PB-1 = Increases Time/Date parameter
 - b. PB-2 = Decreases Time/Date parameter.
 - c. PB-3 = Scrolls to next parameter to change.
 - d. PB-4 = Cancels Changes, returns to Main Menu.

ADJUST CONTRAST

1. Enter Service Mode.
2. Scroll through menu to "Adjust Contrast" Push "PB-3".
3. Adjust Contrast
 - a. PB-1 = Increase Contrast (Lighter Display).
 - b. PB-2 = Decrease Contrast (Darker Display).
 - c. PB-3 = Save Contrast Setting.

Important: Do not save (Push PB-3) when the display is either too dark or too light to read. To adjust or recover from an unreadable contrast display setting:

1. Enter The Service Mode (1 Audible Beep).
2. Press PB-2 Eighteen Times (18 Audible Beeps).
3. Press PB-3 One Time (1 Audible Beep).
4. Press PB-1 To Increase Contrast (Lighter Display) or PB-2 to Decrease Contrast (Darker Display) as required.

Note:

1. The VMC has a battery backup and retains the correct time when power is removed. If correct time is not retained, replace battery.
2. **Important:** Correct time setting is required for accurate DEX function reports.

ACCOUNTABILITY

1. Enter Service Mode.
2. Scroll through Menu to desired accounting parameter, push PB-3.
 - a. Historical Vends: Total Number of paid vends.
 - b. Historical Value: Total Value of paid vends.
 - c. Resettable Vends: Number of paid vends since "Clear Audit" was last used.
 - d. Resettable Value: Value of paid vends since "Clear Audit" was last used.
 - e. Clear Audit: Clears Resettable Vends and Resettable Value simultaneously
3. VCM will;
 - a. Display Vend, Value Count, or
 - b. Clear Resettable Vends and Resettable Value.

VEND OPTIONS

FORCE VEND OPTION

Default Setting: **Off**

When "Off", (disabled) this option allows the customer to return coins using the coin return button without first attempting a vend selection.

Note: When the "force vend" option is "Off", (disabled) it will allow your machine to be used as a bill changer (i.e. customer inserts bills into acceptor, presses the "coin return button", and gets coins in return with out making a selection.) This may cause your coin tubes to be prematurely depleted.

When "Force Vend" is "On" (enabled) the customer must attempt a selection before coins will be returned. Force vend does not apply to credit from card reader.

MULTI-VEND OPTION

Default Setting: **Off**

Prevents automatic credit return following a successful vend. Remaining credit is shown on the display, and the customer can add credit, make a selection, or return credit using Coin Return button.

FREEVEND OPTION

Default Setting: **Off**

When "Free Vend" is "On", (enabled) all selection buttons will vend without the customer establishing credit. "Free Make Selection" will be displayed and all credit acceptance will be disabled.

Note: Setting an individual selection button price to "0" (Zero), will enable that selection button to vend without establishing credit (Free).

CHANGE BILL OPTION

Default Setting: **Off**

When "Change Bill" is "On", Bill credit will be returned as coins.

Note: This allows the unit to be used as a Bill Changer, which may deplete coin tube inventory below minimum levels, causing "Please Use Exact Change" to be displayed

DEX SUPPORT OPTION

Default Setting: **V5 Or V6**

Only used if a DEX reporting device (optional) is connected to VMC. Setting may vary.

12/24 FORMAT

Default Setting: **12**

This option changes the Clock Setting between 12 and 24 hour formats.

DAYLIGHT SAVINGS TIME

Default Setting: **Off**

When "Daylight Savings Time" is "On", automatic USA Daylight Savings Time correction is enabled.

Vending Machine Controller Error Codes

| ERROR NAME | ORIGIN | RESOLUTION |
|------------------|---|--|
| BV Check Sum | Bill Validator: internal problem has occurred in the firmware. | Repair or replace bill validator. |
| BV Communication | Bill Validator, VMC, or cabling: communications between VMC and validator stopped unexpectedly. | Ensure cabling between VMC and validator is secure, with no broken wires. In unusual cases, bill validator or VMC may need to be replaced. |
| BV Jammed Bill | Bill Validator: a bill has jammed in the acceptance path. | Remove the jammed bill. |
| BV Motor | Bill Validator: one of the motors has failed. | Repair or replace bill validator. |
| BV Open Box | Bill Validator: cash box was removed while the machine door was closed. | Ensure that the cash box is firmly seated on the validator. Check that the main door switch is connected properly to the VMC. Ensure that the machine door switch is not stuck closed. |
| BV Sensor | Bill Validator: one of the sensors has failed. | Repair or replace bill validator. |
| BV Stalker Full | Bill Validator: cash box is full. | Empty the cash box. |
| CC Check Sum | Coin Mech: internal problem has occurred in the firmware. | Repair or replace coin mech. |
| CC Communication | Coin Mech, VMC, or cabling: communications between VMC and coin mech stopped unexpectedly. | Ensure cabling between VMC and coin mech is secure, with no broken wires. In unusual cases, coin mech or VMC may need to be replaced. |
| CC Jammed Tube | Coin Mech: a payout tube has jammed. | Check for coin jams. On mechs with removable cassettes, ensure that the cassette is seated properly. |
| CC Sensor | Coin Mech: one of the payout tube sensors is behaving abnormally. | Repair or replace coin mech. |
| CC Unplugged | Coin Mech: the acceptor module seems to be missing. | Repair or replace coin mech. |
| CR Card Error | Card Reader: the payment media is defective. | This is an informational message; the problem may be limited to one particular card. |
| CR Communication | Card Reader, VMC, or cabling: communications between VMC and card reader stopped unexpectedly. | Ensure cabling between VMC and card reader is secure, with no broken wires. In unusual cases, card reader or VMC may need to be replaced. |
| CR Invalid Card | Card Reader: payment media problem. | This is an informational message; the problem may be limited to one particular card. |
| CR Jammed Card | Card Reader: payment media has jammed inside the reader. | Clear the jam. |
| CR Service Soon | Card Reader: reader device requires maintenance. | Perform maintenance as recommended by reader's manufacturer. |
| CR Tamper | Card Reader: a security breach has been detected. | This is an informational message. |
| Motor Error (s) | VMC: A selection button problem detected, disabling button. Defective or miss adjusted input pressure switch. PLC inside electrical box maybe defective | Clear (Reset) motor error (Use PB-3 in Service Mode) Use "Test Vend" to verify and test operation |
| Stuck Key | VMC: A selection button or keypad key has been depressed for an abnormally long time. | Repair or replace selection button or machine keypad. |

TROUBLE SHOOTING GUIDE

The trouble shooting section is comprised of information tables detailing PLC indicator LED's and tables listing general trouble shooting information. Use caution when accessing PLC indicator LED's inside the electrical control box due to electrical

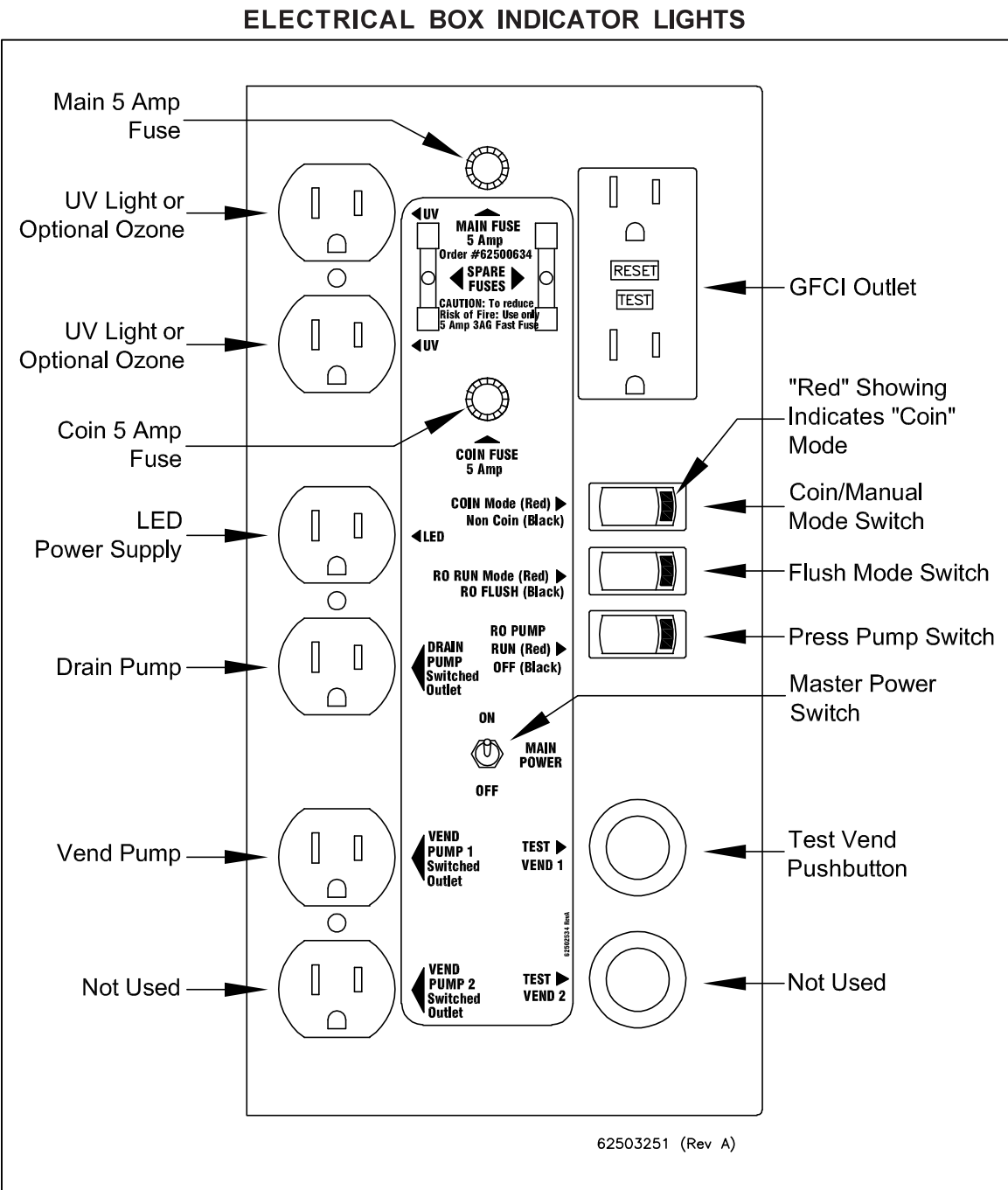


FIGURE 8

PLC INDICATOR LIGHTS

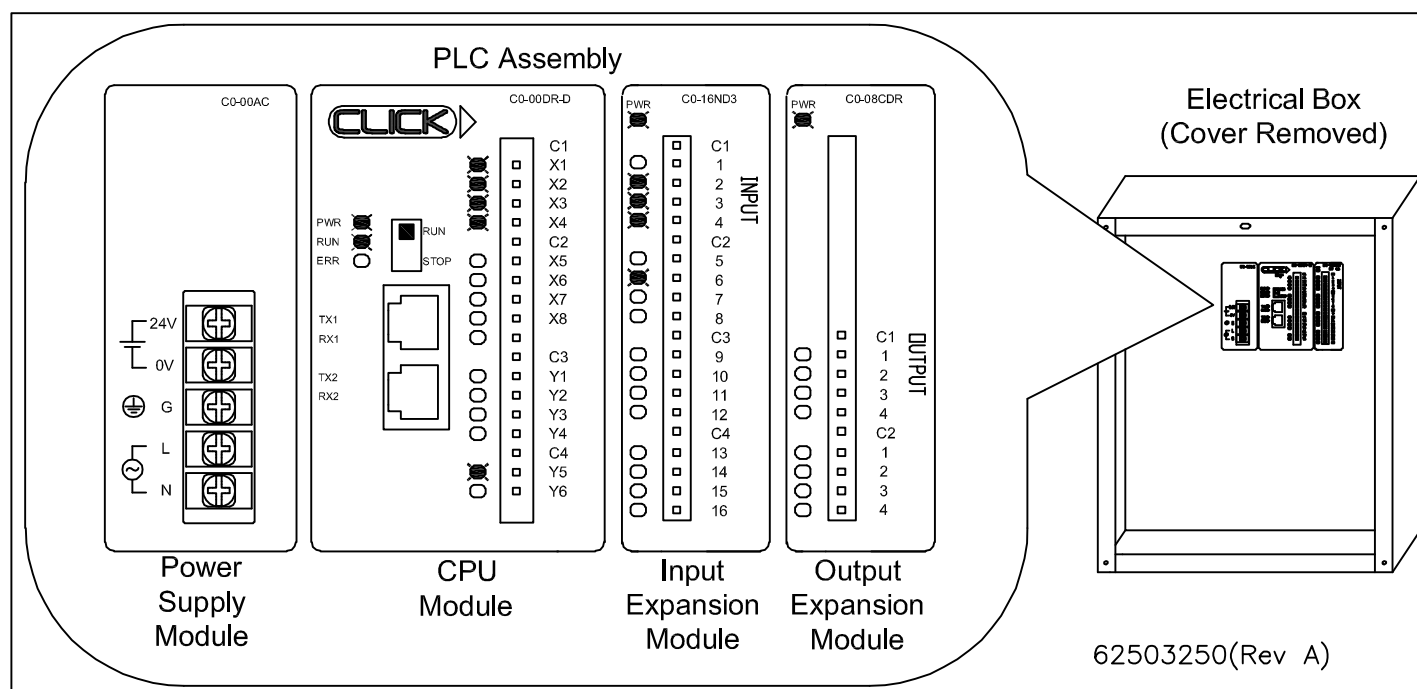


Figure 9

1. Refer to Figure 9 and PLC LED indicator status tables.
2. Figure 9 illustration represents normal LED status when:
 - a) Machine is *not* vending water
 - b) RO system is *not* charging
 - c) PLC is in "RUN" mode
 - d) RUN/CAL switch is in "RUN" position

| CPU Module | | | |
|---------------|---|--|---|
| Indicator LED | "ON/OFF" Status (Bold Text indicates Normal Status) | | Correction |
| PWR | ON | Power to PLC Module OK. | Normal Status |
| | OFF | No power to PLC Module | a) Power Switch off b) GFCI tripped c) check 120vac to Power Supply Module d) check 24vdc power to CPU module |
| RUN | ON | PLC Run/Stop switch is in "RUN" position | Normal Status |
| | OFF | PLC Run/Stop switch is in "STOP" position | Place switch in "RUN" position |
| ERR | ON | No faults in PLC Module | Normal Status |
| | OFF | Faults/Errors in PLC Module | Replace PLC module |
| X1 | ON | PB-1 Selection Button (not pushed) | Normal Status |
| | OFF | PB-1 Selection Button pushed/jammed | a) button is pushed b) button is jammed c) switch is jammed or defective d) replace button and switch |
| X2 | ON | PB-2 Selection Button (not pushed) | Normal Status |
| | OFF | PB-2 Selection Button pushed/jammed | a) button is pushed b) button is jammed c) switch is jammed or defective d) replace button and switch |
| X3 | ON | PB-3 Selection Button (not pushed) | Normal Status |
| | OFF | PB-3 Selection Button pushed/jammed | a) button is pushed b) button is jammed c) switch is jammed or defective d) replace button and switch |
| X4 | ON | PB-4 Selection Button (not pushed) | Normal Status |
| | OFF | PB-4 Selection Button pushed/jammed | a) button is pushed b) button is jammed c) switch is jammed or defective d) replace button and switch |
| X5 | N/A | Not Used | N/A |
| X6 | N/A | Not Used | N/A |
| X7 | N/A | Not Used | N/A |
| X8 | N/A | Not Used | N/A |
| Y1 | OFF | Dispensing Solenoid Valve closed | Normal Status |
| | ON | Dispensing Solenoid Valve open | If valve is not open: a) check 120vac power to valve b) replace valve |
| Y2 | N/A | Not Used | N/A |
| Y3 | OFF | Out of Service LED "OFF" (machine operating correctly) | Normal Status |
| | ON | UV not operating (UV bulb not illuminated) | a) replace UV lamp b) replace UV ballast/controller |
| | | Leak Level Switch activated (water in bottom of cabinet) | remove water from bottom of cabinet |
| | | Stuck or Jammed selection button | check buttons and switches, replace if necessary |
| | | Water Meter Sensor failed (Out of Service Light will "Lock On". Cycling 120v power will temporarily turn light "OFF" but will illuminate and "Lock On" after one vend cycle) | check for blinking sensor input when water is dispensing, replace sensor and/or water meter if not blinking during vend |
| Y4 | N/A | Not Used | N/A |
| Y5 | OFF | COIN/MAN switch is in "MAN" position | Normal Status for "Non-Coin" machines |
| | ON | COIN/MAN switch is in "COIN" position | Normal Status for "Coin Operated" machines |
| | | Note: Y5 LED will momentarily transition from "ON" to OFF", then back "ON" to reset Coin VMC at start of a vend in coin operated machines | |
| Y6 | N/A | Not Used | N/A |

