

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


DEXTER. LAUNDRRY


Equipment Safety Warnings
Symbols and Terminology Used in this Equipment
Indicates an imminently hazardous situation, which if
not avoided, will result in death or serious injury.
Indicates a potentially hazardous situation, which if not
avoided could result in death or serious injury.
Indicates a potentially hazardous situation which, if not avoided,
may result in minor or moderate injury. It may also be used to aler
against unsafe practices. Minor burns, pinch points that result in
bruises and minor
chemical irritation.
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. TO REDUCE THE RISK OF DAMAGE OR
INJURY, refer to accompanying documents; follow all steps or
procedures as instructed.
This is the electrical hazard symbol. It indicates that
there are DANGEROUS HIGH VOLTAGES PRESENT inside the
enclosure of this product. 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 PERSONNEL ONLY
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 equip-
ment.

## 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.



| All washers must be installed in accordance to all ap- <br> plicable electrical, plumbing and all other local codes. |
| :--- | :--- |
| These installation and operation instructions are for |
| use by qualified personnel only. To avoid injury and electri- |
| cal shock, do not perform any servicing other than that con- |
| tained in the installation and operation instructions, unless |
| qualified. |



Do not operate washer if door glass is damaged in any way.

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


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 thei safety.

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

- 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

Warning! Do not operate equipment if door glass is dam-
aged in any way.



## Notes

$\qquad$

## Dexter Safety Guide- Table of Contents

 linesSection 1:
Machine Mounting \& Installation


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.

T-650


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T-1450
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## Section 1:

Machine
Mounting


Part \# 8533-110-001 2/23

T-750 Machine Dimensions
T-1450 Machine Dimensions


T-950 Machine Dimensions


Part\#8533-110-001 2/23
Part \# 8533-110-001 2/23

T-650 Mounting Dimensions


T-750 Mounting Dimensions


Part \# 8533-110-001 2/23


## Foundation Requirements

This machine is designed for use on or over bare concrete floor - not to be used above combustible flooring, such as carpet or wood. The washer must be securely bolted and grouted to a substantial concrete floor, or mounted and grouted upon a suitable base that is securely bolted and grouted to a substantial concrete floor.

ITH ALL FOUNDATION WORK TO ENSURE A STABLE UNIT INSTALLATION, ELIMINATING POSSIBILITIES OF EXCESSIVE VIBRATION
All installations require concrete floors and quality grade anchor bolts or expansion anchors. Mounting hardware is not provided with the machines. Refer to appropriate model Machine Mounting Detail Figure $1-1,1-2$, and 1-3 for floor thickness and bolt sizes. See mounting diagram for overall washer dimensions.

## Section 2:

Machine
Installation
\& Operating
Instructions

## Mounting

A concrete pedestal or steel-mounting base that elevates the machine above the floor level is recommended to provide easy access to the loading door
Recommended height: T-650/750/950/1450: approximately 4 inches ( 102 mm )
Allow a minimum 24 inches $(610 \mathrm{~mm}$ ) of clearance behind the rear of the machine to provide access for motor service. Contact a Dexter laundry equipment distributor for recommended steel mounting bases. an elevated concrete pedestal is desired, it should be e
EXPANSION ANCHORS ARE NOT RECOMMENDED FOR USE IN CONCRETE PEDESTALS BECAUSE THE ANCHORS ARE TOO CLOSE TO AN EDGE, CAUSING IT TO BREAK OUT.

## Mounting Holes

See mounting dimensions for the machine model you are instaling 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. NOTE: Machine grouting is highly recommended as grouting insures stability and longevity.

## Plumbing

Water supply hoses are provided with each machine. The threaded connections on the hoses are $3 / 4-11$ $1 / 2$ NHT for 60 Hz models and $3 / 4-14 \mathrm{BSP}$ for 50 Hz models. Separate hot and cold water lines must be supplied to the machine, maintaining 30 psi to 120 psi ( 207 kPa to 827 kPa ) water flow pressure. A $140^{\circ}$ $\left(60^{\circ} \mathrm{C}\right)$ hot water supply is recommended for best washing results. Do not exceed $180^{\circ} \mathrm{F}\left(82^{\circ} \mathrm{C}\right)$ water temperature

## Drain

The drain outlet tube size: T-650, T-750, T-950, and T-1450 is 3 inches ( 76 mm ) in diameter. Any drain hose used must be lower than the drain valve to assure proper draining.

## 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

The Dexter single/three-phase 208-240VAC 60 Hz (single phase 230VAC 50 Hz ) non-heated washing ma chines and three phase only $208-240 \mathrm{VAC} 60 \mathrm{~Hz}(400 \mathrm{VAC} 50 \mathrm{~Hz})$ heated 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. A means for disconnection with a an individual branch circuit not shared by lighting or other equipment. A means for disconnection with a tight or approved flexible conduit, or equivalent, with conductors of the proper size and insulation ( 50 Hz : The sheath of the supply cord must be at least equivalent to that of a cord complying with IEC 227 or IEC 245). A qualified technician should make such connections in accordance with the wiring diagram. See specification sheet for minimum recommended wire size. Individual circuit breakers for each unit are required. Do not use ground-fault (earth-fault) circuit breakers or ground-fault (earth-fault) circuit interrupter outlets.

To Make Electrical Connections
Disconnect all power to the washer. Remove the top panel of the washer and locate the power terminal block near the back of the control compartment.

