



***DEXTER***<sup>®</sup>  
***LAUNDRY***

**USE THE BLUE TABS LOCATED ON THE  
RIGHT AND LEFT SIDES OF THE FOLLOWING  
DOCUMENT TO ADVANCE TO EACH SECTION.**










**DEXTER**  
LAUNDRY



C-Series Vended Washers  
WC1800XA-12EC4X  
Non-Express (100G)

## Equipment Safety Warnings Symbols and Terminology Used in this Equipment

 <b>DANGER</b>	Indicates an imminently hazardous situation, which if not avoided, will result in death or serious injury.
 <b>WARNING</b>	Indicates a potentially hazardous situation, which if not avoided could result in death or serious injury.
 <b>CAUTION</b>	Indicates a potentially hazardous situation which, if not avoided, may result in minor or moderate injury. It may also be used to alert against unsafe practices. Minor burns, pinch points that result in bruises and minor chemical irritation.
<b>NOTICE</b>	Indicates information or a company policy that relates directly or indirectly to the safety of personnel or protection of property.
	This is the user caution symbol. It indicates a condition where damage to the equipment resulting in injury to the operator could occur if operational procedures are not followed. <b>TO REDUCE THE RISK OF DAMAGE OR INJURY, refer to accompanying documents; follow all steps or procedures as instructed.</b>
	This is the electrical hazard symbol. It indicates that there are <b>DANGEROUS HIGH VOLTAGES PRESENT</b> inside the enclosure of this product. <b>TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, do not attempt to open the enclosure or gain access to areas where you are not instructed to do so. REFER SERVICING TO QUALIFIED SERVICE PERSONEL ONLY</b>
	Caution! There are sharp edges on various sheet metal parts internal to the enclosure. Use safety consciousness when placing or moving your hands while working in the interior of this equipment.
	Caution! To reduce the risk of damage to the Water Inlet Valve, do not supply inlet water with a temperature that exceeds 70° C.  Caution! To reduce the risk of fire or explosion, do not operate this equipment in any hazardous classified (ATEX) environment.

## Equipment Safety Warnings Symbols and Terminology Used in this Equipment



Warning! Do not operate equipment if door glass is damaged in any way.



Warning! Keep clear of rotating parts.



Prohibited! Do not enter this equipment or space.



Prohibited! Do not step or stand on this equipment.



Prohibited! Do not operate without all guards and covers in place.










Prohibited! Do not operate without all guards and covers in place.



Prohibited! Do not wash clothing impregnated with flammable liquids (petrochemical).



Prohibited! Do not allow children to play in or around equipment.

	<b>DANGER</b> Indicates an imminently hazardous situation, which if not avoided, <u>will result</u> in death or serious injury.
	<b>WARNING</b> Indicates a potentially hazardous situation, which if not avoided <u>could result</u> in death or serious injury.
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	Caution! To reduce the risk of fire or explosion, do not operate this equipment in any hazardous classified (ATEX) environment.



## WARNING

	<ul style="list-style-type: none"> <li>• All washers must be installed in accordance to all applicable electrical, plumbing and all other local codes.</li> <li>• These installation and operation instructions are for use by qualified personnel only. To avoid injury and electrical shock, do not perform any servicing other than that contained in the installation and operation instructions, unless qualified.</li> </ul>
	Do not install washers in an explosive atmosphere.
	<ul style="list-style-type: none"> <li>• Care must be stressed with all foundation work to ensure a stable unit installation, eliminating possibilities of excessive vibration.</li> <li>• Foundation must be level within 13 mm to ensure proper washer operation.</li> </ul>
	Do not operate washer if door glass is damaged in any way.
	Do not wash clothing impregnated with flammable liquids (petrochemical).



## WARNING







	Children should be supervised to ensure they do not operate or play in or around equipment.
	Keep all panels in place to protect against electrical shock and injury and add rigidity to washer.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

A washer should not be allowed to operate if any of the following occur:

- Excessive high water level.
- Machine is not connected to a properly earthed circuit.
- Door does not remain securely locked during the entire cycle.
- Vibration or shaking from an inadequate mounting or foundation.

	<b>Warning! Do not operate equipment if door glass is damaged in any way.</b>
	<b>Warning! Keep clear of rotating parts.</b>
	<b>Prohibited! Do not enter this equipment or space.</b>
	<b>Prohibited! Do not step or stand on this equipment.</b>
	<b>Prohibited! Do not operate without all guards and covers in place.</b>
	<b>Prohibited! Do not operate without all guards and covers in place.</b>
	<b>Prohibited! Do not wash clothing impregnated with flammable liquids (petrochemical).</b>
	<b>Prohibited! Do not allow children to play in or around equipment.</b>

	<b>Prohibited! Do not attempt to open, touch, or proceed before referring to the manual or unless qualified.</b>
	<b>Mandatory! Read all supporting documentation before operating or maintaining equipment.</b>
	<b>Mandatory! Disconnect power before servicing equipment.</b>
	<b>Mandatory! Lock out and tag out before servicing this equipment.</b>
	<b>Mandatory! Disconnect water supply before servicing equipment.</b>
	<b>Mandatory! Children should be supervised to ensure they do not operate equipment.</b>

Notes

# Dexter Safety Guidelines



**These washers are equipped with devices and features relating to their safe operation. To avoid injury or electrical shock, do not perform and service, unless qualified to do so.**

## FOR SAFETY

1. Always shut off power and water supply and also discharge capacitors before servicing.
2. Do not overload the washer.
3. Do not attempt to open door if cylinder is in motion or contains water.
4. Do not mechanically force or override door lock in any way.
5. Do not bypass any safety devices of this washer.
6. Do not use volatile or flammable substances in or near this washer.
7. Keep all panels in place. They protect against shock and injury and add rigidity to the washer.

### **A machine should not be allowed to operated if any of the following occur:**

- Excessively high water level.
- Machine is not connected to a properly grounded circuit.
- Loading door does not remain securely locked during the entire cycle.
- Vibration or shaking from an inadequate mounting or foundation.

To activate your warranty, be sure to return your red warranty form to the factory. Please have serial number and model ready when calling for assistance.

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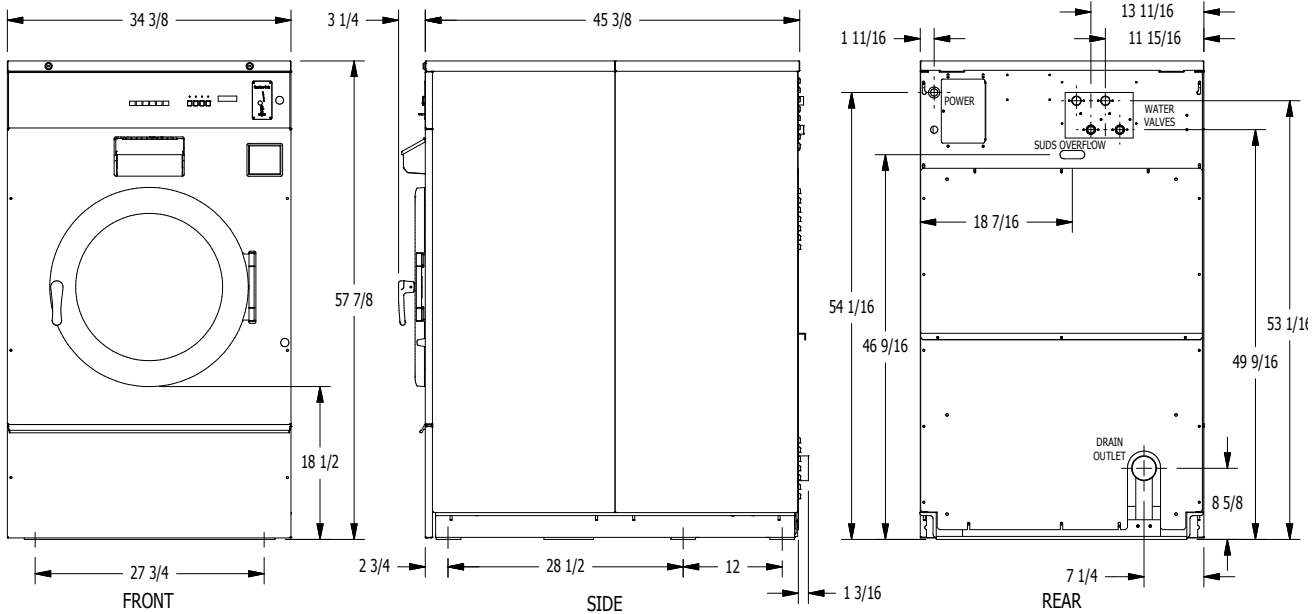




Specifications for below models  
are outlined in this book:

WC1800-XA12ECX    208-240 volts    60hz    Single Phase or Three Phase

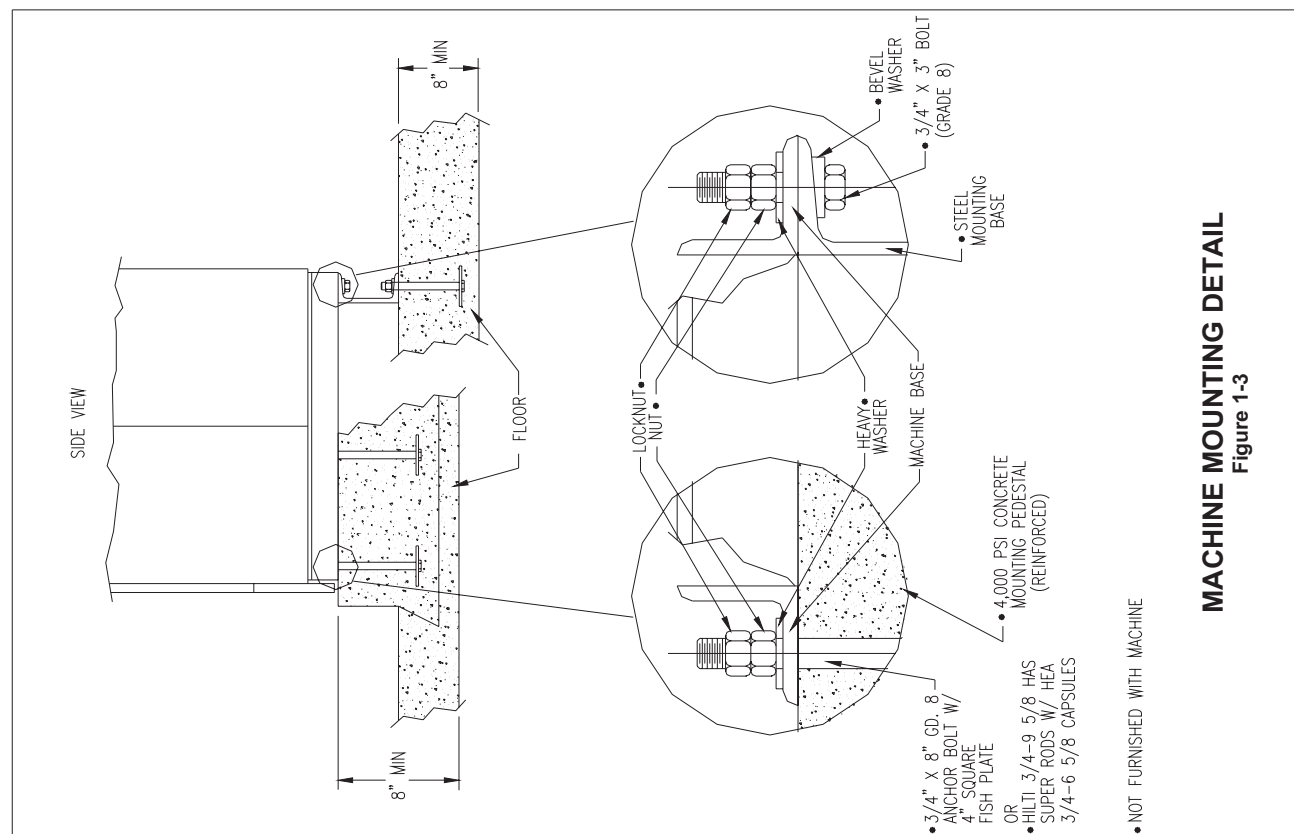
T-1800 Machine Dimensions



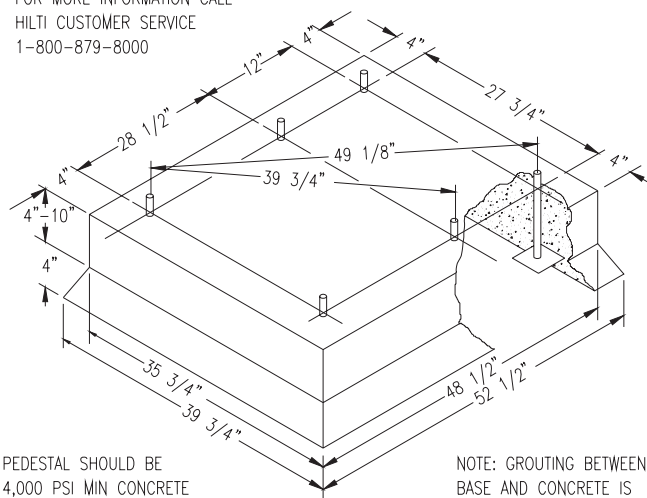
# Section 1:

## Machine Mounting

# T-1800 Mounting Pad Dimensions

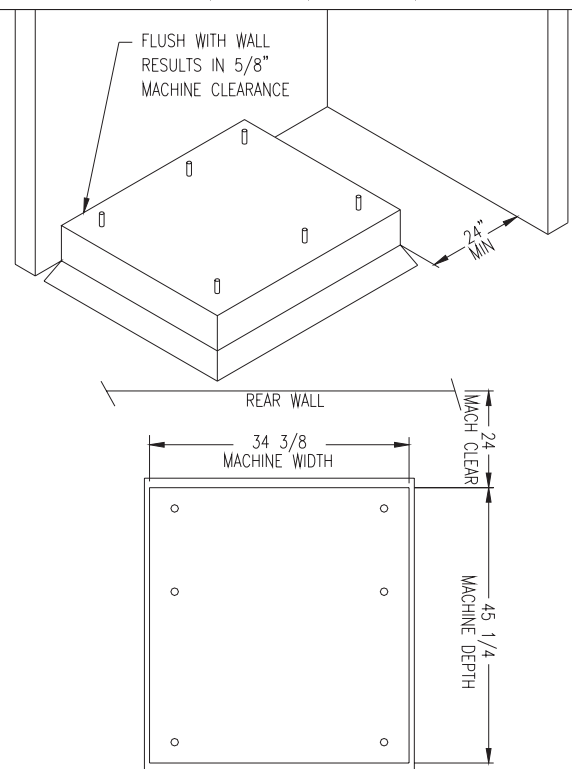


3/4" X 8" GD. 8 BOLTS HEADED BY 4" SQ. FISH PLATE OR EQUIV.  
OR  
"HILTI" ADHESIVE ANCHORING SYSTEM.  
USE HILTI "HEA" 3/4-6 5/8 ADHESIVE CAPSULES AND HILTI "HAS" SUPER RODS 3/4-9 5/8  
FOR MORE INFORMATION CALL HILTI CUSTOMER SERVICE  
1-800-879-8000



**CONCRETE PEDESTAL MOUNTING**

Figure 1-1



**FLOOR OUTLINE**

Figure 1-2

## Notes

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# Section 2:

## Machine Installation & Operating Instructions

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## Installation & Operation

**All washers must be installed in accordance with all local, state and national building, electrical, and plumbing codes in effect in the area.**

### Foundation Requirements

The washer must be securely bolted to a substantial concrete floor, or mounted upon a suitable base which is in turn securely bolted to a substantial concrete floor. Care must be stressed with all foundation work to insure a stable unit, eliminating vibration. All installations must be made on sound concrete floors. See mounting dimensions for each model being installed.

### Mounting

A concrete pad or steel base which elevates the machine 4 to 6 inches above the floor level. To provide easy access to the loading door, it is recommended to allow a minimum of 24" of clearance behind the rear of the machine for service as is shown. Dexter highly recommends the use of a dry expansion grout mix.

### Proper Machine Grout Installation

Grout should be installed between base (if used) and concrete floor on all side rails and crossmembers. If using a base you should grout between base top and machine frame and all side rails and crossmembers. (Grouting between the machine base and the floor is absolutely required for all 200G Express Models)

### Mounting Holes

See mounting dimensions for the machine model you are installing in previous section. They also show a typical concrete pad arrangement. It is highly recommended that you use all mounting holes supplied with each model. Note: Mounting bolts should be checked frequently to insure that they remain tight. The machine should be checked with a spinning load to be sure there is no unusual vibration or movement between the machine and the base or floor. Please note: Machine grouting is highly recommended as grouting insures stability and longevity.

### Plumbing

Water supply hoses are furnished with each machine. The threaded connections on the hoses are standard garden hose type thread. Separate hot and cold water lines with shut off valves or faucets for inlet hose connections must be provided, maintaining 30 to 120 p.s.i. water flow pressure. Maximum water temperature is 180 degrees.

### Drain

The drain outlet tube at the rear of the machine is 3" in outside diameter on models T-1800. All drains are gravity drain. Adequate fall must be maintained for proper drainage.

### Protective Film

The machine may have protective adhesive film on the front escutcheon area and the front and side stainless steel panels. The film may be peeled off before putting the machine into service.

### Electrical

Dexter single/three-phase 208-240VAC 60 Hz washing machines are intended to be permanently installed appliances. No power cord is provided. The machine should be connected to an individual branch circuit not shared by lighting or other equipment. The connection should be sheathed in liquid tight flexible conduit, or equivalent, with conductors of the proper size and insulation. A qualified technician should make such connections in accordance with the wiring diagram.

A U.L. approved receptacle, which has been properly grounded in accordance with local electrical codes must be used with the machine. Each unit should be connected to an individual branch circuit not shared by lighting or other equipment. Conductors of the proper size and insulation (suggested size below) should be used.

### To Make Electrical Connections

Disconnect all power to the washer. Remove screw and lift out the cover located in the upper left corner

of the machine (as viewed from the back).

- If power is 208-240-3PH-60Hz, connect L1, L2, L3 and ground. If there is a high leg it must be connected to L3. It is highly recommended to use a TVSS.
- If power is 208-240-1PH-60Hz, connect L1, L2 and ground. If power is 120-1PH-60Hz, use a UL approved receptacle with proper external ground.

NOTE: It is important that the grounding screw next to the power terminal block TB-1 be connected to a good external ground.

### Controls Transformer

The controls transformer is located inside the control trough and steps a range of 208 to 240 volts down to 115 volts. There are two terminals on the controls transformer for the primary (incoming) power. Use the terminal marked "208V" for power supplies between 208 and 219 volts. Use the terminal marked "230V" for power supplies between 220 and 240 volts.

NOTE: transformer must be set at proper tap for proper operation.

## Electrical Connections

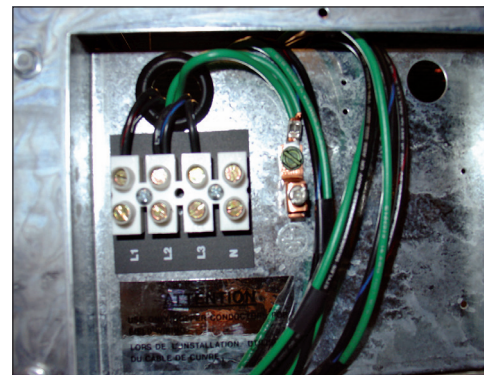
Electrical power connections are made to the small terminal block located in the rear of the control trough. The terminal block is accessed by opening the top panel of the machine.

- 1 Phase or 3 Phase connections
- 208-240 volts, 60 Hz.
- 3 wire plus ground
- Suggested Minimum Wire Size -- #10 Ga.

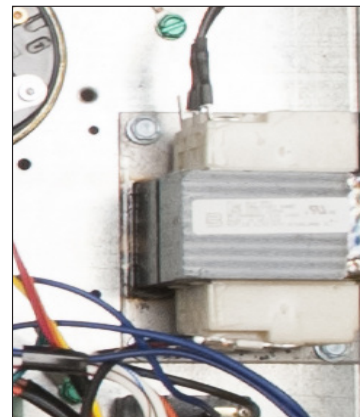
### Fusing Requirements:

Dual element time delay fuse or equivalent breaker of amperage specified below.

- 1 Phase or 3 Phase 30 amp
- WC1800



Rotation in extract as viewed through glass door at front of washer models WC1800 will be counter-clockwise.



**Always disconnect electrical power to the machine before performing any adjustments or service.**

## Emergency Stop / Safety Door Lock

This machine is equipped with a Safety Door Lock that locks the door closed from when the cycle is started until the cycle is complete. The door lock prevents opening the door for up to 3 minutes if the power is interrupted during the cycle.

The Emergency Stop button pauses the washer and allows the door to be opened during the cycle after the Safety Door Lock releases. When the Emergency Stop button is pressed an alarm will sound and the display will begin counting down from "3". If the button is released before 3 seconds elapse, the alarm will stop and the cycle will continue normally. If the Emergency Stop is held down for 3 seconds, the display will count down to "0" and the washer will begin stopping movement and water flow and begin draining water from inside the washer. Though the machine may stop wash movement quickly, it may take up to 3 minutes for the door to unlock. During that time the alarm will continue to sound. When the alarm stops, the door may be opened. The washer may be restarted by closing and latching the door, and pressing the Start button. If the washer was stopped during final extract, the cycle will be ended. If the washer is stopped for more than 1 hour, the cycle will be terminated. If the emergency stop is triggered a second time during the cycle, the cycle will be terminated.



## Operating Instructions

### Microprocessor

Prior to operation, the micro computer should be set to display the amount of vend price being offered and the cycle to be given to the user. NOTE: Should a power loss occur during cycle and when power returns, P U S H will be displayed in window and customer must push the START button to continue the cycle.

### Starting the Washer

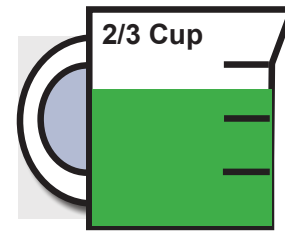
- Load the clothes loosely in the cylinder and latch the door securely. Be sure clothing does not get caught between the door gasket and tub front when closing the door.
- Pour low-sudsing powdered detergent in the amount shown below into the detergent dispenser on top of the machine. Rinse conditioners may also be added to the dispenser. The correct location is shown on the dispenser lid.

NOTE: To close the door the handle, must be in the horizontal position and then moved to the vertical position. After moving the door to the closed position, the handle must be turned down to the vertical position to latch the door for machine operation.

- Using the TEMPERATURE SELECT buttons on the front, select the desired temperature. If temperature pricing is being used you will display price changes as you push the desired temperature selection. This selection must be made before inserting coins to satisfy temperature price selected. If coins or value are added after extended plus cycle vend price is met it will be lost without credit. If water temperature pricing feature is active and vend price met and machine started the customer may change temperature selections of equal to or lower priced temperature selections already inserted into machine.

- D. Insert coins, tokens or activate card reader to meet displayed vending price. The washer will start, the display will read PUSH and the green "on" led will glow. The green start pushbutton must be pushed to start cycle time countdown and machine starting to run. "Door" will display if loading door is not closed and handle locked.
- E. If utilizing ADD PLUS CYCLE \$.000 option The front display will scroll, ADD PLUS CYCLE .25(example), amount to be added. User will have 1 minute to insert proper amount to activate this option.
- F. At the correct time in the wash bath cycle the display will scroll "ADD BLEACH" indicating the time for adding bleach if desired. The timing is 2 1/2 minutes after start of wash bath the light will come on and stay on for 2 1/2 minutes or end of wash bath.

## Detergent Measurements By Washer Model



**Magnum Load T-1800 Washer**

### End of Cycle

When the cycle is completed, the end of cycle buzzer will sound and the "on" light will go off. The loading door can now be opened by turning the door handle to the indicated position and pulling. Leave the clothes door open when the machine is not in use. Also, at the end of cycle the display will reset to the original amount required to start.

## TRANSIENT VOLTAGE SURGE SUPPRESSORS

Like most electrical equipment your new machine can be damaged or have its life shortened by voltage surges due to lightning strikes which are not covered by factory warranty. Local power distribution problems also can be detrimental to the life of electrical components. We recommend the installation of transient voltage surge suppressors for your new equipment. These devices may be placed at the power supply panel for the complete installation and don't require an individual device for each machine.

These surge protectors help to protect equipment from large spikes and also from small ongoing spikes in the power that occur on a day to day basis. These smaller surges can shorten overall life of electrical components of all types and cause their failure at a later date. Although they can't protect against all events, these protective devices have a good reputation for significantly lengthening the useful life of electronic components.

Electronic Components are helped to have a longer useful life when they are supplied with the clean stable electrical power they like.

We are including the following names and links to a few suppliers of these devices for those who don't currently have a source.

MANUFACTURER	LINK
MCG Surge Protection	<a href="http://mcgsurge.com">mcgsurge.com</a>
Eaton Corporation	<a href="http://eaton.com/us/en-us">eaton.com/us/en-us</a>
Schneider Electric	<a href="http://se.com/us/en">se.com/us/en</a>
Asco Power Technologies	<a href="http://ascopower.com/us/en">ascopower.com/us/en</a>
Emerson Electric Co.	<a href="http://emerson.com/en-us">emerson.com/en-us</a>

Notes

Lined area for notes on page 26.

Notes

Lined area for notes on page 27.

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## Section 3:

### Machine Programming Instructions

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### DexterLive

The new DexterLive controls were created for you to be able to interface easier with your equipment and create variable pricing cycles to increase your profitability in the same floor space.

First, log into DexterLive, create your location and equipment list and then create your cycle and pricing information by the particular type of washer and dryer at the location. Once the information is saved, download the "AllUser.xml" file to a USB device which will be used to program the machines from the USB port.

Keep it simple or use the marketing features such as temperature pricing, plus cycle or an additional final rinse that the customer can select for a value added wash. Utilize time of day pricing to help move people from heavy use periods to special value times of day or days of the week.

Through the easy to use USB programming so you can download all special pricing and cycles from DexterLive to set up your store quickly and easily.



#### Accessible

Available anytime, anywhere, on any internet capable device. Once you have set up your free account all of your custom settings and store information are saved making it quick and easy to make future changes.

#### Simple

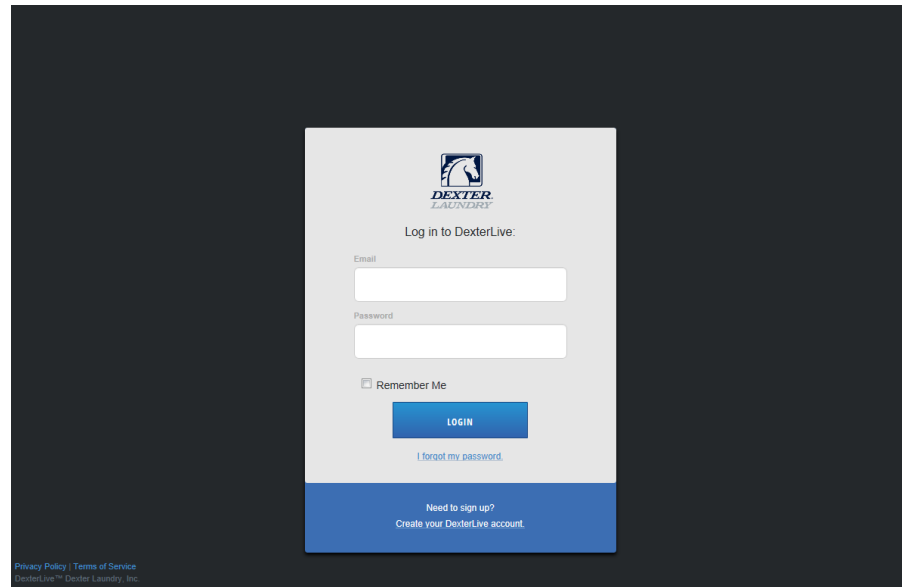
View and customize equipment settings to fit your business model. Download your unique user file and quickly transfer it to your equipment via USB.

#### Profitable

Create exciting promotions to attract new customers. Offer extra prewash, plus cycles, Extra rinse and temperature pricing to drive more revenue in your store.

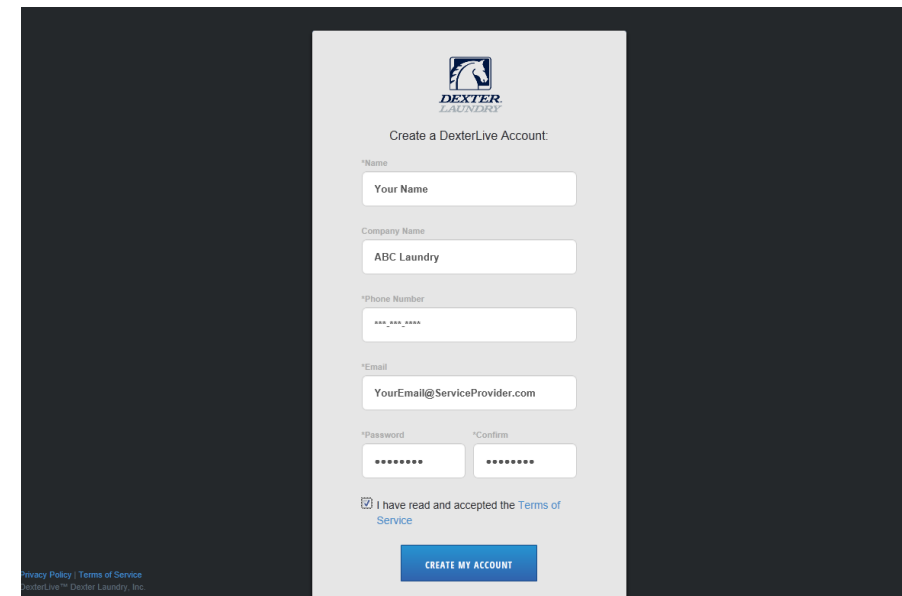
## First Time Creating an Account at Dexter Live

- 1) Log into DexterLive.  
At the bottom, select "Create your DexterLive account."



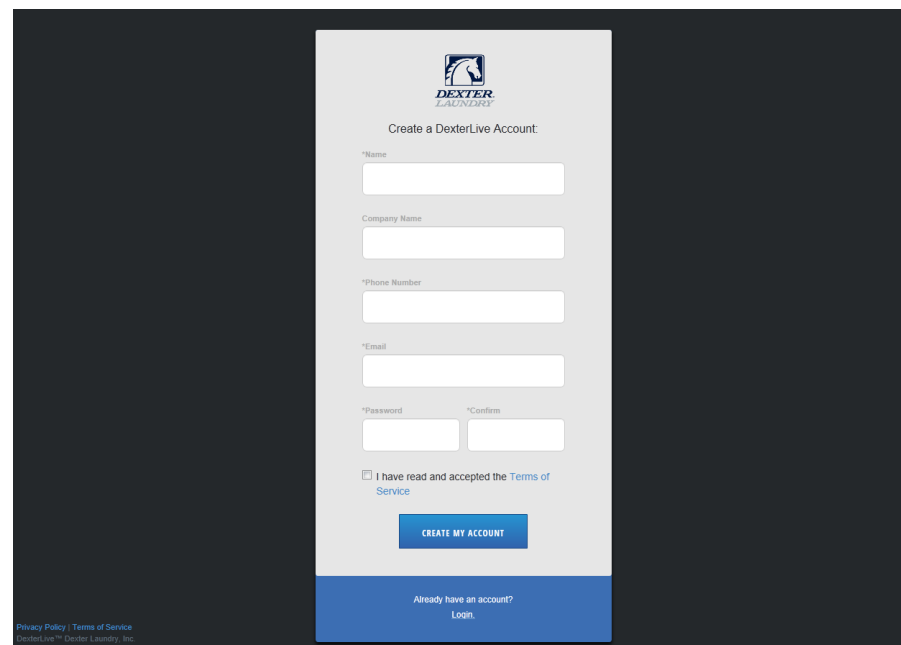
DexterLive gives an owner the ability to manage multiple locations.

- B. Fill in the required fields and click on "Create My Account".



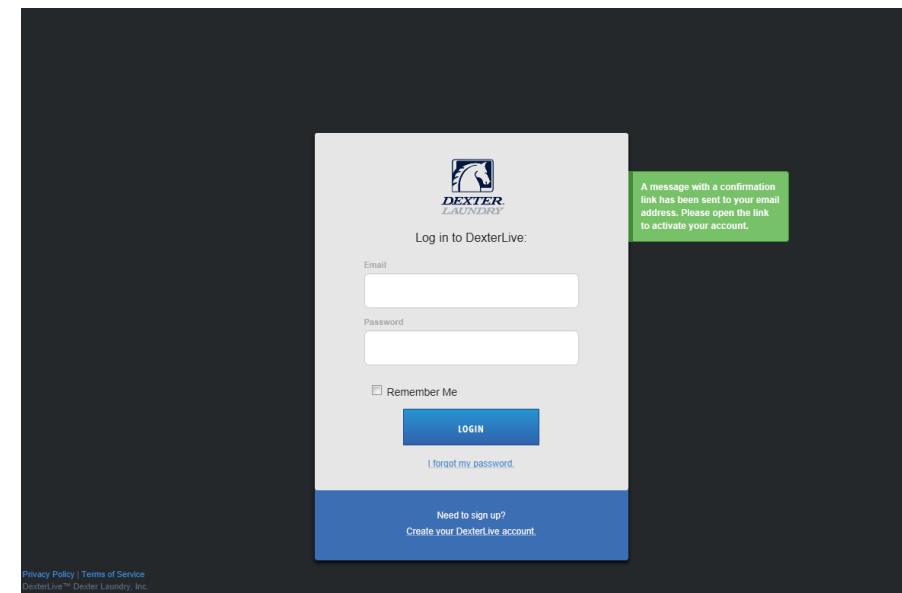
When creating a new user account make sure to fill in all fields marked with asterisks and check the "Terms of Service" box.

- 2) At the "Create a DexterLive Account" screen.
  - A. First time users must create an account.



An account must be created to use the DexterLive features.

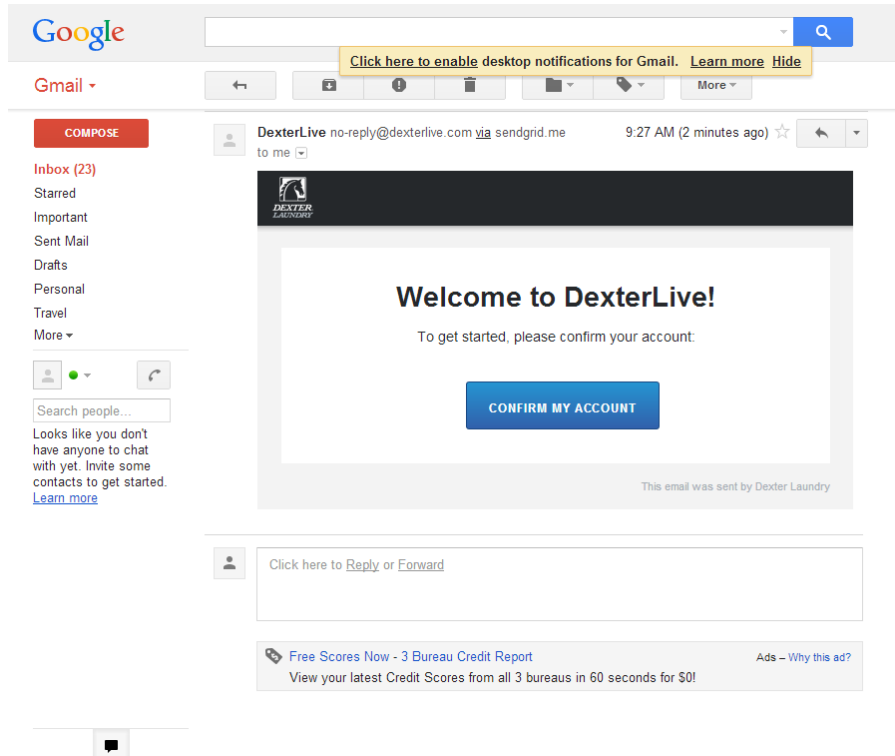
- C. After selecting to "Create My Account", you will see the log in screen advising you to go to your e-mail and activate your account.



After creating your account you will need to use the e-mail link to gain first access. The account will not be active until you confirm your account.