| Input Expansion Module | | | |
|------------------------|--|--|--|
| Indicator LED | Status (Bold Text indicates Normal Status) | | Correction |
| PWR | ON | Power to Input Expansion Module OK. | Normal Status |
| | OFF | No power to Input Expansion Module | a) Power Switch off b) GFCI tripped c) check 120vac to Power Supply Module d) check 24vdc power to CPU module |
| 1 | OFF | COIN/MAN Switch is in "MAN" position | Normal position for "Non-Coin" operated machines |
| | ON | COIN/MAN Switch is in "COIN" position | Normal position for "Coin Operated" operated machines |
| 2 | OFF | RUN/CAL Switch is in "RUN" position | Normal operating position |
| | ON | RUN/CAL Switch is in "CAL" position | Only "ON" in calibrate position |
| 3 | ON | Leak Level Switch is in lower/bottom position | Normal Status |
| | OFF | Leak Level Switch is in upper/raised position | Check for water in bottom of cabinet, replace level switch is necessary |
| 4 | ON | UV Vend circuit, UV operating correctly | Normal Status |
| | OFF | UV lamp not operating | Replace UV lamp and/or ballast controller |
| 5 | N/A | Not Used | N/A |
| 6 | OFF | Not used in "Non-Coin" machines | Normal Status |
| | ON | Coin Operated machines: product storage tank has adequate water level | Normal Status |
| | OFF | Coin Operated machines: Product storage tank low water level | LED will transition "ON" when storage tank level is above 5 gallons |
| | | Coin Operated machines: Lower Coin Level switch defective | Replace switch |
| 7 | N/A | Not Used | N/A |
| 8 | OFF | Non-Coin operated machines: Not Used | Normal Status |
| | OFF | Coin Operated machines: Normally "OFF", but will momentarily transition to "On" at start of a vend | Momentarily transition to "ON" resets VMC in coin operated machines |
| 9 | OFF | Water meter sensor LED may be OFF or ON | check for blinking sensor input when water is dispensing, replace sensor and/or water meter if not blinking during vend |
| | ON | | |
| 10 | N/A | Not Used | N/A |
| 11 | OFF | Pause Button, not pushed | Normal Status |
| | ON | Pause Button pushed | if LED is "ON" but button is not pushed, button/switch is defective, replace |
| 12 | N/A | Not Used | N/A |
| 13 | OFF | RO Start signal, RO system OFF, (not calling for water or in charging cycle) | Normal Status when product storage tank is full |
| | ON | RO Start signal, RO system ON or calling for water | if LED is not "ON" and storage tank is "NOT" full: a) check feed water supply pressure b) check upper level switch in product storage tank |
| 14 | OFF | Test Vend Button #1 (not pushed) | Normal Status |
| | ON | Test Vend Button #1 (pushed or jammed) | Replace switch |
| 15 | OFF | Test Vend Button #2 (not pushed) | Test Vend Button #2 is wired (connected), but not used in 4 select machines |
| | ON | Test Vend Button #2 (pushed or jammed) | |
| 16 | N/A | Not Used | N/A |

| Output Expansion Module | | | |
|-------------------------|--|---|--|
| Indicator LED | Status (Bold Text indicates Normal Status) | | Correction |
| PWR | ON | Power to Output Expansion Module OK. | Normal Status |
| | OFF | No power to Output Expansion Module | a) POWER Switch off b) GFCI tripped c) check 120vac to Power Supply Module d) check 24vdc power to CPU module |
| 1 | OFF | RO Feed Supply Solenoid closed | Normal Status |
| | ON | RO Feed Supply Solenoid open | If valve is not open: a) check 120vac to valve b) replace valve |
| 2 | OFF | RO Pressure Pump off | Normal Status |
| | ON | RO Pressure Pump on | If pump is not running: a) check pressure pump switch b) check/replace MR-2 motor contactor c) check 120vac power to motor |
| 3 | OFF | S3 Concentrate Flush Solenoid Valve closed | Normal Status |
| | ON | S3 Concentrate Flush Solenoid Valve open | If valve is not open: a) check 120vac power to valve b) replace valve |
| 4 | OFF | Drain Pump off | Normal Status |
| | ON | Drain Pump on | If pump is not running: a) verify pump cord is plugged into receptacle marked "Drain Pump" b) check 120vac power at receptacle marked "Drain Pump" c) replace pump |
| 5 | OFF | Vend Pump off | Normal Status |
| | ON | Vend Pump on | If pump is not running: a) verify pump cord is plugged into receptacle marked "Vend Pump 1" b) check 120vac power at receptacle marked "Vend Pump 2" c) replace pump |
| 6 | N/A | Not Used | N/A |
| 7 | OFF | S7 Product Recirculation Solenoid Valve closed | Normal Status |
| | ON | S7 Product Recirculation Solenoid Valve open | If valve is not open: a) check 120vac power to valve b) replace valve |
| 8 | OFF | S4 Product Flush Solenoid (Airgap) Valve closed | Normal Status |
| | ON | S4 Product Flush Solenoid (Airgap) Valve open | If valve is not open: a) check "Flusk Rocker Switch" position b) check 120vac power to valve c) replace valve |

| GENERAL TROUBLE SHOOTING | | |
|---|--|---|
| Refer to PLC LED indicator status tables and Figure 9 for detailed information on PLC Inputs and Outputs status and trouble shooting. | | |
| PROBLEM | CAUSE | CORRECTION |
| Machine will not power up | Circuit Breaker tripped | Locate circuit breaker box, reset appropriate breaker |
| | Power Cord GFCI tripped | Push reset |
| | GFCI Receptacle tripped | Push reset |
| | Main Power Switch "OFF" | Turn on main power switch |
| Main 5 amp fuse blown | Voltage Suppressor (TVS) shorted (refer to Electrical Box wire diagram for location on terminal strip) | Replace TVS. Note: TVS is designed to short/fail in the event of a power surge or lightning strike, which in turn blows main 5 amp fuse. The Main 5 amp fuse will continue to blow if the TVS is not replaced. DO NOT OPERATE THE MACHINE WITHOUT THE TVS INSTALLED. |
| | Internal electrical short in machine | Consult qualified electrician to identify/troubleshoot possible shorted component or wiring |
| Coin 5 amp fuse blown | Coin transformer shorted or failed (mounted from bottom of electrical control box) | Replace transformer |
| Power Cord or Duplex Receptacle GFCI tripped | nuisance tripping | Reset GFCI; press test button, and reset again to ensure correct & safe operation |
| | Shorted electrical component or wiring | Consult qualified electrician to identify and troubleshoot problem |
| RO System will not start/charge | PLC Input Expansion Module #13 LED is NOT "ON" | Product storage tank upper level switch SW-4 failed, replace |
| | | RO Feed Pressure Switch PS-1 failed, replace |
| RO Pressure Pump Motor will not start/run | Pressure Pump Switch in "OFF" position | Turn pump switch on |
| | Failed/Siezed pressure pump (prevents motor from starting) | Replace pump |
| | Failed motor | Replace motor |
| | Failed MR-2 Motor Contactor/Relay | Replace MR-2 Relay |
| RO Pressure Pump noisy (buzzing sound) | Pre-Filters plugged | Replace filters |
| | Feed Manifold Strainer plugged | Disassemble manifold and clean screens |
| RO Membrane low or no product water production (RO pressure pump operating at correct pressure) | Fouled/Scaled RO membrane | Replace membrane |
| RO system operating pressure excessive | T-Handle pressure valve incorrectly adjusted | Adjust valve (Refer to Flushing/Charging) |
| | Fouled/Scaled RO membrane | Replace membrane |
| RO System low/no operating pressure | T-Handle regulating valve failed | Replace valve |
| | RO Pressure Pump failed/damaged | Replace Pump |

| GENERAL TROUBLE SHOOTING (continued) | | |
|---|--|---|
| RO Feed Solenoid Valve will not close, even when main power switch is "OFF" | Valve body has corroded and continues to bypass water even when not powered | Replace valve |
| Dispenser Nozzle stream spraying (not uniform flow) | Nozzle strainer dirty, has debris obstructing flow | Clean screen. DO NOT OPERATE MACHINE WITHOUT NOZZLE SCREEN. |
| Vend Pump will not start | Vend Pump Power Cord Unplugged | Plug cord into receptacle marked "Vend Pump 1" |
| | Verify PLC Output Expansion Module indicator LED #5 is "ON" during vend cycle | If indicator LED #5 is "ON", replace vend pump |
| Drain Pump will not start | Drain Pump Power Cord Unplugged | Plug cord into receptacle marked "Drain Pump" |
| | Verify PLC Output Expansion Module indicator #4 is "ON" when drain tank water level is above "drain tank level switch" | If indicator LED #4 is "OFF", replace drain tank level switch |
| | | If indicator LED #4 is "ON", replace drain pump |
| Drain Pump runs but will not pump | Pump intake screen inside drain tank plugged | Drop drain tank from dispenser and clean screen |
| | Pump internal check valve fouled with debris or slime | Disassemble pump and clean pump internals or replace pump |
| UV Lamp not "ON" | UV Power Cord Unplugged | Plug cord into receptacle marked "UV Light" |
| | UV Lamp failed/burned out | Replace UV lamp |
| | UV Ballast/Controller failed | Replace UV Ballast/Controller |
| Long/Short or inconsistent vend volumes | Water Meter Sensor failed | Replace sensor |
| | Water Meter failed/damaged | Replace water meter |
| Coin Changer no coin acceptance (Coins drop to coin return cup) | Out of Service light "ON" | Refer to PLC troubleshooting tables for "out of service" |
| | Coin Jam in Coin Changer Discriminator/Acceptoy (upper portion of coin changer) | Remove coin changer assembly and inspect/clear coin jam |
| | Coin Changer failed | Replace coin changer |
| Bill Validator no bill acceptance | Coin Changer inventory tubes low | Completely fill coin tubes, then cycle power (coin changer will perform tube inventory) |
| | Bill Validator jammed | Clean bill validator, remove any debris from transport mechanism |
| | Bill Validator failed | Replace validator |
| Select Button "Sold Out" | System Motor Errors set in VMC | Clear "System Errors", refer to "System Error Clearing in coin mech section" |

SERVICE PARTS

It is the policy of Coster Water to constantly improve its products whenever it is practical to do so.

Coster Water must therefore reserve the right to redesign or change its equipment or component parts thereof without incurring the obligation to install or furnish such changes on equipment previously delivered.

INSTRUCTIONS FOR ORDERING PARTS

1. The reference numbers in the illustrations correspond to the numbers shown in the "Reference Number" column in the parts listing. The quantity in the "number required" column is the number of parts used in the accompanying illustration. The term "A/R" for number required indicates "as required" where the quantity may vary. Order all parts by their part number and description.
2. Always mention the identification number of the code and serial numbers found on the name plate of the unit on which the part is to be used. Much delay and confusion can be avoided when correct numbers are specified on parts order and correspondence.
3. Owner, order all parts through your local dealer.
4. Dealers must indicate how to ship; whether by truck, rail freight, express, or parcel post.
5. Collect phone calls are not accepted.
6. Address all orders for parts as follows:

Coster Water
Corporate
217 E Plum Steet
Mankato, MN 56001
costerwater.com

INSTRUCTIONS FOR RETURNING PARTS FOR ADJUSTMENT

1. To assure prompt handling of claims, your dealers should follow standard claim and forward claim procedures within thirty (30) days, of any part failure or malfunction believed to be a warranty claim.
2. No returned part will be accepted unless they are transportation prepaid and accompanied by the packing list, copy of the returned goods authorization form, or the packing list copy of the warranty claim form.
3. Parts returned should have a tag attached with sender's name and address clearly printed.

DISCLAIMER

This supplement contains additional information that is specific to units. It is used in conjunction with the basic machine operator's manual which includes safety and operational information.

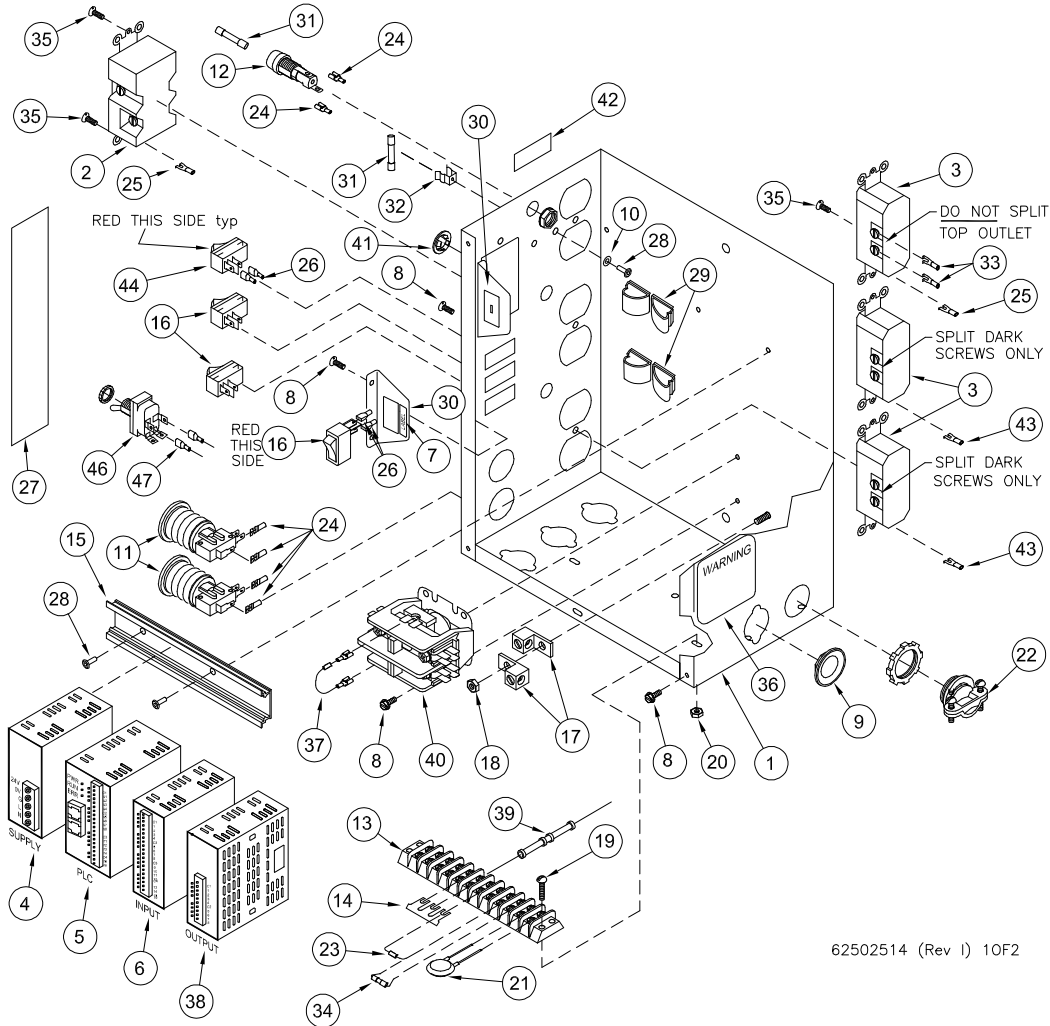
Retain all manuals for future reference. Read all and understand all manuals in their entirety before operation or service.

The information contained in this manual is subject to change without notice.

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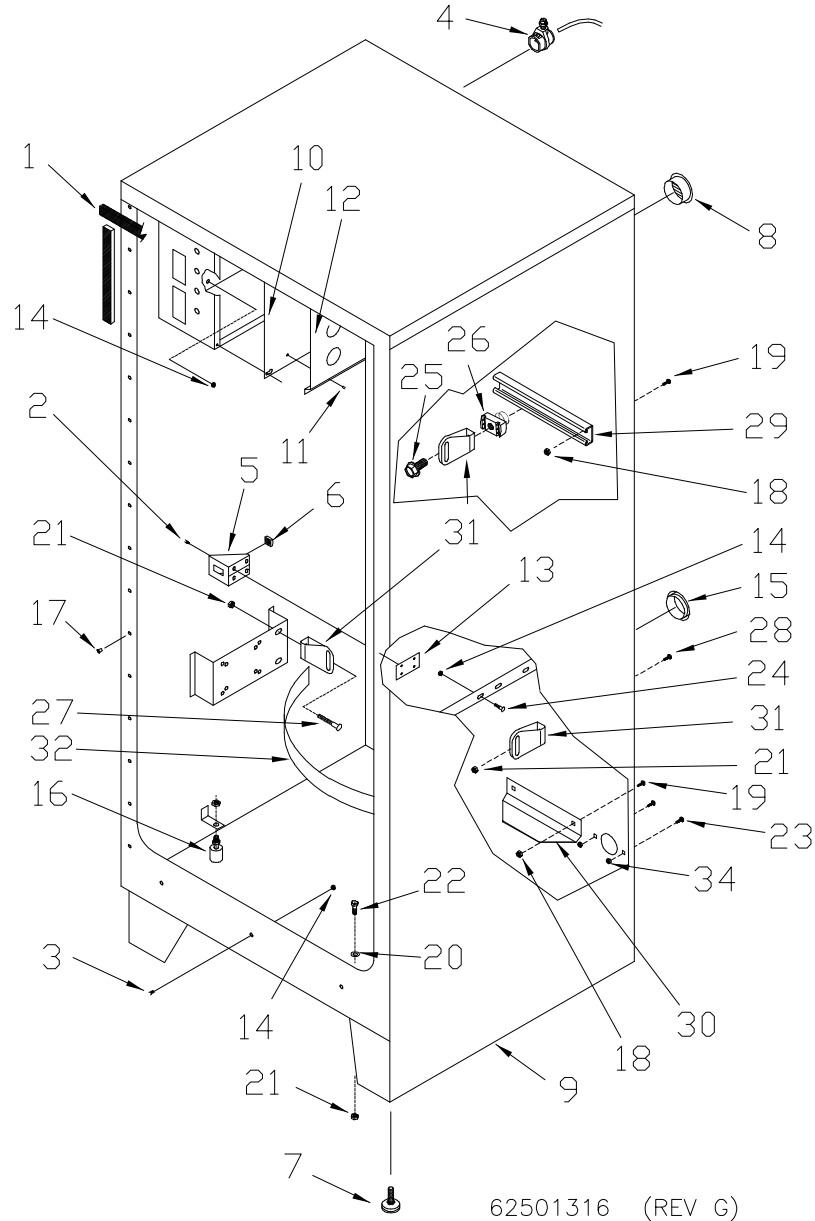
Coster Water
Production Warehouse
201 East Street S
Vernon Center, MN 56090