If power is $208-240 \mathrm{~V}-3 \mathrm{PH}-60 \mathrm{~Hz}$, connect $\mathrm{L} 1, \mathrm{~L} 2, \mathrm{~L} 3$, and Ground. If there is a high leg, it must NOT be connected to $\mathrm{L1}$ or L . However, failure due to a voltage surge on the high leg is not covered by equipment warranty. Contact Dexter Laundry with any questions.
If power is $208-240 \mathrm{~V}-1 \mathrm{PH}-60 \mathrm{~Hz}$, connect L1, L2, and Ground (Only Non-Heated Washers may be connected to 1PH power).
If power is $400 \mathrm{~V}-3 \mathrm{PH}-50 \mathrm{~Hz}$, connect $\mathrm{L} 1, \mathrm{~L} 2, \mathrm{~L} 3, \mathrm{~N}$, and Earth. If there is a high leg, it must NOT be connected to L1 or L2. However, failure due to a voltage surge on the high leg is not covered by equipment warranty. Contact Dexter Laundry with any questions. (Only Heated Washers may be connected to $400 \mathrm{~V}-3 \mathrm{PH}$ power)
If power is $230 \mathrm{~V}-1 \mathrm{PH}-50 \mathrm{~Hz}$, connect $\mathrm{L} 1, \mathrm{~N}$, and Earth (Only Non-Heated Washers may be connected to 1 PH power).

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

| Dexter Recommended <br> Connections | Controller / Injec- <br> tor Signals |
| :---: | :---: |
| Detergent | 1 |
| Bleach | 2 |
| Starch | 3 |
| Sour/Softener | 4 |
|  | 5 |
|  | 6 |
|  | 7 |
|  | 9 |
|  | 10 |



## $!$ WARNING

60 HZ CONTROL TRANSFORMER CONNECTIONS
NOTE: transformer must be set at proper tap for proper operation.
The controls transformer is located inside the control trough and steps a range of 208 to 240 volts down to 115 VAC and 24 VAC . 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 " 240 V " for power supplies between 220 and 240 volts. Refer to the following for contro transformer connections.

## CONTROL TRANSFORMER CONNECTIONS

BLACK/BLUE WIRE
DO NOT MOVE OR REMOVE THIS WIRE

## CONTROLS TRANSFORMER (230V 50 Hz models only)

The controls transformer is located inside the control trough and steps a range of 180 to 255 volts down to 24 volts. There are two terminals on the controls transformer for the primary (incoming) power. Use the terminal marked " 51200 V " for power supplies between 180 and 229 volts. Use the terminal marked "L1 230 V " for power supplies between 230 and 255 volts.

CONTROL TRANSFORMER CONNECTIONS


50 Hz Control Transformer Connections

2．11．5 VARIABLE FREQUENCY DRIVE ADJUSTMENTS（208－240V 60 Hz T－ 950，T－675 and T－1475 models only）
The variable frequency drive allows for varying acceleration during Final Spin on T－950，T－675 and T－1475 models．It is important to utilize a decreased acceleration rate when the application power is low．This acceleration rate is determined by a white wire jumper installed on the drive terminal block from +10 V to AVI．Reference the diagram below for terminal block locations．
Remove the wire jumper when input power is between 208 and 219 volts．Keep the jumper installed when input power is between 220 and 240 volts．Reference the drawings below for the jumper location．


Control Terminations on Variable Frequency Drive

| OSeries Washer Model | $\begin{gathered} \hline \text { Max } \\ \text { Spin } \\ \text { speed } \end{gathered}$ | $\begin{array}{\|c} \text { Input } \\ \text { Voltage } \end{array}$ | Jumper Terminal Locations on Variable Frequency Drive（VFD） |  |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | M1 | M12 | M13 | M14 | M 5 | M6 | $\begin{gathered} \text { DCM } \\ \text { (Lett) } \end{gathered}$ | $\left.\begin{array}{\|c\|} \hline \mathrm{OCM} \\ \text { (Right) } \end{array} \right\rvert\,$ | 200 | ACM | AV | A | 10 N | M01 |
| T－950 | 2006 | 240 V |  |  |  |  |  |  |  |  |  |  | x |  | $\times$ |  |
|  | 2006 | 208 V | Nojumper required |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T－675 | 3 mg | 74.5 |  |  |  |  |  |  |  |  |  |  | x |  | x |  |
|  | 3006 | 208 V | No Jumper required |  |  |  |  |  |  |  |  |  |  |  |  |  |
| T－1475 | 3006 | 240 V |  |  |  |  |  |  |  |  |  |  | $\times$ |  | $\times$ |  |
|  | $3 \mathrm{~m}_{5}$ | 20 SV | No lumper required |  |  |  |  |  |  |  |  |  |  |  |  |  |

## INJECTION SOURCE CONNECTIONS

The washer control may be programmed to send ten 120 VAC output signals for 60 Hz models（or 24 VAC for 50 Hz ）for a chemical injection system．The signals are not intended as a power source and must be limited to less than 100 milliamps of current．There is a separate terminal block for connection of the external injection signals．For the injection sources，program codes 1 through 10 and their respective terminal block connections are as shown in Table 1.

| Dexter Recommended <br> Connections | Controller／Injector <br> Signals |
| :---: | :---: |
| Detergent | 1 |
| Bleach | 2 |
| Starch | 3 |
| Sour／Softener | 4 |
|  | 5 |
|  | 6 |
|  | 7 |
|  | 8 |
|  | 9 |
|  | 10 |