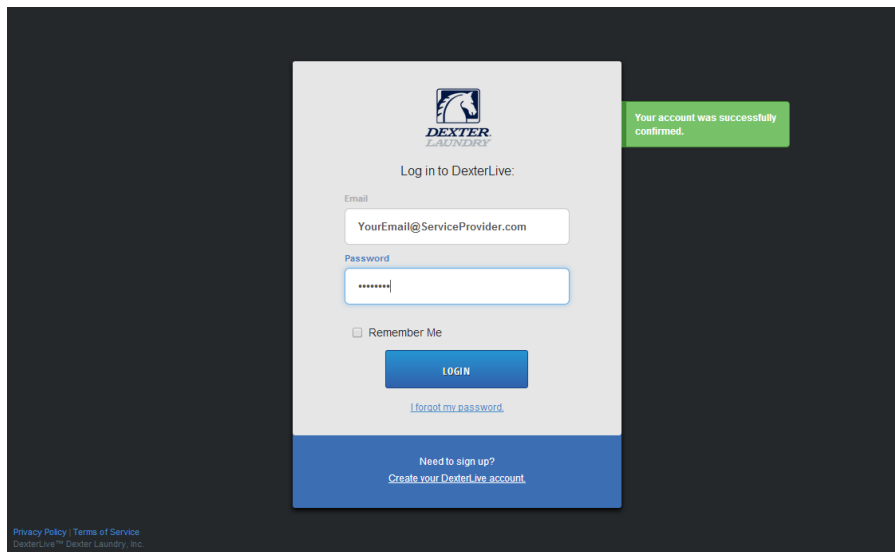


- 3) Open the e-mail sent from Dexterlive and select "CONFIRM MY ACCOUNT".



Selecting the "Confirm My Account" hyperlink will take you back to the DexterLive log in page.

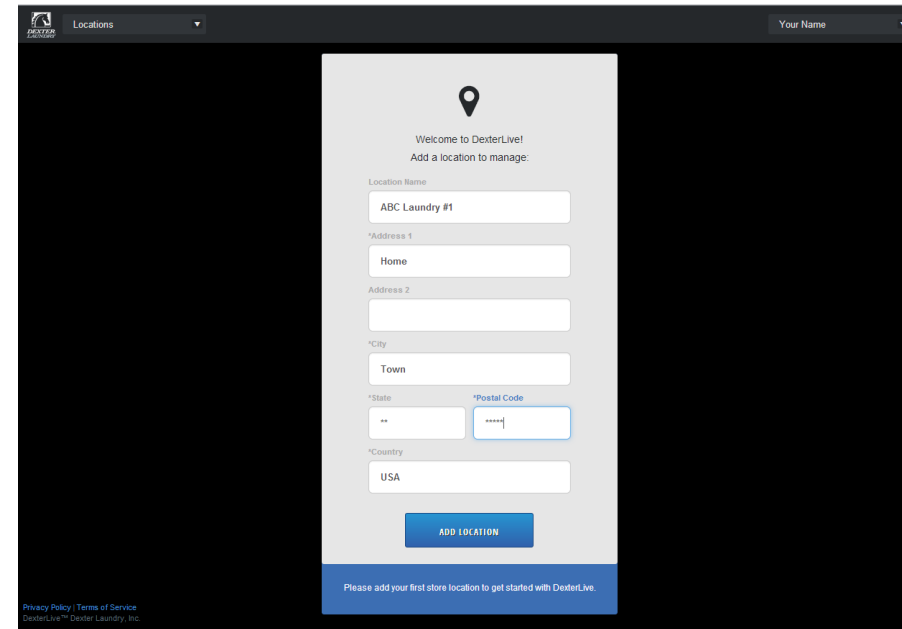
- 4) At the "Log into DexterLive" screen, enter your e-mail/user name and password to access DexterLive.



Welcome to DexterLive. Proceed to the step to create your location information.

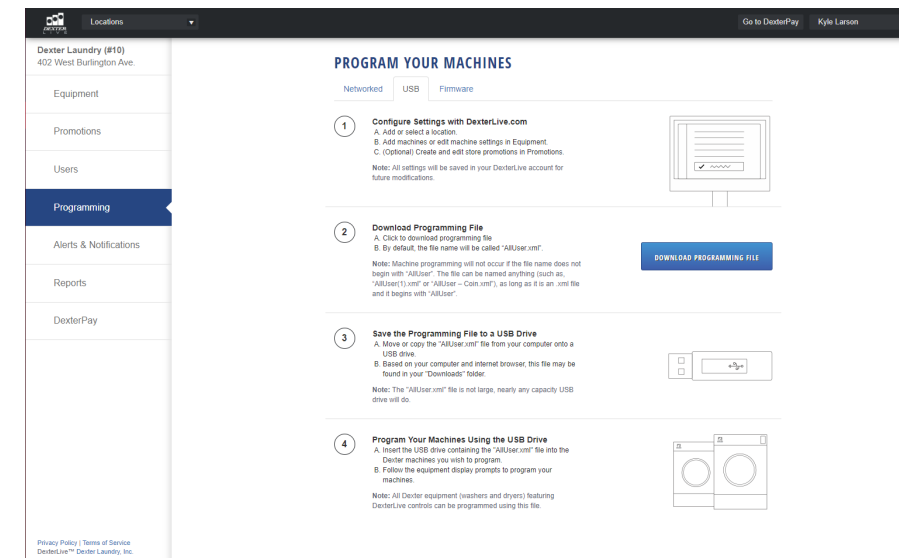
## Programming

- 5) To configure your settings with DexterLive.com:  
A. Add or select a location to program.



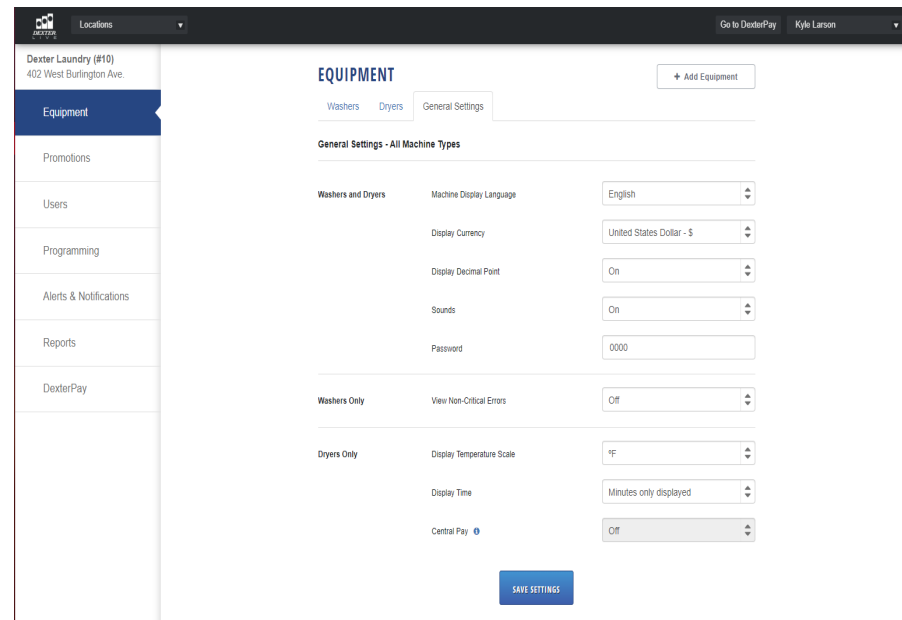
DexterLive gives an owner the ability to manage multiple locations and machines.

- B. On the left side of the screen, select the "Programming" tab.

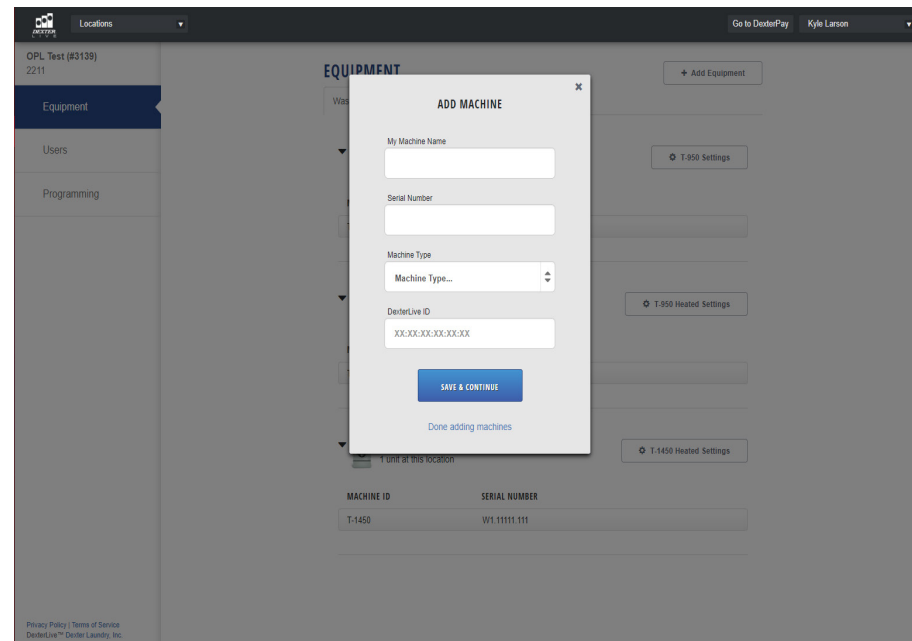


Follow instructions in the programming tab.

**C.** Edit the "General Settings" (Equipment Tab).

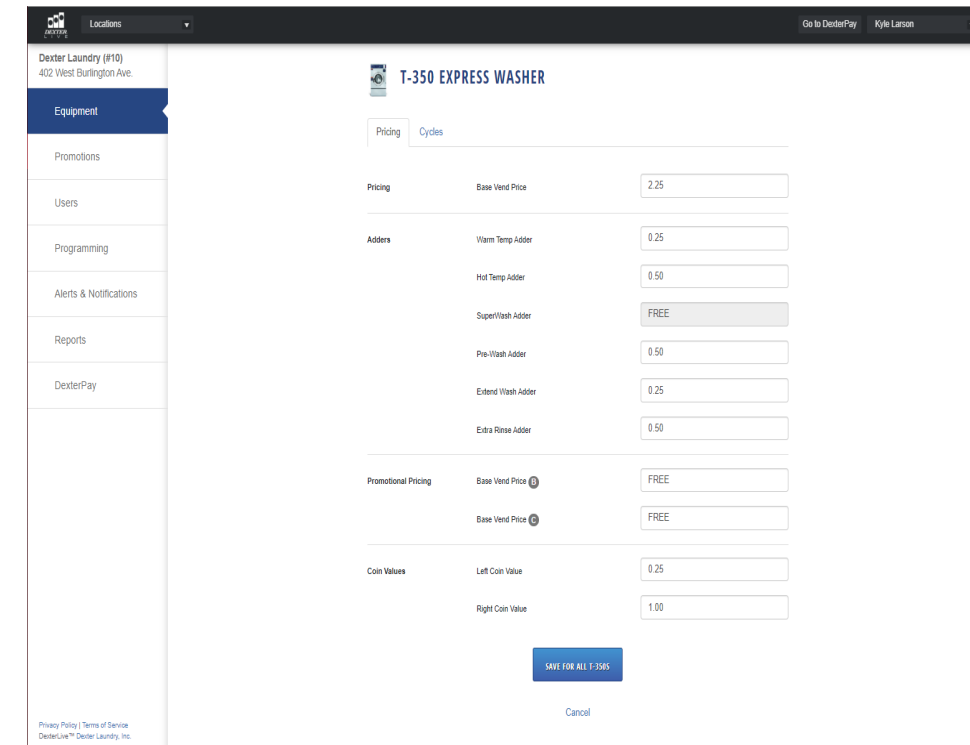


**D.** Next select the "+Add Equipment" (Equipment Tab), located in the upper right hand corner.



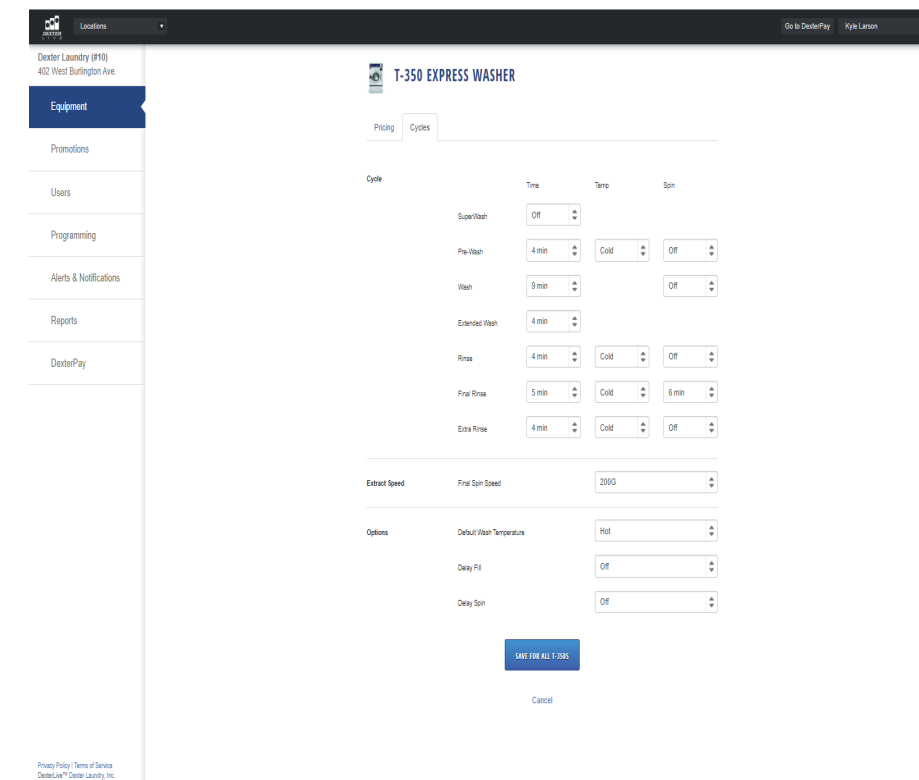
Name of the machine.  
(Example: Dryer 1)  
Enter serial number and machine type then select "Save and Continue."

**E.** When all of the equipment has been added, select "Edit" on the machine type you wish to modify, and then select "Pricing". (Equipment Tab and Machine Settings Tab)



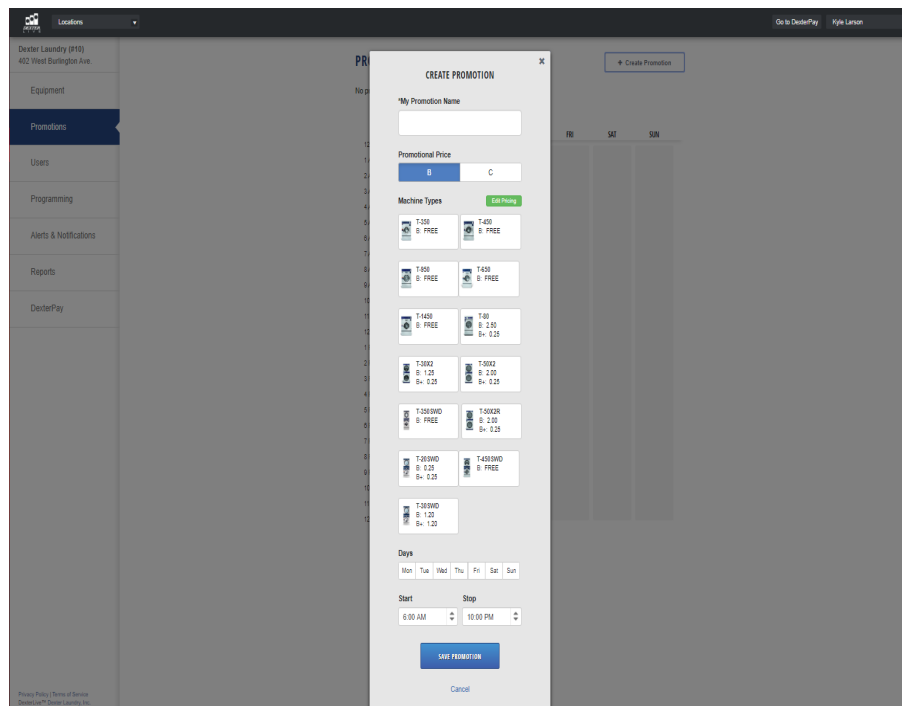
Program the price of the machine and the extra pricing adders.

**F.** Cycle changes can be made by selecting the "Cycles" tab.



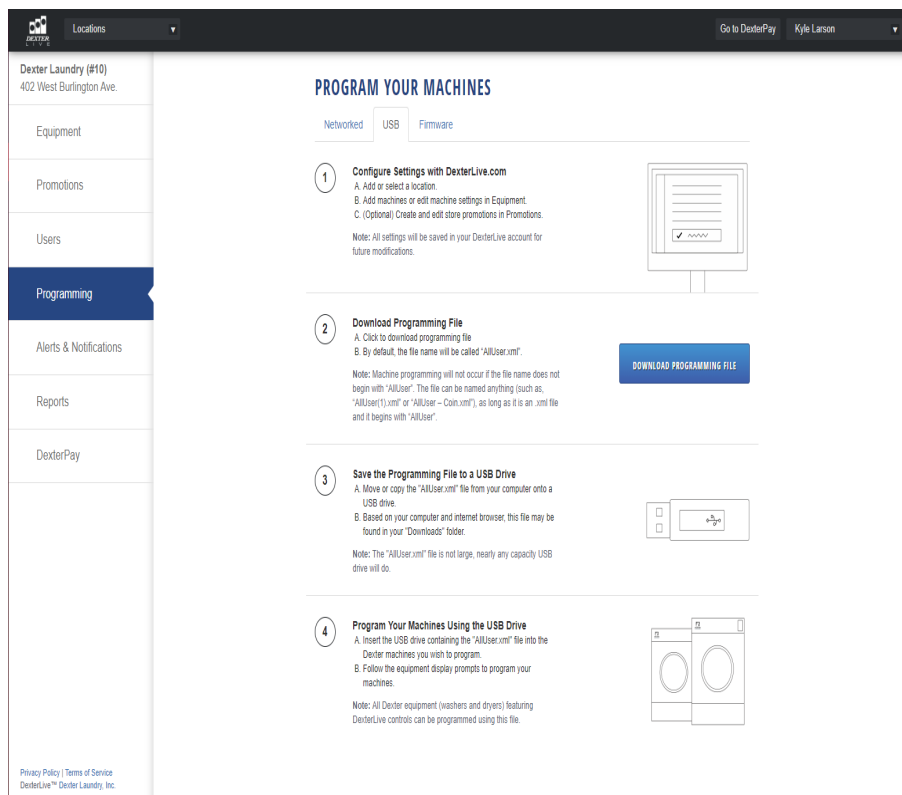
Adjust cycle programming set the length of time and extracts speed as needed.

**G.** IF desired, you may create and edit optional store promotions from the "Promotions" Tab.



Select "Save Promotion" once your changes have been made.

- 6)** Create and download the Programming File.  
**A.** Once all preferred prices, cycles and promotions have been modified and saved, select **"DOWNLOAD PROGRAMMING FILE"**.

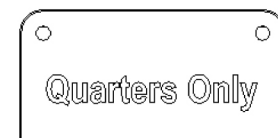
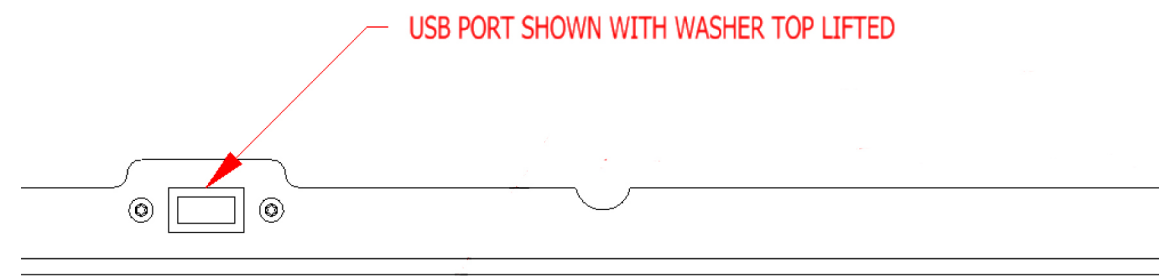


- B.** Based on your internet browser the file needs to be saved as "AllUser.xml". Depending on your Internet browser you may need to retrieve the file from your "Downloads" folder, which is located under "Computer".

**Note:** The newly created programming file may have changed from the proper "AllUser.xml". Machine programming will not occur using a different file name than "AllUser.xml". Any extra extension names will require the file to be renamed back to "AllUser.xml" for the machine to recognize the file.

- 7)** To save the Programming File to a USB Drive:  
**A.** Move or Copy the "AllUser.xml" file from your computer onto a USB drive.  
**B.** Based on your computer and internet browser, this file may be found in your "Downloads" folder, which is located under the "Computer" area.

**Note:** The "AllUser.xml" file size is small, nearly any capacity USB drive will do.



**8)** Program Your Machines Using the USB Drive

**CAUTION!!!** Be sure that any loose keys or other items that are connected to the USB device are removed from the USB stick to prevent any possible metal contact with the control board.

- A.** Insert the USB drive containing the "AllUser.xml" file into the Dexter machines you wish to program. The control will scroll "....." while identifying the program on the USB. Once identified, the display will scroll "INSTALL USER FILE FROM USB". At this prompt press the green start button on the front panel.

- B. The machine will scroll "TO INSTALL – PRESS START". At this prompt, press the green "Start" again.



- C. Once the program is uploaded successfully the control will scroll "DONE REMOVE USB". The USB drive can be safely removed at this point.

**Note:** All Dexter equipment (washers and dryers) featuring DexterLive controls can be programmed using this file once the equipment has been configured.

## PROGRAMMING INSTRUCTIONS:

The washer control can be programmed to prompt the user for alternate vend prices, change washer cycle times, temperatures and many other options. This can be accomplished in two ways:

1. Manual programming utilizing the "Start", "Hot", "Warm" and "Cold" buttons
2. USB download

For instructions on using the USB download feature, please contact your local Dexter distributor.

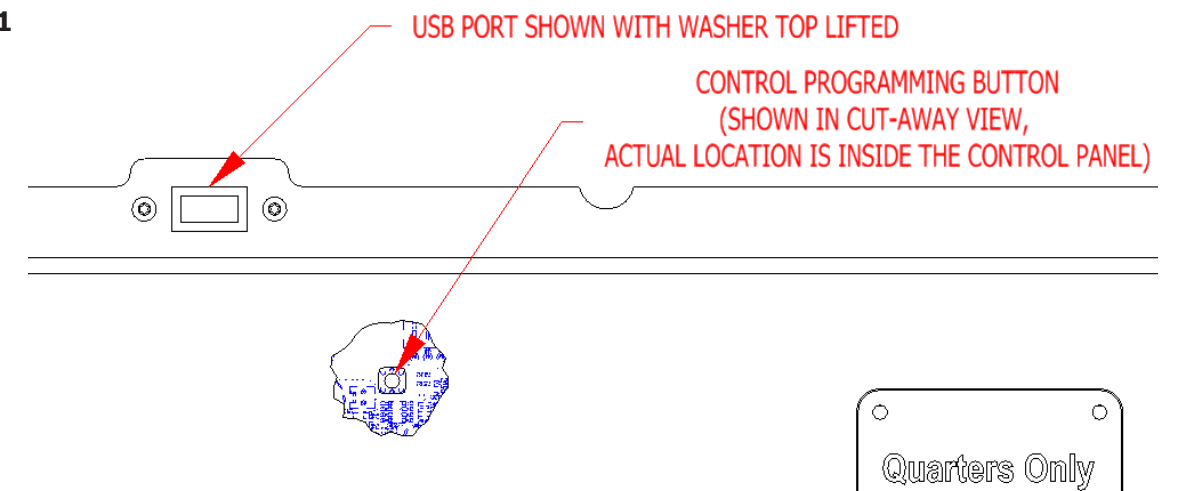
## MANUAL PROGRAMMING:

The washer must be in idle mode for the manual programming menus to be accessed. Idle mode is when the washer is not actively running a wash cycle and the vend price is displayed on the screen.

To enter the manual programming mode, the top of the washer must be unlocked and lifted slightly (it should not be necessary to remove the screws for the soap box). The programming button is then pressed for 1 second. The control should display "PROGRAMMING".

See Figure 1 for the location of the programming button in relation to the USB port (The USB port is exposed when the washer top is lifted).

**Figure 1**



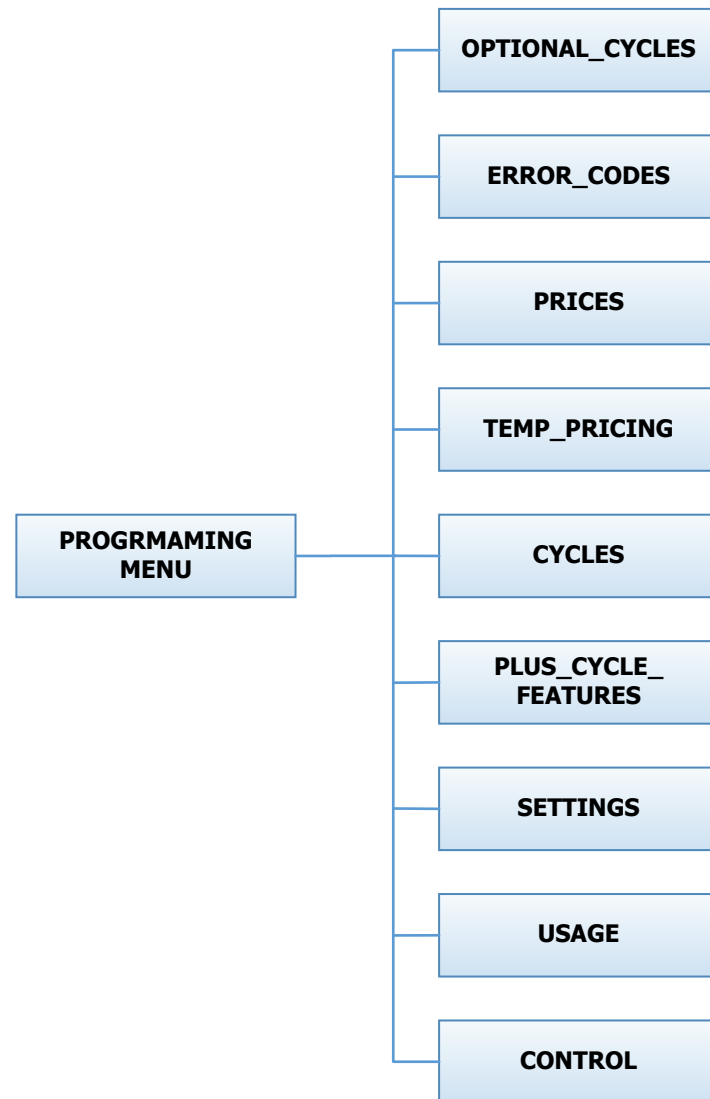
When manual programming mode is entered, the "Start", "Hot", "Warm" and "Cold" buttons perform alternate functions.

Button Name	Alternate Function in Programming Mode
<b>Start</b>	Becomes the action to accept the displayed option or the "Enter" key
<b>Hot</b>	Becomes the action to move UP through displayed options (Press & hold for accelerated scrolling)
<b>Warm</b>	Becomes the action to move DOWN through displayed options (Press & hold for accelerated scrolling)
<b>Cold</b>	Becomes the action to move back a step (1 press) or EXIT from programming mode (press for 3 seconds)

## Programing Selection:

These alternate functions allow the user to move through a menu of options to choose various program-able settings. Figure 2, shown below, shows the top level menu. Choosing an option from the top level menu will then display the next level of options (the sub menu).

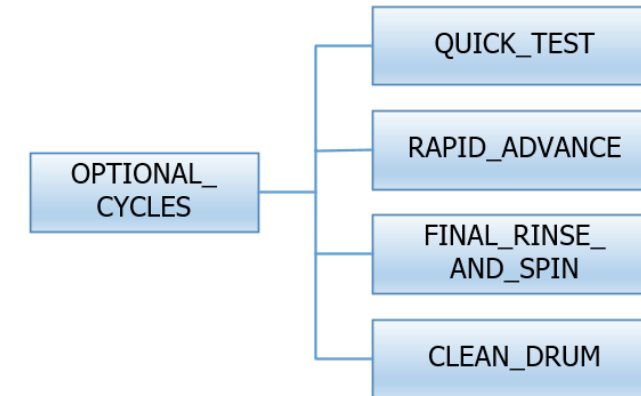
Figure 2



## Optional Cycles Option:

This option allows the user to select the different test and short-cycle options.

Figure 3



## Quick Test Option:

When the Quick Test Option is chosen, the washer will begin a shortened wash cycle without the displayed vend price being met. The purpose of this shortened cycle is to test all major components for proper operation.

Error Codes should all function normally during this test. The display will show customer prompts in a similar way to a normal wash cycle. Exceptions to this are that the "ADD BLEACH" prompt will not occur because of reduced cycle time. Final Extract speed is specific to the customer's programming.

Bath	Bath Cycle Time (min.)	Water Temp	Delay Fill	Spin Time (min.)
Prewash	0	n/a	n/a	0
Wash	1	Hot	On	2
Extended Wash	0	n/a	n/a	n/a
Rinse	1	Cold	On	0
Final Rinse	0	Cold	On	n/a
	n/a	n/a	n/a	0
Extra Rinse Bath	0	n/a	n/a	n/a
Final Extract Spin	n/a	n/a	n/a	4

## Rapid Advance Option:

Similar to the Quick Test, when the Rapid Advance Option is chosen, the washer will begin a wash cycle without the displayed vend price being met. However, in this case, it will be a normal default cycle with an additional feature available. The "START" button LED will flash, prompting the user that, when pressed, the washer shall rapid advance to the next step in the cycle. The display will show "ADVANCE" when the cycle is advancing. The water level needs to be empty before this advance occurs. During the time waiting for the tub to empty, the "ADVANCE" prompt will be held on the display and the START pushbutton LED stops flashing. The Rapid Advance shall allow the tub to empty of water and the tub to stop before beginning either spin or the next bath.

The Rapid Advance mode can be exited by pressing the programming button. This will end the cycle.

When the Rapid Advance mode is used, the cycle time will no longer be correct. By skipping steps with Rapid Advance, the door may not open immediately at the end of the cycle.

### Final Rinse and Spin Option:

“Final Rinse and Spin” will begin only the Final Rinse Bath and Final Spin portions of the cycle without the displayed vend price being met. The configured temperature, cycle times, and spin speed for the Final Rinse Bath and Final Spin settings will be used when this option is selected.

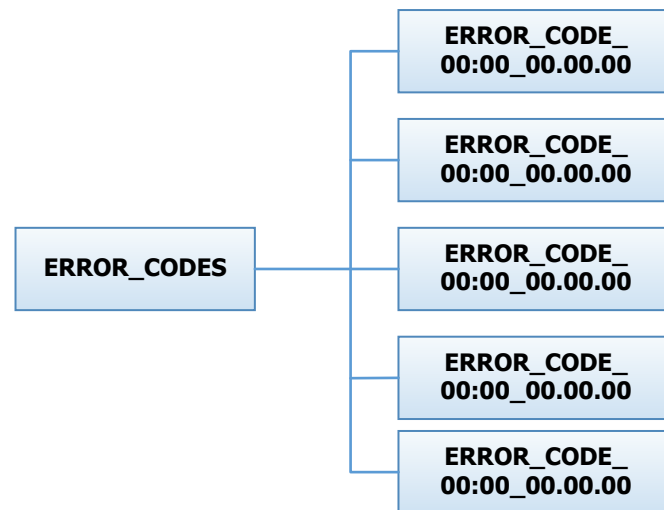
**NOTE: Error Codes should all function normally during this test.**

### Error Code Historical Log:

The last five occurring error codes will be stored in the control with a time and date stamp. The purpose of this option is only to observe the history of these code occurrences (no changes can be made).

The time is based off the Real Time Clock, but potentially shifted by the user’s manual programming changes (Shift Hours option) and/or network time override. As additional error codes occur, the oldest of the five logged codes is cleared from memory.

Figure 4



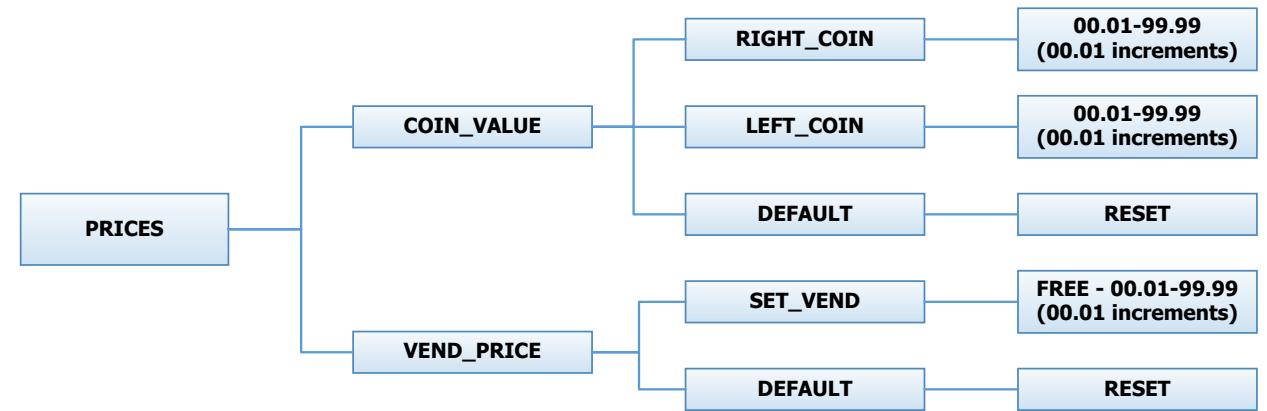
### Prices Option:

This option allows the user to set values for coin acceptor inputs and to set the vend price. It also allows the user to return the values to factory defaults. “RIGHT COIN” and “LEFT COIN” are the two possible inputs from coin acceptors.

“SET VEND” is the actual Base Vend Price (or Vend Price A) that is shown on the control display. After changing prices using the “Up” or “Down” buttons, the “Enter” button must be pressed again for the control to store the changes that have been made.

To reset either the coin acceptor inputs or the vend price to factory default, press “Enter” when the “DEFAULT” prompt is shown. Press “Enter” again when the “RESET” prompt is shown to confirm the action.

Figure 3, shown below, shows the sub menu options for Prices:

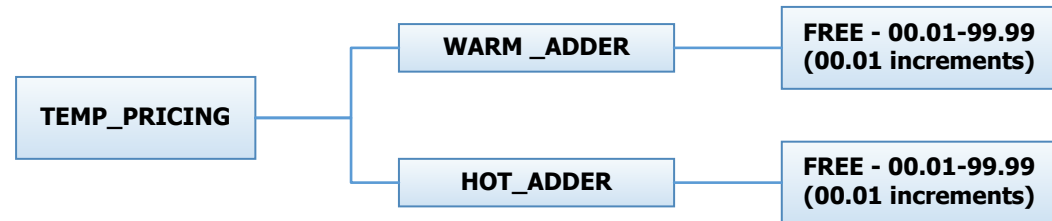


## Temp Pricing Option:

The Temperature Pricing option allows for the user to prompt the customer for varying vend prices based on the water temperature the customer selects. If a value other than 0 is programmed for either the "WARM ADDER" or "HOT ADDER", the feature becomes active. The programmed value is added to the base vend price when that particular water temperature is chosen.

When the customer adds coins to meet the adjusted vend price and starts the washer, the temperature selections available to the customer are limited to those with vend prices equal to or less than the amount entered.