ELECTRICAL BOX COMPONENT LOCATION



| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|----------|-------------|--|------|
| 1 | 62502525 | Assembly, Dual Electrical Box | 1 | 25 | 62502962 | Terminal, Spade #10 16-14 Ga. | 2 |
| 2 | 625-004-068 | GFCI Receptacle, 15 Amp | 1 | 26 | 62500702 | Terminal, 1/4 F Ful Insulated 22-18 | 3 |
| 3 | 625-004-252 | Receptacle, 15 Amp 110V | 3 | 27 | 62502534 | Decal, Dual Vend Operation | 1 |
| 4 | 62502518 | Module, 24 VDC Power Supply | 1 | 28 | 954-002-010 | Rivet 1/8 x 1/8 SS | 3 |
| 5 | 62502522 | PLC, 8/6 I/O W/Dual Program | 1 | 29 | 62500156 | Clamp, 3/4 Self Adhesive | 4 |
| 6 | 62502523 | Module, 16 Input 24 VDC | 1 | 30 | 62502536 | Bracket, Calibrate | 1 |
| 7 | 62502537 | Label, Run / Cal | 1 | 31 | 62500634 | Switch Fuse, 5A 3Ag 250V Fast | 2 |
| 8 | 950-005-006 | Self Tapping #8-36 x 3/8 | 6 | 32 | 62500635 | Acting Fuse, Metal Clip 3Ag | 1 |
| 9 | 625-004-073 | Seal, Knockout 3/4 Steel | 1 | 33 | 62502963 | Terminal, Spade #10, 22-18 Ga. | 2 |
| 10 | 952-004-068 | Washer .2 x .44 SS | 1 | 34 | 62501400 | Fuse, 1A 2Ag Fast | 1 |
| 11 | 62502780 | Switch, SPST, Red Push Button | 2 | 35 | 950-004-024 | Machine Screw #6-32 x 3/8 Slotted Pan Head | 5 |
| 12 | 39207034 | Fuse Holder, 3Ag 1/4" Q-Conn. | 1 | 36 | 625-002-075 | Decal, Warning Elect | 1 |
| 13 | 625-001-265 | Term Block, 12 Pole, Jumper, Snap Off Strip Style Din Rail, | 1 | 37 | N/A | N/A | N/A |
| 14 | 625-004-051 | Electrical Box | 3 | 38 | N/A | N/A | N/A |
| 15 | 625-900-334 | Switch, Rocker SPST | 1 | 39 | N/A | N/A | N/A |
| 16 | 62502526 | Term Block, Ground Lug Al 4-14 Wire | 2 | 40 | N/A | N/A | N/A |
| 17 | 625-001-266 | Nut-Hex #10-24 | 2 | 41 | 625-004-189 | Plug BPF 1/2 Black Plastic | 1 |
| 18 | 951-001-002 | Machine Screw #8-32 X 5/8 | 1 | 42 | 62502944 | Label, Upper Outlet | 1 |
| 19 | 950-004-086 | Nut-Hex #8-32 | 2 | 43 | 62502964 | Terminal, Spade #10 10-12 Ga. | 2 |
| 20 | 951-001-012 | Varistor, Surge Absorber 6500A | 2 | 44 | 62502972 | Connector IDC 18-14 AWG | 1 |
| 21 | 39207032 | Fitting Elec, Romex Connect 3/4 | 1 | 45 | 62502133 | Connector T-Tap 22-18 Ga. | 1 |
| 22 | 625-001-312 | Suppressor, 200V TVS 1500W | 1 | 46 | 62501603 | Switch, Main Power Toggle DPST 1/4 F | 1 |
| 23 | 62501684 | Terminal, 3/16 F | 1 | 47 | 625-002-278 | Terminal, 1/4F 14-16 AWG Full Insulation | 2 |
| 24 | 62500631 | | 6 | | | | |

BASIC CABINET

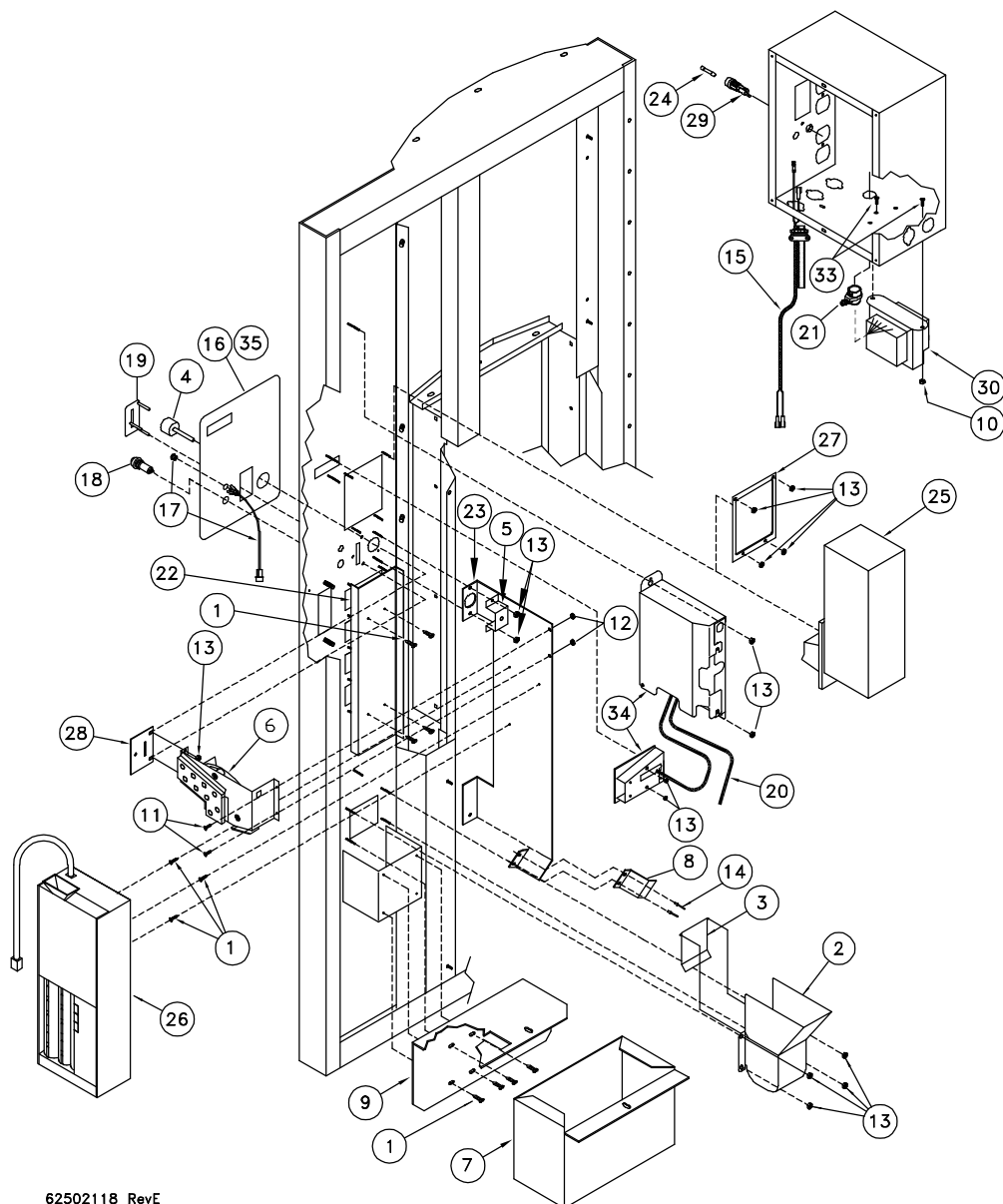


62501316 (REV G)

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|--------------|--|------|----------|-------------|--|------|
| 1 | 921-001-041 | Weather Strip 5/8 x 3/8 | 16 | 18 | 951-002-002 | Nut 5/16-18 Flanged Whiz Lock | 4 |
| 2 | 060905 | Self-Tap Screw #10-24 x 1/2 SHW Head | 4 | 19 | 950-003-002 | Carriage Bolt 5/16-18 x 1/2 | 4 |
| 3 | 950-004-002 | Machine Screw 1/4-20 x 3/8 Slotted Tr Head | 3 | 20 | 625-001-509 | O-Ring | 2 |
| 4 | 62500498 | Strain Relief | 1 | 21 | 951-002-003 | Hex Nut 3/8-16 Whiz Lock | 5 |
| 5 | 625-001-070 | Vend Part, Bracket | 1 | 22 | 031-09103 | Hex Head Cap Screw 3/8 x 3/4 SS | 2 |
| 6 | 625-001-075 | Vending Part, Nut 1/2-13 | 1 | 23 | 950-003-081 | Carriage Bolt #10 x 3/4 SS | 8 |
| 7 | 625-001-950 | Leg, 3/8-16 Rubber Leveler | 4 | 24 | 950-002-003 | Hex Bolt 1/4-20 x 3/4 Flanged Whiz Lock | 5 |
| 8 | 625-001-965 | Vent, 2" Dia. Aluminum Louvered | 4 | 25 | 950-001-089 | Hex Head Cap Screw 3/8-16 x 3/4 | 1 |
| 9 | 62501310 | Cabinet, Weldment | 1 | 26 | 625-004-161 | Nut, Unistrut 3/8 W/Spring | 1 |
| 10 | 625-900-333 | Cover, Electrical Box | 1 | 27 | 030-16072 | Carriage Bolt 3/8-16 x 2 Gr. 5 Full Thread | 2 |
| 11 | 954-002-010 | Pop Rivet 1/8 x 1/8 Stain OEDH | 4 | 28 | 030-16067 | Carriage Bolt 3/8-16 x 3/4 | 1 |
| 12 | 625-900-774 | Bracket, Literature | 1 | 29 | 62500966 | Channel Unistrut | 1 |
| 13 | 625-901-099 | Plate, Door Latch | 1 | 30 | 62501311 | Bracket, Vessel Support | 1 |
| 14 | 951-002-001 | Nut 1/4-20 Flanged Whiz Lock | 7 | 31 | 616606 | Tank Belt Anchor | 8 |
| 15 | 625-004-325 | Plug, 1 1/8 Plastic | 2 | 32 | 625-900-367 | Strap, 1 3/4 x 32" | 2 |
| 16 | *625-001-325 | Level Switch, N/C Float & Stem | 1 | 33 | N/A | N/A | N/A |
| 17 | 954-002-007 | Pop Rivet 1/4 x 1/4 S-S | 16 | 34 | 951-002-012 | Hex Nut #10-24 Whiz Lock | 8 |

* Recommended Spare Parts ** Additional Recommended Spare Parts

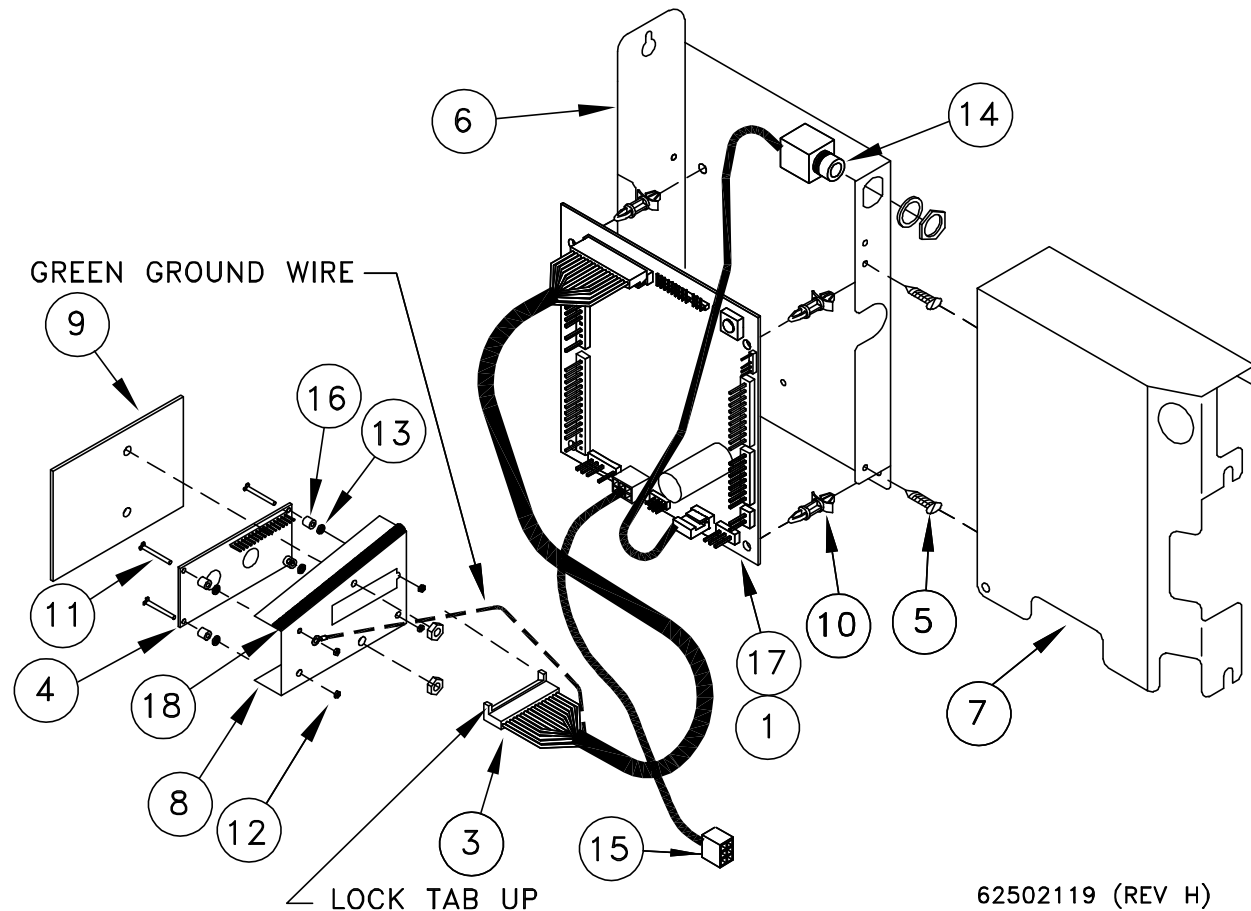
DOOR, COIN MECHANISM ACCESSORIES



62502118 RevE

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-------------------------------------|------|----------|-------------|--|------|
| 1 | 392-010-028 | Self Tap Screw #8-18 x 1/2 Hex Head | 11 | 18 | 62502009 | Pause Button | 1 |
| 2 | 62501484 | Coin Return, SS (Includes Item 3) | 1 | 19 | 62500647 | Coin Slot Guard | 1 |
| 3 | 625-004-766 | Coin Return Door SS | 1 | 20 | 62503240 | VMC Harness | NA |
| 4 | 625-004-768 | Button, Coin Return | 1 | 21 | 62500498 | Strain Relief | 1 |
| 5 | 625-004-769 | Coin Return Bracket Support | 1 | 22 | 62500652 | Guard, Coin Mech. | 1 |
| 6 | 62501280 | Bracket Assembly Coin Return | 1 | 23 | 62500653 | Bracket, Coin Mech. | 1 |
| 7 | 625-900-777 | Cash Box | 1 | 24 | 62500634 | Fuse 5A 3Ag | 1 |
| 8 | 625-900-900 | Chute, Coin | 1 | 25 | *Varies | Bill Validator | 0 |
| 9 | 625-900-936 | Bracket Cash Box | 1 | 26 | *Varies | Coin Mech | 0 |
| 10 | 951-003-011 | Hex Lock Nut 8-32 | 2 | 27 | 62500666 | Cover, \$ Bill Hole | 1 |
| 11 | 950-004-024 | Mach Screw, #6 x 3/8 Pan Head Hex | 2 | 28 | 625-901-091 | Coin Slot, SS | 1 |
| 12 | 951-001-001 | Nut 6-32 | 2 | 29 | 39207034 | Fuse Holder | 1 |
| 13 | 951-001-012 | Hex Nut #8-32 | 18 | 30 | 62503149 | Transformer, Control 75Va | 1 |
| 14 | 954-002-010 | Pop Rivet 1/8 x 1/8 SS OEDH | 2 | 31 | 62500631 | Terminal, 3/16 22-18 | 1 |
| 15 | 62503247 | Harness, Coin 1840 VMC | 1 | 32 | 62500691 | Terminal, 1/4M 22-18 | 1 |
| 16 | 62502673 | Decal, Instruction Coin VMC 1840 | 1 | 33 | 950-004-032 | #8-32 x 1/2 Slot Head | 2 |
| 17 | 62503249 | Light, Red Led 110V | 1 | 34 | 62502119 | 1840 VMC Coin Board Assembly (See Page 54) | 1 |