## Table 1：Injection Signal and Circuit Identification

If required，chemical injection hoses are to be inserted into the injection inlet at the upper right rear of the washer．These hoses should be inserted into the round PVC pipe a distance of
T－650， 750,950 and 1450 a minimum of $14^{\prime \prime}(36 \mathrm{~cm})$ and a maximum of $18^{\prime \prime}(46 \mathrm{~cm})$
This will eliminate chemical buildup in the pipe and／or restrict water flow to the tub．Secure the hoses as required．

Fusing Requirements：
Dual element time delay fuse or equivalent breaker of amperage specified below．
－1 Phase or 3 Phase 15 amp ，208－240VAC
－WN0650－12，WN0750－12 WN0950－12，and WN1450－12
－ 1 Phase 15 amp，230VAC
－WN0650－39，WN0750－39，WN0950－39，and WN1450－39

## OPERATION CHECK

During intermediate spin and final spin，the cylinder should turn in a counterclockwise direction when viewed from the front of the machine．If spin is clockwise，the T1 and T2 motor wires connecting to terminal T1 and T2 on the variable frequency drive should be swapped．Remove power to the machine before opening service panels and swapping wires．

## OPERATING INSTRUCTIONS

## STARTING THE WASHER

1）Turn on power to the washer
A）Load the laundry．
Place laundry into the cylinder and latch the door securely．Be sure laundry does not get caught between the door gasket and tub front when closing the door．Maximum load is the dry weight capacity listed in the specification sheet．Do not exceed the listed capacity weight．

NOTE：To begin closing the door，the handle must be in the horizontal position After moving the door to the closed position，the handle must be turned down to the vertical position in order to latch the door for machine operation．

## 2）Select wash cycle．

Select the appropriate cycle for the type of load being washed．Use the＂UP＂and＂DOWN＂ keys to change the cycle on the display to the desired cycle and press the enter button to select．

## 3）Add washing chemicals

If not using a chemical injection system，add low sudsing powdered detergent into the＂DETER GENT＂compartment of the automatic dispenser on the top or front of the washer．If liquid wash products are used in the＂DETERGENT＂compartment，they must be added at the beginning of the wash cycle．If desired，add fabric softener to the＂FABRIC SOFTENER＂ compartment．Use the amount of fabric softener as recommended by the manufacturer．If the machine is set for pre－wash，washing products can be added to the round opening of the dispenser or put in with the clothes when loading the washing machine．If bleach is desired，DO NOT place into dispenser until the ADD BLEACH message is displayed．

## 4）Start wash cycle

Press enter to start the cycle．The display will show cycle information throughout the cycle．The door will lock and remain locked until the end of the cycle．Press the red pause button to pause the cycle．Select Start to restart the cycle or select Cancel Cycle to end the wash cycle．

## END OF CYCLE

A tone will sound（if programmed）and the display will indicate that the cycle has ended．The door can now be opened．Immediately remove contents of washer．Leave the door open when the machine is not in use．

## EMERGENCY STOP／SAFETY DOOR LOCK

This machine is equipped with a safety door lock that locks the door when the cycle is started until the cycl 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 ends the cycle and allows the door to be opened after the Safety Door Lock releases．When the Emergency Stop button is pressed an alarm will sound（if programmed），an ＂Emergency Stop＂message will be displayed，tumbler movement will begin to slow and water will begin draining from inside the washer．Though the machine may end 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．Inspect washer as needed and reset he emergency stop button by turning it
 door，and starting a new cycle．

## VARIABLE FREQUENCY DRIVE INDICATORS

There are three small red LEDs located on the upper Variable Frequency Drive（VFD）cover．They are labeled as＂READY＂，＂RUN＂，and＂FAULT＂and can be used for troubleshooting．The definitions of the LED are listed in Table 2 below．

| Washer Condition | ＂READY＂ | ＂RUN＂ | ＂FAULT＂ |
| :--- | :---: | :---: | :---: |
| LED Status |  |  |  | LED Status | LED Status |
| :---: |$|$| Idle Mode <br> （No Cylinder Movement） | ON | OFF | OFF |
| :--- | :---: | :---: | :---: |
| Tumbling | ON | ON | OFF |
| Stop from Tumble | ON | FLASHING | OFF |
| Ramp to Intermediate or <br> Final Extract Spin | ON | ON | OFF |
| Spinning <br> （Intermediate or Final） | ON | ON | OFF |
| Stop from Spin <br> （Intermediate or Final） | ON | FLASHING | OFF |
| Faulted | ON | OFF | ON |



## Injection Source Details

The washer control may be programmed to send output signals for a chemical injection system. There is a separate terminal block for connection of the external injection signals. For the injection sources, program codes 0 through 6 120 volt reading at rear terminal block for approximately 5-10 seconds and will start to trigger at about $10-15$ second in start of fill bath. (Chemical Injection Signals are shown in the programming section.)

Detergent Measurements By Washer Model


Triple Load T-350 Washer


Mega Load T-450 Washer

## 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 and 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 electrica components of all types and cause their failure at a later date. Although they can't protect against al 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.

## Notes


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$\qquad$
$\qquad$
$\qquad$
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$\square$

## Section 3:

Machine
Programming Instructions

## O-SERIES WASHERS <br> PROGRAMMING WITH DEXTERLIVE

Our O-Series washers are simple and easy to program with DexterLive.com. This guide will provide an overview of some of the features DexterLive offers and how to create the cycles that fit your location's specific needs.

## Set-Up an Account and Location

If you don't already have a DexterLive account, it is easy to register at DexterLive.com.
Once you have an account, you can create a new location and customize that location based on a specific application. Simply select on-premise laundry as your location type and the application type option will be available.