Figure 4, shown below, shows the sub menu options for Temp Pricing:

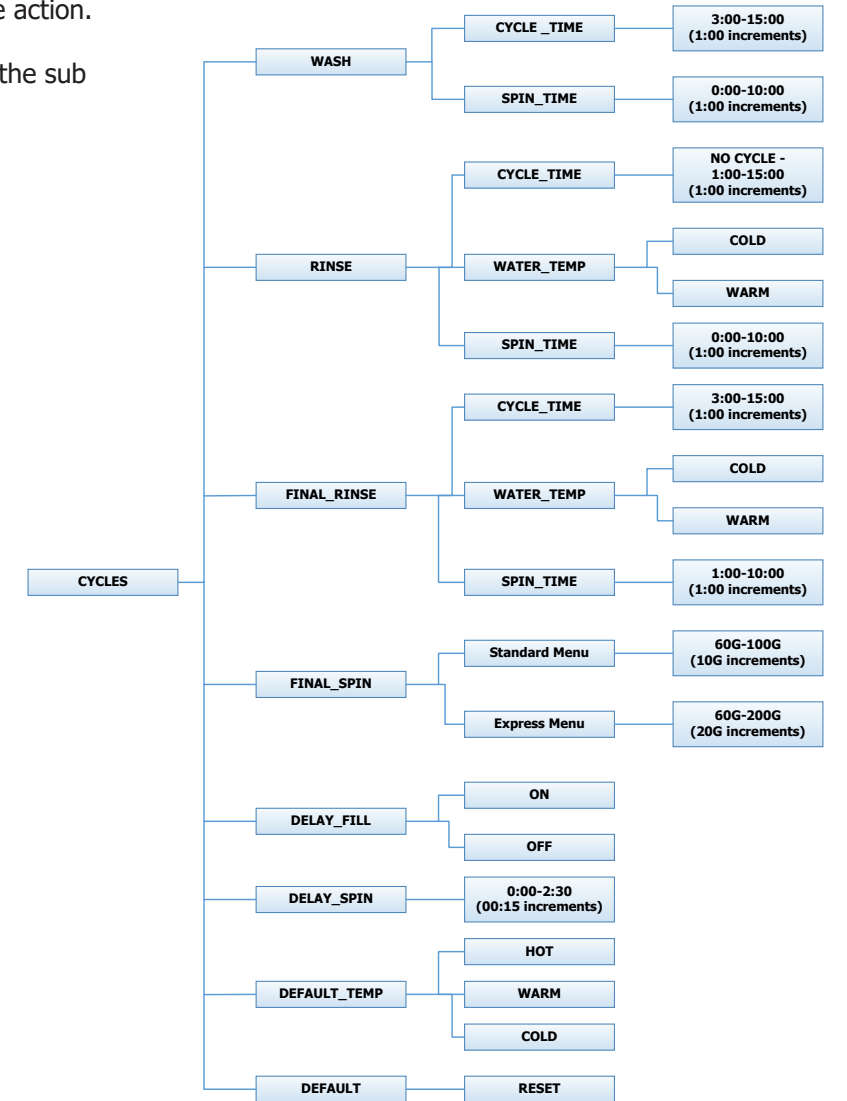


## Cycles Option:

This option allows the user to set the bath time and spin time for the "Wash" bath. It also allows the user to set bath time, water temperature and spin time for "Rinse" and "Final rinse" baths. (Water temperature for the "Wash" bath is chosen by the customer using the "Hot", "Warm" and "Cold" buttons on the front of the machine). For the "Final Spin" it also allows the user to set the spin speed (see additional description below).

It also allows the user to return the values to factory defaults. To reset all values in the Cycles option to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

Figure 5, shown below, shows the sub menu options for Cycles:



Bath	Bath Cycle Time (min.)	Water Temp	Delay Fill	Spin Time (min.)
Prewash	0	Cold	Off	0
Wash	9	Warm	Off	0
Extended Wash	0	n/a	n/a	n/a
Rinse	4	Cold	Off	1
Final Rinse	5	Cold	Off	n/a
Extra Rinse Spin	n/a	n/a	n/a	0
Extra Rinse Bath	0	Cold	Off	n/a
Final Extract Spin	n/a	n/a	n/a	6

## Final Spin:

The washer "Final Spin" is the spin that occurs after all selected baths & intermediate spins have been completed. It is a higher spin speed than previously occurring intermediate spins. The benefit of this higher spin speed is that more water is extracted from the wash load, which minimizes the drying time needed. However, in some cases, if the Dexter installation guidelines are not followed properly, it may be necessary to reduce the spin speed of the "Final Spin". The control allows for this to occur, based on the menu shown above.

The Final Spin can be adjusted in increments of 10 G for washers with a 100G maximum spin speed and increments of 20 G for washers with a 200G maximum spin speed. The factory default final spin speeds are the maximum values.

Model	Adjustable Final Spin Range
T300	60G to 100G
T350	60G to 200G
T400	60G to 100G
T450 or T450 SWD	60G to 200G
T600	60G to 100G
T750	60G to 200G
T900	60G to 100G
T950	60G to 200G
T1200	60G to 100G
T1450	60G to 200G

## Delay Fill:

In some applications, the amount of available water pressure is limited. In these cases, the washer may not be able to fill the tub in sufficient time to allow for effective washing performance. For this situation, the control has a "Delay Fill" option that can be chosen based on the menus above.

When the Delay Fill option is "On", the water valves shall be turned on, the washer shall agitate, but the cycle time shall be paused. The washer shall continue in this state until the proper water level is reached. Once the proper water level is reached, the cycle shall continue. A single selection of "On" or "Off" shall apply to all baths in the cycle. The factory default setting is "Off".

## Delay Spin:

In some applications, the amount of drain capacity is limited. In these cases the washer cannot empty the tub in sufficient time to allow for a spin cycle to occur. For this situation, the control has a "Delay Spin" option that can be chosen based on the menus above.

When a time value (other than 0) is programmed for the Delay Spin option, the end of each bath will be extended by the selected time. Therefore, extra time will be allowed for the drain valve to be open and compensate for slow drain capacity. The factory default setting is 0 seconds.

## Default Temp:

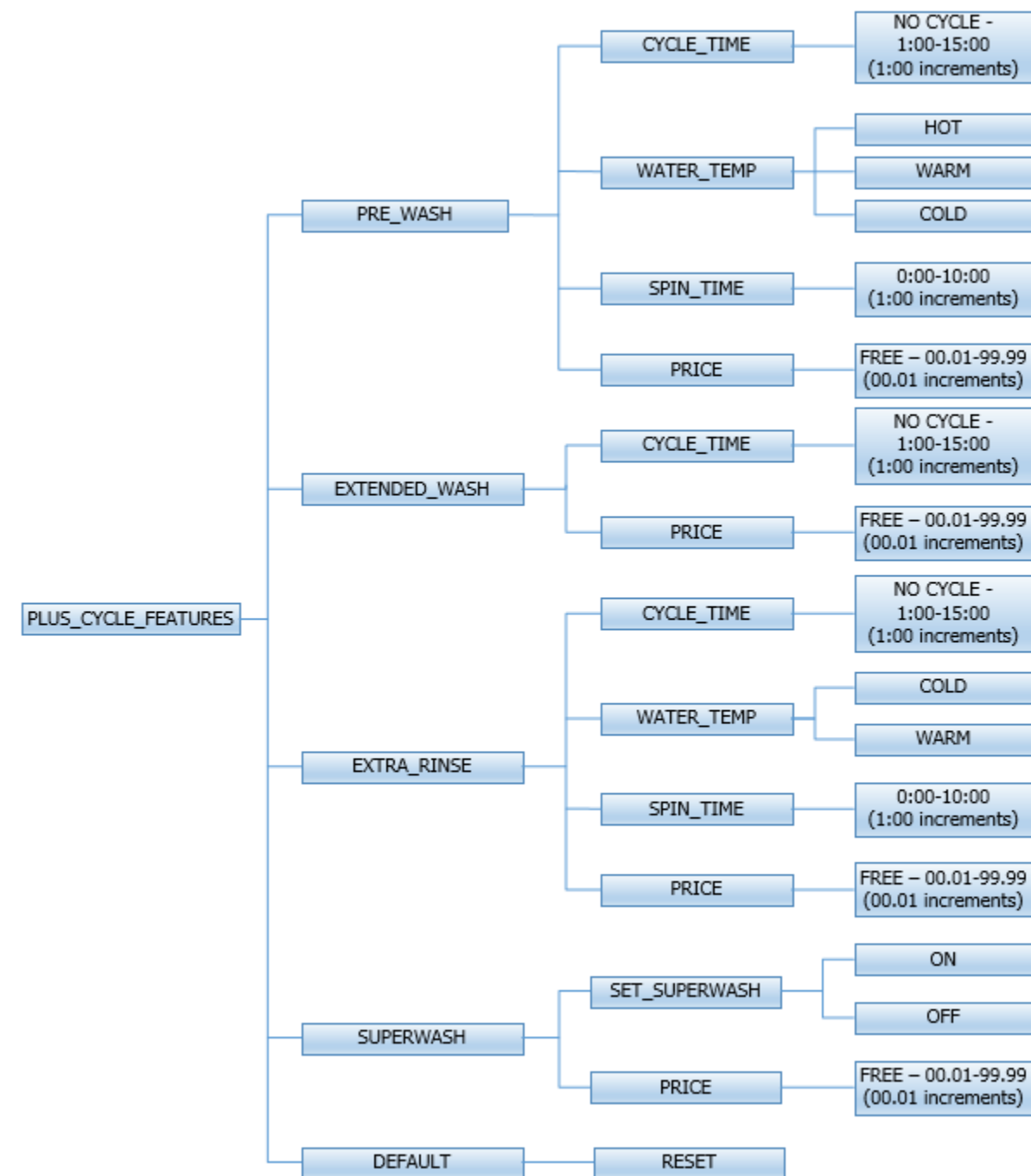
The "Default Temp" option allows the user to choose which water temperature ("Hot", "Warm", or "Cold") will be active during Idle mode. The customer can, of course, choose other temperatures for the wash bath based on other options described in this manual.

## Plus Cycle Options:

The Plus Cycle options allow for the user to prompt the customer for varying vend prices based on additional wash baths chosen. In general, the user can program the additional wash baths in a similar manner to what was described in the "Cycles" Options section.

It also allows the user to return the programmable values to the factory default setting. No plus cycle options are active using the factory default. To reset all values in the Plus Cycles option to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

Figure 6, shown below, shows the next level options for Plus Cycle Options:





## Pre-Wash:

If the user programs a "CYCLE TIME" for Pre-Wash other than 0 ("NO CYCLE"), the feature becomes active. However, the customer will not be prompted to pay an additional vend price for Pre-Wash unless the user programs the Price to a value other than 0 ("FREE").

With the Pre-Wash feature active, an additional bath and, optionally, an additional spin, will occur before the standard Wash bath described in the Cycles Options section.

With the Pre-Wash feature active and a Price value programmed, the customer will be prompted to add additional coins if they wish to purchase the Pre-Wash feature. This will occur after they have entered coins to meet the Base Vend price. If the customer does not meet the vend price of the Pre-Wash feature, the prompt will time out and the Pre-Wash bath will not occur.

## Extend Wash:

If the user programs an "EXTEND TIME" for Extend Wash other than 0, the feature becomes active. However, the customer will not be prompted to pay an additional vend price for Extend Wash unless the user programs the Price to a value other than 0 ("FREE").

With the Extend Wash feature active, the standard Wash bath described in the Cycles section will be extended for the additional time selected.

With the Extend Wash feature active and a Price value programmed, the customer will be prompted to add additional coins if they wish to purchase the Extend Wash feature. This will occur after they have pressed the "Start" button to begin the normal Wash cycle. If the customer does not meet the vend price of the Extend Wash feature, the prompt will time out and the additional time will not be added to the Wash bath.

## Extra Rinse:

If the user programs a "CYCLE TIME" for Extra Rinse other than 0 ("NO CYCLE"), the feature becomes active. However, the customer will not be prompted to pay an additional vend price for Extra Rinse unless the user programs the Price to a value other than 0 ("FREE").

With the Extra Rinse feature active, an additional bath and, optionally, an additional spin, will occur after the standard Final Rinse bath described in the Cycles Options section.

With the Extra Rinse feature active and a Price value programmed, the customer will be prompted to add additional coins if they wish to purchase the Extra Rinse feature. This prompt will occur during the standard Final Rinse bath. If the customer does not meet the vend price of the Extra Rinse feature, the prompt will time out and the Extra Rinse bath will not occur.

## SuperWash:

If the user programs SuperWash to "On", the feature becomes active. However, the customer will not be prompted to pay an additional vend price for "SuperWash" unless the user programs the Price to a value other than 0 ("Free"). With the "SuperWash" feature active, any combination of the "Pre-Wash", "Extend Wash", or "Extra Rinse" features, of which that are also active, will be automatically implemented during the cycle. No additional prompting for vend will occur for the individual features during the cycle. For example, if "Pre-Wash", "Extra Rinse", and "SuperWash" options are active and "SuperWash" price is met, the "Pre-Wash" and "Extra Rinse" features will automatically occur during the cycle. The control will not prompt for "Extra Rinse" vend at the normal prompting time of the cycle.

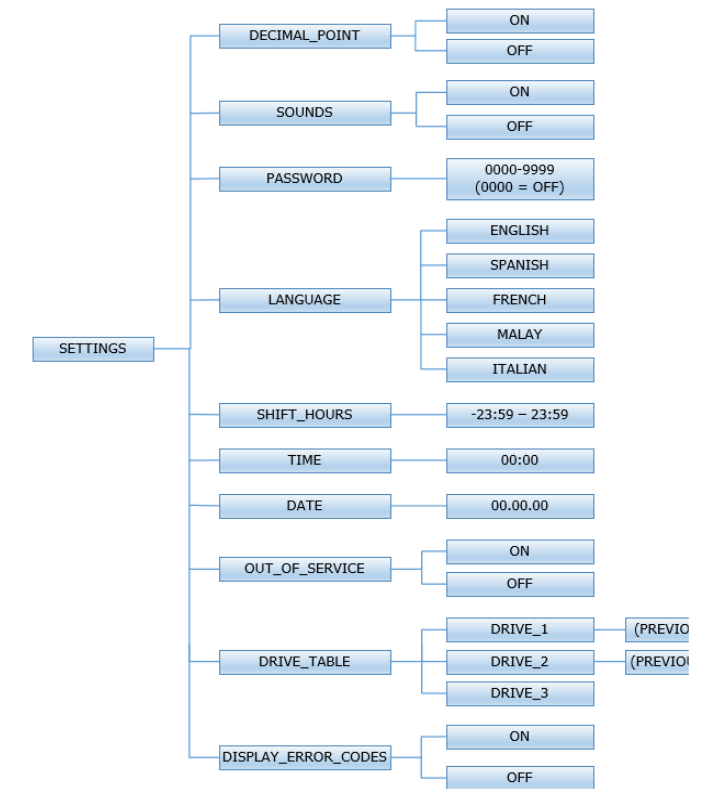
With the "SuperWash" feature active and "Price" value programmed, the customer will be prompted to add additional coins if they wish to purchase the "SuperWash" feature. This will occur after they have entered coins to meet the Base Vend price. If the customer does not meet the "SuperWash" vend price, the prompt will time out and the configured combination of "Pre-Wash", "Extend Wash", or "Extra Rinse" features that make up SuperWash will not occur. The "SuperWash" price will take priority over the individual pricing of the "Pre-Wash", "Extend Wash", and "Extra Rinse" features that are active.

## Settings Options:

The Settings options allow for the user to make various programming changes to change how the control operation affects the customer. See below for detailed information on each next level option.

It also allows the user to return the programmable values to the factory default setting. To reset all values in the Settings options to factory default, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

Figure 7, shown below, shows the next level options for Settings Options:



## Decimal Point:

If the user programs the Decimal Point to "OFF", control display will not show a decimal point on any vend price values. The factory default is "ON".

## Sounds:

If the user programs the Sounds to "OFF", the control will not sound the enunciator at the end of a wash cycle. The factory default is "ON".

## Password:

If the user programs the Password to any value other than 0000, the control will prompt the user to enter a password (the programmed value) before manual programming can be accessed. The factory default is "0000" (no password).

Note that if the user forgets the Password, it can be reset to factory default (no password), by performing a hard reset on the control. Please refer to the appropriate section of this manual to understand how to perform a hard reset.

The individual digits of the Password can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired number is chosen for a single digit, press the "Enter" button to move to the next one. Once all four desired digits are chosen, the "Enter" button must be held down for 3 seconds to confirm that the complete password should be set.

## Language:

The control uses English for the default language of the customer prompts. Alternatively, the user can choose Spanish or French for the customer display prompts. However, all other prompts, such as Manual Programming, USB Programming and any Error Codes will still display in English.

## Shift Hours:

The control uses a Real Time Clock (RTC) to internally track the time and date. The RTC continues operation even if the control loses external power. The RTC is set for Central Standard Time and no daylight savings.

Because the machine may be located in another time zone, the user can choose to create an alternate time & date that tracks in parallel to the RTC. When this alternate time is chosen, or shifted from the RTC, the alternate time will be used to, for example, track error code occurrences and set time-of-day pricing changes.

The hours in "SHIFT HOURS" can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired hour shift is chosen, press the "Enter" button to move to the minutes. Once the hours and minute shift are both chosen, the "Enter" button must be held down for 3 seconds to confirm that the complete shifted time is set.

## Time:

The control uses a Real Time Clock (RTC) to internally track the time and date. The RTC continues operation even if the control loses external power. The RTC is set for Central Standard Time and no daylight savings. However, if a problem occurs and the RTC time is not accurate, it can be reset to the current time using this option.

The hours in "TIME" can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired hour is chosen, press the "Enter" button to move to the minutes. Once the hours and minute are both chosen, the "Enter" button must be held down for 3 seconds to confirm that RTC is meant to be reset to the complete entry.

## Date:

The control uses a Real Time Clock (RTC) to internally track the time and date. The RTC continues operation even if the control loses external power. The RTC is set for the current date. However, if a problem occurs and the RTC date is not accurate, it can be reset to the current date using this option.

The day of the month in "DATE" can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired day of the month is chosen, press the "Enter" button to move to the month of the year. Once the desired month of the year is chosen, press the "Enter" button to move to the year. Once the day, month and year are all chosen, the "Enter" button must be held down for 3 seconds to confirm that RTC is meant to be reset to the complete entry.

## Drive Table:

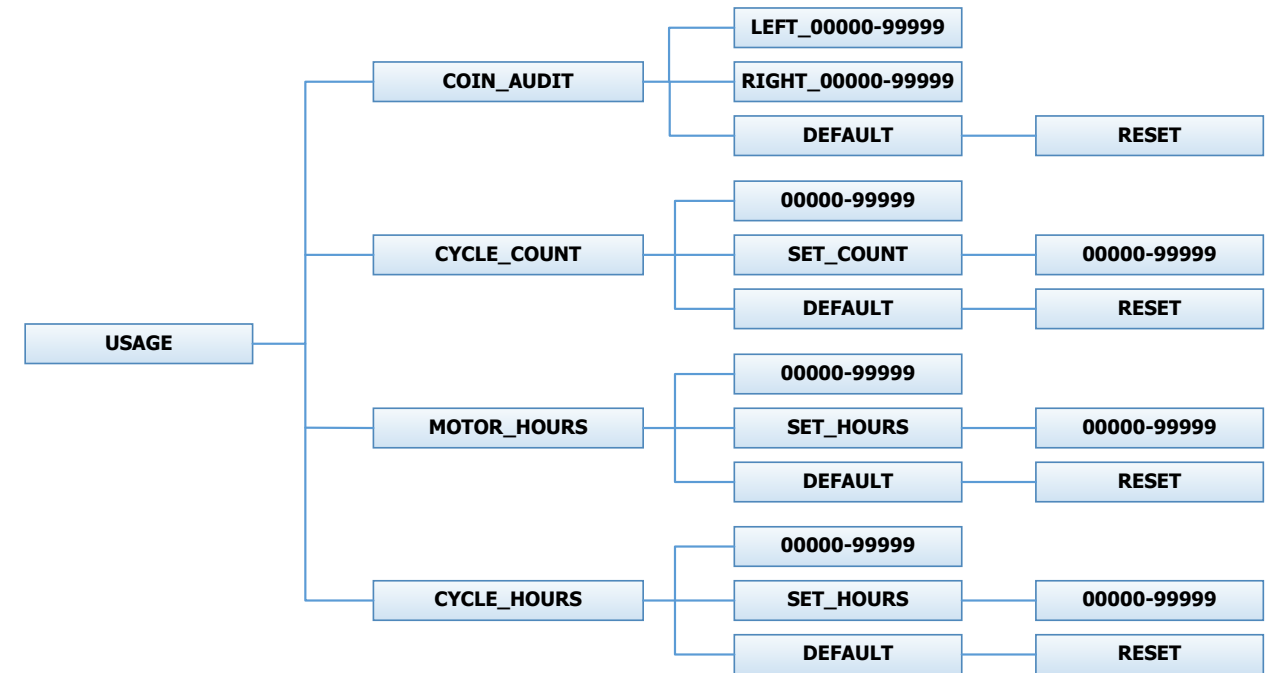
The control knows what model of washer it is installed in based on various inputs including information it receives from the Variable Frequency Drive (VFD). However, because multiple VFD's can be used on the same model, depending on when it was manufactured, the "DRIVE TABLE" option is available. "DRIVE ERROR 1" will display on the control when the Drive Table setting does not match the appropriate VFD in the washer. (Delta MS300 Drive, Delta E Drive, Delta DTR Drive)

- Choose "Drive 3" for C4 models (ex. WC0600XA-12EC4X-)
- Choose "Drive 2" for C1, C2, or C3 models (ex. WC0600XA-12EC2X-)
- Choose "Drive 1" for WCAD models (ex. WCAD40KCS)

## Usage Menu:

The Usage menu allows for the user to track data about machine usage. See below for detailed information on each sub menu option.

Figure 8, shown below, shows the sub menu options for Usage:



## Coin Audit:

The coin audit field shows the accumulation of coin pulses that were sent to the control over each of the left and right coin inputs. Note that this is a count of coin pulses, not an accumulated report of vend value. The user can also return the coin audit amounts to the factory default setting (zero). To reset all coin audit values, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

## Cycle Count:

The cycle count field shows the accumulation of wash cycles that have occurred. Note that this is a count of cycles, not of hours accumulated.

The user can also set the count value to a designated number. For example, if it is necessary to replace the control on a machine, the new control could be programmed to show the cycle count value that was recorded by the previously installed control. The individual digits of the count can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired digit of the count is chosen, press the "Enter" button to move to the next digit. Once the complete count is chosen, the "Enter" button must be held down for 3 seconds to confirm the action.

The user can also return the cycle count to the factory default setting (zero). To reset the cycle count, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

## Motor Hours:

The motor hours field shows the accumulated hours of operation for the motor. In many cases, it will match the cycle hours of the machine. However, separate fields are provided in the event that a motor is replaced on a machine.

The user can set the motor hours to a designated number. For example, if it is necessary to replace the control on a machine, the new control could be programmed to show the motor hours that were recorded by the previously installed control. The individual digits of the hours count can be set by using the "Up" or "Down" buttons to change the number that is flashing. Once the desired digit of the hours is chosen, press the "Enter" button to move to the next digit. Once the complete hours are chosen, the "Enter" button must be held down for 3 seconds to confirm the action.

The user can also return the motor hours to the factory default setting (zero). To reset the motor hours, press "Enter" when the "DEFAULT" prompt is shown. Press "Enter" again when the "RESET" prompt is shown to confirm the action.

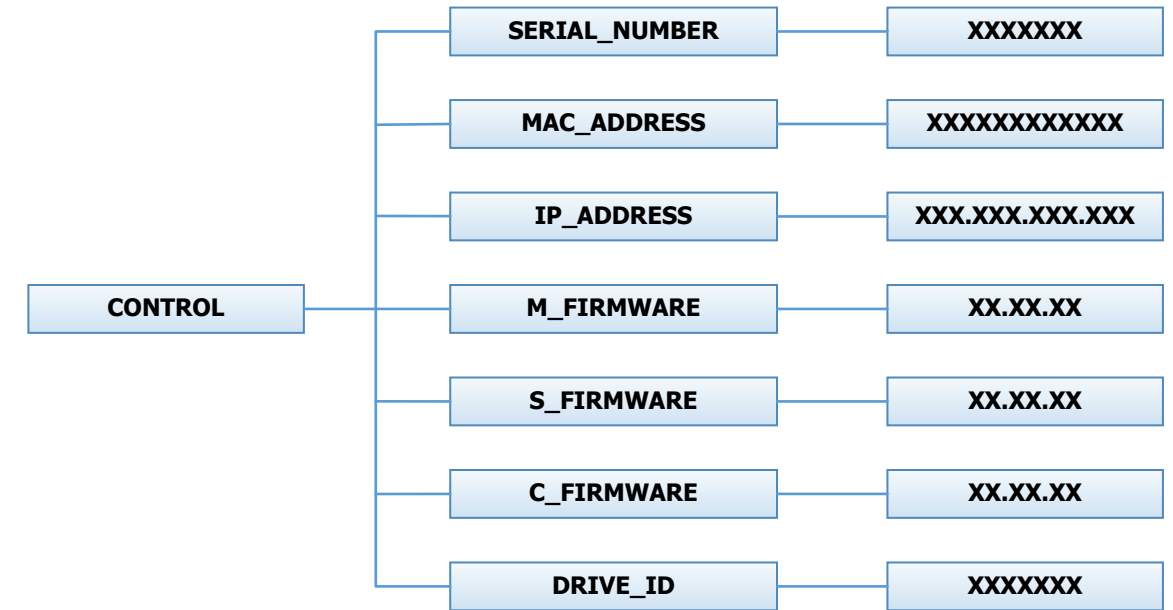
## Cycle Hours:

The cycle hours field shows the accumulated hours of operation for the washer. In many cases, it will match the motor hours of the machine. However, separate fields are provided in the event that a motor is replaced on a machine. See the Motor Hours description for more information.

## Control Menu:

The Control menu allows for the user to observe important technical information for the control and Variable Frequency Drive system. No changes can be made at this menu. See below for detailed information on each sub menu.

Figure 9, shown below, shows the sub menu options for Control:



### Serial Number:

The serial number is the control serial number.

### MAC Address:

The MAC Address is a unique identifier designated to the control by the manufacturer. It allows the control to be recognized by network routers.

### IP Address:

The IP Address is the identifier given to the control by a network system.

### M Firmware:

The M Firmware is the Main Firmware currently loaded onto the control.

### S Firmware:

The S Firmware is the Secondary Firmware currently loaded onto the control.

### C Firmware:

The C Firmware is the Communications Firmware currently loaded onto the control.

### Drive ID:

The Drive ID is the code that represents the size of the Variable Frequency Drive and parameters loaded into it, corresponding with the washer model.



## Section 4: Trouble Shooting

### Common Troubleshooting Solutions

Symptom	Probable Cause	Suggested Remedy
Machine does not start	Power Supply	Check these areas: Circuit breakers, Voltage, Power leads, Power connections. Is front display LED showing a dollar amount.
	Door Switch	Check for continuity through door switch when door is closed. If no continuity, adjust or replace door switch.
	Control Breaker or Fuse	Check 1.5 amp (T-950 and T-1200 use 2.5amp) breaker or fuse for continuity. If no continuity, replace breaker or fuse.
	Control Transformer	Check voltage output from control transformer for 120VAC. If voltage is incorrect, replace transformer.
	Coin Acceptor	Check coin acceptor to make sure there is no blockage or damage. clean or replace acceptor.
	Check PCB board	Check all wire connections for sure contacts.
	Check wiring between PCB	Check data cable. This is the cable with the phone type connectors on the main PCB control and the VFD. With the power removed unplug and check for damage, replug and retry washer.
	Check Relay PCB	Check all wire connections for sure contact.
	Check Door Motor	Check that 120 v power is at Motor after start button is pushed.
Machine will not accept and count coins	Coin Acceptor	Check coin acceptor switch for any type of blockage or damage. Clean, adjust or replace the acceptor.
	Power Supply	Check these areas: Circuit breakers, Voltage, Power leads, Power connection.
	Door Closed Safety Switch	Check door closed switch at door hinge for proper operation.
	Door Handle Closed Switch	Check single door closed switch at left side of door handle to close when handle is vertical.
	Control Breaker or fuse	Check breaker or fuse for continuity. If no continuity, replace breaker or fuse. The T-300 through T-950 use the 1.5 amp fuse. The T-1200 and t-1450 uses A 2.5 amp fuse.
	Main PCB	Replace.
Door does not lock	Check display for fault code	Does Door Lock Error show on the front of display? If yes follow tests described in fault code section.
	Door locking Motor	Check to insure that Motor is receiving 120VAC from main relay PCB. If it is, replace solenoid.
	Door Switch	Check for continuity through door latch switch when door closed. If no continuity, adjust or replace door switch.
Door will not open	Thermoactuator	Check to see if thermoactuator(s) and/or its mechanism is stuck or binding and not allowing the door lock solenoid to open. Check to be sure that the locking thermoactuator is not receiving 120VAC during the last 1 1/2 minutes of the cycle. Also check to see that the unlocking thermoactuator is receiving 120VAC during the last minute of the cycle. If the thermoactuators do not receive voltage at the correct times, change the timer. If the timing and voltage are correct, replace the thermoactuator.

## Common Troubleshooting Solutions

Symptom	Probable Cause	Suggested Remedy
Door will not open	Door Rod	Check to see that door rod from solenoid to lock ass'y is long enough to allow lock ass'y to disengage. If not, adjust rod.
	Gear Motor	Check the door lock motor. Make sure the motor is not stuck or in a bind. If motor does not move freely, replace locking motor.
No hot water in detergent dispenser	Water Valve Coil	Check coil continuity at terminals and replace if no continuity. 120 V power only on for 20 second in wash bath.
	Water Inlet	Check water inlet screens for blockage and clean screens if necessary.
	Water	Check to insure that water is turned on and operating.
	P-20 Wire Harness	Check black & white harness.
Hot water does not enter tub in wash	Water Valve Coil	Check coil continuity at terminals and replace if no continuity. Check for 120 V power from main relay PCB.
	Water Inlet	Check water inlet screens for blockage and clean if necessary screens.
	Water	Check to insure that water is turned on and operating.
	Blk or Wht wire at main controller	Check black or white wires at Molex plug on PCB at main controller and at relay PCB.
	Pressure Switch	Check pressure switch continuity between terminals . If no continuity, check pressure switch hose for obstruction. If hose okay, change pressure switch.
No cold water to tub in wash	Water Valve Coil	Check coil continuity at terminals and replace if no continuity.
	Water Inlet Screens	Check water inlet screens for blockage and clean if necessary.
	Water	Check to insure that water is turned on and operating.
	Blk or whit wire at controller and main relay PCB	Check black or white wires at Molex plug on PCB at main controller and at relay PCB.
	Pressure Switch	Check pressure switch continuity between terminal contacts. If no continuity, check pressure switch hose for obstruction. If hose okay, change pressure switch.
Water comes in but level does not rise	Drain Valve (open)	Check these areas • Drain valve blockage • Drain valve motor and gear train. If power but drain valve does not close, replace valve. • Power to the drain valve. If no power to drain valve, check (brn/yel) circuit for power.
	Blk or whit wire at controller	Check black and white wires at molex plug on main PCB controller and at main relay PCB
Water does not flush softener compartment.	Water Valve Coil	Check coil continuity at terminals and replace if no continuity.
	Water Inlet Screens	Check water inlet screens for blockage and clean if necessary.
	Water	Check to insure that water is turned on and operating.

## Common Troubleshooting Solutions

Symptom	Probable Cause	Suggested Remedy
Water level too high	Pressure Switch	Check for blockage in pressure switch hose. Check for pressure switch opening circuit across terminals . Replace switch if contacts do not open.
Water drains slowly	Drain System	Check hoses and drain valve for blockage. Clean of inadequate size. If necessary. Check building drains for blockage
Machine does not turn	VFD	Check VFD by removing top panel and record power or fault lights are illuminated. If the fault light is on, turn power off to machine at breaker for 2 minutes and turn power back on to reset. If still no display replace VFD
Machine tumbles in one direction	VFD	Remove Top cover record if power light of fault lights are displayed, wee front control for related codes. See fault code section for more info.
	VFD	Inspect yellow enable wires from main relay PCB and at VFD
Excessive vibration	Mounting System	Check these areas: • Strength of mounting structure, concrete or base. • Mounting bolts may be loose and need tightening.
	Drive Belt	Worn drive belt can cause vibration and noise.
	Loading	Note: Small loads contribute to out of balance loading and increase vibration.
Machine does not spin	Pressure Switch	Check pressure switch for continuity across terminals #21 & #22 indicating pressure switch has reset to the empty position. If no continuity, change pressure switch.
Machine starts and does not operate	VFD	Check yellow enable wires from relay PCB P13 & motor P14to VFD advances through cycle are connected. Check fault code on VFD before removing power from the drive. Check orange P-15 wire for signal from door switches.
Machine does not stop	Main PCB	Main PCB controls time cycle at end of cycle.
	Braking Resistors	Check braking resistors for continuity. Verify ohms resistance by Molex.
Water leakage around loading door	Door Adjustment	Door may need adjustment due to abuse or wear. Check tightness around perimeter using a dollar bill. Adjust left to right tightness by shims at door lock or hinge side. It is important to center gasket to tub opening before tightening door to hinge bolts. Chalk may be used on tub front to show point of contact with tub. If gasket is deformed, worn, or damaged, replace. Refer to parts section for door gasket expander kit.
Machine Starts goes directly to end of cycle	E-Stop button or switch	If machine says PUSH then goes directly to "0" or "00" may be bad stop button or switch. Replace switch assembly.

# Troubleshooting Machine Fault Errors

Displayed on front of washer

The following pages are a description of fault codes that will appear on the front of the washer. There is a chart format that shows what fault code that will be displayed at washer front. These codes displayed may stop machine operation or may not stop machine Please check chart before removing power to reset. PLEASE NOTE: CHECK DRIVE FAULT CODE BEFORE POWERING MACHINE DOWN!

Fault	Description	Customer Action	
<b>DOOR LOCK ERROR</b>	The door failed to close and lock or The door failed to remain locked during the cycle.	Condition	This error is when the Door Locked signal is not received within one second after the start of the cycle. After three attempts to start the washer.
		Delay	Immediate
		Action	When the error occurs, the Door Lock Gear Motor will be turned off; all other outputs will be turned off.
		Solution	Check VFD fault light. Check to hear if door motor engaged. Turn off the power to the washer. Check wire connections to door /lock switches. Check wire connections from switches to controller. Check P-4 Door/Lock wire connections at PCB controller. Adjust the door lock mechanism. (See on line service manual or video)
<b>SLOW FILL ERROR</b>	Slow Fill Error	Condition	This error is when a low water level is not reach within 7 minutes.
		Delay	Immediate.
		Action	The washer cycle will continue.
		Solution	Turn off the power to the washer. Check the operation of the water valves. Check the incoming water pressure. Check for blocked or restricted water flow. Check to ensure the drain valve is functioning properly.
<b>MEMORY ERROR</b>	Checksum or Out of Range Error	Condition	Memory error in the controller. The memory checksum is wrong or a parameter value is out of range.
		Delay	Immediate.
		Action	Stop the washer and turn off all the outputs.
		Solution	Check VFD fault light before turning off power. Try a soft Reset of the controller with the white button. If problem persist replace PCB controller.

Fault	Description	Customer Action	
<b>COMM ERROR 1</b>	I2C Bus Error	Condition	Washer controller communication error on the I2C bus. Both the main slave micro and the master micro can be in this error state. The slave micro error is recoverable at any time, if I2C communication resumes. The master micro error is permanent.
		Delay	The main slave starts displaying this error after 6 seconds of no (valid) I2C activity. The master micro goes into this permanent error state after 8 seconds of no (valid) I2C activity.
		Action	Stop the washer and turn off all outputs.
		Solution	Check VFD fault light before turning off power. Try the data cable first. Move around cable and remove any side loading tension from data cable connector ends. Check connection P23 to P15. Turn power back on to the washer. If the problem returns, replace the PCB washer controller.
<b>COMM ERROR 2</b>	Wrong Washer Size Jumper Configuration	Condition	Invalid washer size jumper (harness) configuration.
		Delay	Immediate (after the wrong size jumper configuration is read). Washer size/type inputs are read only at power up, before starting a cycle, once every 24 hours, and in factory test mode.
		Action	Stop the washer.
		Solution	Check VFD fault light before turning off power. If the controller was installed in a different size machine before being installed in this machine, a problem can occur. If someone has been doing repairs on the washer, check for the correct size drive. It can also be caused by pressure switch harness. Check to ensure the correct harness is installed. The control can be reset by holding program button on controller during startup (soft reset). Check orange wire at Molex connector on controller coming from pressure switch or replace pressure switch harness.
<b>COMM ERROR 3</b>	Washer Size or Type Changed	Condition	The washer size or washer type configuration has changed.
		Delay	Immediate (after the size jumper configuration is read). Washer size/type inputs are read only at power up, before starting a cycle, once every 24 hours, and in factory test mode.
		Action	Stop the washer.
		Solution	Check VFD fault light before turning off power. Check to ensure all the harnesses are properly connected to the controller. Check to ensure the VFD drive horsepower is proper for this size of washer. The control can be reset by holding program button on controller during startup (soft reset). Check orange wires at Molex connector on controller coming from pressure switch.