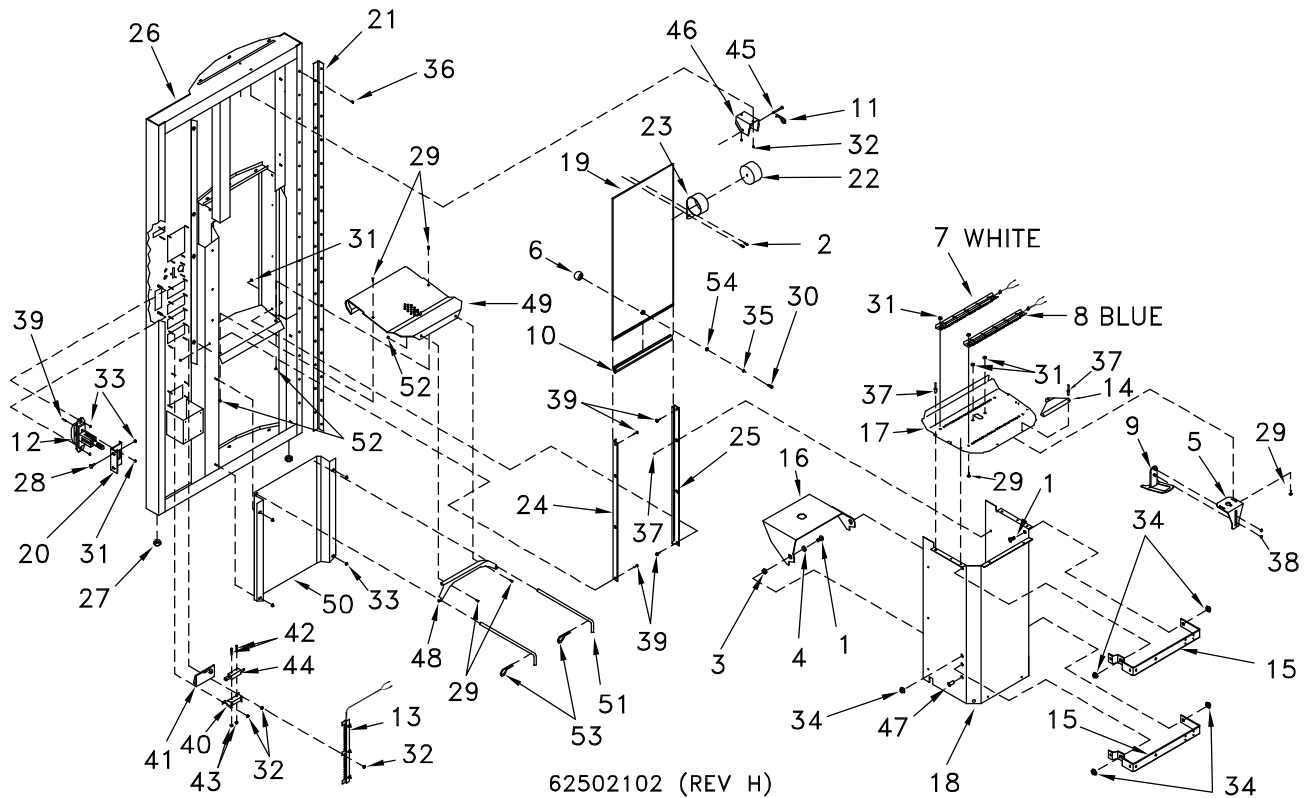
VENDING MACHINE CONTROLLER



| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-------------------------------------|------|----------|-------------|---|------|
| 1 | **62502004 | VCM Kit, Includes Items 3, 4, & 17 | 0 | 10 | 39200014 | Standoff, Circuit Board 1/4 | 4 |
| 2 | N/A | N/A | N/A | 11 | 950-004-116 | Machine Screw, #2-56 x 5/8 SS Phillips Head | 4 |
| 3 | 62502006 | Connector Cord, Only | 1 | 12 | 951-001-033 | Nut, Hex #2-56 SS | 4 |
| 4 | 62502672 | OLED Display Only | 1 | 13 | 62502203 | Retainer, Nylon #2 | 4 |
| 5 | 392-010-028 | Self Tap Screw #8-32 x 1/2 | 2 | 14 | 62502120 | Harness, DEX Cable (Optional) | 1 |
| 6 | 62502095 | Bracket, CB Mt. 1840 | 1 | 15 | 62502131 | Harness, MDB 12" Extender | 1 |
| 7 | 62502094 | Bracket, CB Cover 1840 | 1 | 16 | 62502200 | Bushing, Nylon Spacer | 4 |
| 8 | 62502676 | Bracket, Display (Shown) | 1 | 17 | 62502678 | VMC, Includes Board & Cable #3 | 1 |
| 9 | 62502675 | Window, Clear (Shown 2 7/8 x 5 5/8) | 1 | 18 | 62502746 | Silicone Sealant | N/A |

* Recommended Spare Parts ** Additional Recommended Spare Parts

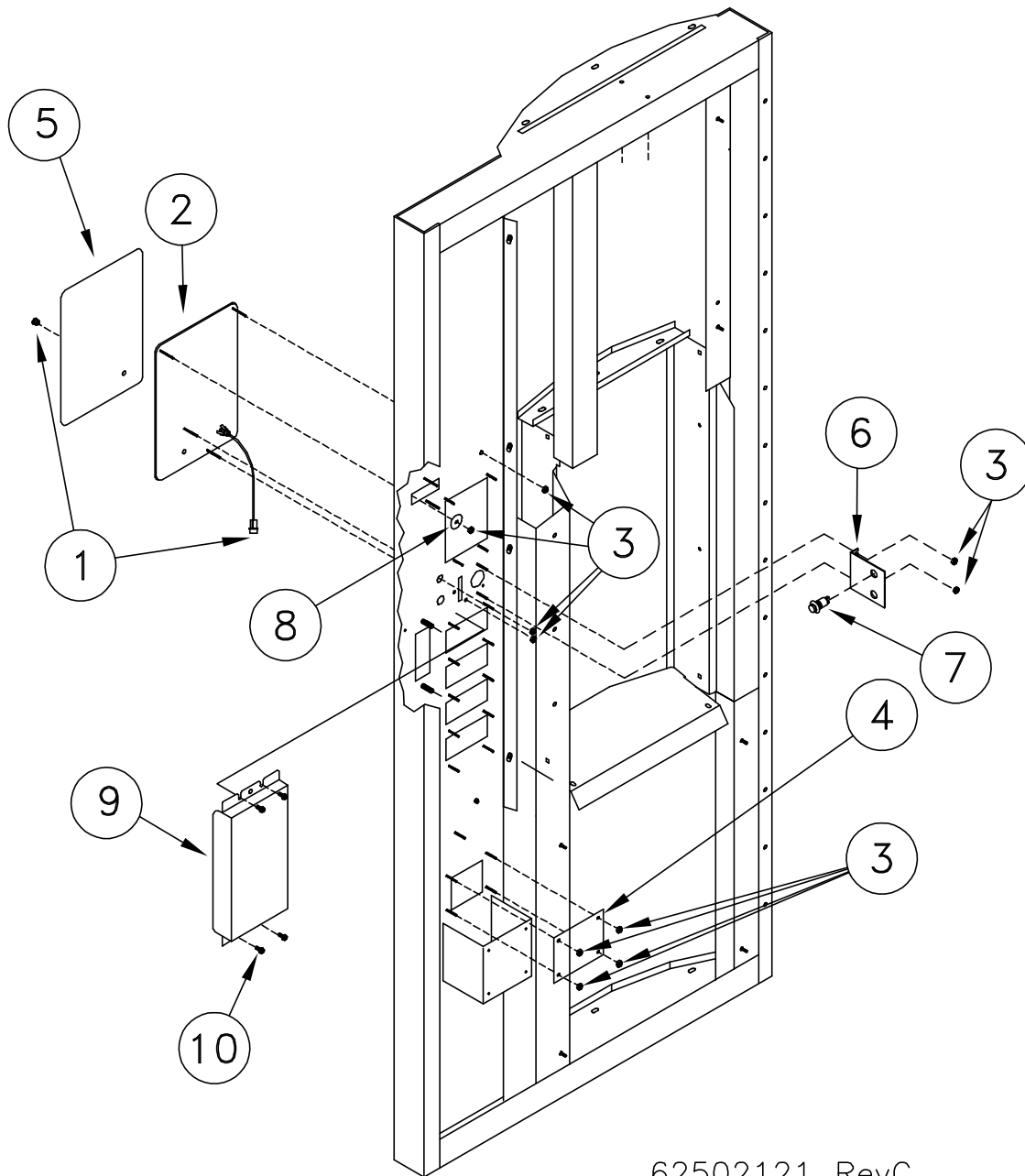
DOOR, WIDE DISPENSER



| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|---------------|---------------------------------------|------|----------|-------------|--|------|
| 1 | 950-011-063 | Socket Head Cap Screw 3/8-16 x 3/4 SS | 6 | 28 | 950-003-065 | Carriage Bolt 1/4-20 x 5/8 Gr. 5 | 2 |
| 2 | 950-005-031 | Self Tap Screw #6 x 1/4 Type B | 2 | 29 | 950-003-071 | Carriage Bolt #10-24 x 1/2 SS | 10 |
| 3 | 061910 | Hex Nut 3/8-16 SS | 4 | 30 | 950-004-121 | Screw SS 1/4-20 x 3/4 | 1 |
| 4 | 061916 | 3/8 Flat Washer SS | 2 | 31 | 951-002-012 | Hex Nut #10-24 Whiz Lock | 12 |
| 5 | 62501122 | Bracket, Upper Guide | 1 | 32 | 951-001-012 | Nut-Hex #8-32 | 15 |
| 6 | 62503137 | Knob-Plastic, Black | 1 | 33 | 951-002-001 | Flanged Whiz Lock Nut 1/4-20 | 8 |
| 7 | 62502152 | Sec. LED White Light | 1 | 34 | 951-002-003 | Hex Nut 3/8-16 Whiz Lock | 6 |
| 8 | 62502154 | Sec. LED Blue Light | 1 | 35 | 952-002-020 | Flat Washer 3/4 x 1" SS | 2 |
| 9 | 62501121 | Bracket, Lower Guide | 1 | 36 | 954-002-007 | Rivet-Pop 1/4 x 1/4 SS | 15 |
| 10 | **625-004-053 | Trim, Edge Guard | 1,1 | 37 | 954-002-013 | Pop Rivet 3/16X1/4 Closed End | 12 |
| 11 | 953-005-004 | 3/16" Cotter Pin | 1 | 38 | 061605 | Nut 1/4-20 SS Nylon Lock | 2 |
| 12 | 625-005-166 | T-Handle Lock Flush Mount | 1 | 39 | 950-003-081 | Bolt #10 x 3/4 CRG SS | 6 |
| 13 | 62502153 | Sec. LED Button Light | 1 | 40 | 62500618 | Bracket, Rect. Button Mount | 5 |
| 14 | 62502100 | Bracket, Water Meter | 1 | 41 | *62500617 | Switch, Rect. Push Button | 4 |
| 15 | 625-900-300 | Bracket, UV Light | 2 | 42 | 700-10904 | Machine Screw #6-32 x 1 Slotted Pan Head | 8 |
| 16 | 625-900-303 | Shelf | 1 | 43 | 951-001-001 | Hex Nut #6-32 | 8 |
| 17 | 62502099 | Panel, Led Dispenser | 1 | 44 | *62500615 | Switch, SPST, Micro | 4 |
| 18 | 62500878 | Housing, S.S., Wide Dispenser | 1 | 45 | 953-002-039 | Clevis Pin, 3/16 X 1-3/4 | 1 |
| 19 | **62500883 | Door, Wide Dispenser | 1 | 46 | 62500884 | Bracket, Spring Drum | 1 |
| 20 | 625-900-957 | Bracket, Door Lock Retainer | 1 | 47 | 62500922 | Plug, 3/8 Locking Hole, Black Plastic | 2 |
| 21 | 625-901-100 | Hinge, Vending Door | 1 | 48 | 62500140 | Bracket, Drain Bucket | 1 |
| 22 | 62500886 | Drum, C.F. Spring | 1 | 49 | 62500872 | Drain Pan Wide | 1 |
| 23 | **62500885 | Spring, 2 lb. Constant Force | 1 | 50 | 62500185 | Shield Lower | 1 |
| 24 | 62500890 | Track R.H., Wide Dispenser | 1 | 51 | 62500349 | Pin Drain Bucket | 2 |
| 25 | 62500889 | Track L.H. Wide Dispenser | 1 | 52 | 951-001-002 | Nut 10-24 SS | 4 |
| 26 | 62502101 | Weldment, VMC Door 4 Sel. | 1 | 53 | 060854 | Cotter Pin 1/8 x 3/4 | 2 |
| 27 | 62500347 | Vent 7/8 Dia. Plastic | 2 | 54 | 951-005-104 | Jam Nut 5/16-18 SS | 1 |

* Recommended Spare Parts ** Additional Recommended Spare Parts

DOOR, NON-COIN MECHANISM ACCESSORIES

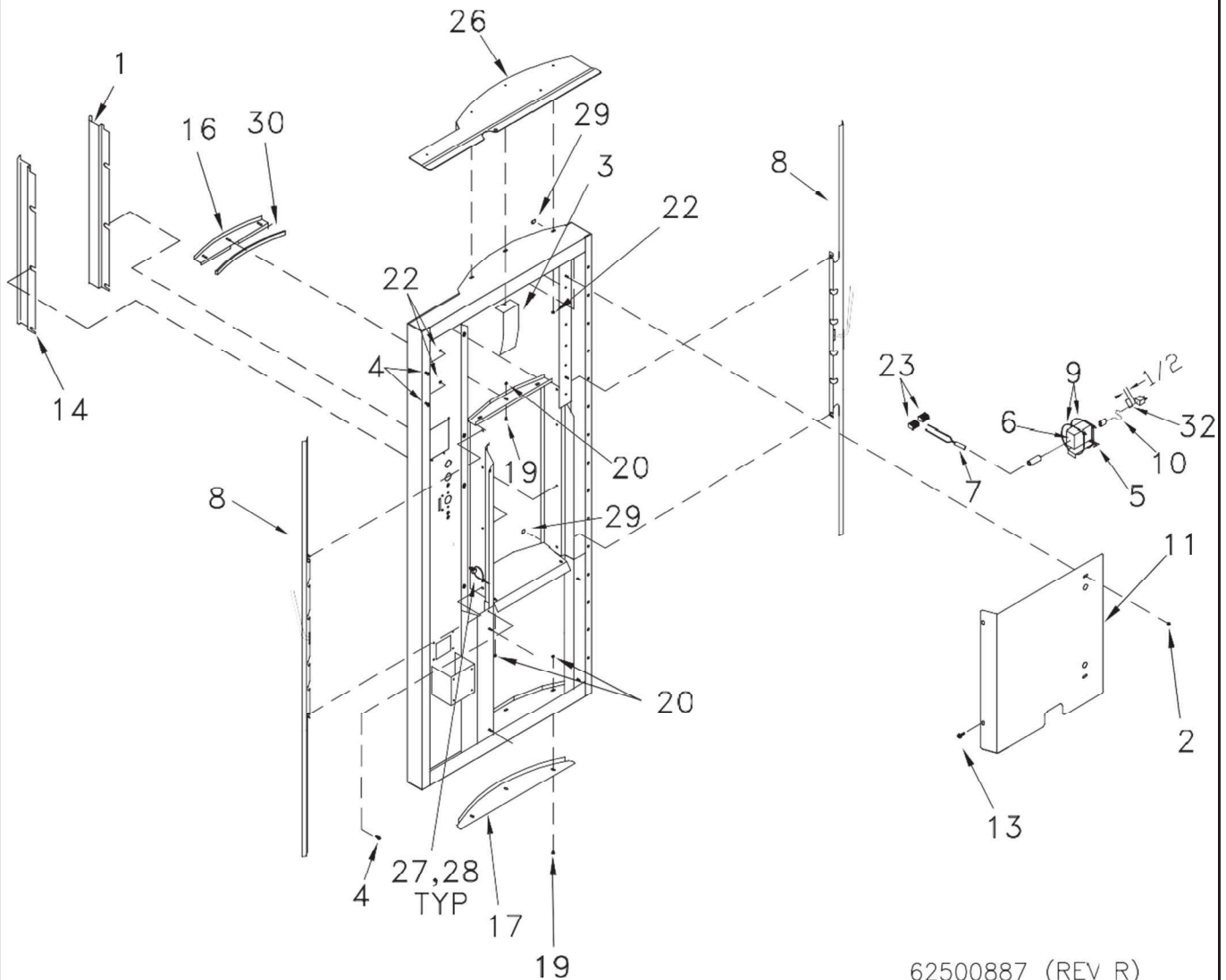


62502121 RevC

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|----------|-------------|------------------------------|------|
| 1 | 62503249 | LED, Service Light 110V | 1 | 6 | 62500686 | Bracket, Button | 1 |
| 2 | 62502097 | Cover Plate, Non-Coin VMC Door | 1 | 7 | 62502009 | Switch, SPST Red Push Button | 1 |
| 3 | 951-001-012 | Hex Nut #8-32 | 10 | 8 | 952-004-066 | Washer, .28 ID x 1.25 OD | 1 |
| 4 | 62500636 | Cover Plate, Coin Return | 1 | 9 | 62502948 | Cover, Push Button | 1 |
| 5 | 62502110 | Decal, Instructions, 4 Select, N-C, Di | 1 | 10 | 392-010-028 | #8 x 1/2 Self Tapping Screw | 4 |

* Recommended Spare Parts ** Additional Recommended Spare Parts

DOOR, TRIM WIDE DISPENSER

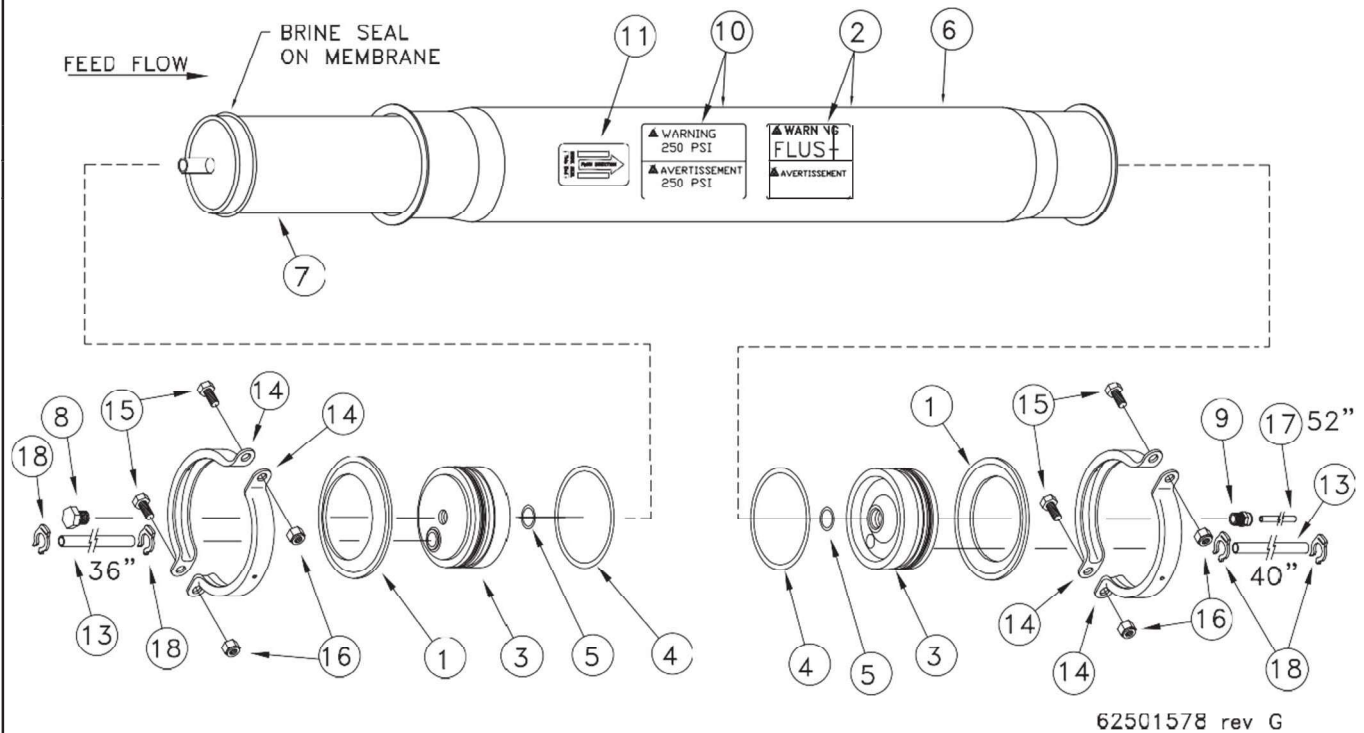


62500887 (REV R)