Tip: If you have multiple applications, you can provide a generic name (e.g., Motel) and use the same custom programs across multiple locations


## Add Equipment

Before programming cycles, you need to add equipment. Because functionality differs between model types, it is important to select the right model. You can name your machine, input the serial number, and add the DexterLive ID if you choose. However, this information is not required.

Tip: To create a generic program to be used in many locations, leave the serial number and DexterLive ID blank

```
EQUIPMENT
    muven bon Cumsmas
```



## General Settings

General settings will set the global parameters for your location. These parameters $w$ impact all washers and dryers added to that location.

| Setting | Options | Notes |
| :--- | :--- | :--- |
| Machine Display Language | Multiple | Changes the language of cycles, stages, anc <br> prompts that are displayed on the control. Ind <br> cycles can still be set for different languages. |
| End of Cycle Sound | On / Off | Buzzer will sound when cycle is complete. |

## Machine Settings

Most programming functions are available under the individual machine settings. Unde $\frac{{ }_{6}^{*}}{0}$ selection, you can review, edit, create, or delete cycles as well as select injection type customize tumble speeds.

```
Wuaters Dryers Genera Settings
```

- Traso Exposss wather



## Cycles

The cycle page allows you to add, edit, copy, delete, or reorder cycles.

| crien | oxionu seeng |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  | стй пnat | rowa tims | $\underset{\text { тих }}{\substack{\text { mum }}}$ | wux rumbit Hoort |  |
| arese 1 | unce Sheet | 27 min | Het | Nomal | \# \% |
| Orec 2 | Corosmecta | 22 mim | wem | Noma | $=0$ |
| Gees 3 | unce Town | 28 min | Het | Nomal | (\%) |
| 9eb 4 | cosor fowe | 23 mm | wam | Nomal | \% 年旦 |
| grew 5 | Barkes | 23 mim | wem | Nomal | \# \% |
| वес) 5 | cricam | ${ }^{23 \pi}$ | vam | Demex* | = ${ }^{\text {e }}$ |
| areer | masis vecs | 35 min | Hel | nomu | \# ${ }^{\circ}$ |
| aces | untoms | 29 mm | Hex | Natral | \# 2 |
| arces | Sen Toutreat | 00mim | Hot | Nomal | = 0 |
| Crete 10 | unce theso | 33 mie | Het | Nomal | \# \% |
| acell 1 | cosontinea | 32 mim | Hee | Nems | = 0 |
| arese 12 | unce untoma | 36 mm | Hee | Nomal | \# \% |
|  | + sasoyen |  |  |  |  |


| Legend |  |  |
| :---: | :---: | :--- |
| $\equiv$ | Edit Cycle | Select anywhere on the cycle description (cycle name, target temp, <br> material, or target) to open the cycle details for editing. |
| $\equiv$ | Reorder <br> Cycle | Select and hold to move a cycle up or down in the listing. This will <br> change the order it is displayed on the control. |
| Copy Cycle | This will duplicate the cycle. Tip: It is easiest to edit an existing cycle <br> instead of creating a new cycle. Copy the cycle that is closest to the cycle you <br> want to create and edit that cycle. If a default cycle doesn't meet your needs, <br> select "Add Cycle" and choose a default cycle from another application. You <br> can always change the cycle name in the edit section. |  |
| Add Cycle | Delete Cycle | This will delete an existing cycle. |
| This will allow you to add a preset cycle from another industry or |  |  |
| another location. |  |  |

Cycle Settings
A cycle can be edited by clicking on the cycle name in the Cycles page. The name and language can be customized for that specific cycle. Changing the language for a cycle will change the status, stage names, and prompts displayed during that particular cycle.

## Cycle 1 - White Sheets Settings

Crion Name
Lencuase 0
Whate Sheets
Englan $\quad *$

Tip: If a location has multi-lingual employees, the same cycle can be duplicated and programmed for different languages. For example, in a location with English and Spanish speaking employees, program White Sheets to the desired settings. Copy that cycle, set that cycle language to Spanish, and note the name change to Sabanas Blancas. This will allow a employees to read the necessary prompts and descriptions on the control.

## Stages

A stage can also be considered a bath, such as prewash, wash, rinse, etc. Each cycle can consist of 20 unique stages. Within each stage, the following parameters can be selected.

| Setting | Options | Options | Description |
| :---: | :---: | :---: | :---: |
| Fill | Bath Temperature | Hot <br> Warm <br> Cold <br> No Fill |  |
|  | Auxiliary Temperature (Heated Models Only) | $\begin{aligned} & \text { No Heat } \\ & \text { 100F (38C)-195F } \\ & (91 \mathrm{C}) \end{aligned}$ | Heated models only. Temperature is programmable in $5^{\circ} \mathrm{F} / 3^{\circ} \mathrm{C}$ increments. |
|  | Water Level | Low <br> High | These settings can be controlled by the electronic pressure sensor |
| Soap / Chemicals | Injection Type 1-3 | None <br> Detergent Flush Softener Flush Chemical 1-10 | Three unique soap options are available for each stage. <br> See optional settings for setting chemical injection details. |
|  | Injection Delay | $0-150$ seconds | If Delay Fill is ON this is the time from when the low water level is met If Delay Fill is OFF this represents the time from start of the stage to when chemical injection begins. |
|  | Injection Duration | 1 - 240 seconds | The amount of time chemicals wil be injected. |


| Bath | Soak Time | $0-60$ minutes | Time from when fill is complete to <br> when agitation begins. |
| :--- | :--- | :---: | :--- |
|  | Agitation Time | $0-30$ minutes | Time load will tumble. |
|  | Agitation Type | Normal <br> Delicate <br> Custom 1-3 | Aggressiveness of the tumble <br> action. Tip: For wet clean or super- <br> delicate applications, create your <br> own custom agitation type in the <br> optional settings. |
|  | Drain Method | Standard <br> None | Tip: Select None for a soak longer <br> than 60 minutes |
| Spin | Spin Time | $0-30$ minutes | Amount of time in spin mode. |
|  | Spin Speed | $60-200 G$ | Spin time must be selected <br> to set spin speed. Speed is <br> programmable in 20G increments. |

Continue adding or editing stages as appropriate to create the specific cycle you want. Remember, you have the ability to customize all 20 stages, so get creative and gain Total Control over your laundry experience.