Fault	Description	Customer Action	
<b>COMM ERROR 4</b>	VFD Non Existent or communication fault	Condition	This error is when the washer controller cannot communicate with the drive.
		Delay	Delay time is 2 seconds.
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	Check the data communication cable between the washer computer and the variable frequency drive (VFD). Step 1: Make sure the cable did not become unplugged during operation. Step 2: Make sure that the cable is not being pulled sideways at either the washer controller, or the VFD, plug end. If both ends of the communications cable are plugged in the washer computer and VFD and there is no tension on the communications cable pulling it from side to side, then replace the cable. Step 3: Inspect both female connection points at PCB controller and at VFD. These may need replacement if they cannot be reset.
<b>COMM ERROR 5</b>	VFD Communication Fault	Condition	This error is a data error on communications between the controller and the VF drive.
		Delay	Delay time is 12 seconds.
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The CE errors are communications errors. Data Cable noise can cause the majority of these errors. Check VFD fault light before turning off power. Check the data cable between the controller and the drive. Replace data cable if it appears damaged and fault appears again. Please note that this fault will occur if you turned main power off and on to quickly. (See Note below)
<b>COMM ERROR 6</b>	VFD Communication Fault	Condition	This error indicates that a VFD exception error is set.
		Delay	Occurs following the "DELAY" error. (see corresponding detail)
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The washer will not restart until the power is removed and re-applied.

Fault	Description	Customer Action	
<b>COMM ERROR 7</b>	Communication Bus Error	Condition	If a state-of-health message reply is not seen by the master microprocessor from the UC3 microprocessor after 10 minutes, the master will reset the UC3 and restart the 10 minute timer. Again, after 10 minutes, if a state-of-health message is not received by the master, it will reset the UC3 a second time. After 10 minutes, the master will reset the UC3 a final time and post a COMM ERROR 7. Note: When the master resets the UC3, the control will disconnect from the network. If the first reset is not successful, the control will not be able to reconnect to the network, USB or card reader functions.
		Delay	3 cycles of 10 minutes (see above)
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The washer will not restart until the power is removed and re-applied.
<b>COMM ERROR 8</b>	VFD Communication Fault	Condition	This error is caused when the VFD reports a frequency value that is out of range
		Delay	Delay time is 35 seconds
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The washer will not restart until the power is removed and re-applied.
<b>PCB ERROR1</b>	Controller Internal Fault	Condition	This error is an internal failure of the washer controller electronics.
		Delay	Immediate
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	Check VFD fault light before turning off power. Try a soft Reset of the controller with the white button. If problem. Replace PCB controller.
<b>PCB ERROR 2</b>	Controller Internal Fault	Condition	This error is an internal failure of the washer controller related to inputs being matched between the master and slave micros.
		Delay	Immediate
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The washer will not restart until the power is removed and re-applied.



Fault	Description	Customer Action	
<b>SLOW DRAIN ERROR</b>	Drain Error	Condition	This error is when an empty water level is not reached within 7 minutes.
		Delay	Immediate
		Action	The washer cycle will continue. Do not spin the tumbler with out reaching an empty water level. If empty water level is not reached, agitate during the normal spin time.
		Solution	Check VFD fault light before turning off power. Check to ensure the drain valve is operating properly (slow drain has potential to cause this code). Check to ensure the pressure switch tube is clear of any blockage, and the pressure switch is operating properly. Check the pressure switch harness.
<b>SPIN STOP ERROR</b>	Stop Error	Condition	This error is when the washer does not stop spinning within 150 seconds after receiving the command.
		Delay	Immediate.
		Action	Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	Check VFD fault light before turning off power. Inspect the braking resistors and measure the resistance. Check connecting wiring from braking resistor to the drive mounted in the top of the washer. Reset the drive and try again. Possibly incorrectly programmed drive.
<b>DRIVE ERROR 1</b>	Washer size/ VFD size mismatch	Condition	This error is when the drive size does not match the washer size.
		Delay	Immediate. (after the size jumper configuration is read). Washer size/type inputs are read only at power up, before starting a cycle, once every 24 hours and in factory test mode.
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	Check VFD fault light before turning off power. If the controller was installed in a different size machine before being installed in this machine, a problem can occur. If someone has been doing repairs on the washer, check for the correct size drive. It can also be caused by pressure switch harness. Check to ensure the correct harness is installed. The control can be reset by holding program button on controller during startup (soft reset). Check orange wire at Molex connector on controller coming from pressure switch or replace pressure switch harness.

Fault	Description	Customer Action	
<b>DRIVE OC</b>	VFD Over-current Fault	Condition	This error is an over-current on the VF drive.
		Delay	Delay time is 35 seconds.
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	Step 1: Check to make sure the washer cylinder turns freely by hand. If it turns freely, continue to step 2. If it does not, remove the belt and see if the motor turns freely by hand. If the motor turns freely, then check for obstructions in the cylinder or check the bearings. If the motor does not turn freely, replace the motor. Step 2: Check the motor wires for a short circuit between leads. If there are motor leads that have conductors touching, separate them and insulate them. If the wires are broken, splice them together or replace the motor. Step 3: Check braking resistors to see if they measure the correct resistance. If a resistor does not measure the proper value, replace it.
<b>DRIVE OV</b>	VFD Over-voltage Fault	Condition	This error is over-voltage on the VF drive.
		Delay	Delay time is 35 seconds.
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	"Step 1: Measure the supply voltage to the VFD on the L1, L2 (or N), and L3 (if connected to three phase power). the supply voltage should be from 187 to 264 VAC or 108 to 132 VAC for a 120 VAC VFD. Also make sure the supply wires on L1, L2 (or N) and L3 (if connected to three phase power are securely connected. Step 2: Check the braking resistor connections at the VFD. The terminal screws should be tight. Once of the braking resistor wires should be connected to terminal B2. Step 3: Measure each braking resistor separately to make sure they are the correct resistance. (200 for 1 and 2 HP VFD and 160 for 3 Hp VFD). Step 4: If you have a 240 VAC, high leg voltage supply, try disconnecting the high leg. If this cures the problem, either leave the high leg disconnected, connect a transient voltage surge suppressor (with some form of filtering) at the voltage supply panel, connect a line choke on the high leg or install a VFD filter."

Fault	Description	Customer Action	
<b>DRIVE OH</b>	VFD Overheat Fault	Condition	This error is over-heating on the VF drive.
		Delay	Occurs following the "DELAY" error. (see corresponding detail)
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The washer will not restart until the power is removed and re-applied.
<b>DRIVE OL</b>	VFD Overload Fault	Condition	This error is overload on the VF drive.
		Delay	Occurs following the "DELAY" error (see corresponding detail)
		Action	"DRIVE OL".
		Solution	The washer will not restart until the power is removed and re-applied.
<b>DRIVE GFI</b>	VFD Ground Fault	Condition	This error is a ground fault interruption on the VF drive.
		Delay	Occurs following the "DELAY" error (see corresponding detail)
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The washer will not restart until the power is removed and re-applied.
<b>DRIVE LV</b>	VFD Low Voltage	Condition	This error is low voltage on the VF drive.
		Delay	Occurs following the "DELAY" error. (see corresponding detail)
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The washer will not restart until the power is removed and re-applied.
<b>DRIVE IF</b>	VFD Internal Fault	Condition	This error is an internal VF drive error.
		Delay	Occurs following the "DELAY" error (see corresponding detail)
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The washer will not restart until the power is removed and re-applied.

Fault	Description	Customer Action	
<b>INVALID DRIVE</b>	Drive is not the correct Dexter version of the Delta E-drive	Condition	The error indicates the VF drive is not a Dexter version of the Delta E-drive.
		Delay	Immediate (after the Dexter indication value is read from drive). Drive indication value is read only at power up, before starting a cycle, once every 24 hours, and in factory test mode.
		Action	Stop the machine and clear the cycle. Keep the door locked until the machine has stopped moving and then unlock the door.
		Solution	The washer will not restart until the power is removed and re-applied.
<b>SECONDARY FUSE ERROR</b>	Factory program error	Condition	This error occurs when the fuse settings for the Slave/Secondary microprocessor have not been set correctly during factory programming.
		Delay	None.
		Action	When detected, the washer control shall not be operational.
		Solution	The control must be re-programmed with the factory programming tool.
<b>MAIN FUSE ERROR</b>	Factory program error	Condition	This error occurs when the fuse settings for the Master/Main microprocessor have not been set correctly during factory programming.
		Delay	None.
		Action	When detected, the washer control shall not be operational.
		Solution	The control must be re-programmed with the factory programming tool.
<b>DELAY</b>	Communication loss	Condition	This is an intermediate error code that displays as the control is attempting to re-establish communications with the variable frequency drive. It is a condition of other specified Error Codes (for example Comm Error6).
		Delay	4 cycles of 10 seconds if during tumble portion of cycle. 4 cycles of 2 minutes if during spin portion of cycle.
		Action	Prompt is displayed during each of the specified 10 second or 2 minute periods. Error condition (such as Comm Error4) occurs, but Delay is shown instead of specific Error Code. Action during this time is dependent on the specific error code that caused it.
		Solution	No exit strategy. Either communication is re-established or the specific Error Code eventually occurs.

Fault	Description	Customer Action	
<b>CRC ERROR</b>	Firmware corrupted	Condition	This error occurs the washer control firmware fails a CRC check.
		Delay	None.
		Action	When detected, the washer control shall not be operational.
		Solution	The error is fatal. The control must be replaced.

## Vended Drive Motor Inverter Type Motor-Winding Resistance Chart

### T-1800 C-Series Washer

Motor	Winding	Wire #	Resistance	
			Minimum	Maximum
T-1800 1ph or 3ph 60hz Main (wash & spin)		T1 & T2	0.944	1.097
Dexter #9376-328-002		T2 & T3	0.944	1.097
Marathon #		T1 & T3	0.944	1.097

NOTE: Resistance values are measured at the stator. Values at the end of the motor wiring harness may be slightly higher.



# Section 5:

## Machine Service Procedures

### Top Panel Removal

- Step 1:** Remove 4 screws that hold detergent dispenser to top panel. If front soap dish go to step 2
- Step 2:** Unlock top panel lock with the 6324 key.
- Step 3:** Raise top panel, slide to the rear to release from back clips and lift off.

### Front Panel Removal

- Step 1:** Remove the loading door by first removing the two lower screws of the lower hinge clamp and lifting the door off of the hinge assembly.
- Step 2:** Remove 2 screws between front panel top and front (located behind control panel).
- Step 3:** Remove the two screws in the middle of the front panel.
- Step 4:** Pull panel out at the bottom to about a 45 degree angle to detach the top lip and remove.



### Back Panel Removal

- Step 1:** Remove all screws holding back panel in position except the bottom row.
- Step 2:** The bottom row of screws are slotted and only need to be loosened and to lift off panel.

**NOTE:** The back panel is not only a safety requirement but also contributes to the rigidity of the cabinet.

### Drain Valve Access

For access to drain valve, remove lower service panel. The drain valve is a ball type and is powered closed by the drain valve motor. It is mounted under the washer tub on the left side. It is spring loaded open. If power is interrupted to the washer, the motor releases the sealing ball, allowing the drive spring to open the valve. With the valve open, all water in the washer will drain out.



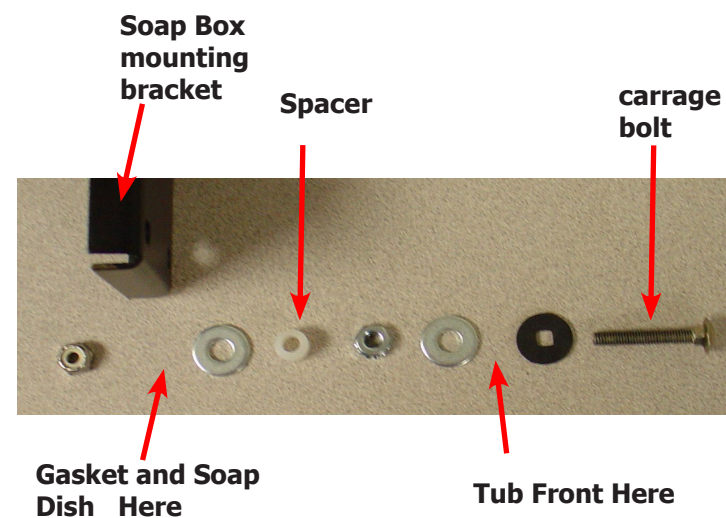
### Drain Valve Cleaning

- Step 1:** Loosen the clamp on the tub hose at the drain valve end and remove the hose from the drain valve.
- Step 2:** Loosen the drain hose clamp on the back of the drain valve. Remove two drain valve mounting racket screws from the frame of the washer.
- Step 3:** **Disconnect red & black wire connection at clear connector.**
- Step 4:** Remove the drain valve and bracket assembly. Unplug the wiring after the drain valve is removed from the washer.

## Front Soap Box removal

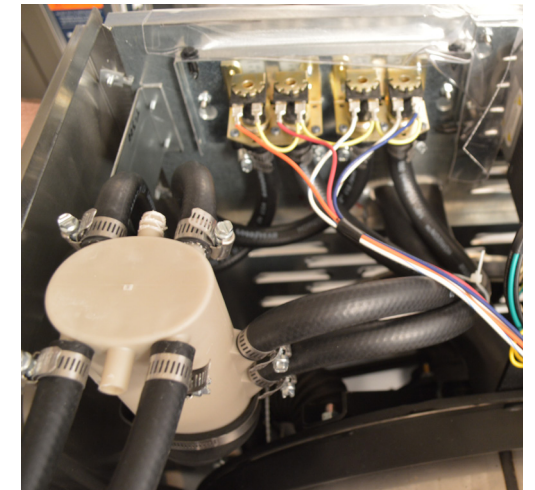
- Step 1:** Remove Front Panel.  
**Step 2:** Remove the six 3/8 nuts and remove Soap Box mounting bracket and Soap Box, followed by removing gasket.  
**Step 3:** Reassemble reverse operation.

Note: Be sure to note position of washers and spacers behind mounting bracket.



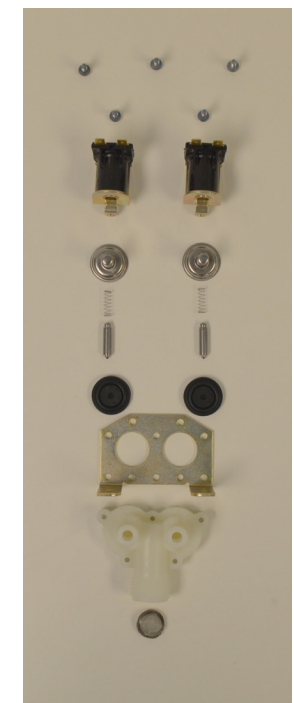
## Vacuum Breaker (also called an air gap)

In the left rear of the cabinet is the vacuum breaker. It guides the water to the tub and dispenser and prevents a back flow of water.



## Water Valves

Remove top panel to access water valves. (see Removing Top Panel)  
The two dual outlet water valves are mounted to the water valve mounting plate that is fastened to the rear channel. To remove the valves, loosen the 2 locking nuts on both sides of the mounting plate from the interior of the machine and then lift the plate and valves off of the back channel and pull the assembly into the machine. The valves can then be removed from the mounting plate by removing the 5/16 mounting screws.



Always check inlet screens to be sure that they are clean.  
Disassembly requires the removal of two solenoid screws and three valve body screws. Below the solenoid coil is a solenoid guide, armature, armature spring and diaphragm. All valve parts are available individually or as a complete unit.

## Door Lock Assembly Operation

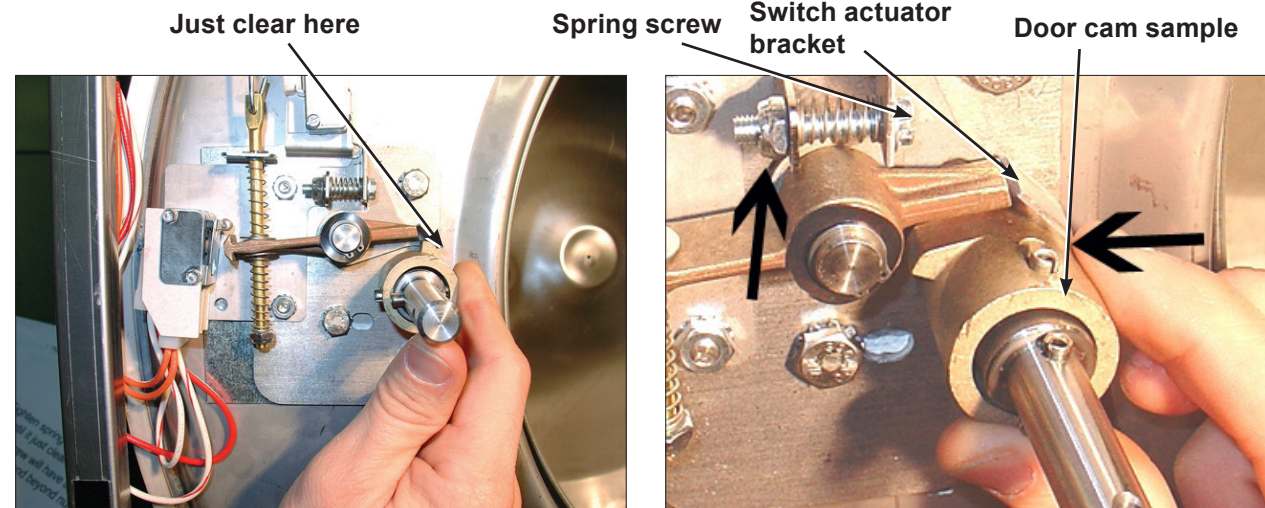
After loading the clothing, the door should be closed and latched. The locking cam on the door contacts the latching switch actuator which closes the latching switch. The specified number of coins should now be added to start the washer. The gear motor pulls up on the locking pawl by use of a linkage rod. The locking pawl has two jobs. The first is to lock the door. This is accomplished by blocking the locking cam on the door so that it can't rotate to unlock. The second job is to close the two piggyback lock sensing switches. These switches control power to all of the controls. If the door unlocks for any reason, these two switches will stop the machine. When the door handle is 1/4 to 1/2 of an inch from its fully closed position, the latching switch should close. The two piggyback lock sensing switches should be open when the door is unlocked and should be closed when the door is locked.

### Accessing the Door Lock Assembly

After removing the front panel and masking ring, the door lock assembly can now be accessed.

### Adjustment for Door Lock Assembly

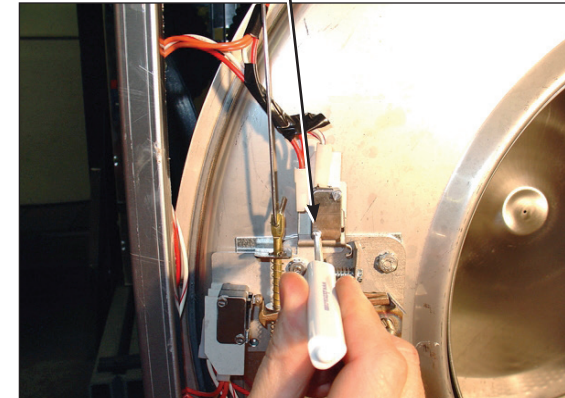
The latching switch and the piggyback lock sensing switches all have slotted mounting for easy adjustment.



**Step 2:** Tighten spring screw on switch actuator bracket arm until it just clears cam OD. at base of door lock assembly.

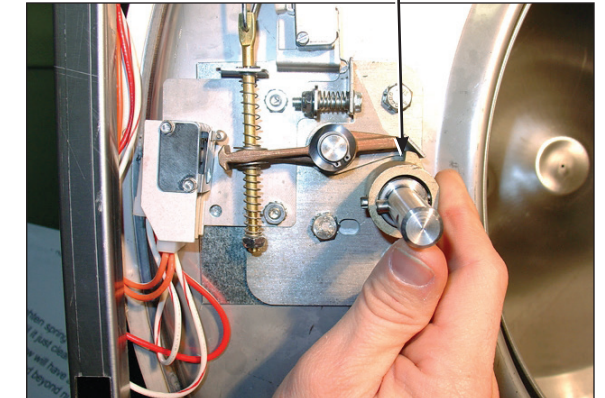
**Adjustment to this bracket usually is not necessary as next step is used more in field.**

Flat blade screw on door switch latching



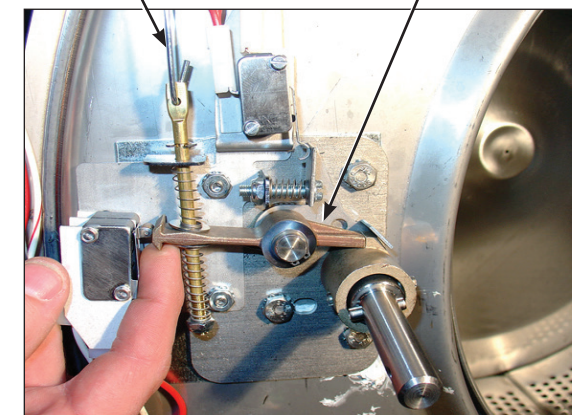
**Step 3:** With switch actuator bracket adjusted you will now need to adjust single switch by loosening 2 flat blade screws and allowing swivel of switch. Move switch towards above bracket until it actuates. Now tighten flat blade screws. Use a .040 thickness gauge to insert between bracket and switch and the switch should close and open again upon removal of thickness gauge.

Door cam check position



**Step 4:** Check for switch actuation at partial turn of cam as in operation above. Door handle goes from horizontal to six o'clock vertical.

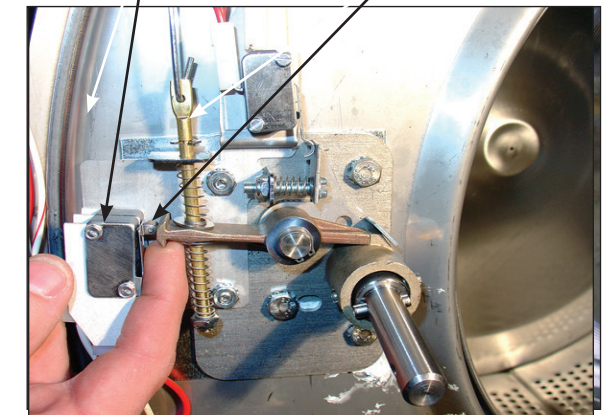
Door lock rod Locking pawl blocking



**Step 5:** Check that lock pawl arm swings to cam lobe to lock position.

Adjustment screw for (piggyback switches)

Top flat end of locking pawl.



**Step 6:** The lock stacked switches (piggyback) must be adjusted as door lock solenoid pulls up on door rod and locking pawl is now blocking door cam from turning and is in full up position. The stacked switches (piggyback) have a single actuator arm and it must actuate when single actuator roller wheel rolls to flat side of locking pawl. You will also notice a .040 gap between actuator arm and switch bodies.

Note: Both stacked switches must operate together!

## Adjusting the Loading Door

The door can be adjusted by changing the number of shims behind the door hinge and the door lock assembly. The vertical fit of the door to the tub can be altered by loosening the door hinge bolts and raising or lowering the door before retightening. It is important for the door to be centered on the tub front. By chalking the front of the tub and closing the door to transfer that line to the gasket, the centering can be evaluated. It is also important for door pressure to be similar around the door perimeter. Door pressure can be evaluated by inserting a dollar bill in several positions and tugging on it. See Parts Section for kit to increase door sealing pressure.

### Loading Door Removal



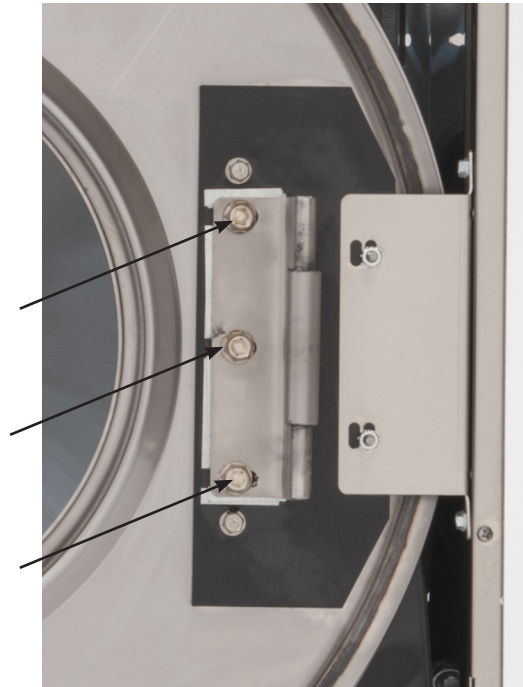
**Step 1:** Support door to prevent dropping.



**Step 2:** Remove the bottom 2 bolts holding the lower leaf hinge and then remove it. The door can now be lifted from the upper post of the hinge assembly.

### Loading Door Hinge Removal

**Step 1:** First remove loading door and front panel.



**Step 2:** Remove 3 screws holding door hinge. Shims may be present between hinge and tub front. The number may be increased or decreased to adjust right side door pressure.

**NOTE:**  
Door hinge mounting bolts penetrate tub front and require silicone sealer applied to holes when reinstalling.

### Loading Door Disassembly

**Step 1:** Remove the loading door as outlined above. Lay the door on a flat surface with the glass down.

**Step 2:** While holding down on the door glass, lift up on the door ring and roll back the lip of the gasket with your fingers.

**Step 3:** Work all the way around the gasket and the glass is out.

### Loading Door Reassembly

**Step 1:** Lay the door ring face down on a flat surface. Start the glass into one side of the door gasket.

**Step 2:** Use one hand underneath to push the gasket out and the other hand on the top pulling the gasket in place.

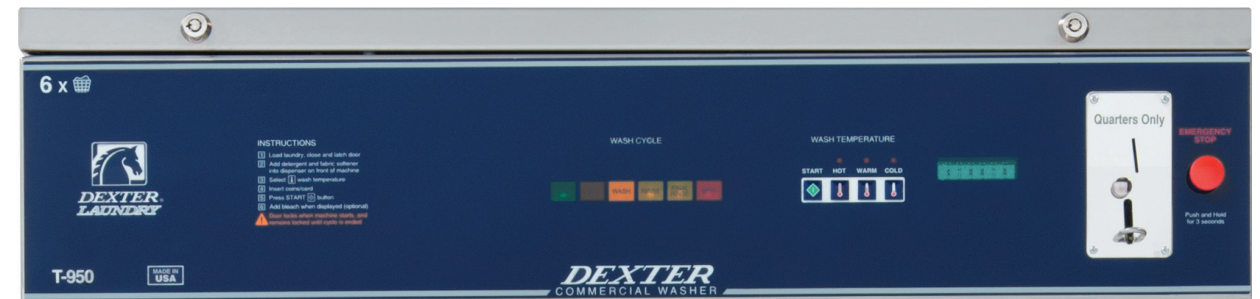
**Step 3:** The front lip of the door gasket should be checked for proper seating.

### Control Panel Name Plate Decal

The name plate on washer front is adhesive backed.

### Control Panel Name Plate Removal

The name plate may be removed by simply peeling it off.



### Re-Installation of Name Plate

**Step 1:** Remove any remaining glue from the control panel.

**Step 2:** Before removing the paper backing from the name plate, check fit to the control panel. The program push buttons are the locating guides.

**Step 3:** Remove the paper backing from the right side of the name plate, position it on the panel and press right end into place. Peel the backing from the left end and press into place.

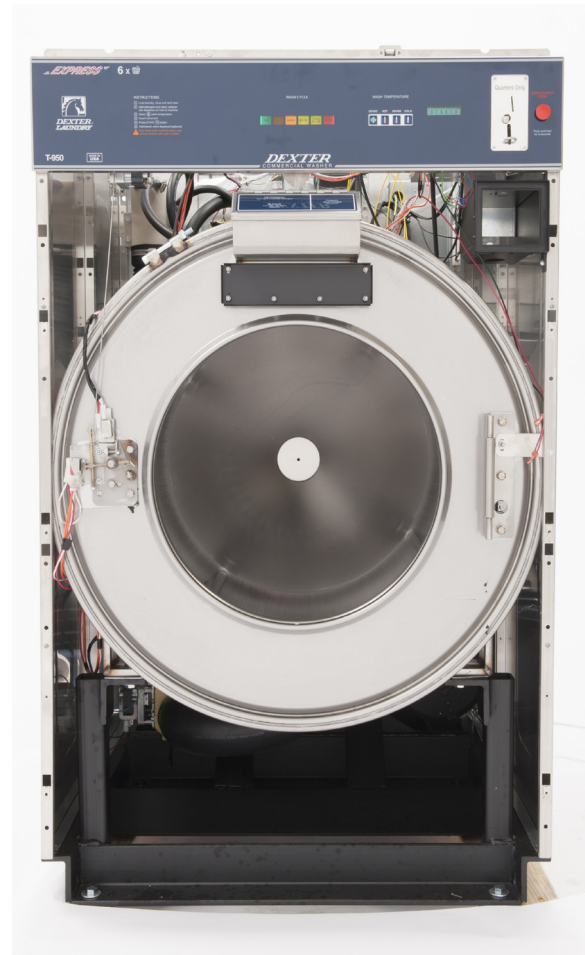


# Outer Cabinet Removal

T-1800

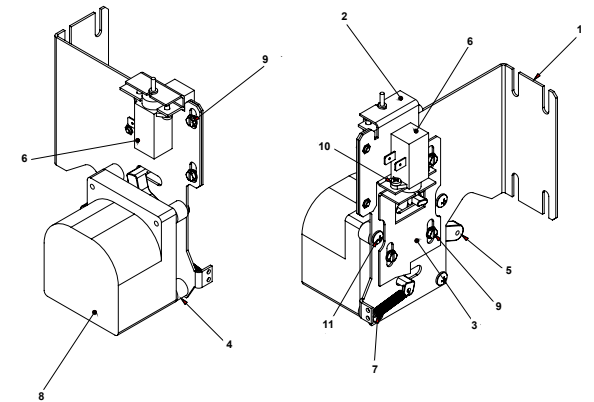
## Removal of Cabinet T-1800

- Step 1:** The power supply, water hoses, and drain connection must all be disconnected before proceeding with the disassembly.
- Step 2:** Now remove the lower service panel and the top panel assembly.
- Step 3:** Remove the left and right lower front panel screws that retain the panel to the chassis.
- Step 3:** Remove the bottom row of back panel screws.
- Step 4:** Remove the loading door.
- Step 5:** Remove the four 7/16 nuts along the bottom of each side panel straps. When reinstalling these screws do not overtighten.
- Step 6:** Disconnect the door lock wires from all switches and the door lock gear motor.
- Step 7:** Disconnect pull rod between gear motor and door lock assembly. Disconnect the wires to the dump valve at the bottom of the machine.
- Step 8:** Disconnect the wires to the drive motor from the VFD T1, T2, T3.
- Step 9:** Remove the clamp and the hose from the vacuum breaker where it connects to the inlet on the back of the tub.
- Step 10:** Remove the pressure switch hose from the bottom of the switch.
- Step 11:** It should now be possible for two people to lift the cabinet up and off of the front of the machine and set it aside.



## Door Locking Gear Motor Assembly

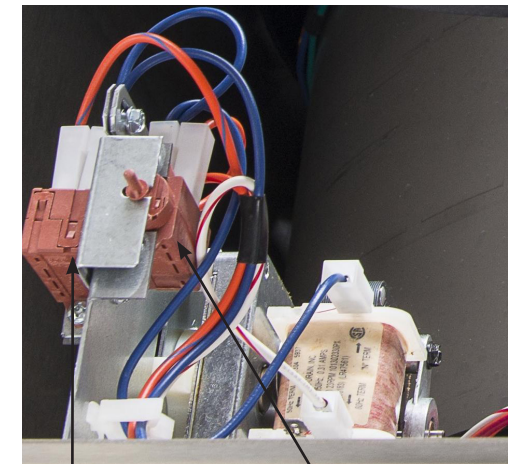
The door locking gear motor is rotated shut with control voltage to lock the door and releases when voltage is removed. It is located in the left front corner of the washer.



Door Lock Gear Motor

## Thermoactuators

The thermoactuators are a safety device that keeps the door from immediately unlocking if power is lost while the machine is operating. They are mounted under the door locking gear motor.



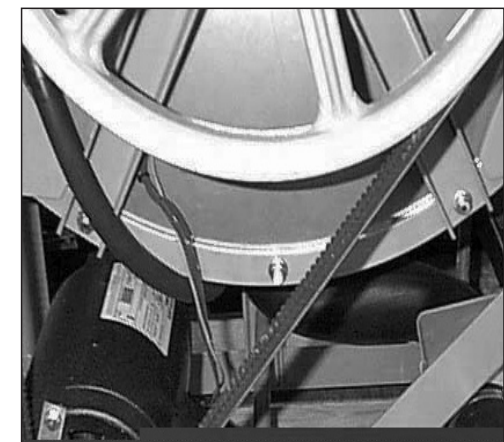
Unlock Thermoactuators    Lock Thermoactuators

## Lock Thermoactuator

Control voltage is applied to the lock thermoactuator at the beginning of the cycle making it extend and block the door locking gear motor. This keeps the door locked for approximately two minutes after a power failure occurs. The lock thermoactuator does not delay the door opening at the end of a normal cycle.

## Unlock Thermoactuator

To insure that the lock thermoactuator has retracted by the end of the cycle, one minute prior to the end of the cycle, the unlock thermoactuator is powered with control voltage making it extend and unblock the door locking gear motor.



Drive Belt

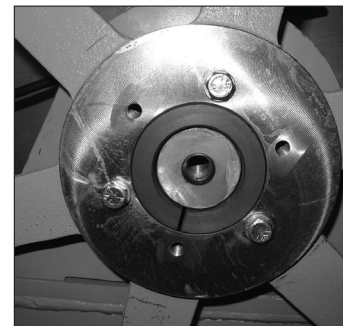
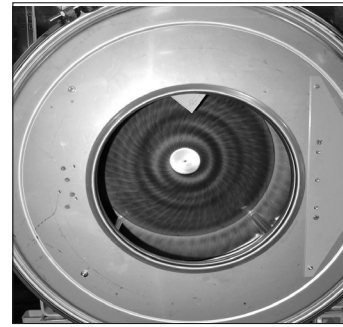
## Drive Belt Removal

Turn the drive pulley while applying pressure to the drive belt until it rolls off of the basket pulley first and then remove from the motor pulley. Be cautious not to drop the motor which could unhook the tension assembly.

Reverse this procedure for installation.

## Cylinder

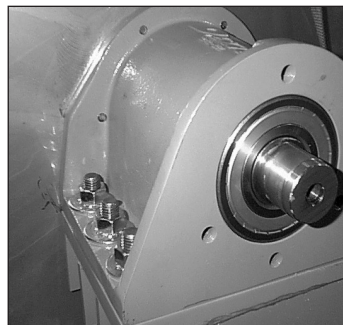
- Step 1:** Remove the top panel as described previously.
- Step 2:** Remove lower service panel as described previously.
- Step 3:** Remove front panel as described previously.
- Step 4:** Remove masking ring as described previously.
- Step 5:** Remove door lock assembly. (Leave wires & pull rod in place)
- Step 6:** Remove clothes door.
- Step 7:** Remove tub front clamp ring.
- Step 8:** Remove tub front. Use a flat screw driver to pry the tub front loose.
- Step 9:** Remove the rear access panel.
- Step 10:** Remove the drive belts.
- Step 11:** Remove drive pulley. Remove 3 retaining screws. Insert (3) 3/8 16 x 2" screws into the threaded removal holes. Alternately tighten these screws evenly to pull the pulley off.
- Step 12:** Remove pulley hub. Drive a flat screw driver into the slot in the hub and pull it from the shaft.
- Step 13:** Install cylinder puller. (Snap On part #CJ-84-C) Be sure to thread a 5/8-11 NC bolt into the end of the cylinder shaft to protect the threads. Push the basket out.



## Bearing Housing Assembly

### Removal

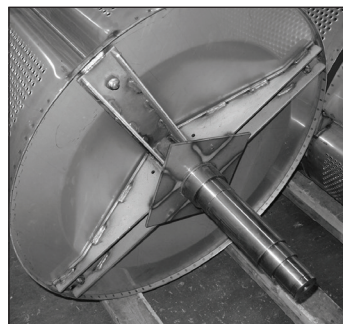
- Step 1:** Remove cylinder from washer (see Cylinder (basket) removal).
- Step 2:** Remove 6 7/16" tub back to bearing housing cap screws.
- Step 3:** Remove 6 3/4" bearing housing to frame bolts.
- Step 4:** Remove bearing housing from frame.
- Step 5:** Remove the retaining ring next to the front bearing.
- Step 6:** The bearings are pressed into the housing and must be pressed back out.



### Reassembly

- Step 1:** When installing new bearings into a bearing housing, first press the front (large) bearing into the housing until it bottoms and install the snap ring. With the bearing spacer in place, press the rear bearing in until the spacer is snug between the two bearings.

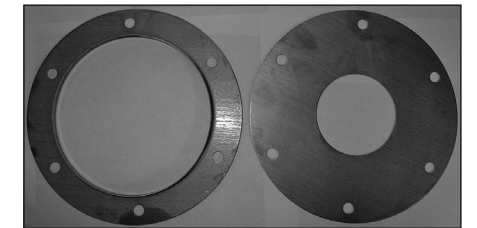
**NOTE:** If the tub-back water-seal mating ring has been moved it must be cleaned and resealed.