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-------------------------------------|------|----------|-------------|----------------------------------|------|
| 1 | N/A | N/A | N/A | 17 | 62500321 | Weld End Cap | 1 |
| 2 | 951-002-001 | Whiz Nut 1/4-20 | 2 | 18 | N/A | N/A | N/A |
| 3 | 62501139 | Bracket, Wide Disp Door Guide | 1 | 19 | 950-003-071 | Carriage Bolt #10-24 x 1/2 SS | 6 |
| 4 | 392-010-028 | Self-Tap Screw #8-18 x 1/2 SHW Head | 3 | 20 | 951-001-002 | Hex Nut #10-24 SS | 6 |
| 5 | 62502951 | Bracket, Power Supply | 1 | 21 | N/A | N/A | N/A |
| 6 | 62502950 | Power Supply, LED Lights | 1 | 22 | 951-001-012 | Hex Nut #8-32 | 7 |
| 7 | 62502151 | Adapter, Power Supply | 1 | 23 | 62502986 | Connector, Lever Nut | 2 |
| 8 | 62502149 | LED Strip Light Assembly | 2 | 24 | N/A | N/A | N/A |
| 9 | 367-001-011 | Cable Tie, 14" | 2 | 25 | N/A | N/A | N/A |
| 10 | 62502949 | Power Cord, 6 Foot | 1 | 26 | 62501333 | Weldment, Top Door Cover | 1 |
| 11 | 62502604 | Shield, Upper Curved Door | 1 | 27 | 625-001-469 | Wire Tie, 5" | 18 |
| 12 | N/A | N/A | N/A | 28 | 62501582 | Wire Tie Down, Push In 1/4" | 8 |
| 13 | 950-005-004 | Self Tapping Screw 1/4-20 x 1/2 | 2 | 29 | 62501362 | Felt, Disc 1/2 x 1/16 Self Stick | 12 |
| 14 | 62500869 | Trim L.H., Wide Disp. | 1 | 30 | 921-001-507 | Weather Strip, 3/8 x 1/4 D | 1 |
| 15 | 62500870 | Trim R.H., Wide Disp. | 1 | 31 | 625-002-305 | Adhesive Wire Tie Down | 1 |
| 16 | 62501740 | Trim, Top, Wide Disp. | 1 | | | | |

* Recommended Spare Parts ** Additional Recommended Spare Parts

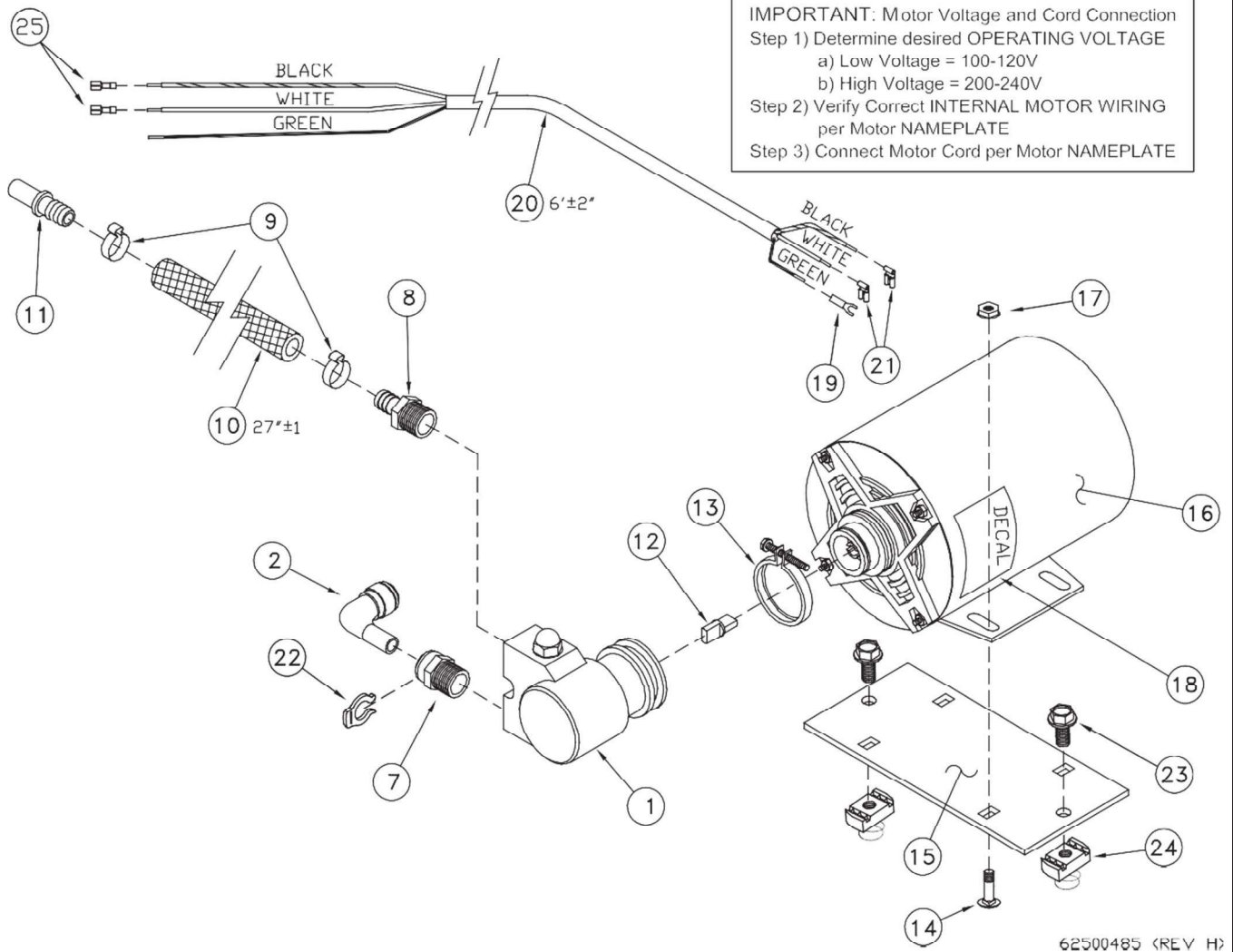
4" VESSEL/RO MEMBRANE



| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|----------------------------------|------|----------|-------------|---|------|
| 1 | 62501497 | Ring, End Cap Retainer | 2 | 11 | 62501209 | Decal, Brine Seal Flow Direct | 1 |
| 2 | 62502598 | Decal, SBS Flush | 2 | 12 | N/A | N/A | N/A |
| 3 | 62501645 | Assembly, End Cap 4 W/John Quest | 2 | 13 | 62501570 | Tubing, 1/2 OD x 3/8 ID Poly. | 6.4 |
| 4 | 625-001-506 | O-Ring 342 Buna | 2 | 14 | 62501496 | Clamp, Formed Flange | 4 |
| 5 | 625-001-502 | O-Ring 116 Buna | 2 | 15 | 031-09103 | Hex Head Cap Screw 3/8-16 x 3/4 SS | 4 |
| 6 | 62501493 | Vessel, SS 4" (Includes (1) #10) | 1 | 16 | 951-003-013 | Lock Nut 3/8-16 SS | 4 |
| 7 | 62501113 | Membrane, Filmtec XLE 4040 | 1 | 17 | 625-001-903 | Tubing, PE 1/4 OD | 4.4 |
| | 625-001-634 | Membrane, Filmtec TW30-4040 | 1 | 18 | 62501721 | Clip 1/2 Lock | 4 |
| 8 | 625-003-230 | Fitting, PVC Sch 80 Plug 3/8 | 1 | 19 | 62501528 | Vessel With End Caps (W/O Membrane, Item 7, 8, 9, 13, 17, 18) | 1 |
| 9 | 625-005-940 | Fitting, Conn 3/8 MPT x 1/4 T | 1 | | | | |
| 10 | 62502956 | Decal, Vessel Warning | 1 | | | | |

* Recommended Spare Parts ** Additional Recommended Spare Parts

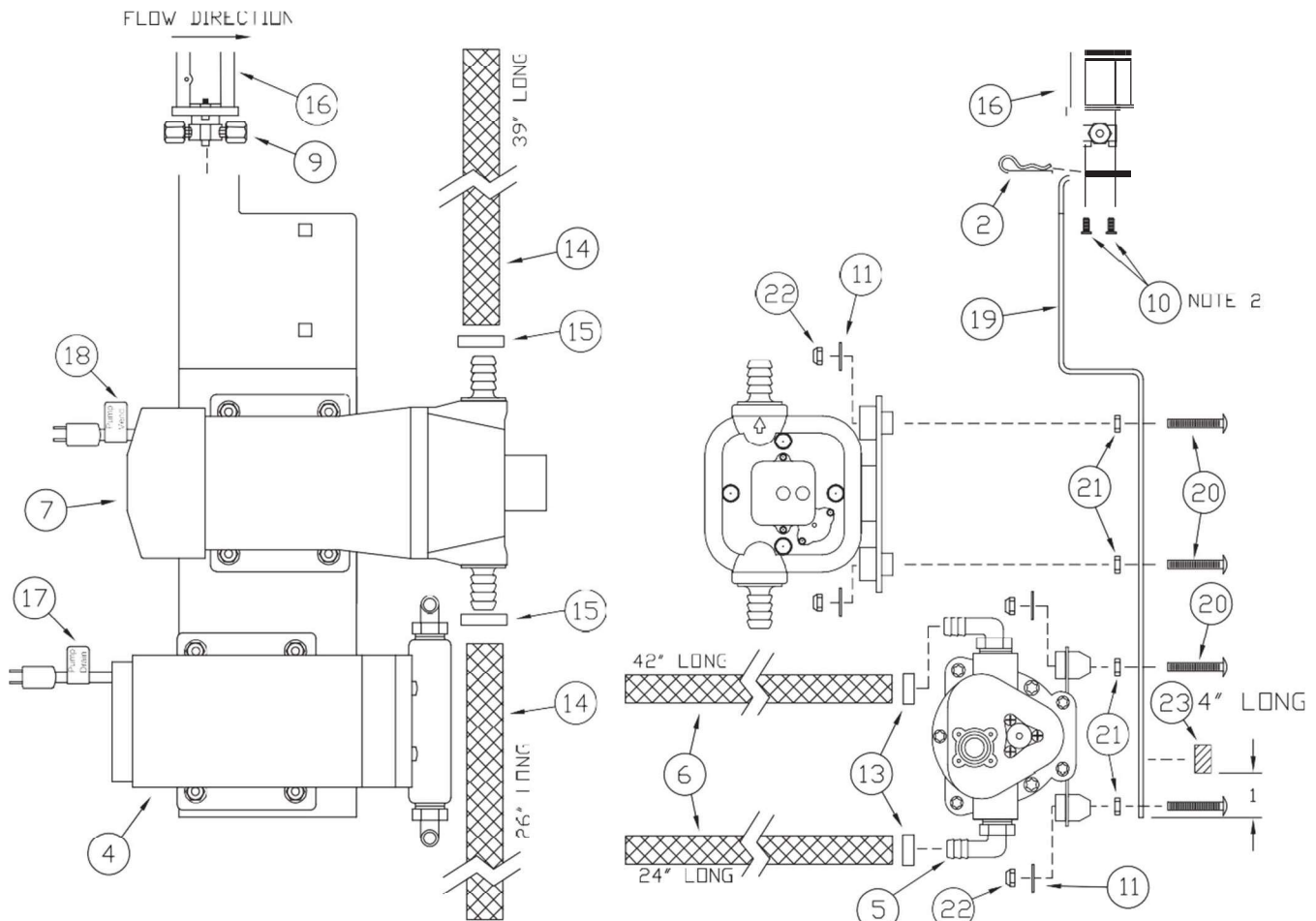
PRESSURE PUMP ASSEMBLY



| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--------------------------------------|------|----------|-------------|-----------------------------------|------|
| 1** | 62502600 | Pump, Procon 240 GPH V-Band MT LF | 1 | 14 | 030-16041 | Carriage Bolt 5/16-18 x 3/4 G5 | 4 |
| 2 | 62500556 | Fitting, John Guest 1/2 Plug Elbow | 1 | 15 | 625-900-504 | Bracket, Motor Mount | 1 |
| 3 | NA | NA | NA | 16 | 62500484 | Motor, 1/2 HP | 1 |
| 4 | NA | NA | NA | 17 | 951-002-002 | Nut 5/16-18 Flanged Whiz Lock | 4 |
| 5 | NA | NA | NA | 18 | 62500527 | Decal, Pump Press | 1 |
| 6 | NA | NA | NA | 19 | 62502962 | Spade 16-14 GA Insulated #10 Stud | 1 |
| 7 | 625-001-672 | Fitting 1/2 MPT x 1/2 T John Guest | 1 | 20 | 625-001-285 | Wire #14/3 Type SJ | 6' |
| 8 | 62500417 | Fitting, Nylon ST 1/2 MPT x 1/2 Barb | 1 | 21 | 62500553 | Terminal Solderless 1/4 Flag | 2 |
| 9 | 625-002-881 | Hose Clamp .76 - .89 Stepless | 2 | 22 | 62501721 | Clip 1/2 Lock | 1 |
| 10 | 625-001-929 | Hose, PVC Braided 1/2 ID .85 OD | 2.3 | 23 | 950-002-008 | Hex Head Cap Screw 3/8-16 x 3/4 | 2 |
| 11 | 62500522 | Fitting, 1/2 Stem x 1/2 Barb | 1 | 24 | 625-004-161 | Nut, Unistrut 3/8 with spring | 2 |
| 12 | 62500488 | Pump, Shaft Coupling #1143 | 1 | 25 | 625-002-276 | Terminal Solderless 1/4 F | 2 |
| 13 | 625-001-585 | Pump, Coupling, V-Band Clamp 1500 | 1 | | | | |

* Recommended Spare Parts ** Additional Recommended Spare Parts

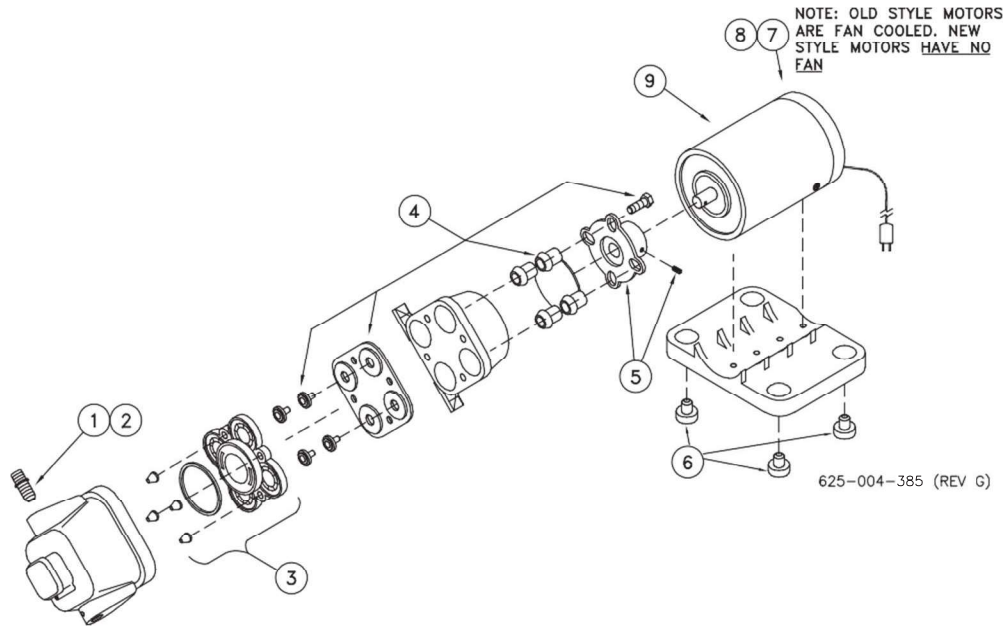
DISPENSER/DRAIN PUMP ASSEMBLY



| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|----------|-------------|---------------------------------|------|
| 1 | N/A | N/A | N/A | 13 | 625-002-876 | Hose Clamp, 14.5Mm-17Mm OD SS | 2 |
| 2 | 953-005-004 | Cotter Pin | 1 | 14 | 625-001-929 | Hose, PVC Braided 1/2 ID .85 OD | 5.4 |
| 3 | N/A | N/A | N/A | 15 | 625-002-881 | Hose Clamp .76-.89 Stepless | 2 |
| 4 | 62501748 | Pump 5884, 115 VAC Aquatec | 1 | 16 | 625-004-383 | Solenoid Valve | 1 |
| 5 | 62500419 | Fitting, Nylon Elbow 3/8 MPT x 3/8 Barb | 2 | 17 | 62502819 | Decal, Drain Pump | 1 |
| 6 | 625-001-920 | Hose, PVC Braided 3/8 ID x 5/8 OD | 5.5 | 18 | 62502820 | Decal, Vend Pump | 1 |
| 7 | 625-004-385 | Pump 3.5 GPM Flojet | 1 | 19 | 62502872 | Bracket, Drain/Disp Pump | 1 |
| 8 | N/A | N/A | N/A | 20 | 950-003-086 | Carriage Bolt, 10-24 x 1-1/4 | 8 |
| 9 | 625-001-717 | Fitting, 1/4 Ferrule Nut | 2 | 21 | 951-001-002 | Hex Nut 10-24 SS | 8 |
| 10 | 392-010-028 | Self-Tapping Screw 8-18 x 1/2 | 2 | 22 | 392-010-010 | Lock Nut, 10-24 | 8 |
| 11 | 952-004-068 | Washer-Flat #10 SS | 8 | 23 | 921-001-041 | Weather Strip 5/8 x 3/8 | 0.33 |
| 12 | N/A | N/A | N/A | | | | |