Tip: See example below illustrating how stages can be customized to create a specialty cycle, such as an extended soak.

## Example - Extended Soak:

| Parameter | Stage 1: <br> Prewash | Stage 2: <br> Soak | Stage 3: <br> Soak | Stage <br> 4: Soak / <br> Wash | Stage 5: <br> Rinse | Stage 6: <br> Final Rinse |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Temperature | Cold | Cold | NA | NA | Cold | Cold |
| Water Level | High | High | High | High | High | High |
| Soap | None | Chemical <br> $1,2 \& 3$ | None | None | Chemical 4 | Chemical 5 |
| Soak Time | 0 mins | 60 mins | 60 mins | 15 mins | 0 mins | 0 mins |
| Agitate Time | 5 mins | 0 mins | 0 mins | 30 mins | 15 mins | 15 mins |
| Agitation Type | Normal | NA | NA | Normal | Normal | Normal |
| Drain Method | Standard | None | None | Standard | Standard | Standard |
| Spin Time | NA | NA | NA | 2 mins | 5 mins | 5 mins |
| Spin Speed | NA | NA | NA | $200 G$ | 100 G | $200 G$ |

## Optional Settings

These settings will only apply to that specific model type. For instance, optional setting the T-950 will not apply to a T-650. These will need to be set individually by model.

```
- T-950 EXPRESS WASHER
Cyctes Optomal Setting
```


## Custom Agitation

DexterLive has the ability to create 3 custom agitation types. These custom agitations enable you to create cycles such as a wet clean cycle with "rocking" methods versus a fumble agitation

```
Orcmen Cabona setron
```



| Settings | Options |  |  | Notes |
| :---: | :---: | :---: | :---: | :---: |
| Tumble Speed |  | Normal (G / RPM) | $\begin{aligned} & \text { Delicate } \\ & \text { (G / } \\ & \text { RPM) } \end{aligned}$ |  |
|  | T-350 | $0.9 / 55$ | $0.6 / 47$ |  |
|  | T-450 | 0.9/50 | 0.6 / 41 |  |
|  | T-650 | 0.9/50 | 0.6 / 41 |  |
|  | T-750 | 0.9/43 | 0.6 / 36 |  |
|  | T-950 | 0.9/43 | 0.6 / 33 |  |
|  | T-1450 | 0.9 / 39 | 0.6 / 32 |  |
| Tumble Time | 1-60 seconds |  |  | Controls how long the tumbler agitates before Tip: By selecting a short tumble time, you can prev tumbler from making a full rotation, creating a "slosh tion versus a tumble action. |
| Dwell Time | $0-60$ seconds |  |  | Controls the length of pause between tumbler a Tip: By selecting a long dwell time, you allow items before restarting the tumbler action. |



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Tip: See example below for how a custom agitation can be used to create a wet clean cycle.

Example: Wet Clean

## Aghtation



| Parameter | Stage 1: <br> Prewash | Stage 2: <br> Soak | Stage 3: <br> Soak | Stage <br> 4: Soak / <br> Wash | Stage 5: <br> Rinse | Stage 6: <br> Final Rinse |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Temperature | Cold | Cold | NA | NA | Cold | Cold |
| Water Level | Low | High | High | High | High | High |
| Soap | None | Chemical 1 | None | None | Chemical 5 | Chemical 6 |
| Soak Time | 0 mins | 10 mins | 10 mins | 10 mins | 5 mins | 5 mins |
| Agitate Time | 2 mins | 2 mins | 2 mins | 2 mins | 2 mins | 2 mins |
| Agitation Type | Wet Clean | Wet Clean | Wet Clean | Wet Clean | Wet Clean | Wet Clean |
| Drain Method | Standard | None | None | Standard | Standard | Standard |
| Spin Time | 0 mins | NA | NA | 0 mins | 2 mins | 2 mins |
| Spin Speed | NA | NA | NA | NA | 60 G | 100 G |

## Injection Source Names

Name specific injection sources to clearly show which chemical is being used in which stage or cycle.

Delay Fill
With Delay Fill on, the stage does not begin decrementing time until the water level is met. This ensures the load soaks or agitates the target time, even in cases of low water pressure and slow fills. The default settings have Delay Fill turned ON.

Delay Spin
Delay Spin can be set to OFF or up to 150 seconds. Delay Spin can be used in slow drain situations to reduce nuisance Slow Drain error codes. The default settings have Delay Spin turned OFF.

## Programming

Once all cycles are set, the programming file (called userconfig.xml) can be downloaded following the instructions on the programming tab DexterLive.com.