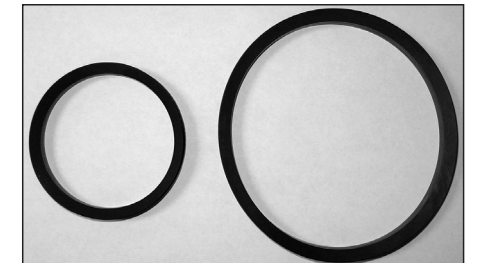
## Water Seals

### Replacement

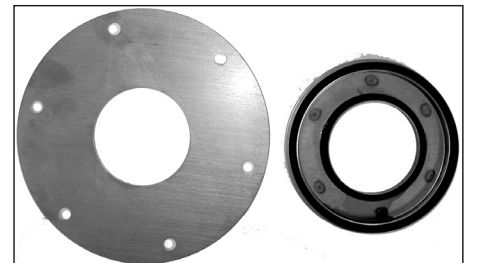
- Step 1:** Remove cylinder from washer (see Cylinder (basket) removal).
- Step 2:** Remove water seals from the seal mounting plate on the cylinder shaft. These are removed with your fingers.
- Step 3:** The primary and secondary seals that mount on the sealing ring may be slid over the shaft and seated on the metal sealing ring with your fingers. In the unlikely event that the metal ring that mounts these sealing rings were to be damaged or moved, a new one would need to be pressed on. The seal mounting ring must be pushed against the stop on the shaft. After installing the seals, lubricate the faces of the seals with silicone grease.
- Step 4:** Install cylinder (see Cylinder (basket) reassembly).



Guard Ring & Mating Ring



Seals

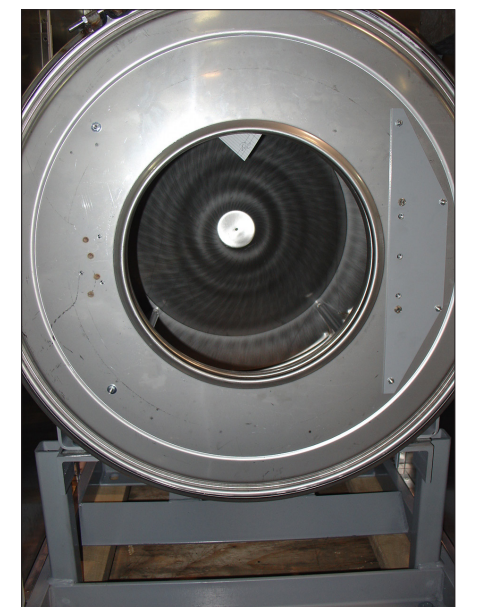


Mating Ring & Mounting Ring

## Outer Tub

### Removal

- Step 1:** The outer tub can easily be removed when the tub front, cylinder and bearing housing has been removed as outlined previously.
- Step 2:** At that point the only attachments to the chassis are the two front strap mounting bolts.



## Reassembly of the Cylinder

- Step 1:** Use the hub of the drive pulley, a stack of 5/8" flat washers and a 3" long 5/8" bolt to pull the cylinder shaft through the bearings. After the 3" bolt a 2" long bolt will be required to finish pulling the cylinder shaft through.
- Step 2:** Remove the 1/2" bolt and nut from the top of the outer tub clamping band.
- Step 3:** Install Dexter Tool part # 8545-056-001 on the back of the outer tub to adjust tub front to cylinder clearance. Thread 5/8" bolt through tool and into cylinder shaft. Push the outer tub forward 1/4" to 1/2" with tool 8545-056-001 by tightening the 5/8" bolt. This will ease the installation of the outer tub front.
- Step 4:** Clean the silicone rubber off the tub front and the outer tub.
- Step 5:** Install new bead of silicone rubber on tub front.
- Step 6:** Install tub front.
- Step 6A:** Align hole in top of tub front with notch in top of outer tub.
- Step 6B:** Use 4-6 #11R vise grip clamps to hold tub front to outer tub. A rubber mallet may be needed to properly seat the tub front into the outer tub.
- Step 6C:** Install tub front gasket around outer edge of tub front and outer tub flange. The opening should be centered at the top.
- Step 6D:** Remove vise grips. The tub front gasket will hold the tub front in place.
- Step 7:** Install tub front clamp ring and tighten. Tap around the clamp ring with a rubber mallet to seat the ring and gasket while tightening the clamp ring bolt.
- Step 8:** Adjust clearance between the outer tub front and the front lip of the cylinder to 5/16".
- Step 9:** Tighten the outer tub clamping band.
- Step 10:** If necessary, the outer tub may be adjusted up or down and side to side with the 2 bolts that fasten the bottom of the outer tub clamping band to the frame.
- Step 11:** Remove Dexter Tool part 8545-056-001 from the back of the outer tub.
- Step 12:** Install drive pulley.
- Step 12A:** Install hub on cylinder shaft.
- Step 12B:** Hold hub against rear bearing with 5/8" bolt and flat washer in end of cylinder shaft.
- Step 12C:** Line up 3 unthreaded holes in pulley with the 3 threaded holes in hub.
- Step 12D:** Insert 3 pulley bolts and tighten evenly alternating bolts to 30ft/lbs.
- NOTE:** Overtightening or uneven tightening can break drive pulley.
- Step 13:** Install drive belts & back panel.
- Step 14:** Install door lock. All mounting holes should be sealed with silicone rubber.
- Step 15:** Install door, masking ring, front panel, lower service panel and top.

## T-1800 Bolt Torque Chart

Bolt Size	Where Used	Torque
1/2-13 x 2"	Tub Feet To Base	70-110 ft-lb
3/8-16 x 3"	Front Clamp Ring Ends	100-120 in-lb
7/16-14 x 1"	Bearing Housing To Tub Back	60-80 ft-lb
7/8-9 x 3-1/2"	Bearing House To Base	600-650 ft-lb
3/4-10 x 1-1/2"	End Of Shaft	120-130 ft-lb
3/8-16 x 2"	Drum Pulley Bushing	28-32 ft-lb
1/4-20 x 1"	Motor Pulley Screws	80-90 in-lb
#10-32	Soap Box Nuts	10-20 in-lb



# Section 6:

## Service Electrical Components

### Control Mounting Trough

Remove top panel to access control trough. (see Removing Top Panel) It sets on the right side of the machine and holds the control PCB's, transformers, and pressure switch.

### Main Data Communication Cable

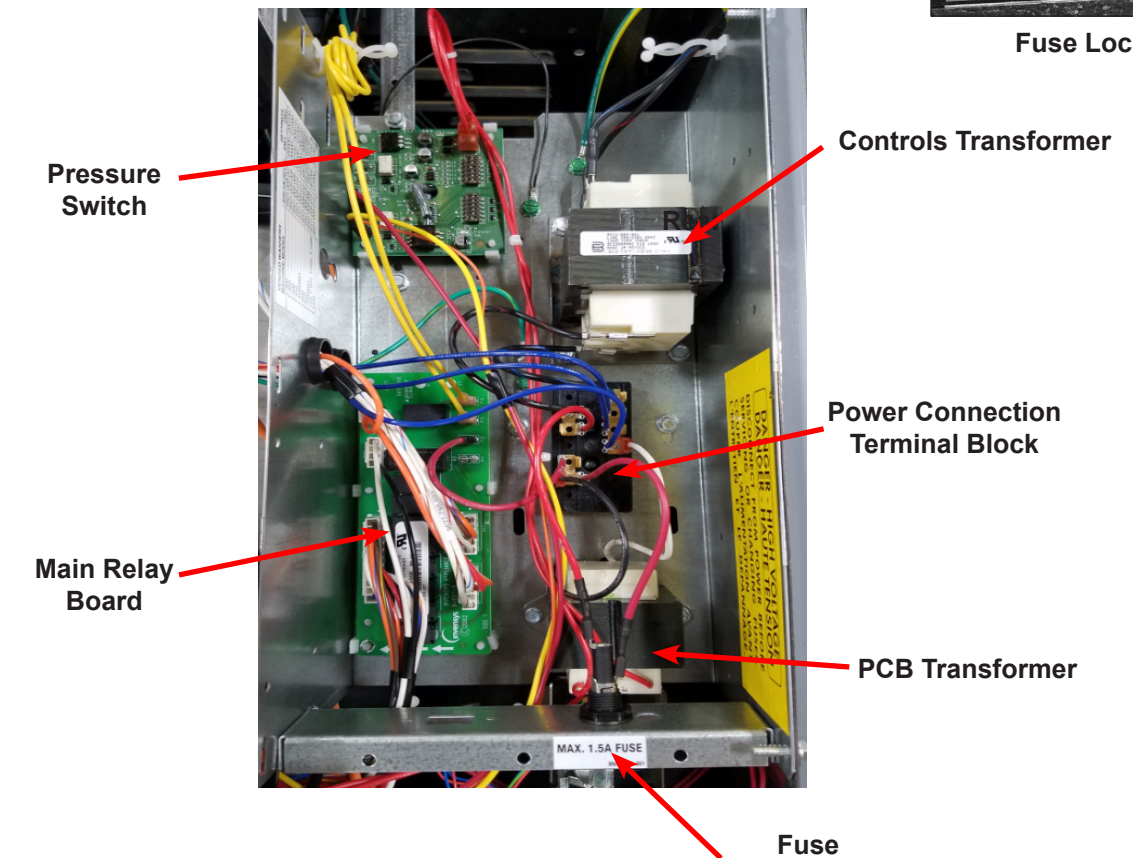
Goes between front PCB board and Variable Frequency Drive unit mounted center rear of machine. It has telephone type connectors at each end and is inserted at Controller PCB and the Variable Frequency Drive.

### Circuit Breaker/Fuse

The fuse (optional circuit breaker) mounts to the rear channel. It carries all of the controls in the machine but does not include the motor. To reset the circuit breaker just push in the button. If you have a fuse then remove fuseholder and fuse and replace with a 1 1/2 amp fast blow type fuse.



Fuse Location



### Main Control Printed Circuit Board

Please be sure to be grounded to machine before removal of this board from machine. PC board mounted vertically behind front control panel. Remove hold down nuts in 4 corners and 1 at bottom center.

### PCB Transformer Step-down

Small transformer mounted at front of control trough that is powered with 120 VAC primary and two secondary outputs of 2.3 VAC and 24-27 VAC.

## Controls Transformer

This transformer is mounted at the back of the control trough and steps a range of 208 to 240 volts down to 120 volts for the controls. There are two terminals on the controls transformer for incoming power. One terminal tap is marked for 208 volts use this tap for measured voltage of 208 volts - 219 volts, and the other tap is marked 230 volts for 220 volts - 240 volts. Note: All washers have a controls transformer. Always check the incoming voltage and use the appropriate transformer terminal when installing ALL washers.

## Main Relay Printed Circuit Board

Please be sure to be grounded to machine before removal of this board. PCB mounting horizontal in control trough towards front of machine. Remove 4 mounting nuts.

## LED Printed Circuit Board Temperature & Start Display/ Push-Button

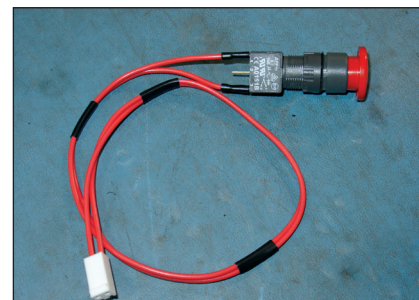
The selector switch is mounted in the center of the control panel and is held in place with five nuts. It allows the selection of hot, warm or cold water temperatures. Note: Do not over tighten on reinstallation as the switch can be damaged, stay pushed in and will cause erratic displays.

## Emergency Stop Button Switch Assembly

The stop button is mounted on right side of machine. Remove the top and access the rear of button. Remove the plastic retainer by unthreading CCW. The switch assembly will have to be removed by pressing down on the plastic clip while pulling the switch body away from the stop button.



Temperature and Start Display

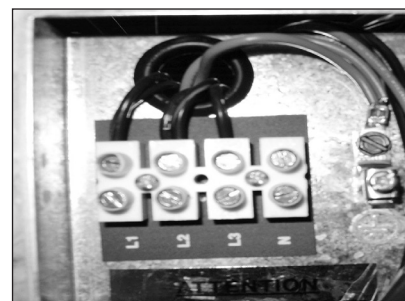


Stop Button Switch Assembly

## Power Connection Terminal Block

This terminal block sets at the very back of the control trough. Incoming power to the washer should connect here. (see Electrical under Installation and Operation Section for exact connections)

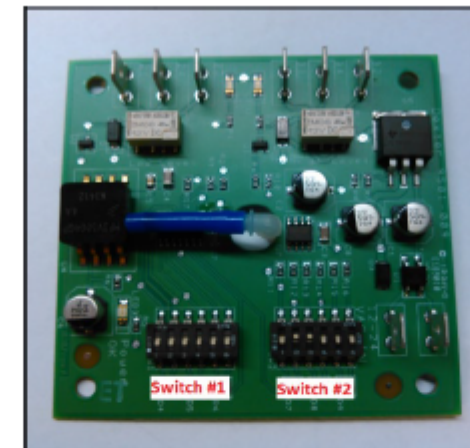
Rear



## Electronic Pressure Sensor

The Electronic Pressure Sensor comes standard on all models starting September, 1st 2015. Machines manufactured before this date can be upgraded with Kit 9732-213-001. The Pressure sensor is adjustable. The Factory settings chart will let you know the starting values for each machine and by following the Switch position chart you can adjust the water levels in 1/4 inch increments from that starting value.

### Factory Settings:



Model	Vended				On-Premise			
	Switch #1 Efficient Inches (mm)		Switch #2 Classic Inches (mm)		Switch #1 Low Level Inches (mm)		Switch #2 High Level Inches (mm)	
T-300	5.25	(133)	7.00	(178)	6.00	(152)	6.75	(171)
T-350	5.25	(133)	6.25	(159)	6.00	(152)	6.75	(171)
T-350 SWD	5.25	(133)	6.25	(159)	6.00	(152)	6.75	(171)
T-400	7.00	(178)	9.00	(229)	8.00	(203)	11.00	(279)
T-450	6.00	(152)	6.25	(159)	6.00	(152)	8.50	(216)
T-450 SWD	5.00	(127)	7.00	(178)	6.00	(152)	8.50	(216)
T-600	7.25	(184)	9.25	(235)	8.00	(203)	11.00	(279)
T-650	6.50	(165)	8.25	(210)	8.00	(203)	11.00	(279)
T-675	-	-	-	-	8.00	(203)	11.00	(279)
T-750	6.00	(152)	7.50	(191)	6.00	(152)	8.75	(222)
T-750 SWD	9.25	(235)	11.75	(298)	9.25	(235)	11.75	(298)
T-900	6.00	(152)	7.50	(191)	6.00	(152)	8.75	(222)
T-950	6.00	(152)	7.50	(191)	6.00	(152)	8.75	(222)
T-975	-	-	-	-	6.00	(152)	8.75	(222)
T-1200	6.00	(152)	7.50	(191)	6.00	(152)	8.75	(222)
T-1450	6.75	(171)	7.00	(178)	6.75	(171)	9.50	(241)
T-1475	-	-	-	-	6.75	(171)	9.50	(241)
T-1800	6.75	(171)	7.00	(178)	-	-	-	-

Switch Positions:						
Depth (in):	Pos 1	Pos 2	Pos 3	Pos 4	Pos 5	Pos 6
5.00						
5.25	on					
5.50		on				
5.75	on	on				
6.00			on			
6.25	on		on			
6.50		on	on			
6.75	on	on	on			
7.00				on		
7.25	on			on		
7.50		on		on		
7.75	on	on		on		
8.00			on	on		
8.25	on		on	on		
8.50		on	on	on		
8.75	on	on	on	on		
9.00					on	
9.25	on				on	
9.50		on			on	
9.75	on	on			on	
10.00			on		on	
10.25	on		on		on	
10.50		on	on		on	
10.75	on	on	on		on	
11.00				on	on	
11.25	on			on	on	
11.50		on		on	on	
11.75	on	on		on	on	
12.00			on	on	on	
12.25	on		on	on	on	
12.50		on	on	on	on	
12.75	on	on	on	on	on	
13.00						on
13.25	on					on
13.50		on				on
13.75	on	on				on
14.00			on			on
14.25	on		on			on
14.50		on	on			on
14.75	on	on	on			on
15.00				on		on

### Data Communication Cable

Goes between front PCB board and Variable Frequency Drive unit mounted center rear of machine. It has telephone type connectors at each end and is inserted at Controller PCB and the Variable Frequency Drive.

### Delta Variable Frequency Drive:

Main power is connected to terminals L1, L2, and L3 on the Delta drive. If the washer is connected to a three phase source, there should be voltage present on all three terminals. If the washer is connected to single phase power, there should be voltage present on terminals.

The voltage should measure 208 Volts to 240 Volts A.C. between phases and connected to if connected to three phase). There is a tolerance of + 10% on the mains voltage (187 Volts to 264 Volts).

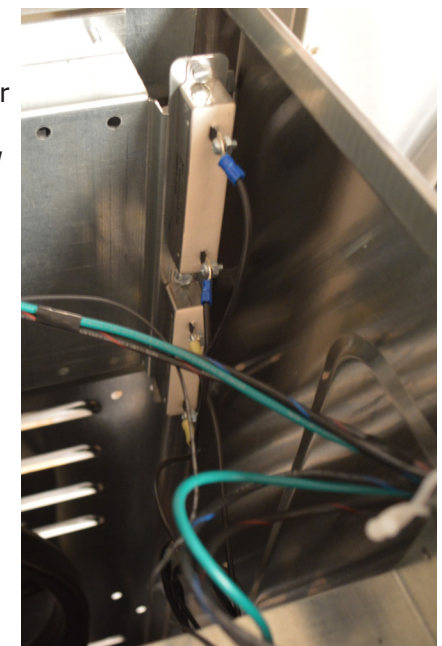
### Delta VFD Motor Leads:

The wires from the motor are connected to terminals T1, T2, and T3. Since this drive uses pulse width modulation, an accurate current or voltage reading is not possible. Although an accurate current reading is not possible, a balanced current reading should be present while the motor is running.



### Delta VFD Dynamic Braking Resistors:

Two, 160 Ohm or 200 Ohm braking resistors (Please check your washer model parts requirements and quantities), are connected in parallel and attached to the drive at terminals B1 and B2. These resistors allow voltage, which is generated by the motor when decelerating, to be dissipated. They will become hot while the motor is slowing down, so care should be taken so as not to come in contact with them. This will prevent an electrical shock and/or a physical burn.



### Delta VFD Cooling Fan:

There is a cooling fan attached to the bottom of the Delta drive. This fan will operate when the internal temperature of the drive reaches a predetermined level, the same way the radiator fan in a newer car operates. THE FAN CAN OPERATE ANYTIME POWER IS APPLIED TO THE DRIVE! Remove power to the drive if work is required around the fan.





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# Section 7:

## Electrical Wiring Diagrams & Schematics

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## Electrical Path Circuit Schematics

### Start Circuit

Power travels into the machine on L1 & L2 & (L3, if 3 phase used). L1 and L2 provide 208- 240VAC to the controls transformer which steps the voltage down to 120VAC for the controls. (The L1 connection at the controls transformer must be checked at start-up to coincide with machine operating voltage) The 120VAC travels out from the transformer on either [X-1 red wire directly to the 1.5 amp fuse] or [X-1 black/red wire to TB-4 and then through the red wire to the 1.5 amp fuse]. The controls transformer also creates a neutral on the X-2 black/blue wire that connects to TB-1. From the fuse holder, 120VAC travels on the red wire to the #6 terminal on the terminal strip and then through the black wire to another step-down transformer. From the terminal strip the blue wire will provide the neutral for gear motor, thermoactuators and all valves. The white wire provides the neutral from the terminal to the step down transformer.

120VAC is stepped down to 24 VAC (blue wires), 24VAC (red wires), and a yellow center tap wire to the P-7 power connection on the main controller PCB . With the main control PCB now powered, 5VDC will be present between the (2) yellow wires and also the (2) brown wires for the coin switches. Both pairs will now be ready to count coins through the P-2 connection at the control PCB. 26.8 VAC goes out on the black wire of the P-4 connection from the main control PCB to the S5 door closed switch which mounted on the hinge side of the front panel. Closing the door will engage the door closed switches, sending the voltage to the red wire on the S1 door latched switch. Turning the door handle to the vertical latched position closes the S1 door latched switch, returning the voltage to the main control PCB on the white/red wire at the P-4 connection. 26.8VAC is now present at the S2 and S3 door locked switches.

26.8VDC is also at the black and white wires between P-21 at the main control PCB and the P-20 of the relay PCB. This voltage signals the relay PCB that the door is closed and latched making 120VAC available to the relays controlling the door lock gear motor assembly, drain valve and water valves. A continuous 5VDC is sent on the red wire from the P-1 connector on the main control PCB, through the (normally closed) emergency stop button switch and returns on the second red wire back to the P-1 connector. After selecting the temperature, payment is added and the display counts down on the main control PCB display until the vend price is satisfied. The display will change to scroll PUSH START and the green light over the start button will flash. Pressing the start button on the front of the main control PCB signals the relay PCB to lock the door and 120VAC will go to the door lock gear motor on the white/red wire from the P17 connector of the relay PCB. The door lock gear motor engages and pulls up on the door locking rod, locking the door and closing the S2 and S3 door locking switches.

The S2 locking switch is a backup to the S1 latching switch so that once the cycle starts the S1 isn't critical. The S3 locking switch provides 26.8VDC on the orange wire back to P4 connector at the main control PCB and the P15 connector at the relay PCB. This signals that the loading door is closed, locked and safe to continue wash operations. This activates the P-13 and P-14 yellow enable wires to the inverter drive to allow motion. If there is no signal on P-15 (orange wire) there will be no motion of the tub. S1, S2, S3 and S5 door switches are now closed . The green "On" LED and the door lock gear motor (discussed in start circuit) will remain on throughout the cycle.

### Fill Circuit-Warm

The relay PCB supplies 120VAC to the brown/yellow wire from P-17 to the drain valve which closes the valve. The lock thermoactuator also receives 120VAC on orange/blue from P17 of the relay PCB. This device prevents the door lock gear motor from dropping out and unlocking during the cycle in the event of a power loss. The 120VAC will cycle on and off keeping the lock thermoactuator engaged until 70 seconds before the end of the cycle. The main control PCB sends data commands to the VFD through the data cable connected at P-6. These commands control the wash basket which will tumble one direction for 12 seconds, pause, and then reverse direction for 12 seconds.

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The prewash or wash LED will illuminate at this time, powered through the white wires from the P-3 connection of the main control PCB to the LED printed circuit board. Using the factory preset cycle as an example: The washer fills the tub through the back of the machine with either one or both the C1 cold and H1 hot water valves. From the P19 connection of main relay PCB, 120VAC is sent out on the white/brown wire to the C1 cold water fill valve and the red/yellow wire to the H1 hot water fill valve depending on the temperature selected. After a 90 second delay from the beginning of the wash cycle bath only, the detergent dispenser flushes the detergent into the tub for 20 seconds. This is accomplished when 120VAC travels through the red/orange wire to the H2 hot water valve solenoid. During the machine fill, a 5VDC signal is sent on the red wire from the P5 connection of the main control PCB to the pressure switch contact and returns on the yellow and orange wires to the P5 connection of the main control PCB. When the water level in the basket reaches the preset level pressure, the switch moves the switch contacts to the full or open position. This causes the main control PCB to signal the relay PCB to shut off the water valve coils.

### Wash Circuit

Once the machine has achieved it's water level, the wash basket will continue to tumble one direction for 12 seconds, pause, and then reverse direction for 12 seconds. The time on the front display will count down as the bath progresses. The time of the bath is programmable up 15 minutes per bath. Note: When programming cycles, the wash bath must be programmed for 3 minutes or more.

### Drain

When the program bath time ends the main control PCB signals the relay PCB to remove 120 VAC power from brown/yellow wire at P17 going to the drain valve. The normally-open, spring-loaded drain valve opens allowing water to exit the machine. This resets the pressure switch back to an empty level and restores the 5VDC connection through the pressure switch from the red wires to the orange and yellow wires.

### Rinse 1 & 2

For Rinse 1 & 2, the rinse LED will illuminate, the drain valve will receive 120VAC and close. The basket will fill and tumble the same as the wash bath for the programmed time. The rinse water temperatures are programmable and factory default is cold.

### Final Rinse Circuit

The final rinse LED will illuminate, the drain valve will receive 120VAC and close. The basket will fill and tumble the same as the previous baths for the programmed time. The final rinse water temperatures are programmable. Note: When programming cycles, the final rinse bath must be programmed and cannot be set for less than 3 minutes. Also at the beginning of the final rinse bath, the main control PCB will signal the relay PCB to send 120V to the P-19 connector on the white/blue wire to the C2 cold water valve for 20 seconds to flush the fabric softener dispenser.

### Spin Circuit

The spin LED will illuminate and the main control PCB sends a signal to the variable frequency drive via the data cable at P6 to VFD RJ-11. The rotation as viewed from front during spin will be counter-clockwise. (The 18lb washers will extract in a clockwise direction) The time of the spin cycle can be programmed. Note: The final spin must be programmed into the final rinse bath and must be programmed for 1 minute or more.

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### Unlock Thermoactuator and Shake Out Circuit

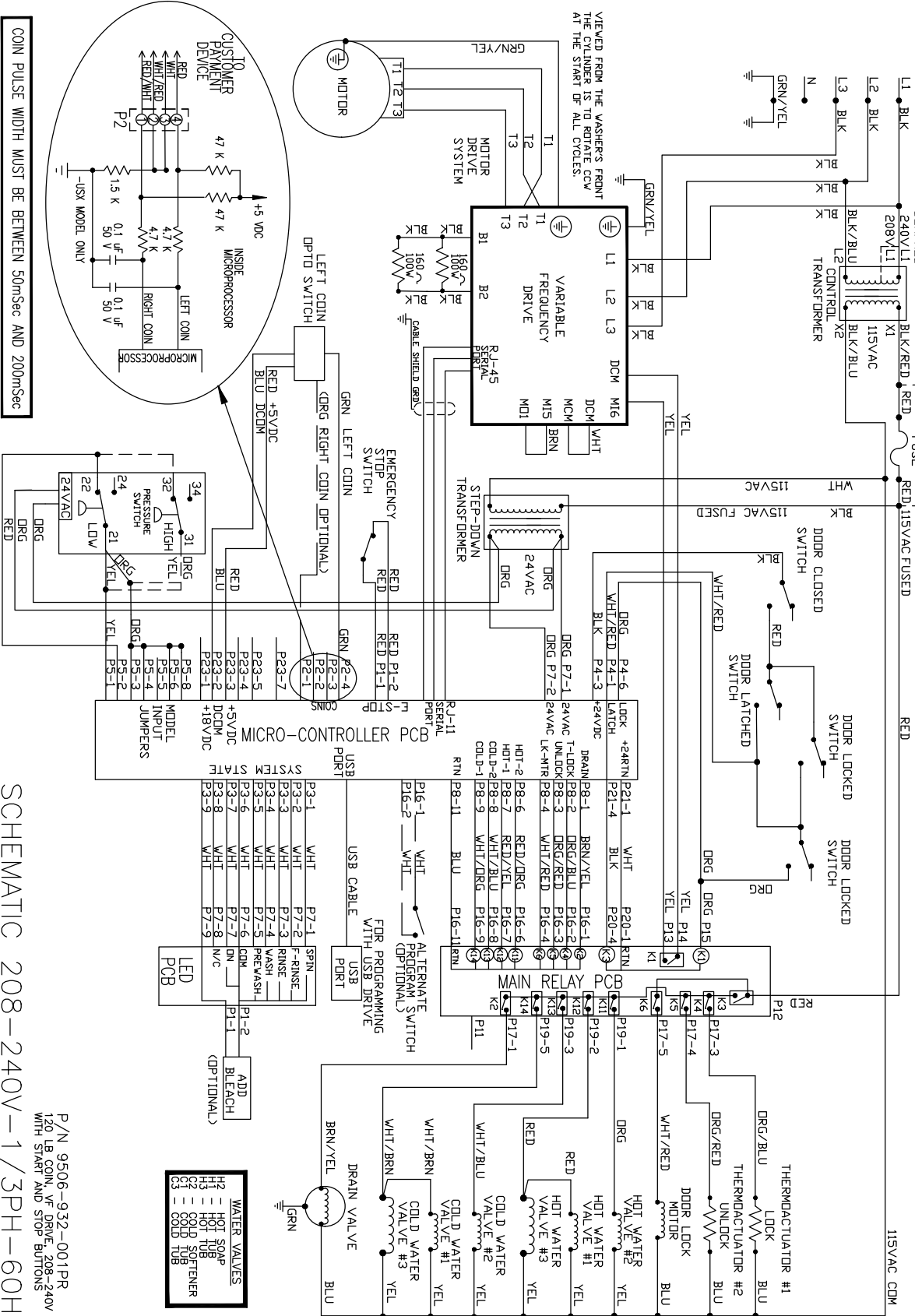
70 seconds before the end of the cycle the main control PCB signals the relay PCB to remove 120VAC from the orange/blue wire at the P-17 connector on the lock thermoactuator. This allows the lock thermoactuator time to cool and retract by the end of the cycle. To insure that the lock thermoactuator has retracted by the end of the cycle, 1 minute prior the end of the cycle, the unlock thermoactuator is powered with 120VAC through the orange/red wire from the P-17 connector of relay PCB. The unlock thermoactuator moves the complete bracket assembly away from the white door lock actuator allowing it to drop at the end of the cycle, unlocking the door. The basket will come to a stop from spin speed with the assistance of dynamic braking resistors wired to the variable frequency drive. (See wiring diagrams for quantities and resistor ohm values). The washer will then tumble for 45 seconds to let the clothes shake loose from the basket and then stop.

### End of Cycle and Door Open Circuit

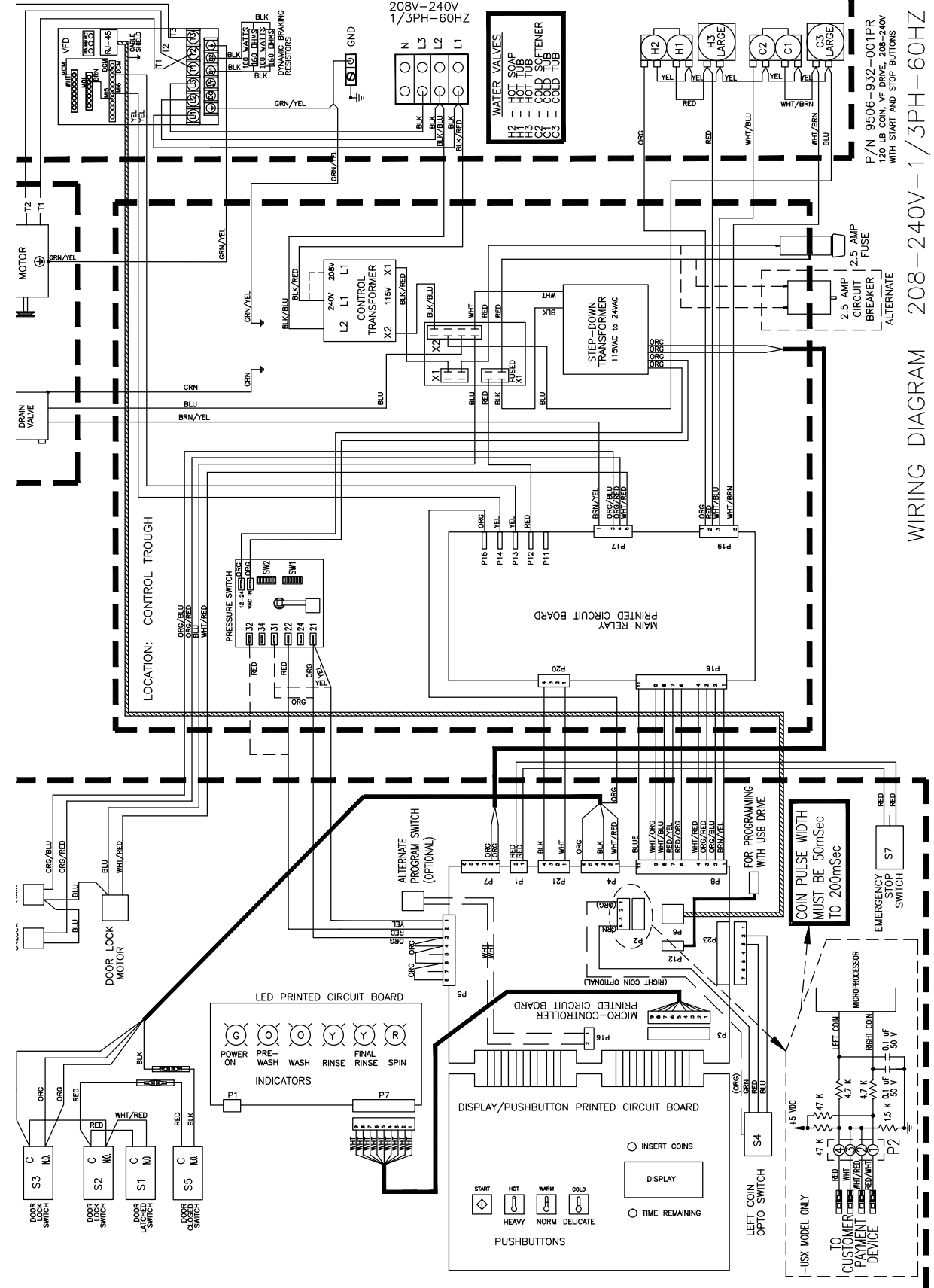
Once the machine stopped, 3 things occur:

1. The enunciator will signal for 3 seconds letting the user know that it is the end of the cycle.
2. The Display of the Washer will scroll "CYCLE DONE THANK YOU".
3. The main control PCB signals the relay PCB to remove power from the white/red wire at P-17 which allows the door lock gear motor to unlock. When the loading door is opened, the S1,S2,S3,S5 switches are opened. The machine is now ready to accept coins again.