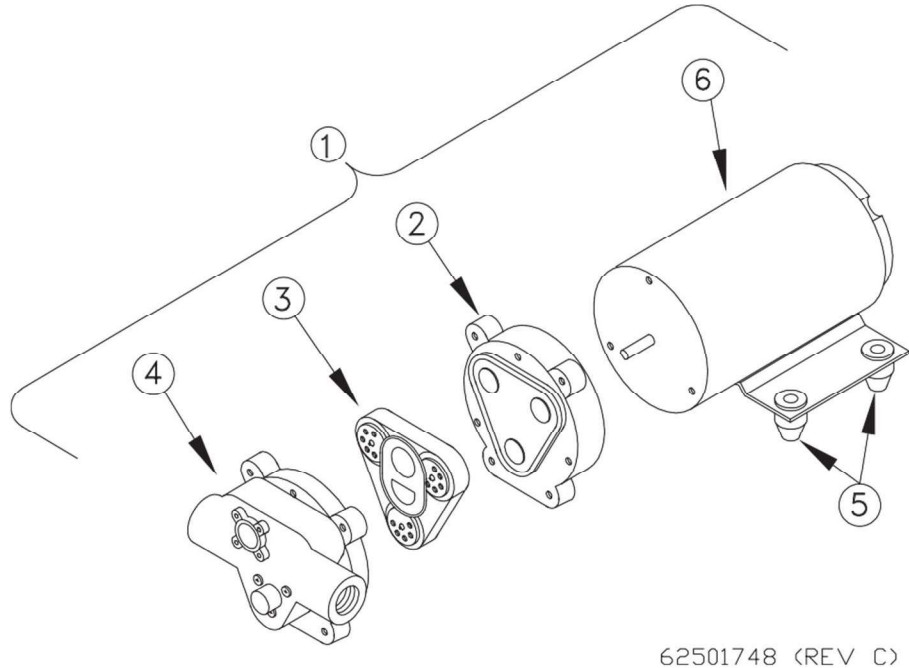
* Recommended Spare Parts ** Additional Recommended Spare Parts

FLOJET DISPENSING PUMP REPAIR PARTS/REBUILD KITS



| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|--------------|----------------------------------|------|----------|-------------|-------------------------------------|------|
| - | *625-004-385 | Pump Assembly, Flojet 3.5 gpm | 1 | 6 | 62500801 | Kit, Grommet (4) | 1 |
| 1 | 62500454 | Fittings, Standard 1/2 | 2 | 7 | 62502510 | Kit, Brush (New Style Pump W/O Fan) | 1 |
| 2 | 62500508 | Fittings, Optional 3/8 | 2 | 7 | 625-006-011 | Kit, Brush (Old Style Pump W/Fan) | 1 |
| 3 | 62500456 | Kit, Check Valve | 1 | 8 | 62502511 | Kit, Brush & End Bell | 1 |
| 4 | 62500455 | Kit, Diaphragm W/Piston & Screws | 1 | 9 | 62502512 | Kit, Fan & Shroud | 1 |
| 5 | 62500802 | Kit, Cam Bearings W/Screw | 1 | | | | |

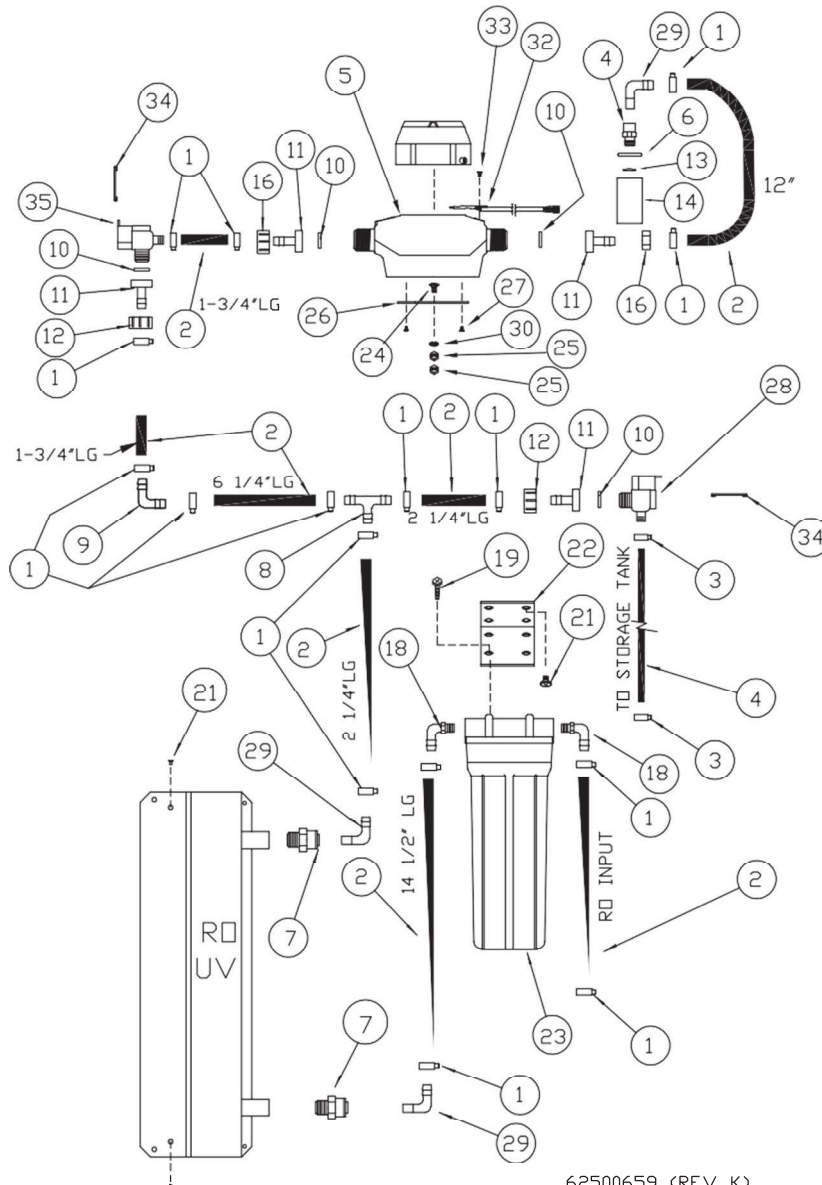
AQUATEC DRAIN PUMP REPAIR PARTS/REBUILD KITS



| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--------------------------------|------|----------|-------------|----------------------------------|------|
| 1 | 62501748 | Pump Assembly | 1 | 4 | 62501761 | Kit, Pump Housing Aquatec 5884 | 1 |
| 2 | 62501763 | Kit, Cam Bearing, Aquatec 5884 | 1 | 5 | 62501770 | Grommet Isolator (Kit, 4 Pieces) | 1 |
| 3 | 62501762 | Kit, Check Valve, Aquatec 5884 | 1 | 6 | 62501850 | Motor, Electrical N52UL | 1 |

* Recommended Spare Parts ** Additional Recommended Spare Parts

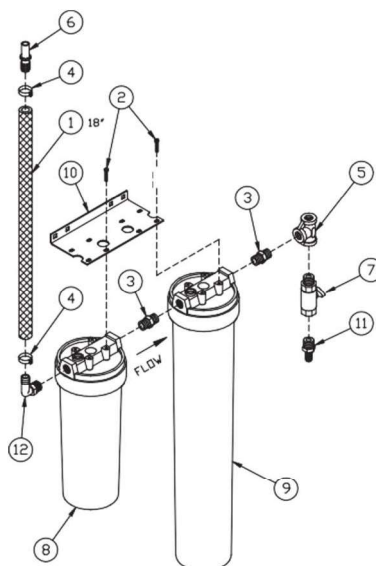
PLUMBING COMPONENTS OPEN TANK RO ONLY



62500659 (REV K)

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---|------|----------|-------------|--|------|
| 1 | 625-002-881 | Hose Clamp, .76 x .89 | 16 | 18 | 62500430 | Elbow Adapter 3/8 x 1/2 | 2 |
| 2 | 625-001-929 | 1/2 PVC Braided. Hose | 3.4 | 19 | 950-005-020 | Self-Tap #10-3/4 Hex | 4 |
| 3 | 625-002-876 | Hose Clamp, 14.5mm 17mm OD SS | 2 | 20 | N/A | N/A | N/A |
| 4 | 625-001-672 | Fitting, 1/2 M x 1/2 T JG | 1 | 21 | 392-010-028 | Self-Tap Screw 8-18 x 1/2 Hex Head | 6 |
| 5 | 62500658 | Water Meter, (Standard) | 1 | 22 | 625-900-941 | Bracket NT. Filter | 1 |
| | 62500790 | Water Meter, Metric (Optional) | 1 | 23 | 625-001-560 | Filter HSG Amatek 10 WO/PR | 1 |
| | 39212011 | Seal Ring 1/2 | 1 | 24 | 950-003-065 | Carriage Bolt 1/4-20 x 5/8 Gr. 5 | 1 |
| 7 | 625-005-976 | Fitting, John Guest, Conn. 3/8 M x 1/2 T | 2 | 25 | 951-002-001 | Nut 1/4-20 Whiz Lock | 2 |
| 8 | 62500446 | Tee 1/2 x 1/2 x 1/2 Barb Tee | 1 | 26 | 62500657 | Bracket, Water Meter | 1 |
| 9 | 62500439 | 90° Hose Barb 1/2 H x 1/2 H NY | 1 | 27 | 950-005-027 | Self-Tap Screw 8-18 x 3/8 Hex Head Ab | 4 |
| 10 | 625-004-467 | Washer, GHT WHT. Rubber | 4 | 28 | 625-004-483 | Solenoid Valve 3 GPM | 1 |
| 11 | 62500423 | Barb Swivel, 1/2 Hose | 4 | 29 | 625-005-993 | Barb, 1/2 x 1/2 90° Parker | 3 |
| 12 | 62500443 | Nut-SW., 3/4 GHT | 2 | 30 | 033-12007 | Flat Washer, SAE 5/16 PL | 1 |
| 13 | 62501815 | Screen, Nozzle 1/2" | 1 | 31 | N/A | N/A | N/A |
| 13 | 62501871 | Old Style Nozzle 3/8 With Screen | 1 | 32 | *62500661 | Assembly, Water Meter Sensor | 1 |
| 14 | 62501818 | Current Style Nozzle Assembly W/Screen 1/2" | 1 | 33 | 392-010-019 | Self-Tap Screw #6-20 x 3/8 Phillips Pan Head | 2 |
| 15 | N/A | N/A | N/A | 34 | 62500675 | Surge Suppressor | 2 |
| 16 | 625-002-955 | Hex Nut SW 3/8 BLK 3/4 FPS | 2 | 35 | 62501392 | Solenoid Valve, 5 GPM | 1 |
| 17 | N/A | N/A | N/A | | | | |

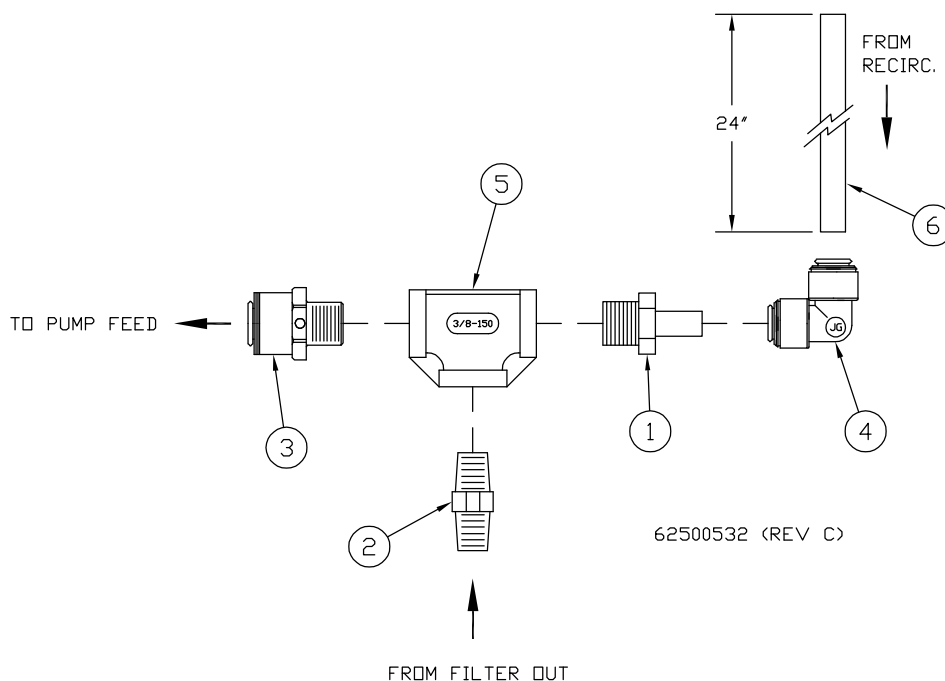
PLUMBING COMPONENTS PRE-FILTER ASSEMBLY



CLIP ART
625-900-206 (REV P)

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|--|------|----------|-------------|--------------------------------------|------|
| 1 | 625-001-929 | Hose, PVC Braided 1/2 ID .85 OD | 1.5' | 7 | 625-005-193 | Valve 2 Way Ball PVC 3/8 F x 3/8 M | 1 |
| 2 | 950-005-020 | Self Tapping Screw #10 x 3/4 | 8 | 8 | 625-001-560 | Filter Housing, Amatek Slim Line | 1 |
| 3 | 625-005-935 | Fitting Nylon 3/8 x 3/8 Nipple | 2 | 9 | 625-004-588 | Filter, #20 Slim Line Blue 3/8 | 1 |
| 4 | 625-002-881 | Hose Clamp .76-.89 Stepless | 2 | 10 | 625-900-803 | Bracket, Filter | 1 |
| 5 | 62500544 | Fitting Tee, 3/8 FNPT, 304 SS, 150 LB. | 1 | 11 | 62500413 | Fitting, Nylon ST 3/8 MPT x 3/8 Barb | 1 |
| 6 | 62500522 | Fitting, 1/2 Stem x 1/2 Barb, JG | 1 | 12 | 62500430 | Fitting, Nylon EL 3/8 MPT x 1/2 Barb | 1 |

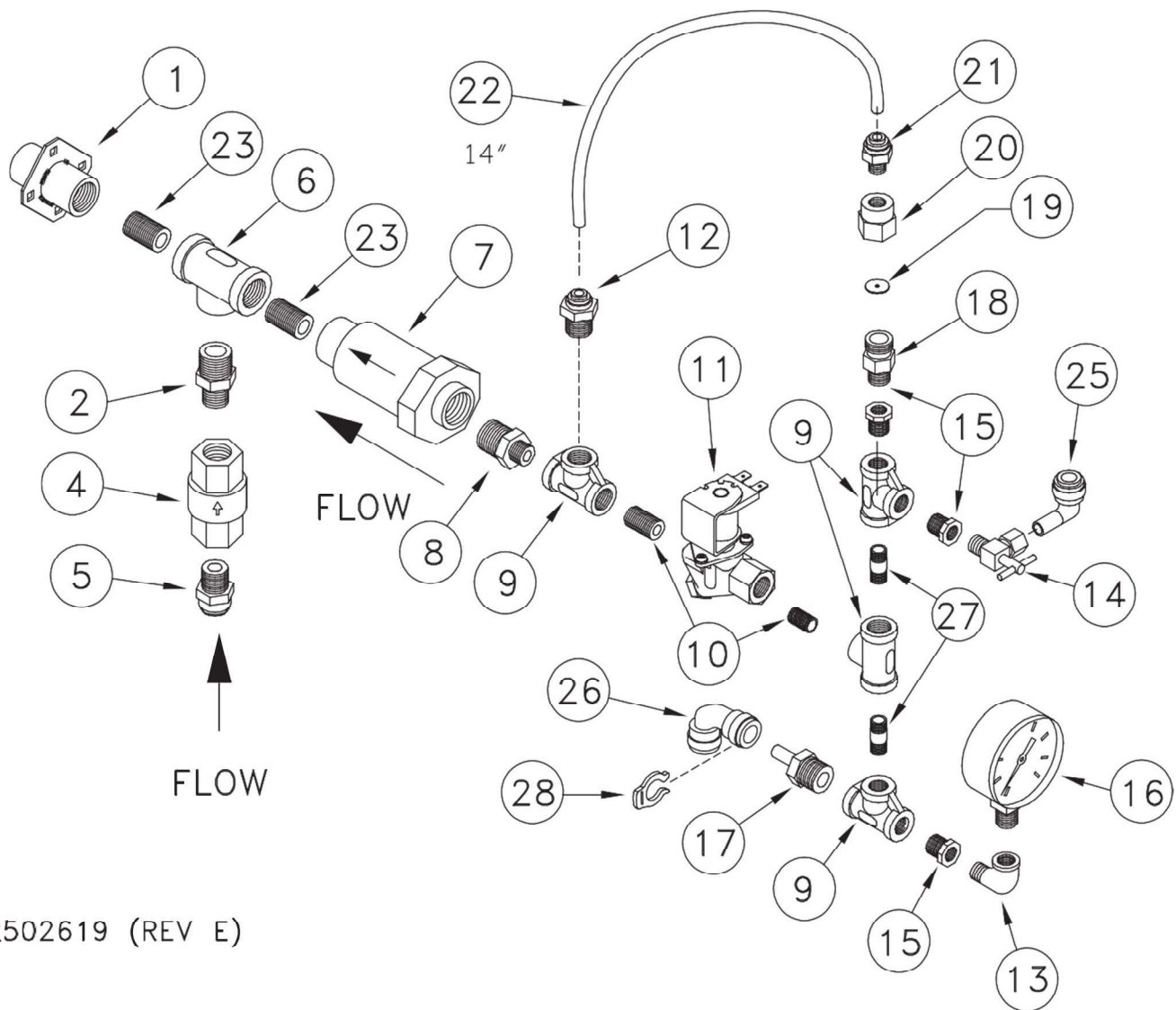
ADDITIONAL PRE-FILTER FITTINGS



| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|----------------------------------|------|----------|-------------|--------------------------------------|------|
| 1 | 625-001-715 | Fitting, Comp 3/8 M x 3/8 Stem | 1 | 4 | 625-005-999 | Fitting Union El 3/8" | 1 |
| 2 | 625-005-935 | Fitting Nylon 3/8 x 3/8 Nipple | 1 | 5 | 62500544 | Fitting, 304 SS 150 lb. Tee 3/8 FNPT | 1 |
| 3 | 625-005-976 | Fitting 3/8 M x 1/2 T John Guest | 1 | 6 | 625-001-901 | TUBING PE 3/8 | 2 |