## TNom PROGRAM YOUR MACHINES

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At the machine, you can enter management view by pressing up on the idle screen


Simply insert the USB, scroll to Import User Data, and begin using your customized washer cyc


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### 2.11.5 MAXIMUM SPIN SPEED ADJUSTMENT (All washers except T-950)

If desired, the washer can be adjusted to limit the maximum extract spin speed for all wash cycles.
To make this adjustment, a jumper wire must either be installed or removed on the Variable Frequency Drive (VFD), depending on the washer model and
desired speed. This Dexter jumper part number 8220-057-036 (qty 1) is factory supplied on terminal points " 10 V " and " RC ". Remove this jumper to make new jumper connections if necessary. Refer to figure below for the approximate location of the control terminations on the Variable Frequency Drive (VFD) and for appropriate jumper connection points indicated with an " $X$ " for the desired maximum spin speed setting. If no adjustment to the default spin speed is desired, do not remove or add any wires on VFD.


Control Terminations on Variable Frequency Drive


Spin speed Adjustment Jumper Locations

MAXIMUM SPIN SPEED ADNUSTMENT (T-950 Only)
The variable frequency drive allows for varying acceleration during Final Spin on T-950 models. It is important to utlize a decreased acceleration rate when the application power is low. This acceleration rate is determined by a white wire jumper installed on the drive terminal block from +10 V to AVI.
Remove the wire jumper when input power is between 208 and 219 volts. Keep the jumper installed when input power is between 220 and 240 voits. Reference the drawing below for the jumper location.



Section 4:<br>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 display lit? |
|  | 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 the 1.5 amp and 2.0 amp fuses ( 60 hz models) or circuit breaker ( 50 hz models) for continuity. If no continuity, replace fuse or breaker. |
|  | Control Transformer | Check voltage output from control transformer for 24 VAC and 120 VAC ( 50 hz models have 24 VAC only). If voltage is incorrect, check for proper transformer tap connection or replace transformer. |
|  | Check PCB board | Check all wire connections for sure contacts. |
|  | Check wiring between PCB | Check data cable phone type connectors unplug and VFD and replug with power removed. |
|  | Check Door Lock Mechanism | Check that 120 VAC power (for 60 hz ) or 24 VAC power (for 50 hz ) is at door lock motor after start button is pressed. |
| Door does not lock | Check display for fault code | Follow tests described in fault code section. |
|  | Door locking mechanism | Check to ensure that mechanism is receiving 120VAC for 60 Hz . models (or 24 VAC for 50 Hz . models) from main relay PCB. If it is receiving power but not functioning, then replace mechanism. |
|  | 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 mechanism to open. Check to be sure that the locking thermoactuator is not receiving 24VAC during the last $11 / 2$ minutes of the cycle. Also check to see that the unlocking thermoactuator is receiving 24 VAC during the last minute of the cycle. If the timing and voltage are correct, replace the thermoactuator. |
| $\begin{aligned} & \begin{array}{l} \text { Door will not } \\ \text { open } \end{array} \\ & \hline \end{aligned}$ | 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. |
|  | Door locking mechanism | Check that door lock mechanism is not stuck closed. If stuck, replace. |
| No hot water in detergent dispenser | Water Valve Coil | Check coil continuity at terminals and replace if no continuity. 120 VAC power ( 60 Hz ) only on for 20 second in wash bath. ( 24 VAC for 50 Hz models) |
|  | 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. |



## Common Troubleshooting Solutions

| Symptom | Probable Cause | Suggested Remedy |
| :---: | :---: | :---: |
| Machine does not turn | VFD | Check VFD by removing inspection panel and record any numbers or letters displayed. If no display 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 inspection cover at rear and record in only numbers or letters displayed. 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. |
|  | Code | Reset code by: <br> 1. From "READY" screen, press the UP button to "Management View" then Enter (green arrow). <br> 2. Enter passcode - Default is 0000. Choose "Confirm". This will enter Programming Mode. <br> 3. Arrow down to General Settings and hit enter. <br> 4. Change or verify it says "READY" to the right of Excessive Vibration (up/down arrows will let you change the option) then enter. <br> 5. Scroll back up to "Back" and confirm. <br> 6. Proceed to back out of programming until you are to the "READY" screen with program options. |
| 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 P14 to 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. |



| Fault\# | Description | Customer Action |
| :---: | :---: | :---: |
| OH_THERMISTOR_ OPEN | There is an open circuit across the OH thermistor terminals or the measured temperature is below - 33 degrees F (above 310 Mohms) | Check OH Thermistor connections Check OH Thermistor resistance |
| DRIVE COMMUNICATION_ ERROR | Failure to reset VFD, communication retry failure over 3 times | Check VFD cable Check VFD power |
| $\begin{aligned} & \hline \text { DRIVE_CRC_MISMATCH_ } \\ & \text { ERR } \end{aligned}$ | CRC mismatch in VFD message | Check VFD FW <br> Check VFD cable <br> Check for noise on VFD cable |
| DRIVE_ENABLE_ERROR | VFD speed still 0 after commanding frequency 3 times | Check VFD enable relay Check VFD enable connector Check VFD enable cable |
| DRIVE_EXCEPTION ERROR | Exception received from VFD | Refer to Graphics board for specific exception |
| SLOW_SPIN_ERROR | VFD frequency is not within 10\% of the command frequency after time specified by acceleration type | Check VFD load |
| DRIVE_RESETTING | Temporary warning indicating that the drive was commanded to reset | Check VFD FW Check VFD cable Check for noise on VFD cable |
| DRIVE_RESET_ COMPLETE | Warning used to indicate a VFD reset was successful | No Action Required |
| MODEL_DRIVE_SIZE_ ERROR | VFD size does not match machine configuration parameters | Check model header Check model configuration |
| DRIVE_PARAMETER_ ERROR | VFD parameters not match machine configuration parameters | Check model header Check model configuration |
| NON_DEXTER_DRIVE | Failed to validate Dexter Drive | Check VFD model |
| SPIN_TIME_ERROR | VFD frequency is not 0 after time specified by deceleration type | Check VFD Check Drum |
| VFD_FAULT | Fault detected on VFD | Check Graphics board for which fault |
| VFD_HARD_ERROR | Unknown error returned from the VFD | Check VFD |