# T-1800 Non-Express : 208-240V Schematic



# T-1800 Non-Express : 208-240 Volt Wiring Diagram





## C-Series Accessories

WC1800-XA12ECX 208-240 volts 60hz Single Phase or Three Phase

Key	Description	T-1800	QTY
*	Hose, Water Supply 3/8" I.D. x 48"	9990-027-011	2
*	Hose, Water Supply 5/8" I.D. x 48"	9990-027-013	2
*	Washer, Inlet Hose (furnished)	8641-242-000	2
*	Strainer, Inlet Hose (furnished)	9565-003-001	2
*	Bevel Washer for 5/8" bolt used in installations using angle iron bases	8641-586-002	
*	Bevel Washer for 3/4" bolt used in installations using angle iron bases	8641-586-003	4
*	Sealing compound	8538-151-001	1
*	TORX#20	8545-051-002	1
*	Special Tool For Removing Coin Acceptor Mounting Screws. (T-10 Torx)	8545-051-003	1
*	Flow Restrictors (in dispenser )	9475-002-003	2
*	Battery (used on Control PCB)	8612-001-001	1
*	Special Tool for adjusting spacing between outer tub front and cylinder front	8545-056-001	1
*	Clamps to hold tub front to outer tub when installing tub front	Vise Grip #11R	1
*	Coin Bearing & Seal Kit	9732-219-009	1
	Key Service Lock (6324)	6292-006-007	1
	USB, Thumb Drive (Blank)	9150-045-001	1
	USB, Thumb Drive, W/File	9150-045-002	1
*	Mode Light Backing Window	9635-022-001	1
*	MS300 Display	9150-058-001	1

## Kits, Assemblies, & Common Parts

Coin Acceptor Components	Part Number
Optical Coin Acceptor	9021-092-002
Optical Coin Switch Replacement	9801-099-001
Coin Drop Screws	9545-053-002
Retainer, Coin Acceptor	9486-149-001
Loading Door & Door Lock Components	Part Number
Door Glass Gasket (Large Door)	9206-431-001
Door Handle Only (Large)	9244-091-001
Door Close Switch	9539-492-001
Door Lock Gear Motor Assembly	9892-015-001
Kit - Door Latching Assy. & Cam (replaces original Door Latching Assembly)	9732-347-001
Kit - Door Cam Replacement	9732-346-002
Kit - Locking Pawl Replacement	9732-346-001
Kit - Door Gasket Expander Kit (Small)	9732-139-001
Kit - Door Gasket Expander Kit (Large)	9732-139-002
Electrical Components	Part Number
Transformer, Main	8711-004-001
Transformer, Control	8711-009-004
Main Control Board	9473-010-001
Kit-Replacement, Pressure Sensor (Only)	9732-315-001
VFD & Breaking Resistors Components	Part Number
Breaking Resistor 200 Ohms	9483-004-002
Breaking Resistor 160 Ohms	9483-004-003
Delta E Drive Display	9150-044-001
MS 300 VFD Display	9150-058-001
Data Cable (56")	9806-015-003
Drain & Water Valve Components	Part Number
Kit - 3" Drain Valve Seal Replacement	9732-327-001
Drain Valve 3"	9379-202-001
Water Valve (Dual)	9379-183-012
Water Valve (Single Mueller)	9379-194-001
Diaphragm (Dual)	9118-049-003
Diaphragm (Single Mueller)	9118-055-001
Cabinet Components	Part Number
Front Panel Screw	9545-008-014
Front Panel Finisher Washer	8641-585-001
Front Panel Spring Nut	8640-399-008
Top Soap Box Screw (Regular Chassis Only)	9545-008-012
Top Soap Box Spring Nut (Regular Chassis Only)	8640-399-007
5/16 Hex Screw, Common	9545-008-026
Top Lock Key #6324	9306-025-001
Cylinder Plug (1.5" Plastic)	9456-041-007



## Section 8:

Parts Data

C-Series Vended

Large Chassis

**WC1800XA-12EC4X**

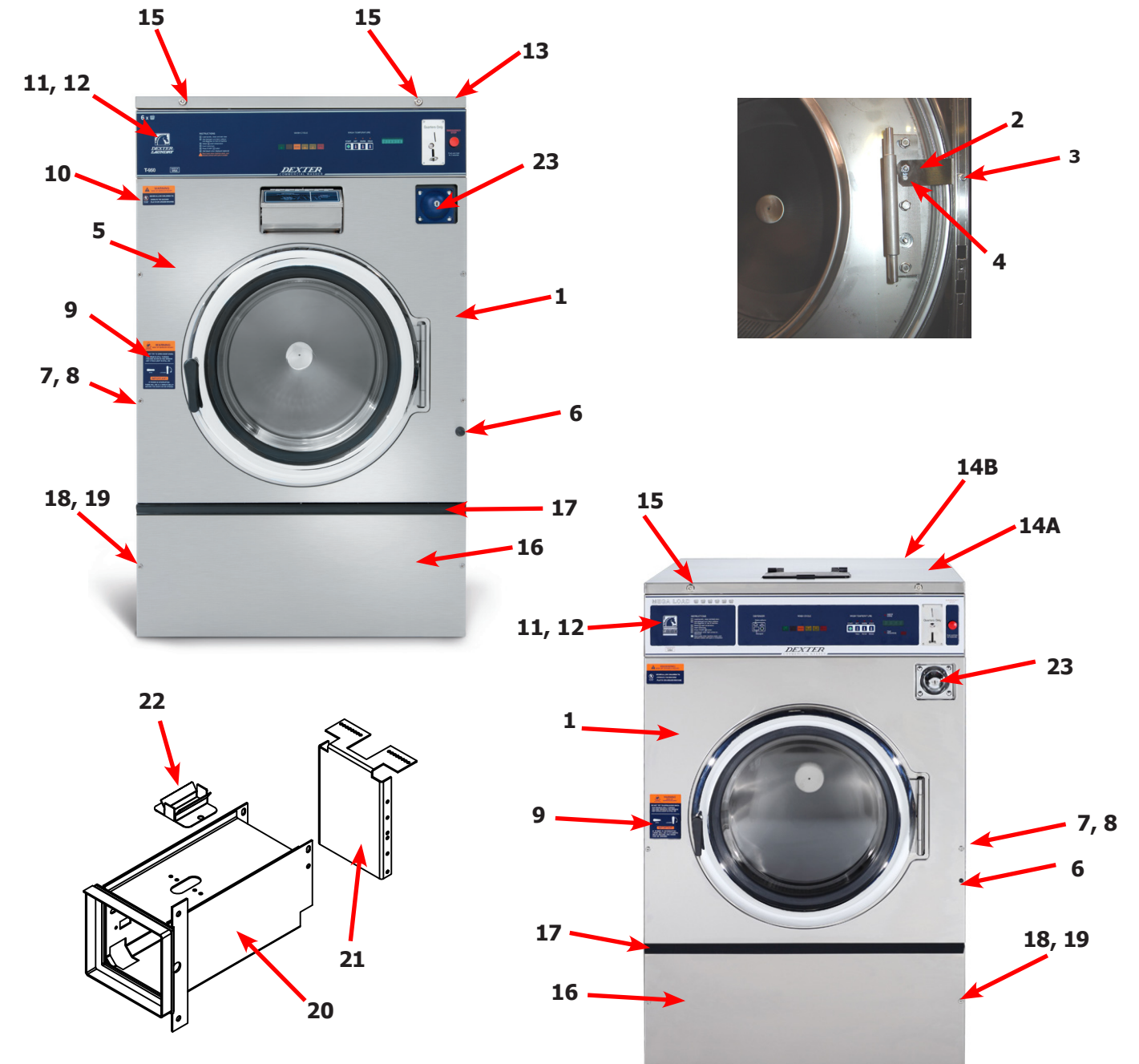
**After Serial # W1.21**

## Wiring Harness Part # by Model

Key	Description	T-1800	QTY
<b>Control Panel Wiring Harnesses</b>			
*	Wiring Harness, Door Lock	9627-791-007	1
*	Wiring Harness,CoinDrop Mech	9627-792-001	1
*	Wiring Harness, Drain/Thermo/DoorSol	9627-796-002	1
*	Wiring Harness, Relay Board to Control Board (P20/P21)	9627-793-001	1
*	Cable Assembly, USB	9806-022-001	1
*	Wiring Harness LED PCB Board to Control Board	9627-797-001	1
<b>Control Trough Wiring Harnesses</b>			
*	Wiring Harness, Water Valve to Relay Board (P19)	9627-795-005	1
*	Wiring Harness, Control Board to Relay Board (P8/P16)	9627-794-001	1
*	Wiring Harness Control Board (P5) to Pressure Switch	9627-908-013	1
*	Wiring Assembly, Terminal Block to Control Transformer (Blk/Red, 8.5")	8220-001-030	1
*	Wiring Assembly, Fuse (Red 7" #36)	9631-381-018	3
*	Wiring Assembly, Terminal Block to Control Transformer (Blk/Blu)	8220-001-231	1
*	Harness, Power Terminal Block	9627-747-005	1
<b>Rear Channel Wiring Harnesses</b>			
*	Wire, Yellow Jumper (Water Valve)	8220-119-002	1
*	Wiring Assembly, Relay Board to VFD (Yel. 50")	8220-064-060	2
*	Data Communication Cable	9806-025-003	1

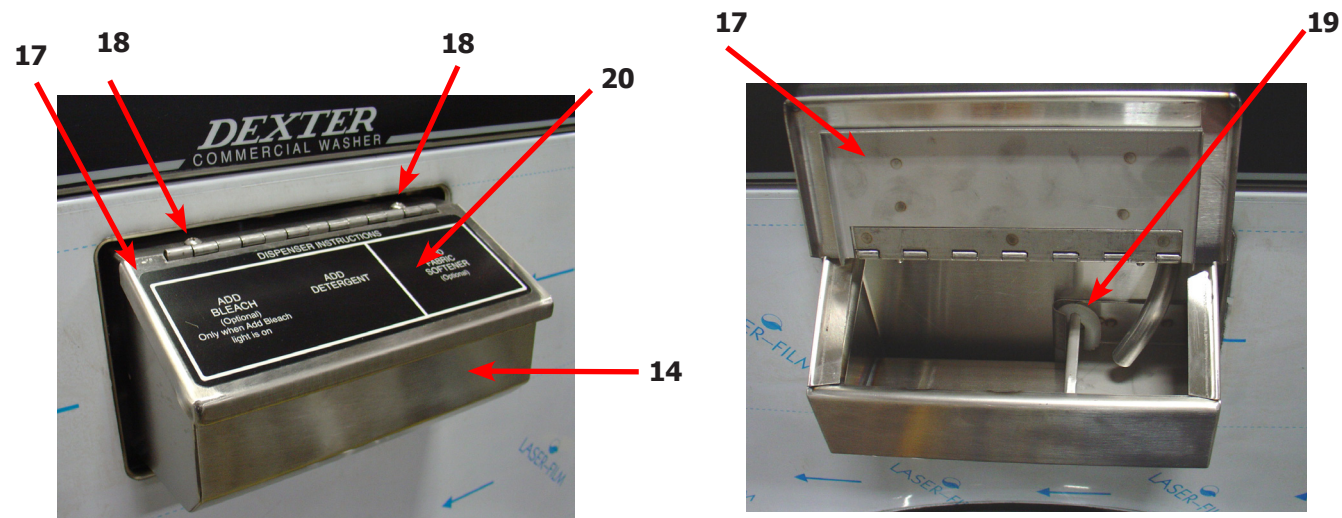
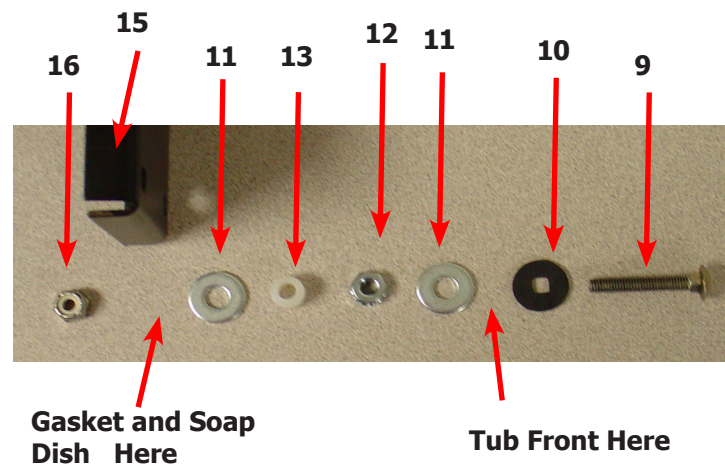
## Cabinet and Front Panel Group Part # by Model

Key	Description	T-1800	QTY
1	Panel, Side (Left or Right) - stainless	9444-028-001	4
*	Strap Assembly (side panel)	9966-012-001	2
*	Shim (side panel)	9552-050-001	2
*	Nut, Hex 1/4-20 UNC (for strap assembly)	8641-414-006	8
2	Bracket, Side Panel under front panel	9046-086-001	1
•	Nut, Hex	8640-414-006	2
*	Screw	9545-008-026	2
5	Panel Assy, Front	9444-054-001	1
*	Band, Edge Protector	9578-092-005	1
6	Bumper Loading Door	9051-055-001	1
*	Nut, 1/4 x 20 for bumper	8640-414-003	1
*	Screw, Hex- To Control Panel	9545-008-026	2
*	Nut, Spring- To Control Panel 10/32	8640-442-001	2
7	Screw, Flat Head- Front to Sides	9545-008-014	4
8	Washer, Finish	8641-585-001	4
*	Nut, Spring-To Front Panel	8640-442-001	2
9	Label-Door Opening (Blue)	8502-757-002	1
9	Label-Door Opening (Black)	8502-757-001	1
10	Label-Risk of Injury (Blue)	8502-759-002	1
10	Label-Risk of Injury (Black)	8502-759-001	1
11	Panel, Control (Mounts Nameplate)	9989-561-001	1
*	Screw, Control Panel to Sides	9545-008-026	4
12	Nameplate Decal, Control Blue	9412-261-002	1
12	Nameplate Decal, Control Black	9412-261-001	1
14A	Panel Top Front	9444-029-001	1
14B	Panel Top Rear	9444-030-001	1
15	Lock, Top (w/Key)	8650-012-003	2
*	Key, Top- # 6324	6292-006-007	1
*	Cam, Lock-Top	9095-049-001	1
*	Nut, 9/32 - 28 Hex	8640-426-001	1
*	Washer Flat 5/16	8641-581-008	1
16	Door, Lower Service, Includes Handle	9960-286-005	1



Key	Description	T-1800	QTY
17	Handle (bumper guard)	9244-086-004	1
*	Rivet Blind 3/16" Alum	9491-009-003	4
*	Screw	9545-008-023	4
18	Screw Mtg., Flat Head 10Bx1 3/4	9545-008-014	2
19	Washer, Finish	8641-585-001	2
*	Nut, Spring	8640-442-001	2
20	Coin Vault, Black	9942-040-002	1
21	Back-Coin Vault	9050-066-001	1
*	Screw, 10B x 1/2	9545-008-026	8
22	Chute, Coin	9119-032-001	1
*	Screw, Coin Schute	9545-008-001	2
23	Coin Box assy, Large Blue	9807-099-002	1
23	Coin Box assy, Large Black	9807-099-004	1

## Cabinet and Front Panel Group Part # by Model Front Soap Dish



Key	Description	T-1800	QTY
*	Washer Flat 5/16	8641-581-008	1
7	Screw, Locator	9545-008-023	1
8	Plastic Sleeve, Locator	9355-001-001	1
*	Catch, Top Panel	9086-017-001	2
*	Lock, Top (w/Key)	8650-012-003	2

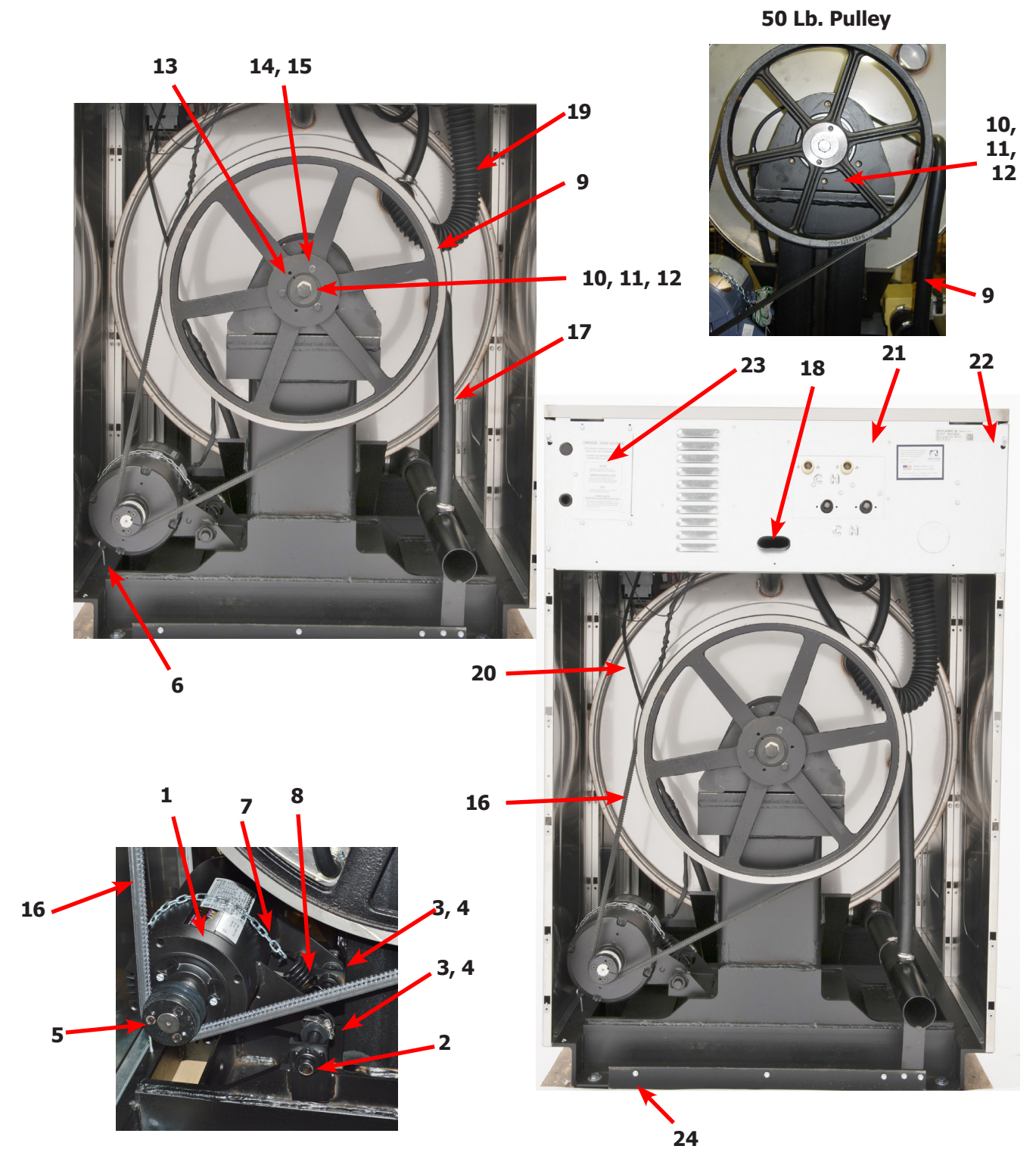
## Front Mount Detergent Dispenser

Key	Description	T-1800	QTY
9	Bolt, #10-32 x 1 1/4"SS	9545-012-026	6
10	Special Washer, Rubber	8641-222-000	6
*	Tub Front	9974-020-001	1
11	Washer-Flat, 1/4	8641-581-018	12
12	Nut, #10-32UNF	8640-413-004	6
13	Spacer Plastic #10x1/2	9538-157-026	6
14	Soap Dispenser (no lid)	9807-087-001	1
*	Det. Dispenser Mtg Gasket to Tub frnt	9206-425-001	1
15	Bracket Soap box mounting	9029-122-002	1
16	Nut Hex Elasticstop #10-32 SS mtg dispenser	8640-413-006	6
17	Lid Assembly dispenser	9987-104-001	1
18	Lid screws #10-32x1/2 SS	9545-012-017	2
19	Softner siphon tube (plastic)	9574-252-002	1
*	Flow restrictors	9475-002-003	AR
20	Washer Dispenser Label Blue	8502-756-002	1
20	Washer Dispenser Label Black	8502-756-001	1



## Rear View Access Part # by Model

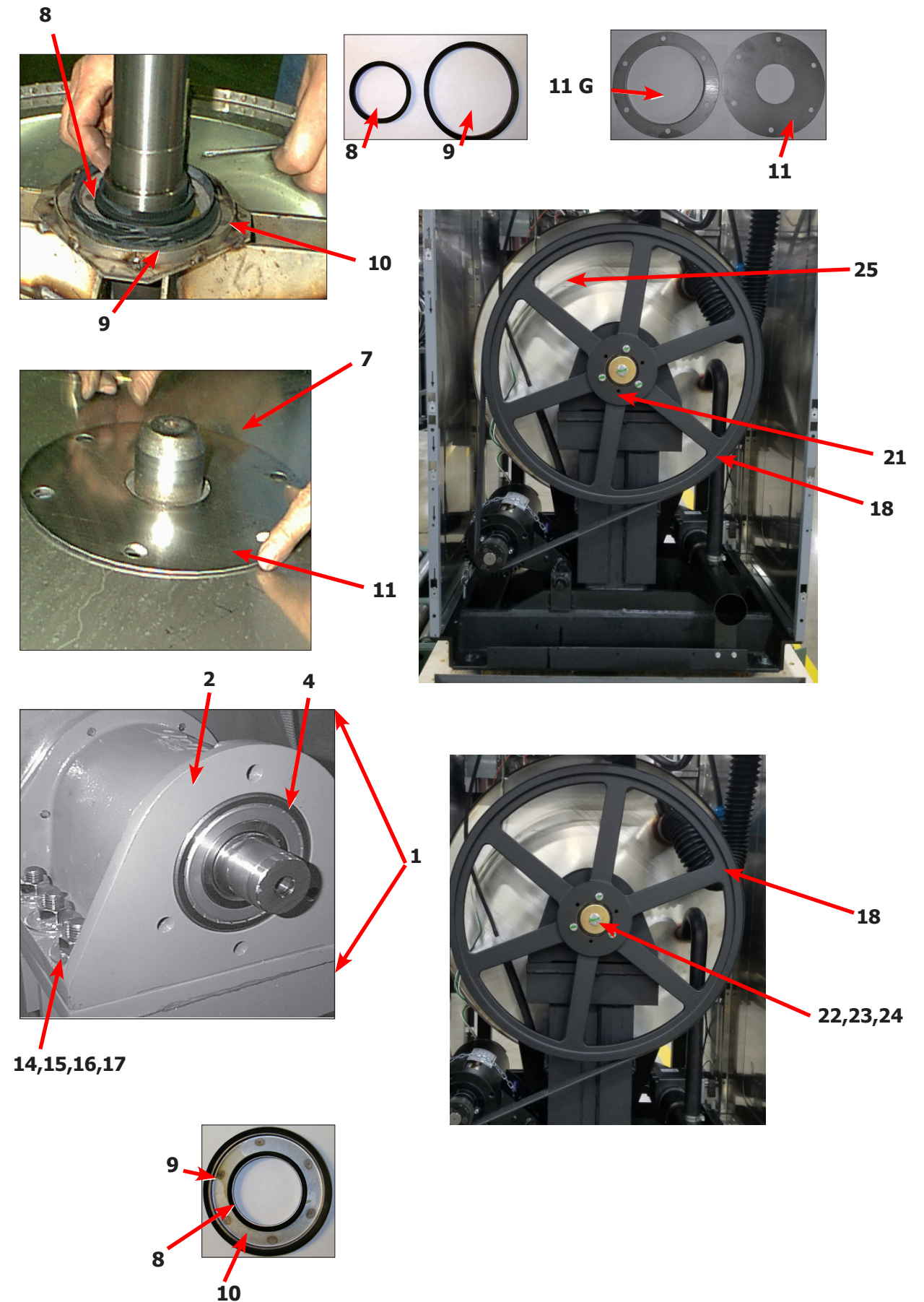
Key	Description	T-1800	QTY
1	Drive Motor, 3 Phase	9376-328-001	1
2	Rod, Motor Mtg	9497-222-004	1
3	Motor-Bushing, Support	9053-074-002	2
4	Clamp for motor bushing	8654-117-019	2
5	Pulley, Motor	9453-175-002	1
5	Split TaperBushing (motor pulley)	9053-077-001	2
*	Screw taper bushing 1/4-20x1	9545-018-024	3
6	Bolt, Eye (1/4"-20x1/2")	9545-055-001	1
*	Nut, 1/4 Elastic Stop	8640-414-003	1
*	Link (open end)	9341-046-001	1
7	Chain (Spring Tension)	9099-012-004	1
8	Spring, Belt Tension	9534-369-001	1
9	Pulley, Driven	9453-176-006	1
10	Washer-Flat .675x2-1/2x1/4	8641-581-044	1
11	Lockwasher-Exttooth, 5/8	8641-582-020	1
12	Bolt, 3/4-11x1 1/2	9545-057-004	1
13	Bushing Taperlock (Pulley)	9053-078-002	1
14	Bolt, 3/8"-16 x 2"	9545-029-011	3
15	Washer, 3/8"	8641-582-003	3
16	Drive Belt	9040-079-006	1
17	Hose, Overflow to drain	9242-449-005	1
*	Clamp, Hose overflow to drain	8654-117-018	2
18	Hose, Overflow Vent Top	9242-463-006	1
*	Clamp, Hose Vent	8654-117-008	1
*	Vaccum Breaker ALL	9610-001-001	1
*	Clamp, Hose to Vacuum Breaker	8654-117-014	2
19	Hose, Vacuum Breaker to tub	9242-458-003	1
*	Vaccum Breaker Bracket	9029-266-001	1
20	Hose, Pressure Switch	9242-175-003	1
*	Clamp, Pressure Switch Hose	8654-117-015	1
21	Channel, Rear,	9947-055-001	1
22	Screw #10Bx1/2	9545-008-026	4
*	Nut, Spring	8640-442-001	4
23	Cover, Terminal Block	9074-267-001	1
*	Screw #10Bx1/2	9545-008-026	1



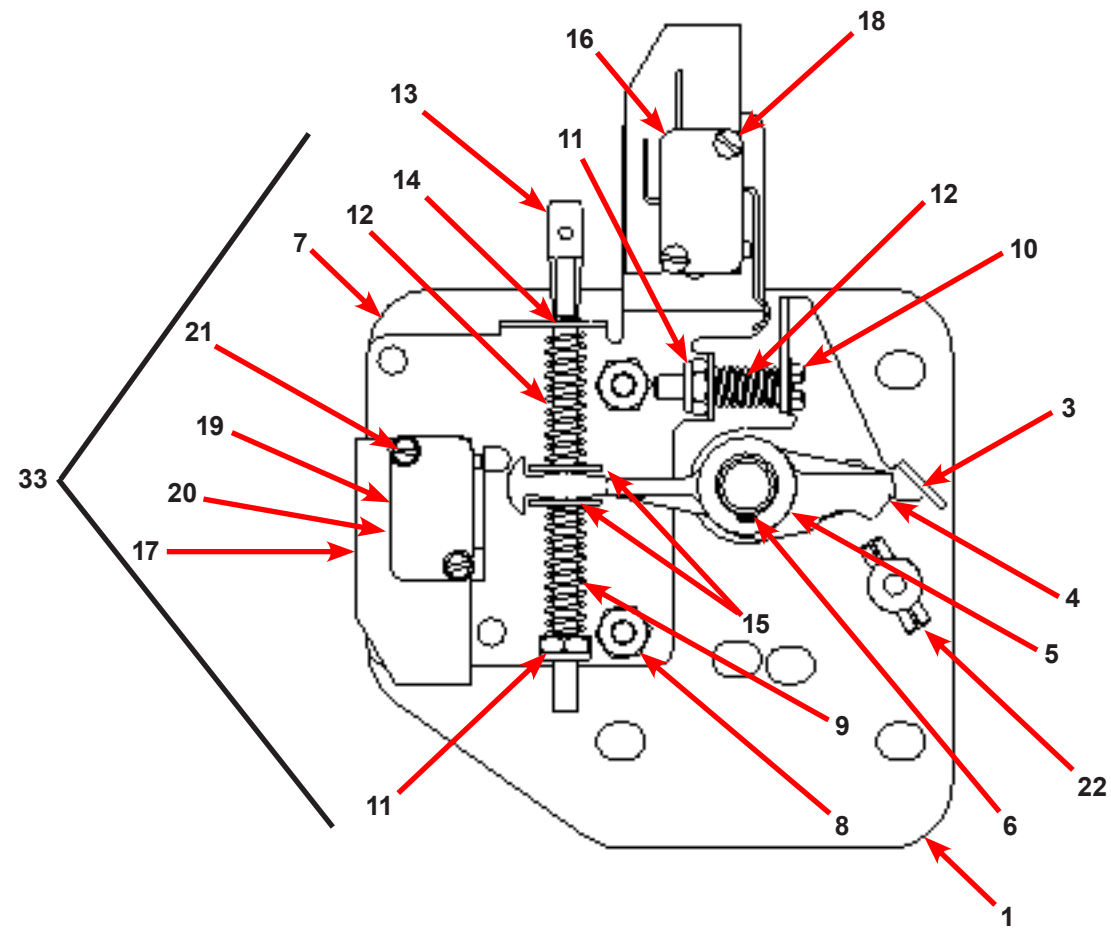
Key	Description	T-1800	QTY
*	Panel Assy., Back, Upper	9454-873-001	1
*	Panel Assy., Back, Lower	9989-872-001	1
*	Screw Panel Mtg.#10Bx1/2"	9545-008-026	13
*	Nut, Spring	8640-442-001	AR
28	Screw, To Base-1/4" x 3/4"	9545-030-002	3

# Cylinder, Seals & Bearings Part # by Model

Key	Description	T-1800	QTY
*	Bearings and Seal Kit	9732-219-009	1
*	Housing, Bearing- Assembly (items #2-#6)	9803-209-001	1
2	Housing, Bearing	9241-195-003	1
3	Bearing, Front (Small)	9036-162-002	1
4	Bearing, Rear (Large)	9036-162-001	1
5	Spacer, Bearing	9538-185-001	1
6	Ring, Bearing Retainer	9487-238-004	1
8	Seal, Small V95A	9532-140-012	1
9	Seal, Large V140A	9532-140-008	1
10	Ring, Seal Mounting	9950-062-001	1
11	Tub Back Mating Ring	9487-261-005	1
11G	Mating Ring Guard Shield	9487-276-001	1
12	Bolt, Tub End of Bearing Housing (7/16-14x1), Bolt from inside Tub	9545-059-004	6
13	Washer, Flat	8641-581-034	6
14	Screw-Hex Cap, 7/8"-9 x 3 1/2" (Bearing Housing to Frame)	9545-066-001	6
15	Washers Spherical 7/8" (Male half) (Bearing Housing to Frame)	8641-588-003	6
16	Washers Spherical 7/8" (Female half) (Bearing Housing to Frame)	8641-588-004	6
17	Nut 7/8"-9 (Bearing Housing to Frame)	8640-437-001	6
18	Pulley, Driven	9453-176-006	1
19	Bolt, 3/8"-16 x 2"	9545-029-011	3
20	Washer, 3/8"	8641-582-003	3
21	Bushing Taperlock (Driven & Large)	9053-078-002	1
22	Washer-Flat .675x2-1/2x1/4	8641-581-044	1
23	Lockwasher-Exttooth, 3/4	8641-582-020	1
24	Bolt, 3/4-10x1 1/2	9545-057-004	1
25	Tub & Cylinder Assy	9869-046-001	1
*	Cylinder Assy	9848-170-001	1
*	Tub Front	9974-012-001	1
*	Gasket, Tub Front	9206-421-003	1
*	Ring Assy, Tub Mtg-Front Clamp	9950-061-001	1
*	Bolt, Top Front Ring 3/8"-16 x 3"	9545-029-009	1
*	Nut C Series 3/8"-16	8640-415-001	1



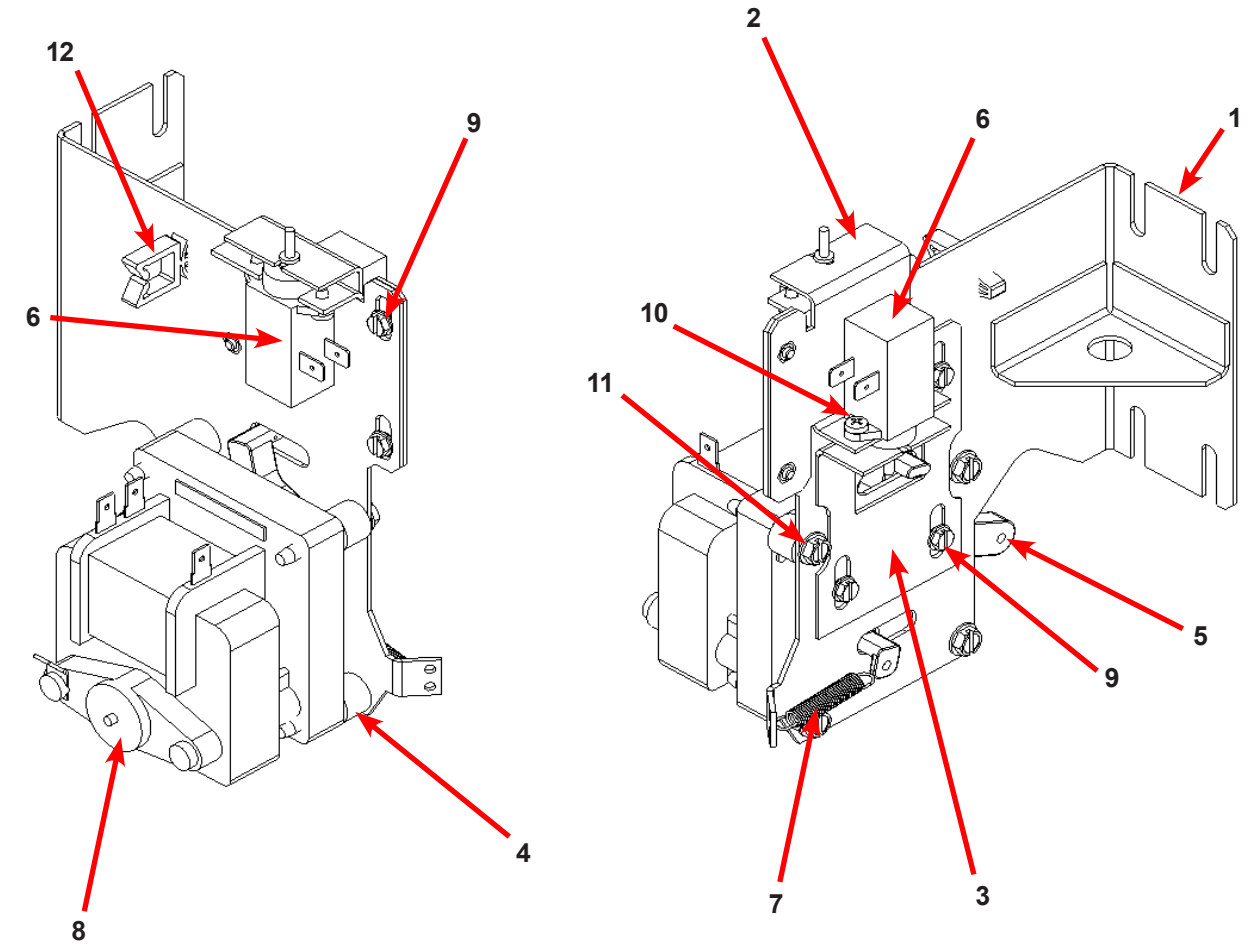
## Door Latching Assembly (All Models)



Key	Description	All Models	QTY
33	Latching Assy, Complete (includes #1 thru #22)	9885-024-001	1
1	Plate Assy, Door Lock	9982-346-001	1
2	Washer, Flat (SS or Brass)	8641-581-030	1
3	Actuator, Latching Switch	9008-005-001	1
4	Pawl, Locking	9732-346-002	1
5	Washer, Spring	8641-569-003	1
6	Ring, Retaining	9487-200-004	1
7	Bracket Switch	9029-163-001	1
8	Nut, Hex 10-32 UNF	8640-413-002	2
9	Spring, Actuating	9534-364-002	1
10	Screw, Hx. 10-32 x 1"	9545-012-020	1
11	Nut, Elastic Stop 10-32	8640-413-004	2
12	Spring, Return	9534-364-001	2
13	Pin, Guide	9451-193-001	1

Key	Description	All Models	QTY
14	Ring, Retaining	9487-200-005	1
15	Washer	8641-581-031	1
16	Switch, Latching Sensing	9539-461-008	1
17	Shield, Switch	9550-169-003	3
18	Screw 4-40 x 5/8"	9545-020-001	2
18	Nut, Twin 4-40	8640-401-001	1
19	Switch, Locking Sensing	9539-461-007	2
20	Actuator, Switch Locking	9008-006-003	1
21	Screw 4-40 x 1 1/8"	9545-020-003	2
21	Nut, Twin 4-40	8640-401-001	1
*	Spacer Sensor	9538-182-001	*
22	Pin, Dowel (for door cam)	9451-193-001	1
*	Shim, Door Lock, Thin	9552-037-001	AR
*	Screw, Lock mtg 1/4"-20 x 3/4"	9545-018-014	3
*	Lockwasher 1/4" Ext tooth	8641-582-007	3
*	Door Pin Stud, 3/16" x 3/4"	9451-181-004	1