Recommended Spare Parts Additional Recommended Spare Parts

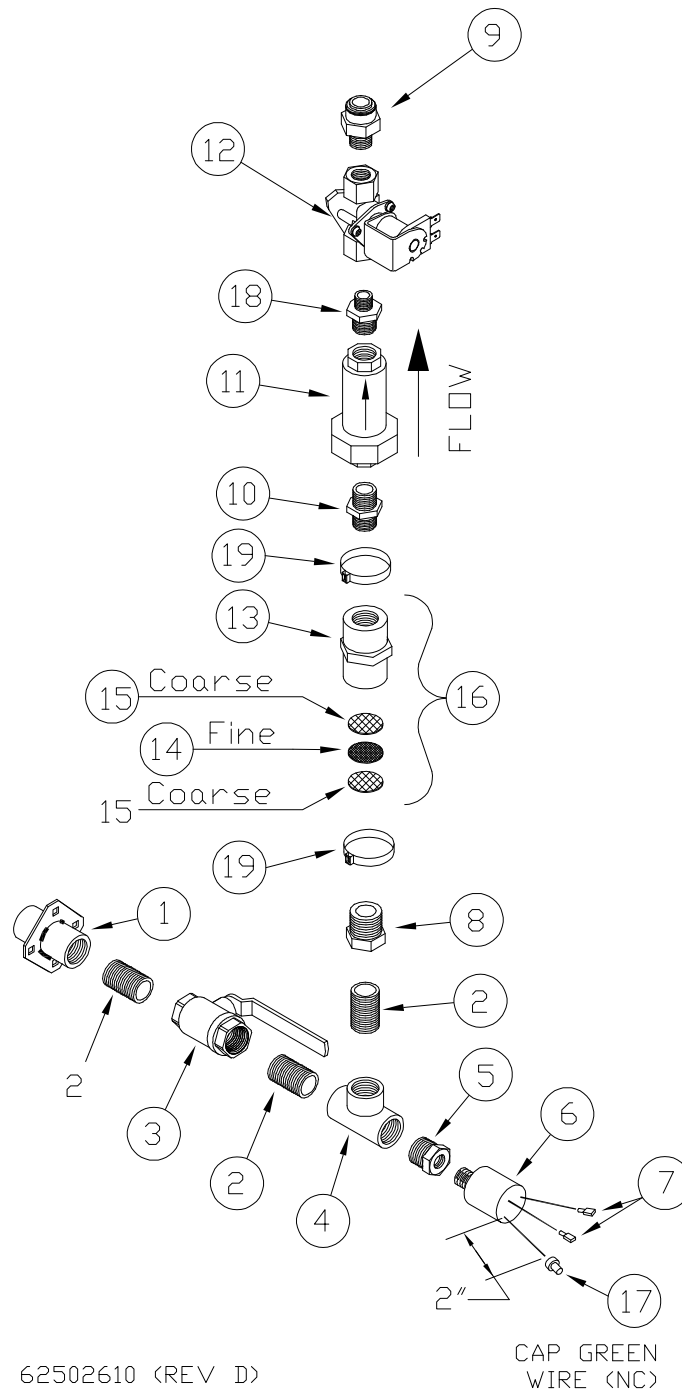
PLUMBING COMPONENTS 1840 WASTE MANIFOLD



62502619 (REV E)

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|-------------------------------------|------|----------|-------------|--------------------------------------|------|
| 1 | 62502608 | Weldment, SS Bulkhead 1/2" | 1 | 15 | 62502633 | Fitting, 3/8 x 1/4 SS RB | 3 |
| 2 | 62501020 | Fitting, Nylon 1/2 x 3/8 Nipple | 1 | 16 | 62502622 | Press Gauge 0-300 PSI Liquid Filled | 1 |
| 3 | NA | NA | NA | 17 | 62500731 | Fitting, 1/2 Stem x 3/8 JG | 1 |
| 4 | 62501963 | Check Valve, 3/8 Poly | 1 | 18 | 62502616 | Body, SS 1/4 MNPT | 1 |
| 5 | 625-005-949 | Fitting Male Conn 3/8T x 3/8 NPT JG | 1 | 19 | 62501142 | Orifice Plate #75 (XLE Mem Standard) | 1 |
| 6 | 62502606 | Fitting, SS Tee 1/2 x 1/2 x 1/2 | 1 | 19 | 625-004-270 | Orifice Plate #55 (TW30 Mem) | 1 |
| 7 | 62502594 | Dual Check Valve, 1/2 | 1 | 20 | 62502617 | Adapter, 1/4 NPT SS | 1 |
| 8 | 62502620 | Fitting, SS 1/2 x 3/8 Hex Nipple | 1 | 21 | 625-004-944 | Fitting, 1/4M x 1/4T JG | 1 |
| 9 | 62500544 | Fitting, SS 3/8 Tee FNPT | 4 | 22 | 625-001-903 | Tubing, 1/4 Pe | 1.2 |
| 10 | 62502621 | Fitting, SS 3/8 Close Nipple | 2 | 23 | 62502603 | Fitting, SS Nipple 1/2 | 2 |
| 11 | 62502626 | Solenoid, LF Solenoid 3/8 | 1 | 25 | 62500496 | Fitting, 3/8 Plug In Elbow, JG | 1 |
| 12 | 625-005-940 | Fitting, 3/8M x 1/4T JG | 1 | 26 | 62500524 | Fitting, 1/2 Union Elbow JG | 1 |
| 13 | 62502669 | Fitting, 1/4 Street Elbow SS | 1 | 27 | 62502634 | Fitting, SS Nipple 3/8 x 1 1/2 | 2 |
| 14 | 62502632 | Valve, 1/4 x 3/8T LF Brass | 1 | 28 | 62501721 | Clip 1/2 Lock | 1 |

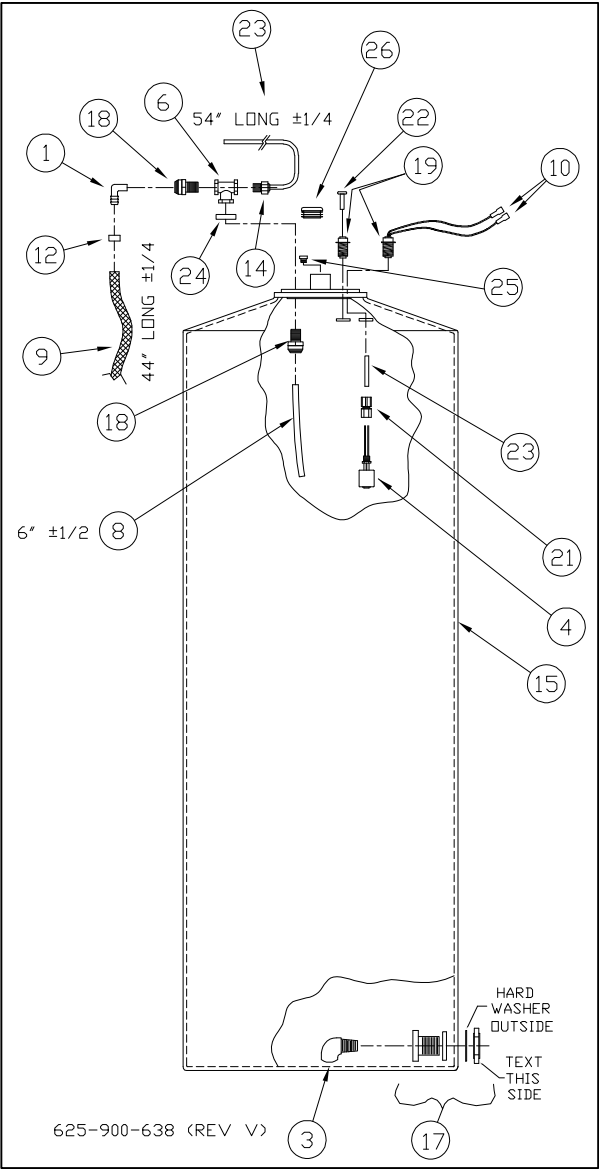
PLUMBING COMPONENTS INLET ASSEMBLY



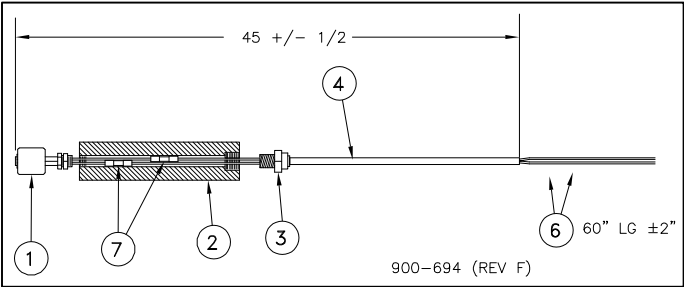
| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|------------------------------------|------|----------|-------------|---------------------------------------|------|
| 1 | 62502608 | Weldment, SS Bulkhead, 1/2 Flanged | 1 | 11 | 62502594 | Dual Check Valve, LF 1/2" | 1 |
| 2 | 62502603 | Fitting, SS Close Nipple 1/2 MNPT | 3 | 12 | *62502626 | Valve, 3/8 Solenoid 120 VAC LF | 1 |
| 3 | 62502596 | Valve, SS 2 Way Ball, 1/2 F | 1 | 13 | 62502611 | Fitting, Nylon Reducer Coup 3/4 x 1/2 | 1 |
| 4 | 62502606 | Fitting, SS Tee 1/2 FNPT | 1 | 14 | 62501752 | Strainer, Fine 100 Mesh | 1 |
| 5 | 62502716 | Fitting, SS RB 1/2 x 1/4 | 1 | 15 | 62501753 | Strainer, Coarse 20 Mesh | 2 |
| 6 | 62502593 | Press Switch, SPDT | 1 | 16 | 62502612 | Strainer Assembly, Inc 13 Thru 15 | 1 |
| 7 | 62500691 | Terminal, Solderless 1/4 M | 4 | 17 | 62500123 | Term, Solderless Cap 22-16 Ga | 1 |
| 8 | 62502602 | Fitting, SS RB 3/4 x 1/2 | 1 | 18 | 62502620 | Fitting, SS 1/2 x 3/8 Nipple | 1 |
| 9 | 625-005-976 | Fitting, JG 1/2 T x 3/8 M | 1 | 19 | 62502873 | Hose Clamp 1 7/16 Diameter | 2 |
| 10 | 62502715 | Fitting, SS Nipple 1/2 x 1/2 | 1 | | | | |

* Recommended Spare Parts ** Additional Recommended Spare Parts

45 GALLON TANK ASSEMBLY



COIN MECH. UNITS ONLY

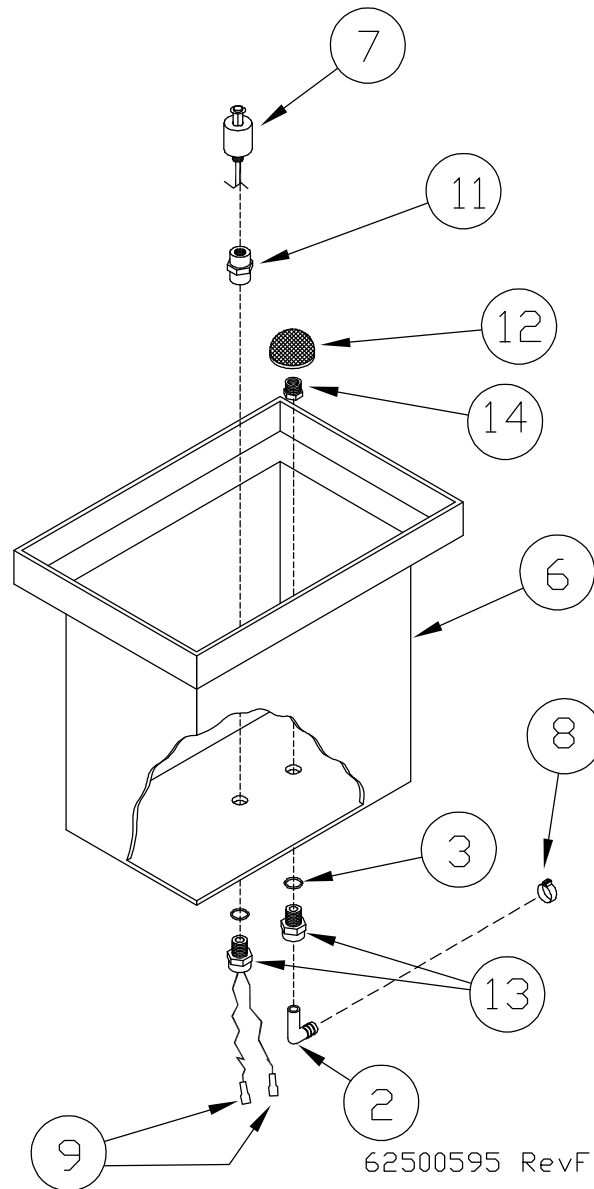


| REF NO. | PART NUMBER | DESCRIPTION | QTY |
|---------|-------------|-----------------------------|-------|
| | 625-900-694 | Complete Float Switch Assy. | 1 |
| 1 | 625-001-325 | Float Switch | 1 |
| 2 | 625-900-693 | Adapter, PVC | 1 |
| 3 | 625-004-944 | Fitting, 1/4T x 1/4 MPT JG | 1 |
| 4 | 625-001-903 | Tubing, 1/4 PE | 3.1 |
| 5 | N/A | N/A | N/A |
| 6 | 625-002-294 | Wire, Brown 20ga | 14 ft |
| 7 | 625-001-262 | Butt Crimp Connector | 2 |