| Fault\# | Description | Customer Action |
| :--- | :--- | :--- |
| SLOW_DRAIN_ <br> ERROR | Water level has not reached <br> empty level when draining for 5 <br> minutes | Check water drain <br> Check drain valve <br> Check drain valve relay <br> Check pressure sensor |
| INVALID_FILL | Fill type specified does not match <br> available types | Contact software <br> engineering. Indicative of <br> software bug or processor <br> malfunction |
| DOOR_SHUT_NOT_ <br> LOCKED | Unable to lock door when starting <br> washer cycle. Unable to keep <br> door locked when running a cycle | Check door lock motor <br> Check door lock relay <br> Check thermoactuators |
| INCOMPATIBLE_- <br> SPIN_SPEED | Spin type specified does not <br> match available types | Potential model mismatch <br> between control board <br> and graphics board, reset <br> machine. |
| THERMAL_LOCK_ <br> FAIL | Unable to hold the door locked <br> when testing between stages | Check thermoactuators |
| PORT_EXP_I2C_ | Could not find the expected port <br> expander with the proper address <br> configured | Check I2C connections <br> Check Relay Board model <br> connectors P6 |
| ADDR | Improper injection or injection <br> times | Check cycle parameters |
| INJECTION_ERROR | Invalid parameter received from <br> Graphics board | Check model parameters |
| INVALID_PARAM | Failed to reset the VFD | Check VFD |
| VFD_RESET_FAIL | VFD speed is outside of 10\% <br> window of commanded speed | Check VFD |
| E_STOP | Emergency Stop button <br> depressed | Check E-stop button |
|  |  |  |



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Section 5:
Machine Service
Procedures

## Top Panel Removal Top Soap Dish

Step 1: Remove 4 screws that hold detergent dispenser to top panel. (for T-750, T-900, T-950) Step 2: Unlock top panel lock.
Step 3: Raise top panel, slide to the rear to release from back clips and lift off
Top Panels Removal Front Soap Dish
Step 1: Unlock top panel locks.
Step 2: Raise front top panel, slide forward to release from rear top panel. Step 4: Remove $5 / 16$ bolt from hold down brackets, (rear top panel front edge to each side panel.
Step 3: Raise rear top panel, slide to the rear to release from back clips and lift off.

## Front Panel Removal

Remove 2 screws between front panel top and front (located behind control panel).
Step 3: 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
Sep 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
tep 3: Disconnect red/white \& white/red 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.

Detergent Dispenser (T-750, T-900, T-950)
Remove top panel to access dispenser. (see Removing Top Panel) Detergent is flushed from the front of the compartment and fabric softener is flushed from the back. There will be a small amount of water left in the fabric softener compartment after each use.

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 back flow of water.

Water Valves
Remove top panel to access water valves. (see Removing Top Panel) The two dual outlet water and/o single coil valves are mounted to the rear channel with two screws each. Always check inlet screens to 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 solenoid 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 tw 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 doo 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


Step 1: Set door cam over pin. Here you can see he door cam away from the door lock assembly.

Spring screw Switch actuato


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

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


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 he switc should cloce and open upon removal of thickness gauge．

lobe to lock 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．


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！

## NOTE：

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

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 and tugging on it．See Parts Section for kit increase door sealing pressure． Shims may be present between hinge and tub front．The number may be increased or decreased to adjust right side door pressure．
Loading Door Hinge Removal

Step 1：First remove loading door，front panel， and trim ring


Loading Door Removal dropping


Step 2：Remove 2 bolts holding the lower leaf hinge and set door off．

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Loading Door Disassembly

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

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: While holding down on the door glass, lift up the door glass, lift up back the lip of the gasket with your fingers.

Step 2: Use one hand underneath to push the gasket out and the othe gasket out and the oother the gasket in place

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

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 pane
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.

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. (Original locking solenoid models can be converted to the new assembly)

## 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 solenoid

## 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 Removal
Turn the drive pulley while applying pressure to
Turn the drive pulley while applying pressure to the drive belt until it rolls off of the basket pulley cautious not to drop the motor which could unhook the tension assembly.

Reverse this procedure for installation.


Door Lock Gear Motor


Thermoactuators

Drive Belt



## Cylinder (basket)

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) $3 / 816 \times 2$ " 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 $5 / 8-11$ 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


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## Reassembly of the Cylinder

Step 1: Use the hub of the drive pulley, a stack of $5 / 8^{\prime \prime}$ flat washers and a $3^{\prime \prime}$ long $5 / 8^{\prime \prime}$ bolt to pull the cylinder shaft through the bearings. After the 3 " bolt a $2^{\prime \prime}$ long bolt will be required to finish pulling the cylinder shaft through.

Step 2: Remove the $1 / 2^{\prime \prime}$ 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 Install Dexter Tool part \# 8545-056-001 on the back of the outer tub to adjust tub front to cylinder clearance. Thread $5 / 8^{\prime \prime}$ bolt through tool and into cylinder shaft. Push the outer tub forward $1 / 4^{\prime \prime}$ to
$1 / 2^{\prime \prime}$ with tool $8545-056-001$ by tightening the $5 / 8^{\prime \prime}$ 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 $30 \mathrm{ft} / \mathrm{lbs}$.
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.