## Gear Motor Door Lock Assembly

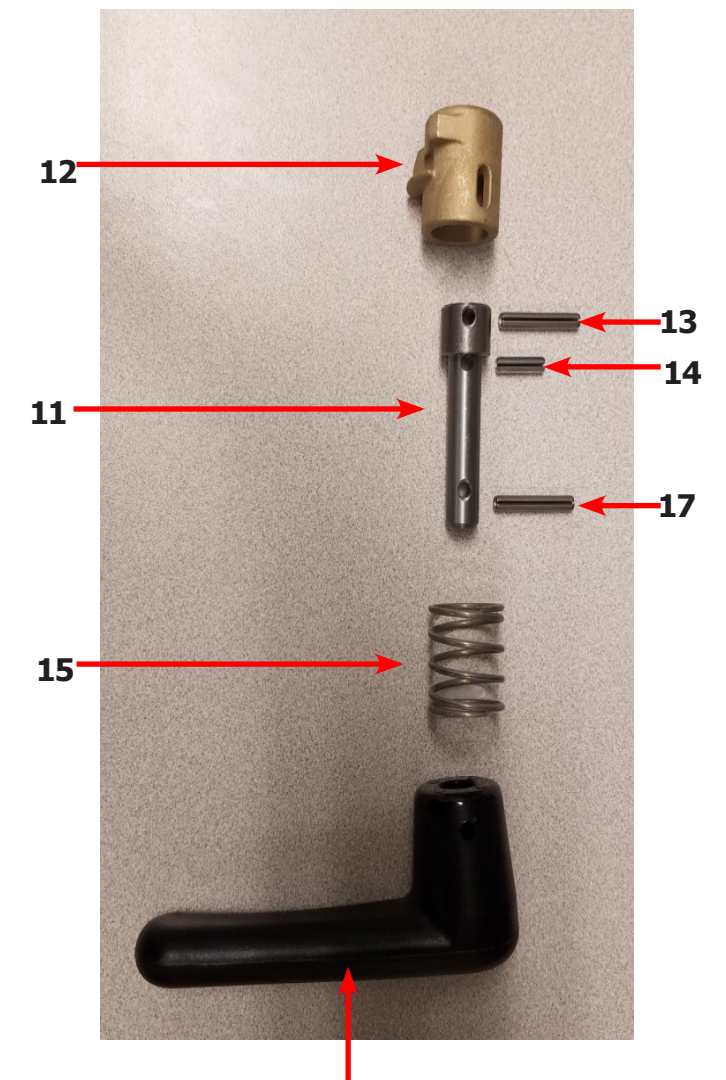
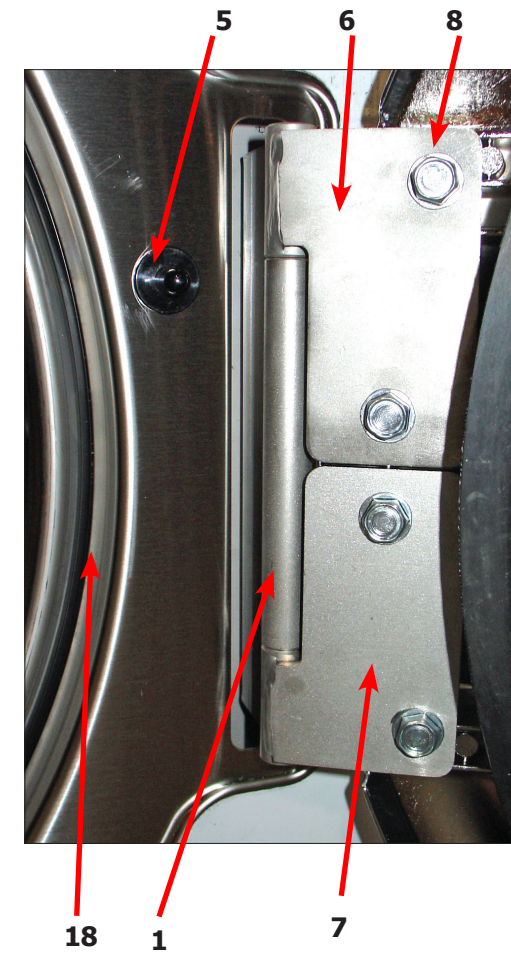
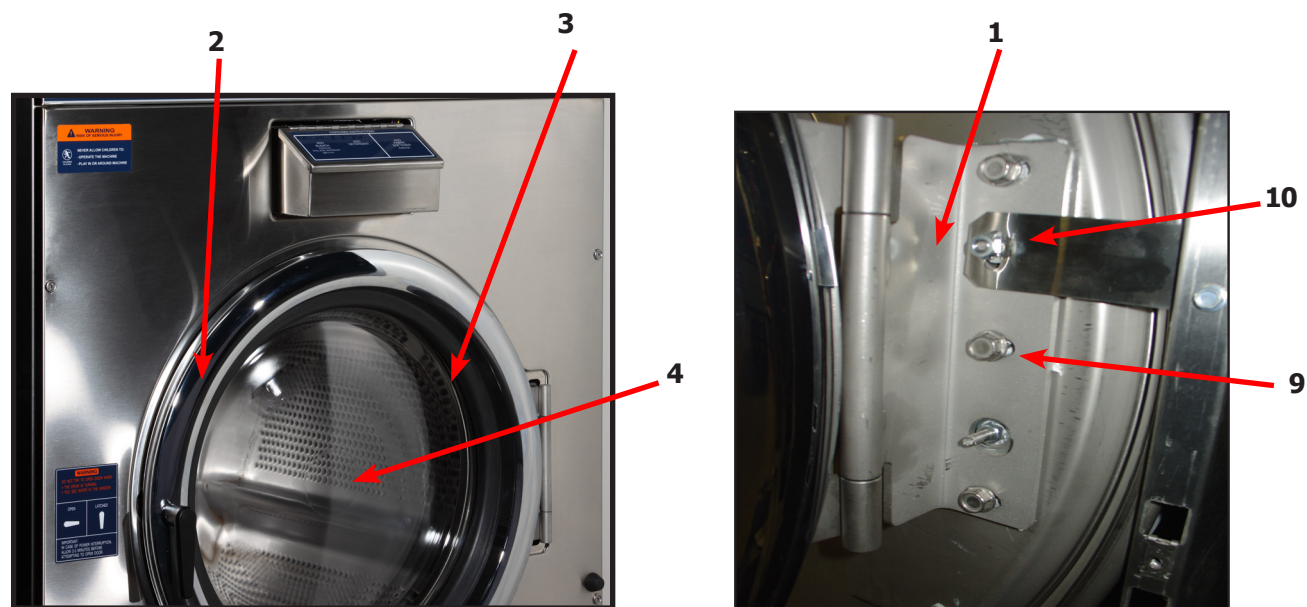


Key	Description	T-1800	QTY
*	Actuator Assembly (Includes 1-10, Rod NOT included)	9892-015-001	1
1	Bracket Assy, Slide Lock Actuator	9985-190-001	1
2	Bracket Assy, Slide - Unlock	9985-189-001	1
3	Bracket Slide Lock	9029-204-001	1
4	Spacer, Plastic	9538-157-021	4
5	Arm - Door Lock	9001-063-001	1
6	Thermoactuator - Door Lock Relay 120v	9586-001-001	2
7	Spring - Extension	9534-350-001	1
8	Motor & Gear Assembly 120v	9914-137-015	1
9	Screw -Hxwshrdslsems, 6-32 x 3/16	9545-044-003	6
10	Cross Recessed PAn Hd Tapping screw	9545-031-011	4
11	Screw hxwshdsl, 10-24 - 1.25f, ctd	9545-046-007	4
12	Standoff-Wire	9527-007-001	1
*	Rod, Door Lock	9497-225-016	1
*	Harness, Door Lock/Drain, P17	9627-791-007	1

## Large Door & Hinge Group

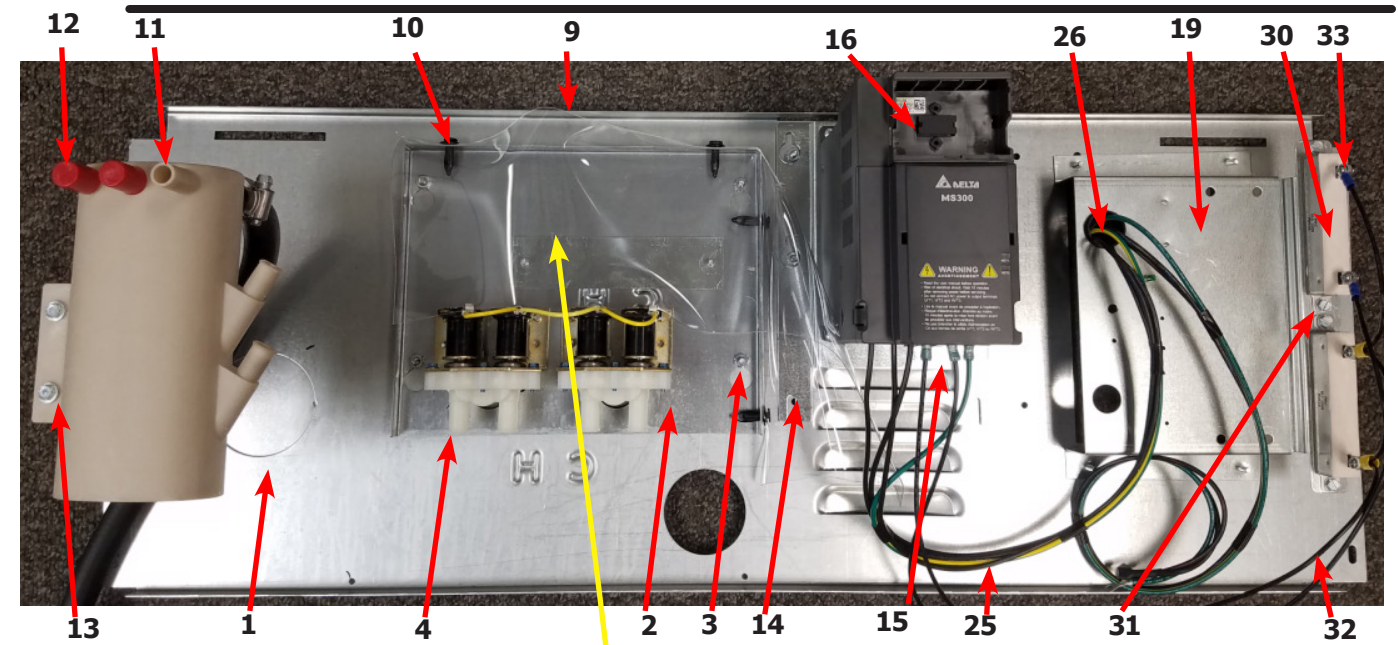
Key	Description	T-1800	QTY
1	Door Hinge Assembly (mounts to tub front)	9955-031-001	1
*	Door Assembly Complete	9960-310-001	1
2	Door Ring 180 degree large hnge	9487-275-001	1
3	Door Gasket	9206-431-001	1
4	Door Glass Window	9635-020-001	1
*	Red Wire (Door Close Switch)	8220-063-036	1
*	Black Wire (Door Close Switch)	8220-063-037	1
5	Switch, Door Hinge Close (Plunger)	9539-492-001	1
6	Top Door Hinge Leaf	9845-006-001	1
7	Bottom Door Hinge Leaf	9845-007-001	1
8	Thrd Form Screw, Door Mtg 5/16" x 5/8"	9545-056-002	4
9	Screw, Loading Door Hinge Mtg (5/16" x9/16" ss)	9545-014-009	3
9	Washer, Star 5/16	9913-134-003	3
10	Bracket Retainer support side panel	9046-085-001	1
*	Shim Large door	9552-043-001	1

Key	Description	T-1800	QTY
*	Shaft Assembly-Loading Door (11-14)	9913-136-001	1
11	Shaft, Door Locking	9537-195-002	1
12	Cam, Locking	9095-051-001	1
13	Pin, Groove (1 1/4)	9451-181-005	1
14	Pin, Groove (3/4)	9451-181-004	1
15	Spring, Lock Cam	9534-360-002	1
16	Handle, Door	9244-091-001	1
17	Pin, Door Handle (groove)	9451-181-005	1
18	Trim, Edge	9578-092-002	1

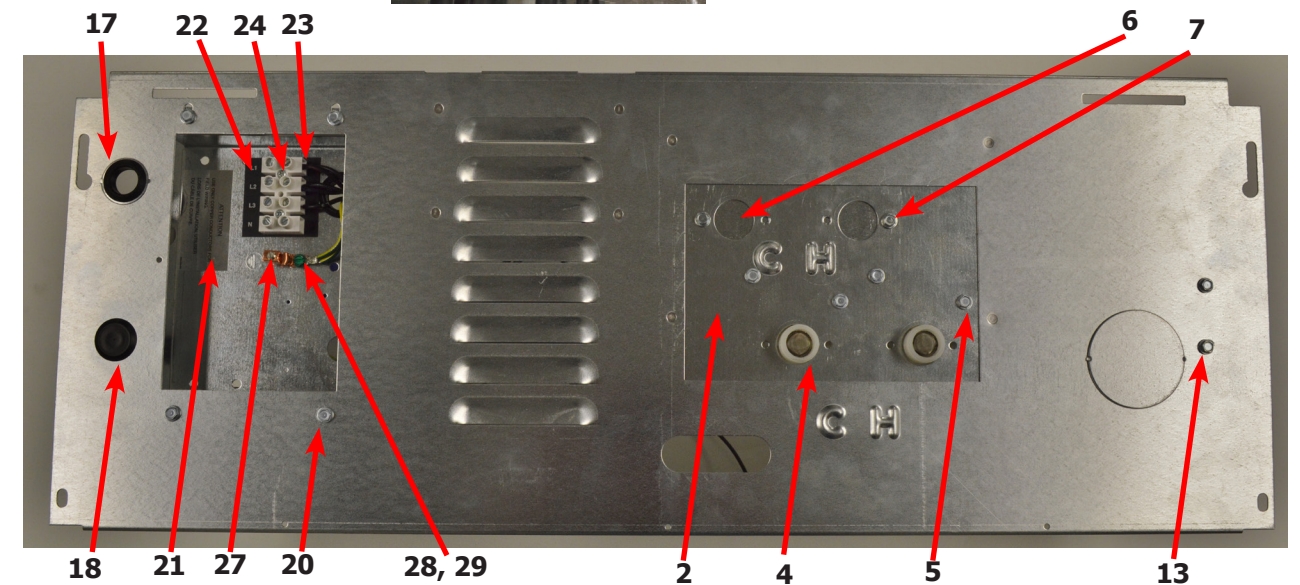
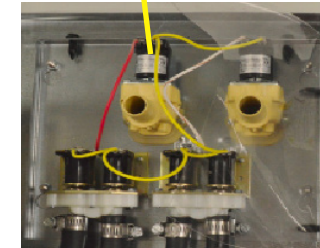


## Water Inlet & Rear Channel

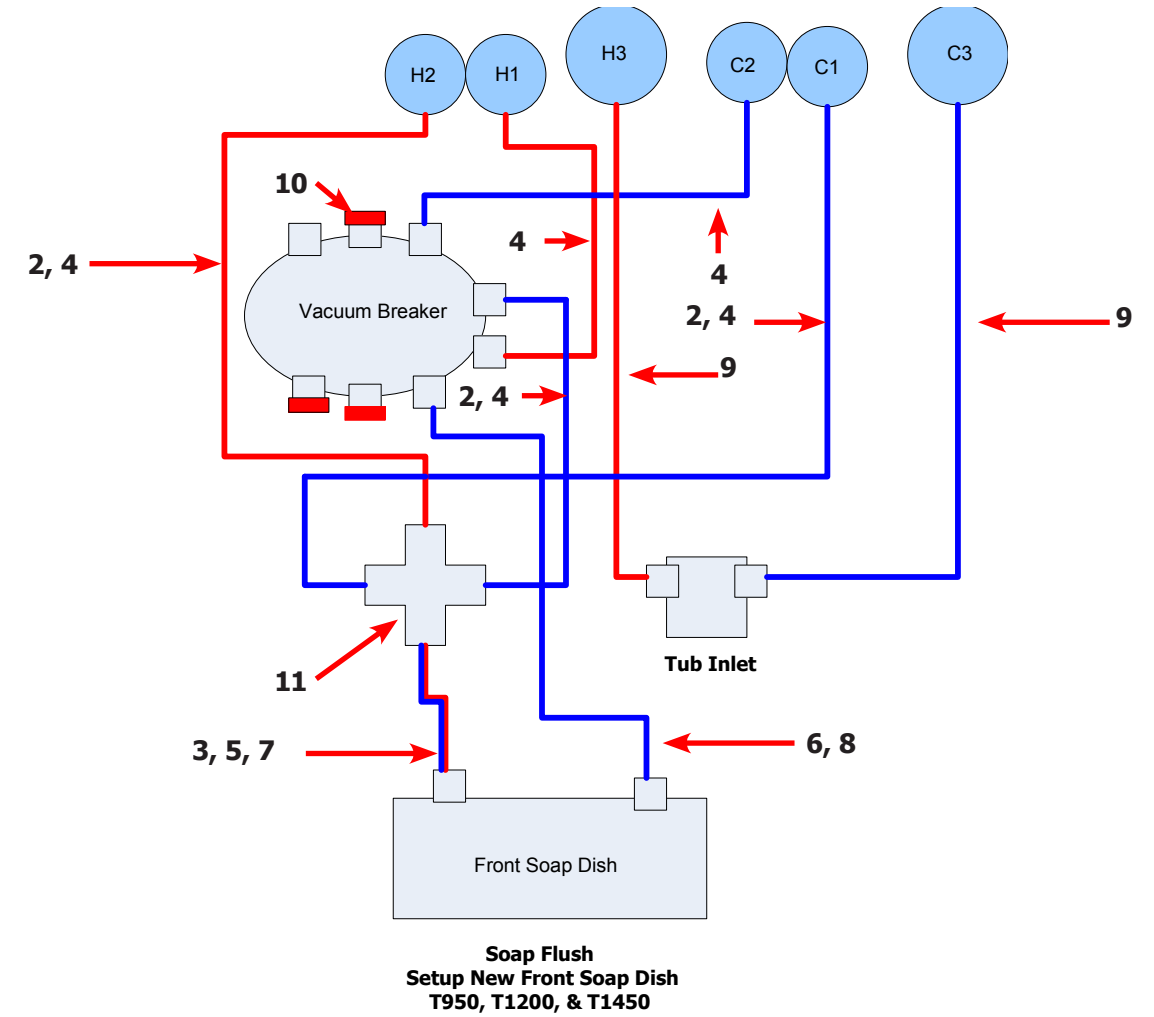
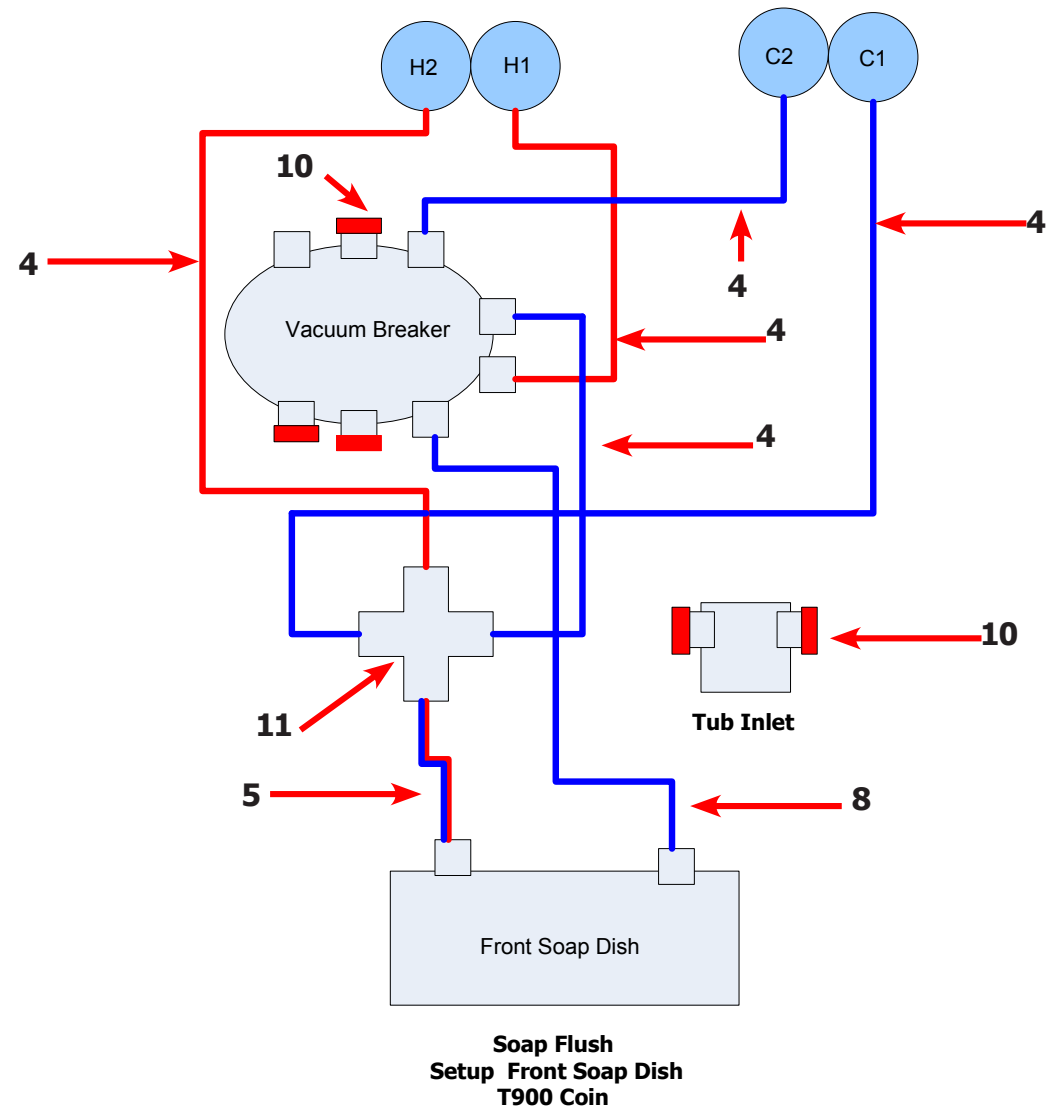
Key	Description	T-1800	QTY
1	Channel Assembly, Rear	9497-029-001	1
*	Screw, #10B x 1/2	9545-008-026	4
*	Clip, Spring	8640-442-001	4
2	Mounting Plate Water Valves	9452-814-001	1
3	Nut-Elastic stop, #10-32	8640-413-002	2
4	Valve, Water Inlet (dual outlet) (see Water Inlet Valve Breakdown for individual parts)	9379-183-012	2
5	Screw, Valve Mtg	9545-008-026	4
8	Valve, Water Inlet (Single outlet) (see Water Inlet Valve Breakdown for individual parts)	9379-194-001	2
*	Screw, M4x0 7 x 8mm	9545-064-001	4
*	Wire-Assy, Jumper, Yellow	8220-119-002	1
9	Shield over Water Valves Plastic	9550-195-001	1
10	Push Clip	9083-121-001	3
11	Vacuum Breaker	9610-001-001	1
12	Vacuum Breaker Cap (Red)	0935-135-002	3
*	Bracket, Vacuum Breaker	9029-266-001	1
13	Screw, #10B x 1/2	9545-008-026	4
*	Clamp, Hose to Vacuum Breaker	8654-117-014	1
*	Hose, Vacuum Breaker to Tub	9242-458-003	1
*	Clamp, Tub End	8654-117-009	1
*	Hose, overflow Suds	9242-463-006	4
*	Clamp, Hose-Spring (overflow to tub back)	8654-117-018	2
14	Plate Assembly, Drive Mounting	9452-858-001	1
15	Nut-#10-32UNF, 2B	8640-413-002	4
16	VFD Delta drive 208-240 volt	9375-039-002	1
*	VFD Cooling Fan	9189-016-001	1
*	Wire assy Brown, 3"	8220-057-035	1
*	Wire assy Red, 3"	8220-057-036	1
*	Key Pad-Display Delta Drive	9150-058-001	1
*	Cable-Data, Communication	9806-025-003	1
17	Bushing, 7/8	9053-067-002	1
18	Plug, 7/8	9545-041-006	1
19	Bracket, Terminal-Mounting	9029-326-001	1
20	Screw, #10B x 1/2	9545-008-026	4
21	Label-Warning	8502-639-001	1
22	Strip-Terminal Marker	9558-025-001	1
23	Terminal Block	9897-033-002	1
24	Screw-Phillips, 6ABx3/4	9545-031-010	2
25	Harness-Power, Terminal Block	9627-747-005	1
26	Bushing, 1"	9053-067-004	1
27	Terminal Lug, Solderless	8652-134-001	1
28	Lock-Washer Extooth #10	8641-582-006	1
29	Screw, #10-32 TTX 1/2 GRN	9545-008-027	1



T-1200 Single coil water valve

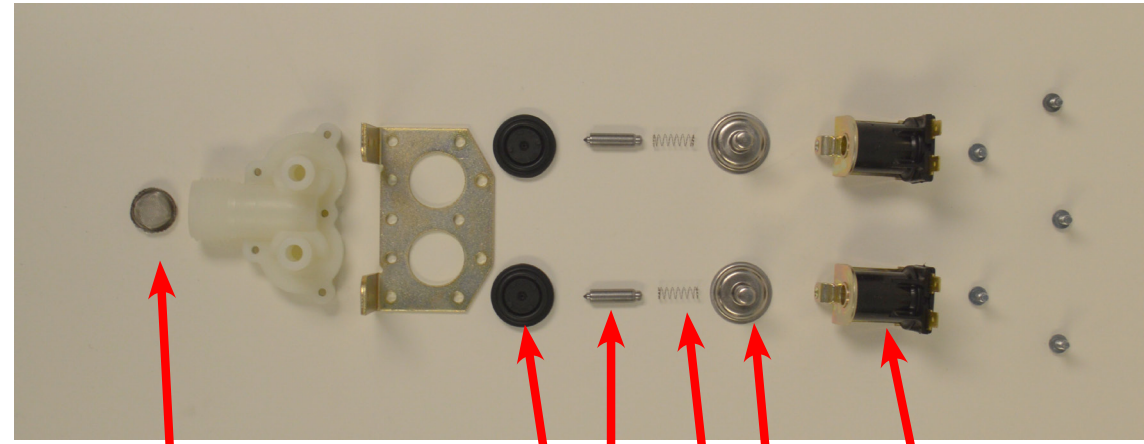


Key	Description	T-1800	QTY
30	Braking resistors (200 ohm)	9483-004-003	2
31	Screw-#10Bx1/2	9545-008-026	4
32	Wire Assy, Jumper	8220-117-003	2
33	Screw, #6-32x5/16	9545-044-006	4
	Nut, #6-32	8640-411-003	4
*	Cover Controls	9074-267-001	1
*	Screw-#10Bx1/2	9545-008-026	1
*	Label-Warning, Notice	8502-761-001	1

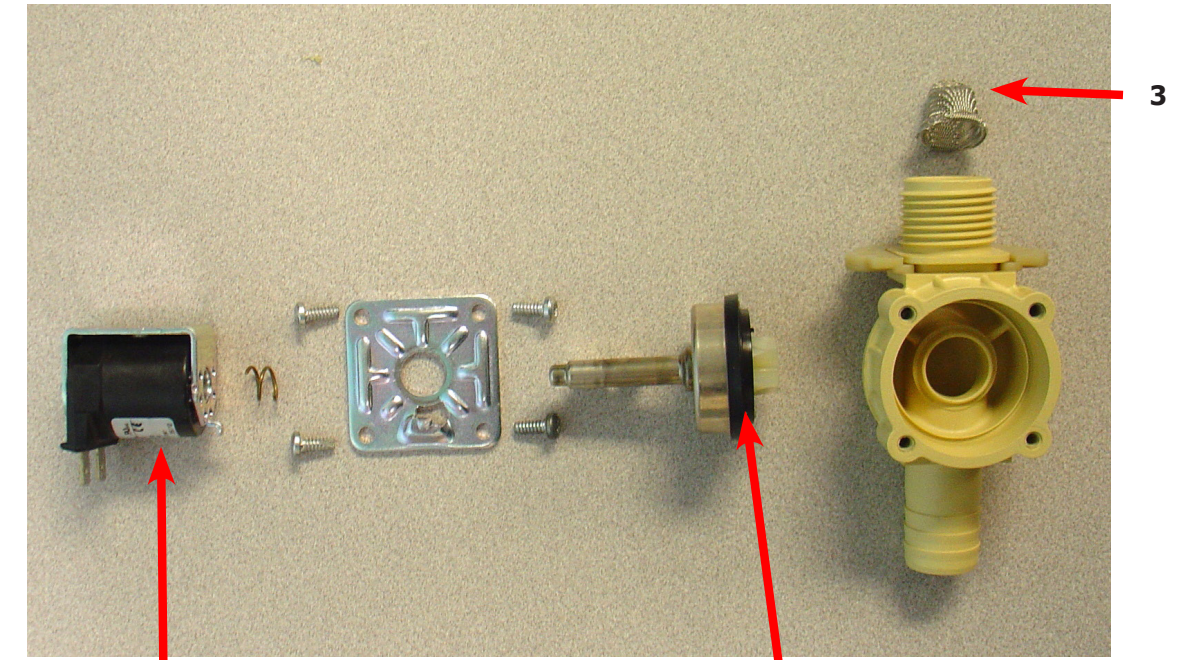


Key	Description	T-1800
2	9242-453-009 Hose-water,23" 1/2 I.D	3
4	9242-453-020 Hose-water,18" 1/2 I.D	2
5	9242-453-024 Hose-water,37" 1/2 I.D	1
6	9242-453-022 Hose-water,43" 1/2 I.D	1
9	9242-466-003 Hose-water,25" 7/8 I.D	2
10	0935-135-002 Fill Cap, (Red)	3
11	8615-118-001 Fitting-Cross, 1/2"	1
*	8654-117-015 Clamp 1" SS	14
*	8654-117-017 Clamp 1 1/4" SS	4

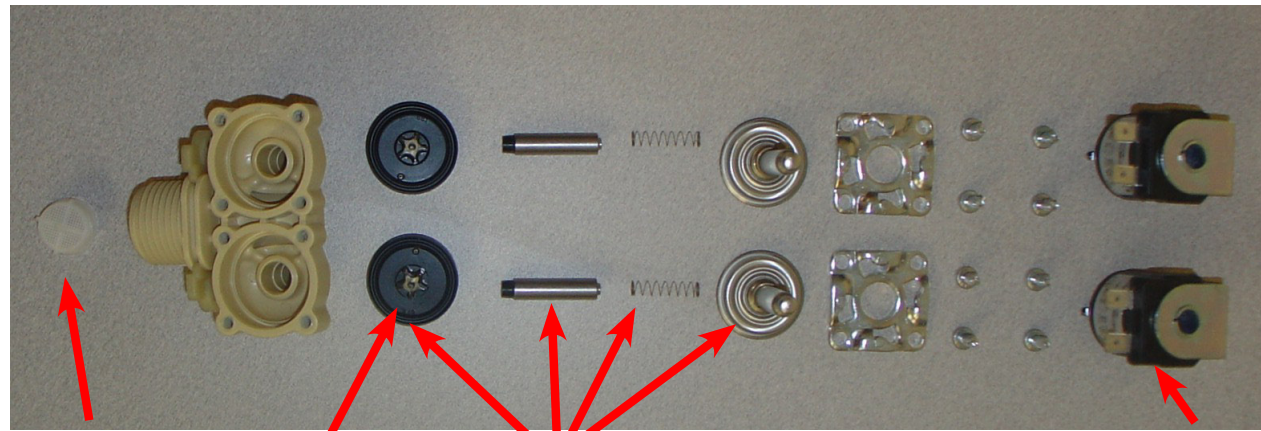
## Water Inlet Valve Breakdown Part # by Model



Key	Description	T-1800	QTY
*	Valve, Water Inlet (includes 1 thru 6) - <b>Invensys</b>	9379-183-012	2
1	Screen, Inlet end of valve	9555-056-001	2
2	Coil Assy., 120 V Invensys	9089-017-001	2
3	Diaphragm Invensys (EPDM)	9118-049-001	2
3	Diaphragm Invensys (Viton)	9118-049-002	2
3	Diaphragm Invensys (EPDM NSF)	9118-049-003	2
4	Guide, Solenoid Invensys	9211-021-002	2
5	Armature Invensys	9015-008-001	2
6	Spring, Armature Invensys	9534-298-001	2
*	Wiring Harness	9627-795-005	1



Key	Description	T-1800	QTY
*	Single Coil Water Valve Mueller	9379-194-001	1
1	Valve Water Body Complete (no coil)	9379-194-002	1
2	Diaphragm Mueller	9118-055-001	1
3	Filter Mueller	9183-046-001	1
4	Coil Mueller	9089-051-001	1



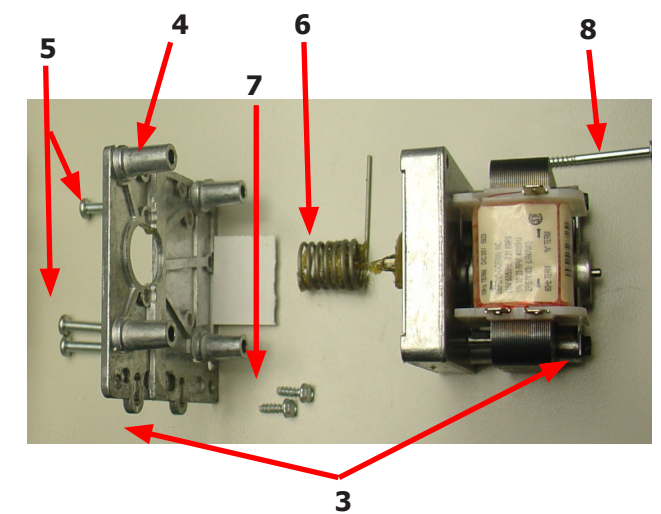
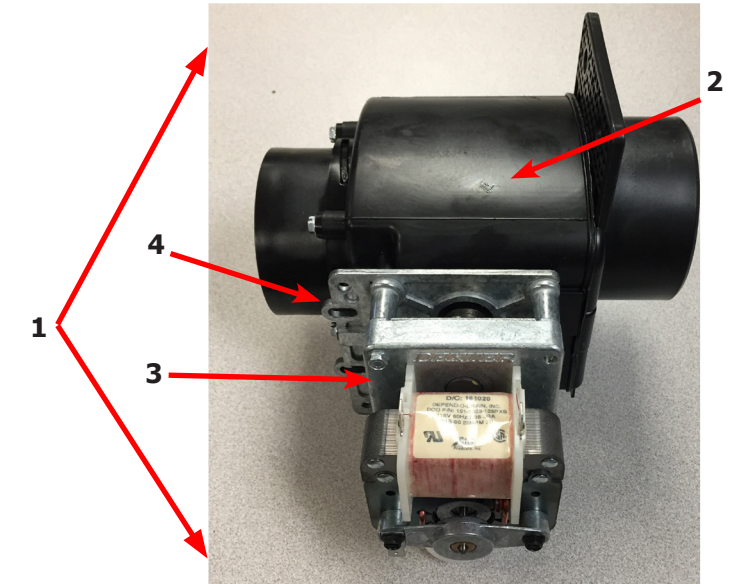
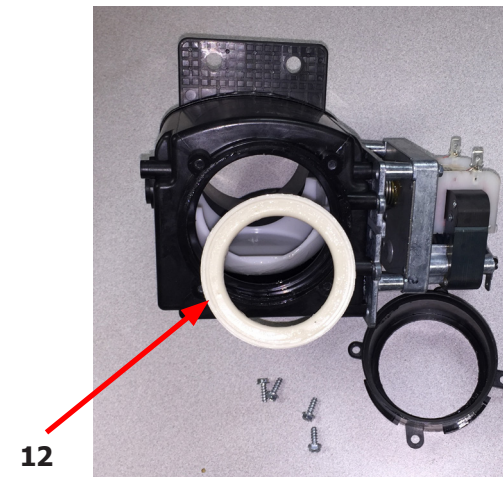
### Optional Water Valve

Key	Description	T-1800	QTY
*	Dual Coil Water Valve Mueller	9379-192-001	1
7	Valve Water Body Complete(no coil)	9379-192-002	1
8	Diaphragm Mueller	9118-054-001	2
9	Filter Mueller	9183-046-001	2
10	Coil Mueller	9089-051-001	2
11	Diaphragm Assembly Mueller Includes	9785-001-001	2