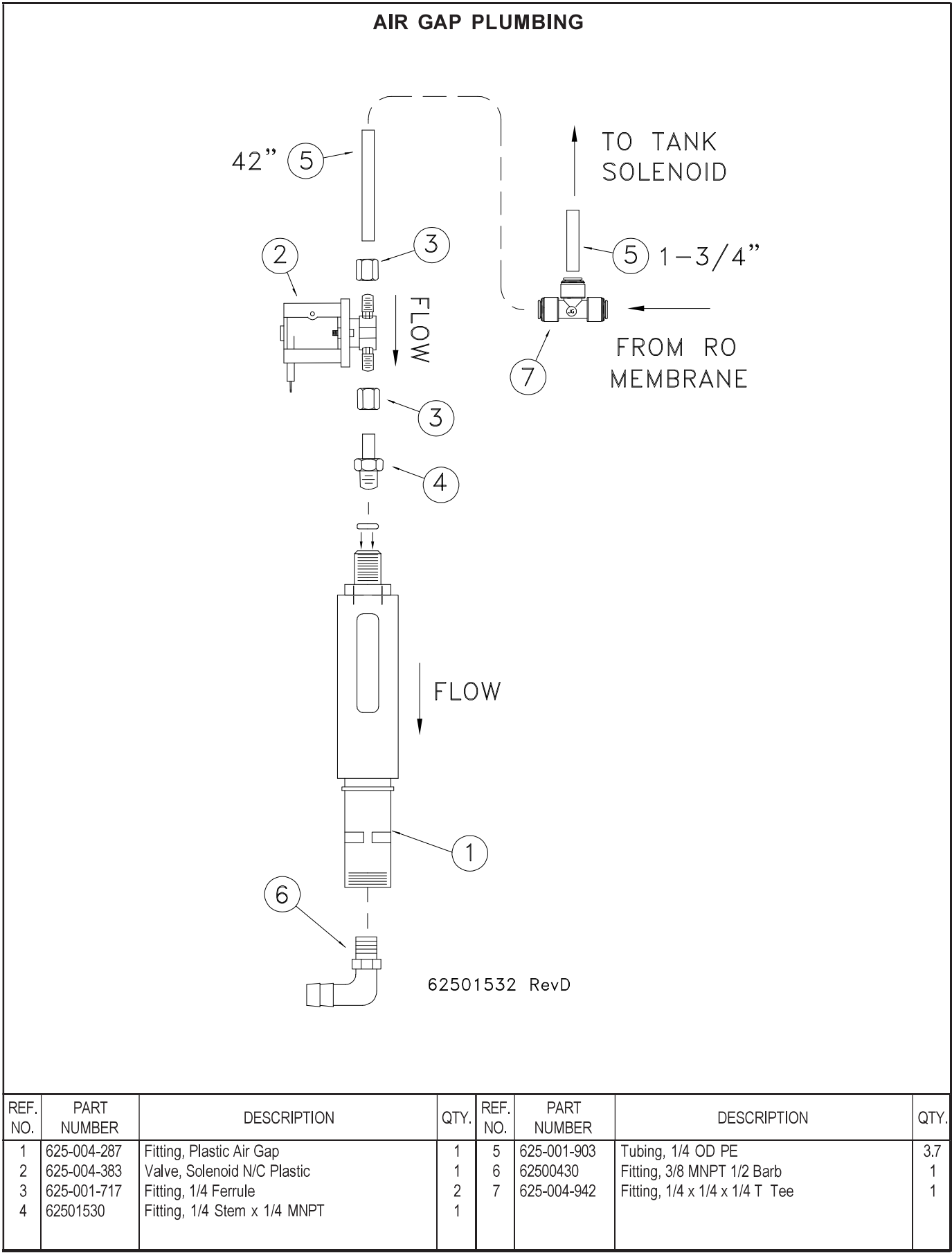
| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|--------------|-----------------------------------|------|----------|-------------|------------------------------------|------|
| 1 | 625-005-998 | Fitting, Barb 3/8 x 3/8 90° | 1 | 14 | 625-004-944 | Fitting, Connector 1/4 T x 1/4 NPT | 1 |
| 2 | NA | NA | NA | 15 | 625-900-637 | Tank, Drilled | 1 |
| 3 | 62501655 | Adapter-Street 90° 1/2 NPT | 1 | 16 | NA | NA | NA |
| 4 | *625-001-325 | Level Switch | 1 | 17 | 62502749 | Bulkhead 1/2 x 1/2 NPT | 1 |
| 5 | NA | NA | NA | 18 | 62500493 | Fitting, 1/4 M x 3/8 T | 2 |
| 6 | 625-002-956 | Fitting, 1/4 Nylon Tee TT4 | 1 | 19 | 62501722 | Fitting, Bulkhead 1/4 T x 1/4 T | 2 |
| 7 | NA | NA | NA | 20 | 62501723 | Foam, 1-1/4 SQ x 1-1/2 (Old Style) | 2 |
| 8 | 625-001-901 | Tubing, PE 3/8 OD | 0.5 | 21 | 62501724 | Fitting 1/4 T x 1/8 FNPT | 1 |
| 9 | 625-001-920 | Hose, PVC Braided 3/8 ID x 5/8 OD | 3.7 | 22 | 62500582 | Fitting, 1/4 Plug John Guest | 1 |
| 10 | 62500691 | Quick Slide, 1/4 M 18-22 AWG | 2 | 23 | 625-001-903 | Tubing, PE 1/4 | 4.7 |
| 11 | NA | NA | NA | 24 | 625-004-467 | Rubber Washer | 1 |
| 12 | 625-002-876 | Hose Clamp, 14.5mm-17mm OD SS | 1 | 25 | 62502174 | Filter, Tank Breather 1/8 MNPT | 1 |
| 13 | NA | NA | NA | 26 | 62502858 | Plug, Plastic 1 3/8 OD | 1 |

* Recommended Spare Parts ** Additional Recommended Spare Parts

DRAIN TANK ASSEMBLY

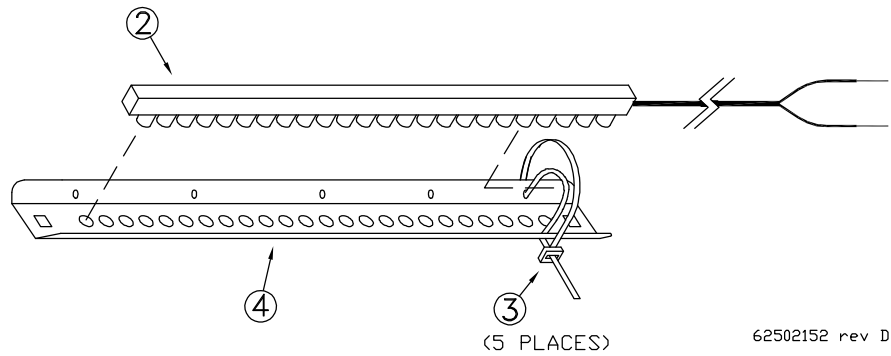


| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|---------------------------------|------|----------|-------------|--------------------------------|------|
| 1 | N/A | N/A | 1 | 8 | 625-002-875 | Hose, Clamp .69-.59 OD Plastic | 1 |
| 2 | 625-005-998 | Fitting, 3/8 Stem x 3/8 Barb JG | 1 | 9 | 62500691 | Terminal, 1/4 M 22-18 Full Ins | 2 |
| 3 | 625-001-500 | O-Ring, 014 70HD Buna-N | 2 | 10 | N/A | N/A | 1 |
| 4 | N/A | N/A | N/A | 11 | 62502748 | Fitting, Nylon 1/4 F x 1/8 F | 1 |
| 5 | N/A | N/A | N/A | 12 | 62500984 | Strainer | 1 |
| 6 | 625-001-121 | Tank, Drain 2 Gal (W/O Holes) | 1 | 13 | 62500493 | Fitting, 3/8 T x 1/4 M NPT, JG | 2 |
| 7 | 625-001-325 | Level Switch | 1 | 14 | 62500578 | Fitting, 3/8 x 1/4 RB | 1 |



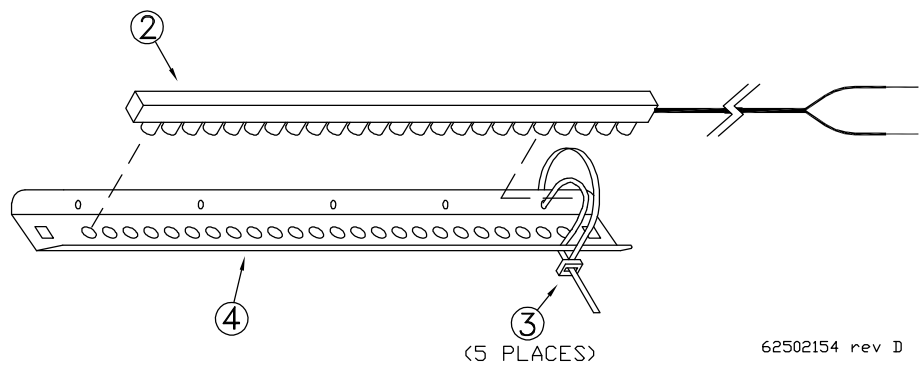
* Recommended Spare Parts ** Additional Recommended Spare Parts

WHITE DISPENSER LED



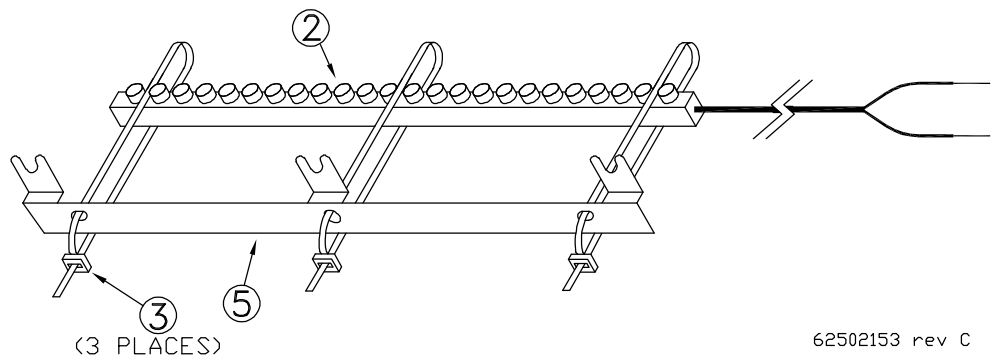
62502152 rev D

BLUE DISPENSER LED



62502154 rev D

WHITE SELECTION BUTTON LED

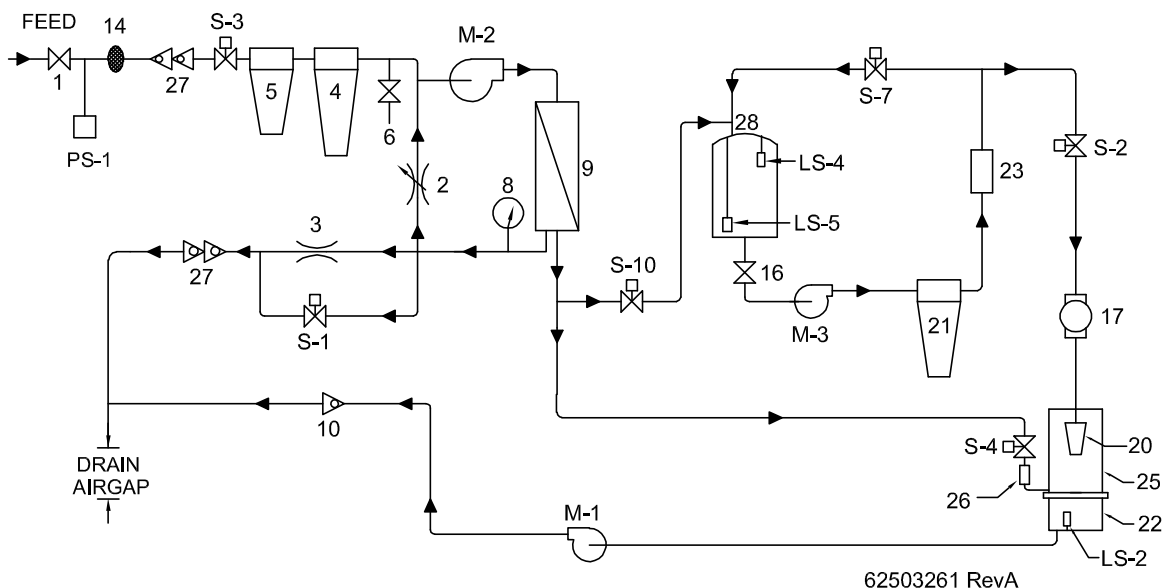


62502153 rev C

| REF. NO. | PART NUMBER | DESCRIPTION | QTY. | REF. NO. | PART NUMBER | DESCRIPTION | QTY. |
|----------|-------------|----------------------|------|----------|-------------|-------------------------------|------|
| 1 | N/A | N/A | N/A | 3 | 625-001-469 | Wire Tie, Nylon | 5 |
| 2 | 62502071 | Blue LED Strip 9.5" | 1 | 4 | 62502073 | Bracket, Dispenser Light LED | 1 |
| | 62502070 | White LED Strip 9.5" | 2 | 5 | 62502072 | Bracket, Selection Button LED | 1 |

* Recommended Spare Parts ** Additional Recommended Spare Parts

1840 FLOW DIAGRAM (WITH CLICK PLC)



62503261 RevA

| REF. NO. | PART NUMBER | DESCRIPTION | REF. NO. | PART NUMBER | DESCRIPTION |
|----------|--------------|---|----------|--------------|---|
| 1 | 62502596 | Ball Valve 1/2" FNPT LF | 22 | 625-001-121 | Dispenser Drain Tank, W/O Holes |
| 2 | 62502632 | Needle Valve 1/4 M x 3/8 Comp LF | 23 | 62500859 | UV Light Assy with Bulb (120 VAC 50/60HZ) |
| 3 | 62501142 | Orifice Plate #75 (w/XLE-4040 Element) | | *62500854 | Replacement Bulb |
| 4 | 625-004-588 | Filter Housing #20 | | 62500855 | Quartz Sleeve |
| | *625-005-822 | Filter Cartridge, 20" Carbon | 24 | N/A | N/A |
| 5 | 625-001-560 | Filter Housing 10" | 25 | N/A | Dispenser Assy |
| | *625-002-392 | Filter Cartridge, 10" Sediment 1 Micron | 26 | 625-004-287 | Device, Air Gap |
| 6 | 625-005-193 | Ball Valve, PVC 3/8F | 27 | 62502594 | Dual Check Valve, 1/2" LF |
| 7 | N/A | N/A | 28 | 625-900-637 | Tank 45 Gallon |
| 8 | 62502622 | Pressure Gauge 0-300 PSI Liquid Filled LF | 29 | N/A | N/A |
| 9 | 62501528 | Vessel Assembly W/O Membrane | 30 | N/A | N/A |
| | 62501113 | Membrane, XLE-4040 | LS-2 | *625-001-325 | Level, Float Switch NC |
| 10 | 62501963 | Check Valve, 3/8 FNPT Poly | LS-4 | 625-001-325 | Level, Float Switch NC |
| 11 | N/A | N/A | LS-5 | 625-001-325 | Level, Float Switch NC |
| 12 | N/A | N/A | M-1 | **62501748 | Drain Pump |
| 13 | N/A | N/A | M-2 | 62500484 | Motor, 1/2 HP (1840 Series, V-Band Mount) |
| 14 | 62502612 | Strainer Assembly, 1/2 FNPT Nylon | | *62502600 | Pump, LF Brass 4 GPM V-Band Mount |
| 15 | N/A | N/A | M-3 | 625-004-385 | Dispenser Pump, Flojet 3.5 GPM |
| 16 | 62501652 | Ball Valve PVC, 1/2" | PS-1 | 62502593 | Pressure Switch 1/4 MNPT 5 PSI |
| 17 | 62500658 | Water Meter, Plastic (Gallon) | S-1 | 62502626 | Solenoid Valve Brass LF 3/8 FNPT |
| | 62500790 | Water Meter, Plastic (Metric Optional) | S-2 | **62501392 | Solenoid Valve 1/2" 5 GPM |
| | 62500661 | Sensor Assembly W/Cable | S-3 | 62502626 | Solenoid Valve Brass LF 3/8" FNPT |
| 18 | N/A | N/A | S-4 | 625-004-383 | Solenoid Valve 1/4" NC Plastic |
| 19 | N/A | N/A | S-7 | 625-004-483 | Solenoid Valve 3/8" NC Plastic w/Flow Control |
| 20 | 62501818 | Nozzle Assembly, W/Screen 1/2" | S-10 | 625-004-383 | Solenoid Valve 1/4 NC Plastic |
| | 62501815 | Nozzle Screen 1/2" | | 625-001-717 | Nut 1/4" Jayco |
| 21 | 625-001-560 | Filter Housing 10" | | | |
| | *625-001-574 | Filter Carbon 10" | | | |

NOTES:

LOG SHEET

LOCATION:

| | | | | | |
|----------------------------|--|--|--|--|--|
| DATE: | | | | | |
| TDS FEED (ppm) | | | | | |
| TDS R/O (ppm) | | | | | |
| SYSTEM PRESSURE | | | | | |
| TANK PRESSURE (Charged) | | | | | |
| WATER METER READING (Gal.) | | | | | |
| D.I. TANK READING (Gal.) | | | | | |
| GALLONS VENDED | | | | | |
| UV INTENSITY | | | | | |
| CHLORINE LEVEL | | | | | |

MACHINE MAINTENANCE (check ✓ when serviced)

| | | | | | |
|--|--|--|--|--|--|
| DATE: | | | | | |
| UV LIGHT CHANGED | | | | | |
| PRE-CARBON FILTER | | | | | |
| SEDIMENT FILTER | | | | | |
| R.O. POST CARBON FILTER | | | | | |
| SALT TANK LEVEL (water softener pretreatment) | | | | | |
| CLEAN DRAIN SCREEN (1800 Series) | | | | | |
| CLEAN & SANITIZE VENDING NOZZLE/DISPENSER HOUSING | | | | | |
| CHECK LEVEL SWITCH (safety float) | | | | | |
| CLEAN DRAIN TANK | | | | | |
| EXTERNAL: CARBON TANK CHANGED (Gal.) | | | | | |
| OPERATOR INITIALS | | | | | |

COSTER WATER WARRANTY

The only warranty Coster Water gives is as follows:

Coster Water warrants each product it manufactures to be in accordance with our published specifications or those specifications agreed to by us in writing at time of sale. Our obligation and liability under this warranty is expressly limited to repairing or replacing, at our option, within one year from the date of shipment, to the original purchaser, any product not meeting the specification. **WE MAKE NO OTHER WARRANTY, EXPRESS OR IMPLIED AND MAKE NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR ANY PARTICULAR PURPOSE.** Our obligation under this warranty shall not include any costs or any liability for direct, indirect or consequential damage or delay. If requested by Coster Water, products or parts for which a warranty claim is made are to be returned freight prepaid to our factory. Any improper use, operation beyond rated capacity, substitution of parts not approved by Coster Water, or any alteration or repair by others in such manner as in our judgment affects the product materially and adversely shall void this warranty. **NO EMPLOYEE OR REPRESENTATIVE IS AUTHORIZED TO CHANGE THIS WARRANTY IN ANY WAY OR GRANT ANY OTHER WARRANTY.**

Coster Water reserves the right to make improvement changes, alter features, specifications, options and standard equipment on any of our products without notice and incurrence of obligation on prior manufactured machines.

WARRANTY DOES NOT APPLY to depreciation, parts replacement, maintenance, damage and service necessitated by **NORMAL WEAR**, misuse, lack of proper maintenance, accident, negligence or failure to follow specified operational instructions. Products not covered include, but are not limited to: filters, lamps, reverse osmosis membranes, and deionization resin which normally require periodic replacement or regeneration.

Products not manufactured by Coster Water may or may not be covered under warranties supplied by the original manufacture and shall be subject to their warranty limitations.

Repair or replacement of a product does not extend the original warranty.

No reimbursement will be made for labor for repair of any kind without prior authorization from Coster Water.

A DELIVERY REPORT FORM must be completed and received by Coster Water to initiate the warranty coverage.

Coster Water
Corporate
217 E Plum Street
Mankato, MN 56001

Coster Water
Production Warehouse
201 East Street S
Vernon Center, MN 56090