# Notes

# Drain Valve Group Part # by Model

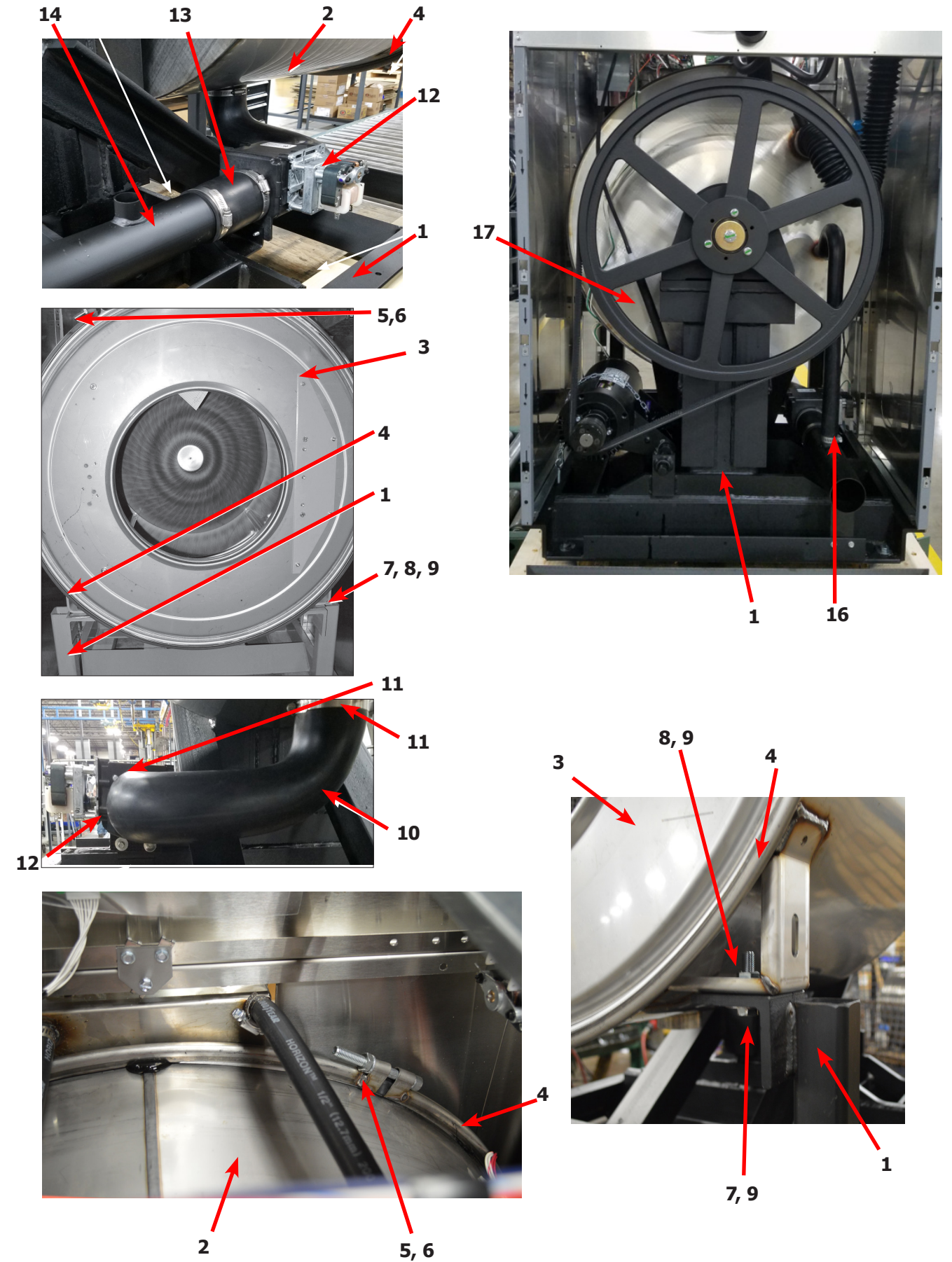
Key	Description	Part Number	Qty
1	Valve, Drain (includes #2 thru #11)	9379-202-001	1
2	Body, Valve (w/ball)	9064-072-001	1
3	Motor & Gear Train (complete)	9914-137-023	1
4	Plate, Motor Mtg	9452-538-001	1
5	Screw	8639-994-001	1
6	Spring, Drive	9534-339-001	1
7	Screw	9545-054-001	1
8	Screw	9545-054-002	1
9	Seal, V Packer	9532-134-001	1
10	Washer	8641-584-001	1
11	Pin, Main Drive	9451-196-001	1
*	Plate (spacers needed for replacement motor mtg. plate)	9538-149-001	1
12	Kit - Seal Replacement	9732-327-001	1





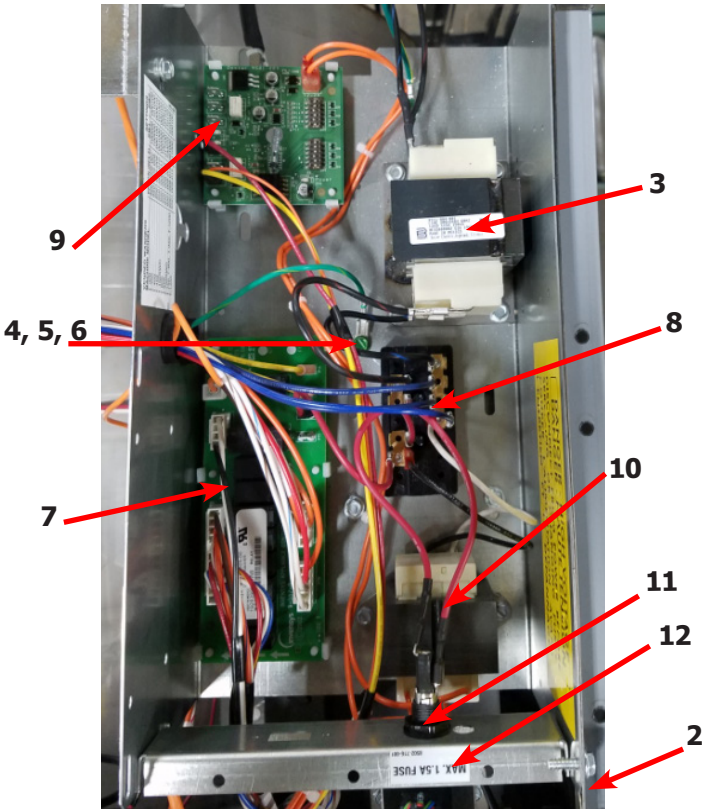
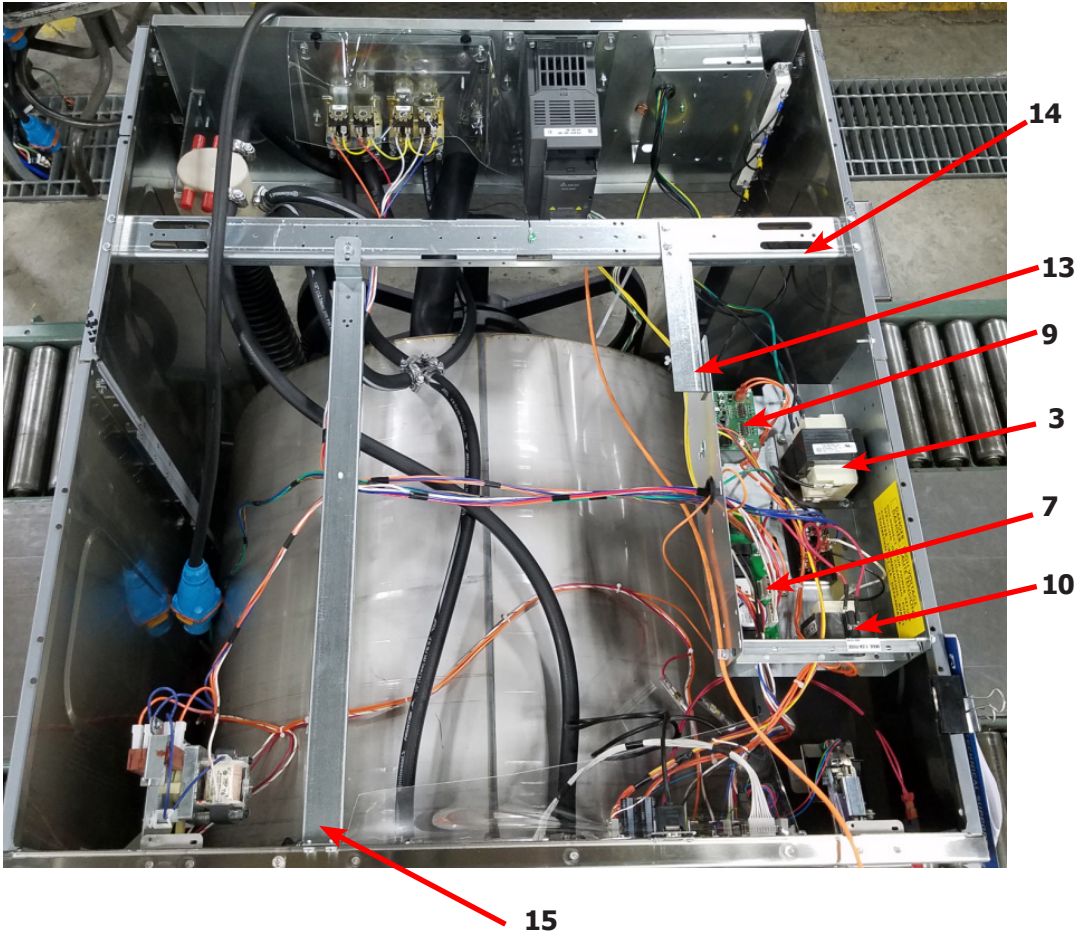
## Chassis and Drain Part # by Model

Key	Description	T-1800	QTY
1	Base Assy,Frame	9945-158-002	1
2	Outer Tub Assy	9930-187-001	1
*	Tub & Cylinder Assy	9869-046-001	1
3	Tub Front	9974-012-001	1
*	Gasket, Tub Front	9206-421-003	1
4	Ring Assy, Tub Mtg-Front Clamp	9950-061-001	1
5	Bolt, Top Front Ring 3/8"-16 x 3"	9545-029-009	1
6	Nut C Series 3/8"-16	8640-415-001	1
7	Bolt, 1/2" -13 x 2" (Tub Mounting to Frame)	9545-017-013	2
8	Nut, Wizloc 1/2" x 13	8640-417-005	2
9	Washer, Flat 1/2"	8641-581-026	2
10	Hose, Tub to Drain Valve	9242-456-001	1
11	Clamp, Hose (Tub to Drain Valve)	8654-117-014	2
12	Valve, Drain	9379-202-001	1
*	Screw, Valve to Base 1/4ABx3/4	9545-030-002	2
*	Washer, Flat 1/4	8641-581-018	4
13	Hose, Drain Valve to Tube	9242-457-002	1
*	Clamp, Hose (Drain Valve to Tube)	8654-117-014	2
14	Tube Assy, Drain	9915-129-002	1
15	Clamp, Hose (Tube to Frame Bracket)	8654-117-014	1
*	Bracket, Drain Tube	9029-067-004	1
*	Screw Tube (Bracket to Base 1/4Bx3/4)	9545-030-002	4
16	Hose, Overflow Tub To Drain Tube	9942-449-005	1
*	Clamp, Hose	8654-117-018	1
*	Tube, Suds overflow	9242-463-006	1
*	Clamp, Hose	8654-117-008	2
17	Hose, Pressure switch	9242-175-003	1
	Clamp, Overflow Hose	8654-117-015	1



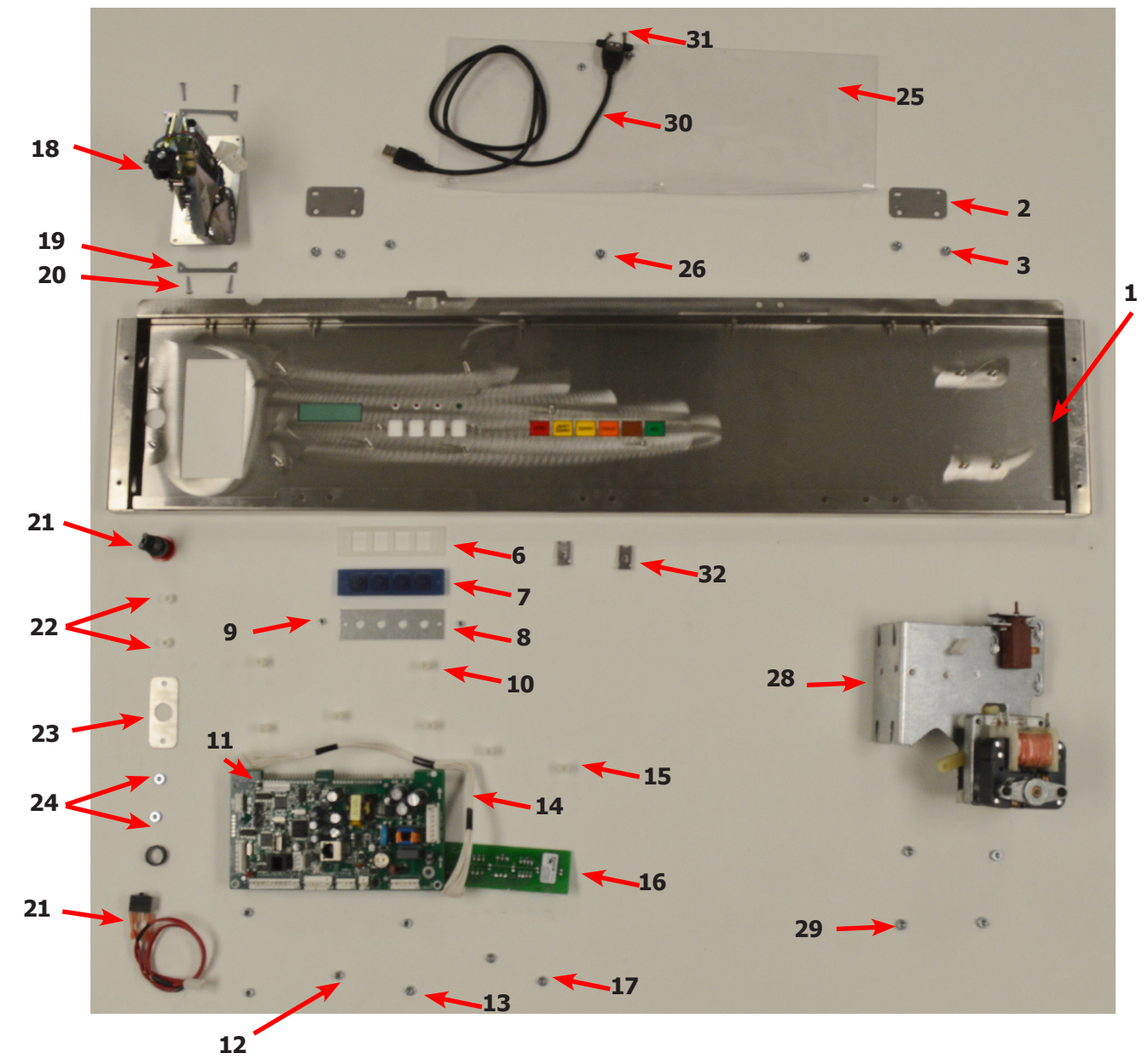
Key	Description	T-1800	QTY
1	Trough Assy,Controls 208-240 volt (all parts below #2-#43 & trough)	9857-272-001	1
*	Trough only	9839-017-001	1
*	Screw, Trough Sides	9545-008-026	4
*	Lockwasher #10	8641-582-006	4
2	Spreader-Chanel, Trough	9081-136-001	
*	Screw, Mtg #10Bx1/2"	9545-008-026	4
3	Transformer, Control (Secondary Voltage to 115 volts)	8711-004-001	1
*	Screw, Mtg #10Bx1/2"	9545-008-026	4
*	Lockwasher #10	8641-582-006	4
4	Screw GRN. #10-32x 1/2"	9545-008-027	1
5	Lockwasher #10	8641-582-006	1
6	Lug, Grounding	8652-130-037	1
7	PCB assembly Relay Main	9473-006-001	1
*	Support, Edge Holding	9548-285-001	6
*	Harness, P17 Drain/Therm/Sol	9627-796-002	1
*	Harness P19/Water Valve	9627-795-005	1
*	Harness P8/P16	9627-794-001	1
*	Harness P20/P21	9627-793-001	1
*	Bushing , Wire 7/8	9053-067-002	2
*	Standoff Twistlock	9527-002-002	3
8	Terminal Block Assy, POWER	9897-026-004	1
*	Screw, Mtg 8ABx1/2"	9545-045-012	2
*	Kit-Pressure Sensor, Electronic	9732-314-001	1
9	Kit-Repaacement, Pressure Sensor (only)	9732-315-001	1
*	Support-PCB, 3/8", Edge Holding	9548-285-001	4
*	Screw, Mtg #8Bx1/4"	9545-045-001	2
*	Harness P5/Pressure	9627-908-013	1
10	Transformer, (Step Down) 120/24VAC 50/60hz	8711-009-006	1
*	Screw, Transformer Mtg #8Bx1/4"	9545-045-001	4
*	Lockwasher #6 exttooth	8641-582-005	4
11	Fuseholder	9200-001-002	1
*	Fuse 2.5 amp	8636-018-004	1
12	Label Fuse 2.5 amp Rear	8502-716-002	1
13	Angle Support Trough	9029-318-001	1
*	Screw, Trough Bracket	9545-008-026	4
14	Chanel-Support, Trough	9081-173-001	1
*	Screw, Mtg #10Bx1/2"	9545-008-026	4
15	Chanel	9081-108-002	1
*	Screw, Mtg #10Bx1/2"	9545-008-026	2
*	Wire Assy BLK/BLU	8220-001-231	1
*	Wire Assy RED/BLU	8220-001-230	1

### Electrical Components - Top Compartment



## Control Panel Part # by Model

Key	Description	T-1800	QTY
1	Panel Control Assembly(panel only)	9989-561-001	1
*	Screw, to Side Panels 5/16, Hxwshrhnduct #10Bx 1/2"	9545-008-026	4
2	Plate-Latch, Top	9452-625-001	2
3	Nut, #8-32	8640-412-005	4
4	Locator Panel	9355-001-001	1
5	Screw FillHDCR 10Bx1/2" Guide	9545-008-023	1
6	Spacer Pushbutton (Micro)	9538-192-001	1
7	Pushbutton Control (coin)[Blue]	9035-062-001	1
7	Pushbutton Control (coin)[Black]	9035-062-002	1
8	Retainer Pushbutton (Micro)	9486-160-001	1
9	Nut Hexelasticstop #4-40	8640-424-002	2
10	Spacer Plastic #6x9/16	9538-157-018	5
11	PCB assembly Control /Display STOP	9473-010-001	1
12	Nut Elasticstop #6-32	8640-411-002	4
13	Nut-Hexkeps, #6-32	8640-411-003	1
14	Harness LEDPCB	9627-797-001	1
*	Harness Doorlock, Switches	9627-791-005	1
15	Spacer Plastic #6x9/16	9538-157-018	2
16	PCB assembly Mode lights	9473-005-001	1
17	Nut Hexkeps #6-32	8640-411-003	2
*	Mode Light Backing Window	9635-022-001	1
18	Acceptor-Coin, Optical	9021-092-002	1
19	Retainer, Coin Acceptor	9486-149-001	2
20	Screws, Torx, T-10, 4Bx3/8ss	9545-053-002	4
21	Switch Assembly Emergency Stop (includes wire harness)	9732-223-001	1
22	Spacer Plastic #8x5/16 E-Stop	9538-157-020	2
23	Plate to mount e-stop button	9452-725-001	1
24	Nuts-Hexkeps, #8-32	8640-412-005	3
25	Plastic Shield over main PCB	9550-184-001	1
26	Nuts-Hexkeps, #8-32	8640-412-005	3
27	Nameplate,Control Panel (Blue)	9412-216-002	1
27	Nameplate,Control Panel (Black)	9412-216-001	1
28	Motor Ass'y, Door Locking (see Door Lock Group for parts breakdown)	9892-015-001	1
29	Nuts-Hexkeps, #8-32	8640-412-005	4
*	Battery	8612-001-001	1
30	Cable, USB	9806-022-001	1
*	USB Retainer	9486-159-001	*
31	Screw-Torx T10, #4-40x3/8ss	9545-053-002	2
32	Nut, Spring	8640-442-001	2



## Labels and Diagrams

Key	Description	T-1800	QTY
*	Wiring Diagram and Schematic, Coin	9506-871-001	1
*	Transient Voltage Surge Suppressor Infomational	8507-330-001	1
*	Label High Voltage Warning	8502-614-004	1
*	Label Fusing & Installation	8502-619-003	1
*	Label Quality	8511-001-002	1
1	Label Warning Door Opening (Blue)	8502-757-002	1
1	Label Warning Door Opening (Black)	8502-757-001	1
2	Label Warning Risk of Injury (Blue)	8502-759-002	1
2	Label Warning Risk of Injury (Black)	8502-759-001	1
3	Label Dispenser (Blue)	8502-756-002	1
3	Label Dispenser (Black)	8502-756-001	1
*	Booklet Owners	8514-296-001	1

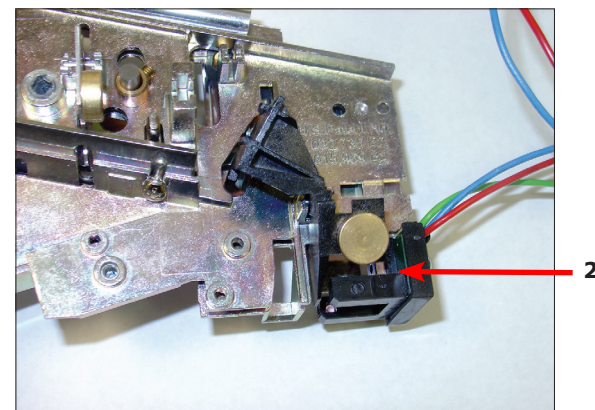
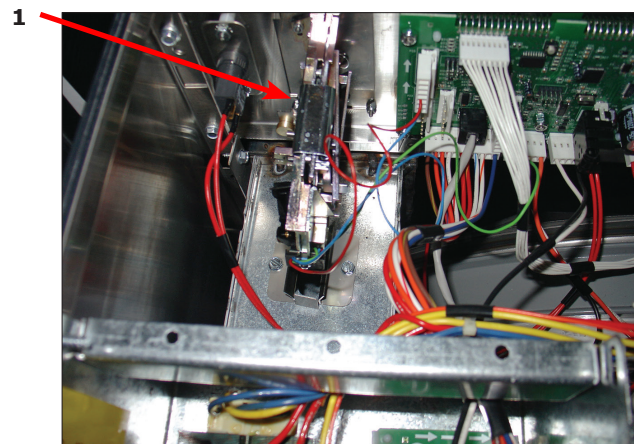
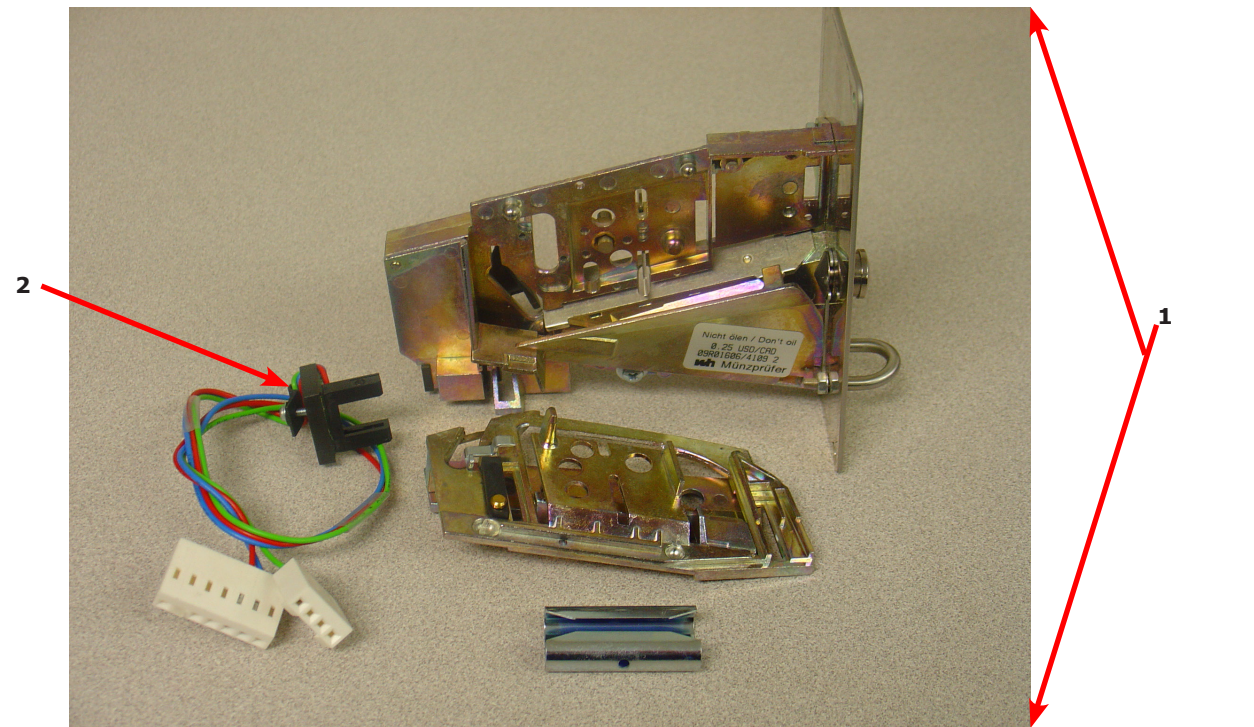


## Section 9:

### Coin Handling Parts: Wiring Diagrams & Schematics & maintenance Procedures

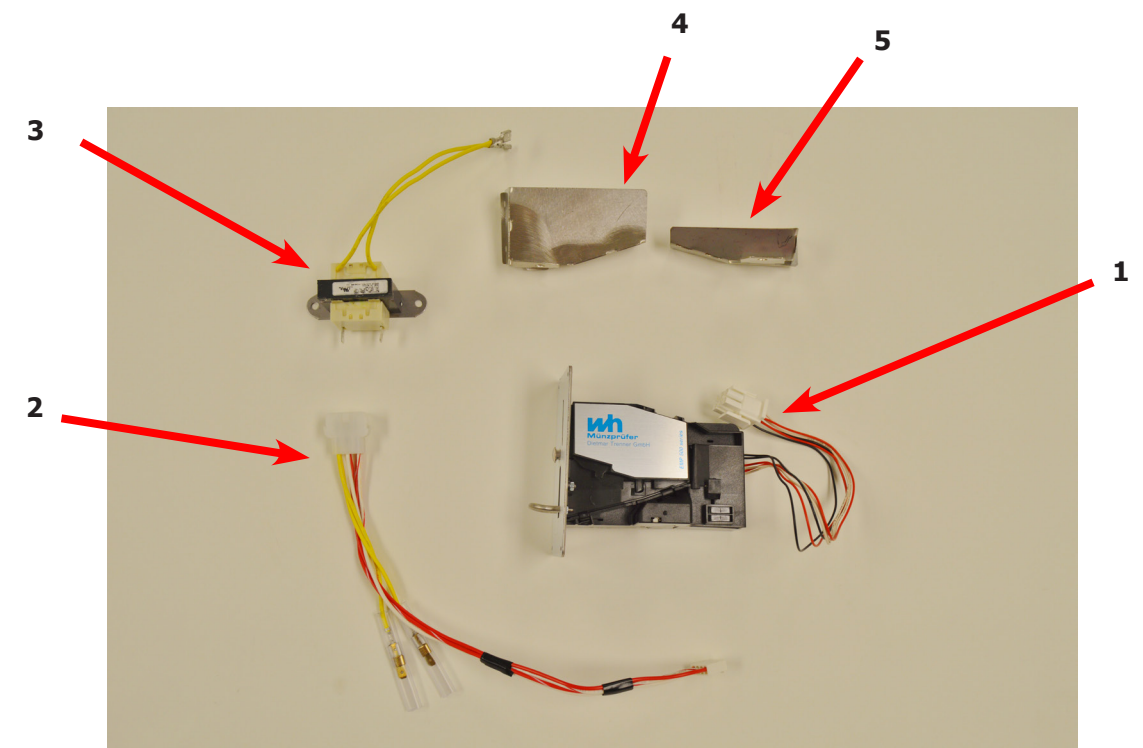
## Optical Coin Acceptor

Key	Description	T-1800	QTY
1	Optical Coin Acceptor	9021-092-002	1
2	Replacement Optical Sensor	9801-099-001	1
*	Screw, Highth Bar, 3mm	9545-039-002	2



## Kit - Electronic Acceptor Conversion for C-Series (USA and Canada)

Key	Description	T-1800	QTY
	KIT - Electronic Acceptor Conversion for C Series (USA and Canada) Contact the Dexter Factory for Other Countries	9732-301-004	1
1	Electronic Coin Acceptor (USA and Canada)	9021-077-001	1
2	Harness for Electronic Coin Acceptor	9627-909-001	1
3	Transformer 120/18VAC	8711-015-001	1
*	Wire Assembly - Blue	8220-001-338	1
*	Wire Assembly - Orange/White	8220-001-235	1
4	Coin Chute for Electronic Drop	9119-028-001	1
*	Nut - Hex Elastic Stop	8640-424-002	1
*	Screw, Torx	9545-020-004	4
*	Screw, Hex	9545-045-001	4
*	Label, Informative	6102-017-001	2
*	Label, Warning	8502-730-001	1
*	Instructions, Installation	8507-456-004	1
5	Coin Chute for Electronic Drop	9119-030-001	1



# Electronic Acceptor Coin Drop

## Setting the electronic coin acceptor switches

Some washer models come equipped with an electronic acceptor. Follow the instructions below for setting the switches for the desired country and currencies.

1. The electronic coin acceptor has switch settings depending on the coins and country. See the table below for available values of the left and right coin inputs for the available countries.

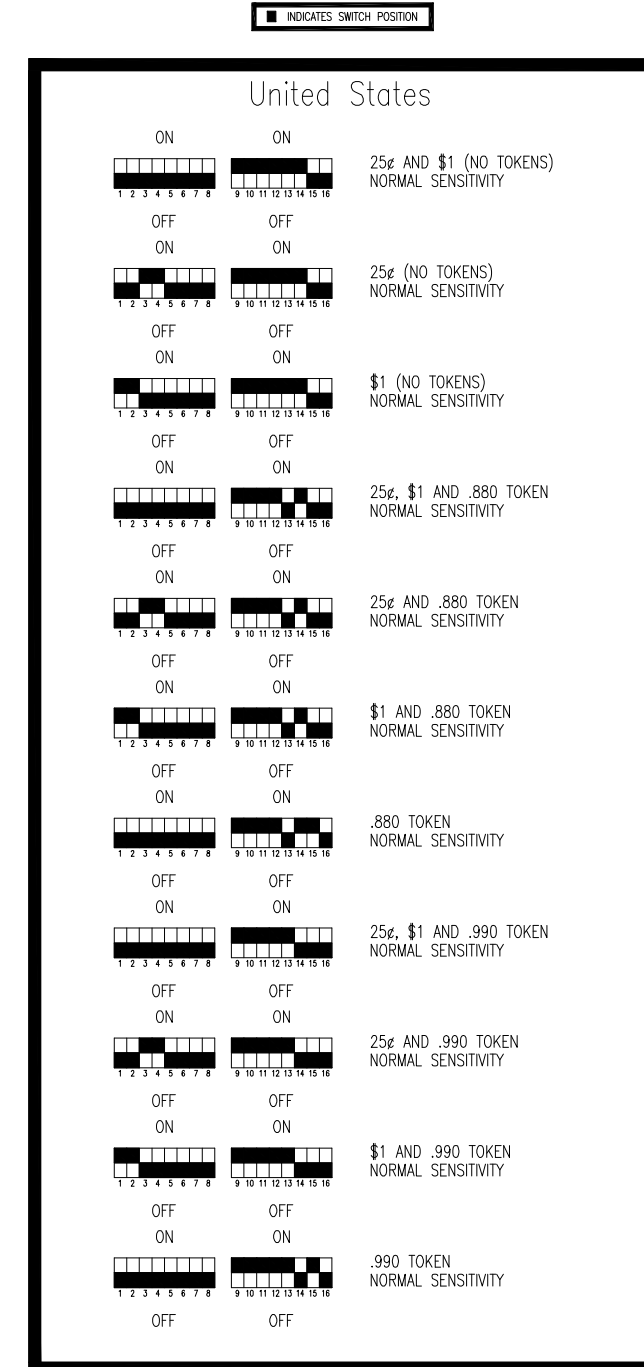
**WARNING:** turn power off before and leave power off when changing the switches of the electronic coin acceptor.

2. Turn power back on and test coins to ensure proper operation.



Dip Switches

# Coin Acceptor Switch Settings



25¢ – one pulse on left washer/dryer input  
 \$1 – one pulse on right washer/dryer input  
 .880 TOKEN – one pulse on left washer/dryer input  
 .990 TOKEN – one pulse on right washer/dryer input

# Coin Acceptor Switch Settings

■ INDICATES SWITCH POSITION

### Canada

ON ON  
25¢, \$1(OLD & NEW), \$2(OLD & NEW)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(OLD & NEW) AND \$2(OLD & NEW)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢ AND \$2(OLD & NEW)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢ AND \$1(OLD & NEW)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢ (NO TOKENS)  
NORMAL SENSITIVITY

ON ON  
\$2(OLD & NEW)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(OLD & NEW)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(NEW ONLY), \$2(NEW ONLY)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(NEW ONLY) AND \$2(NEW ONLY)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢ AND \$2(NEW ONLY)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢ AND \$1(NEW ONLY)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$2(NEW ONLY)  
(NO TOKENS) NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(NEW ONLY)  
(NO TOKENS) NORMAL SENSITIVITY

### Canada

ON ON  
25¢, \$1(OLD & NEW), \$2(OLD & NEW)  
AND .880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(OLD & NEW), \$2(OLD & NEW)  
AND .880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$2(OLD & NEW) AND  
.880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(OLD & NEW) AND  
.880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢ AND .880 TOKEN  
NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$2(OLD & NEW) AND  
.880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(OLD & NEW) AND  
.880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(NEW ONLY), \$2(NEW ONLY)  
AND .880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(NEW ONLY), \$2(NEW ONLY) AND  
.880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$2(NEW ONLY) AND  
.880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(NEW ONLY) AND  
.880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$2(NEW ONLY) AND  
.880 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(NEW ONLY) AND  
.880 TOKEN NORMAL SENSITIVITY

25¢ – one pulse on left washer/dryer input  
 \$1 – one pulse on right washer/dryer input  
 \$2 – two pulses on right washer/dryer input  
 .880 TOKEN – one pulse on right washer/dryer input  
 .990 TOKEN – one pulse on right washer/dryer input

# Coin Acceptor Switch Settings

■ INDICATES SWITCH POSITION

### Canada

ON ON  
25¢, \$1(OLD & NEW), \$2(OLD & NEW)  
AND .990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(OLD & NEW), \$2(OLD & NEW)  
AND .990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$2(OLD & NEW) AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(OLD & NEW) AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢ AND .990 TOKEN  
NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$2(OLD & NEW) AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(OLD & NEW) AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(NEW ONLY), \$2(NEW ONLY)  
AND .990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(NEW ONLY), \$2(NEW ONLY) AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$2(NEW ONLY) AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(NEW ONLY) AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$2(NEW ONLY) AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(NEW ONLY) AND  
.990 TOKEN NORMAL SENSITIVITY

### Canada

ON ON  
25¢, \$1(OLD & NEW), \$2(OLD & NEW),  
.880 AND .990 TOKEN NORMAL  
SENSITIVITY

OFF OFF  
ON ON  
\$1(OLD & NEW), \$2(OLD & NEW),  
.880 AND .990 TOKEN NORMAL  
SENSITIVITY

OFF OFF  
ON ON  
25¢, \$2(OLD & NEW), .880 AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(OLD & NEW), .880 AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, .880 AND .990 TOKEN  
NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$2(OLD & NEW), .880 AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(OLD & NEW), .880 AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(NEW ONLY), \$2(NEW ONLY),  
.880 AND .990 TOKEN NORMAL  
SENSITIVITY

OFF OFF  
ON ON  
\$1(NEW ONLY), \$2(NEW ONLY), .880  
AND .990 TOKEN NORMAL  
SENSITIVITY

OFF OFF  
ON ON  
25¢, \$2(NEW ONLY), .880 AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
25¢, \$1(NEW ONLY), .880 AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$2(NEW ONLY), .880 AND  
.990 TOKEN NORMAL SENSITIVITY

OFF OFF  
ON ON  
\$1(NEW ONLY), .880 AND  
.990 TOKEN NORMAL SENSITIVITY

25¢ – one pulse on left washer/dryer input  
 \$1 – one pulse on right washer/dryer input  
 \$2 – two pulses on right washer/dryer input  
 .880 TOKEN – one pulse on right washer/dryer input  
 .990 TOKEN – one pulse on right washer/dryer input







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Notes

Ruled area for notes on page 146.

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**Section 11:**  
Maintenance

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# Preventative Maintenance

## Daily

- Step 1:** Check that the loading door remains securely locked and cannot be opened during an entire cycle.
- Step 2:** Clean the top, front, and sides of the cabinet to remove residue.
- Step 3:** Clean the soap dispenser and lid and check that all dispenser mounting screws are in-place and tight.
- Step 4:** Check the loading door for leaks. Clean the door seal of all foreign matter.
- Step 5:** Leave the loading door open to aerate the washer when not in use.

## Quarterly

- Step 1:** Make sure the washer is inoperative by switching off the main power supply.
- Step 2:** Check the V-belts for wear and proper tension.
- Step 3:** Clean lint and other foreign matter from around motor.
- Step 4:** Check all water connections for leaks.
- Step 5:** Check the drain valve for leaking and that it opens properly.
- Step 6:** Wipe and clean the inside of the washer and check that all electrical components are free of moisture and dust.
- Step 7:** Remove and clean water inlet hose filters. Replace if necessary.
- Step 8:** Check anchor bolts. Retighten if necessary.