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Section 6 :
Service Electrical
Components

Remove top panel to access control trough．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 $11 / 2 \mathrm{amp}$ fast blow type fuse．

## 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．
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 VAC and 24 VAC ．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 200 volts -215 volts and the other tap is marked 230 volts for 216 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 right hand side 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，staying pushed in and will cause erratic displays．

## Pressure Switch

The pressure switch sets the water level in the washer．As the water level rises，it compresses the air in the pressure switch hose．When the washer reaches the desired water level，the compressed air in the pressure switch hose opens the contacts in the switch，shutting off the water．When at the empty level，the pressure switch contacts are closed allowing the machine to either spin or fill with water．

## 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

## 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 $\mathrm{T} 1, \mathrm{~T} 2$ ，and T 3 ．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 emperature 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．

Electronic Pressure Sensor
The Electronic Pressure Sensor comes standard on all models. 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 | Switch \#2 Classic | Switch \#1 Low Level | Switch \#2 High Level |
| T-300 | 5.25 | 7.00 | 6.00 | 6.75 |
| T-350 | 5.25 | 6.25 | 6.00 | 6.75 |
| T-400 | 7.00 | 9.00 | 8.00 | 11.00 |
| T-450 | 6.00 | 6.25 | 6.00 | 8.50 |
| T-450 SWD | 5.00 | 7.00 | 6.00 | 8.50 |
| T-600 | 7.25 | 9.25 | 8.00 | 11.00 |
| T-650 | 6.50 | 8.25 | 8.00 | 11.00 |
| T-750 | 6.00 | 7.50 | 6.00 | 8.75 |
| T-900 | 6.00 | 7.50 | 6.00 | 8.75 |
| T-950 | 6.00 | 7.50 | 6.00 | 8.75 |
| T-1200 | 6.00 | 7.50 | 6.00 | 8.75 |
| T-1450 | 6.75 | 7.00 | 6.75 | 9.50 |


| 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 |

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Section 7:

## Electrical

Wiring Diagrams \&
Schematics

## Electrical Path Circuit Schematics

## Start Circuit

Power travels into the machine on L1，L2，and（L3 if 3 phase used）．Power from the L1 \＆L2 supplies power to the 12 VDC power supply．This power being sent to the Control PCB． $115 \mathrm{VAC}, 24 \mathrm{VAC}$ ，and the VAC Neutral is cre ated by the control transformer．The 115 VAC and 24 VAC is being sent to the Terminal Blocks．Power from the L1 and L2 also supplies power to the 12VDC power supply．The 12VDC power is sent directly to the Control PCB on the blue wires．
－All 115VAC power is designated in the machine by red wire connections and the 115 VAC neutral is designated by white wires with a red stripe．All 115VAC begins at the terminal block for 115VAC supplied through a control fuse ocated next to the terminal strip
－All 24 VAC power is designated in the machine by orange wire connections and the 24 VAC neutral is designated by white wires with an orange stripe．All 24VAC begins at the terminal block for 24VAC supplied through a control Ise located next to the terminal strip．
All 12VDC power is designated in the machine by blue wire connections and the 12VDC ground is designated by white wires with a blue stripe．

Closing the door will engage the door hinge closed switch，sending the J11－5，12VDC to the blue／white wire and over to the S1 door latched switch．Turning the door handle to the vertical latched position closes the primary door
latched switch，returning the 12 VDC voltage to the main control PCB on the blue／orange wire at the J11－2 connec－ tion．This proves the door is closed and latched and ready for safe operation．

A 12 VDC signal to $\mathrm{J} 11-2$ of the Control PCB and 120vac at the $\mathrm{J} 4-14$ of the relay PCB makes 120 vac available to the K9 door lock relay．A continuous 5VDC signal is sent out on the J11－6 brown wire and returned on the brown／ white wire to the J11－3 connector of the control PCB．This is passed through the（normally closed）emergency stop button switch．

The Washer is ready for operation
The cycle is selected using the up and down buttons．The start button is now pressed．The control signals the relay board to close relay K9 sending 120VAC to the door lock on the red／brown wire．The door lock motor engages and pulls up on the door locking rod which locks the door and closes the S3 and S4 door locking switches．This sends the 12VDC signal back to the control at J11－1 on the blue／grey wire．This 12VDC also pulls in the K4 relay which sends 24 VAC to the normally closed K2 relay that powers the Locking Thermoactuator to expand and block the locking mechanism．At the same time the K5 relay is engaged sending an enable signal to the variable frequency drive．120VAC will go to the door lock assembly from the P17 connector of the relay PCB on the red／brown wire． The door lock motor engages and pulls up on the door locking rod，locking the door and closing the S2 and S3 door the locking mechanism．

NOTE：If the door locked signal is not received after one second from pressing the Start button，no motion occurs and the error message＂DOOR SHUT，NOT LOCKED＂will appear on the display．The washer will not restart until the power is removed and re－applied

The door lock gear motor will test the door locking circuit 10 seconds before the end of the first stage．The control will release the 120VAC to the red／brown wire which will cause the Gear Motor to release which tests the Locking Thermoactuator safety circuit．This release will last for 10 seconds．As long as the Thermoactuator has properly extended to block the door locking mechanism，the machine will continue as normal．

## Agitation Circuit

When the 12VDC signal closes the $K 5$ in the Control PCB it closes the loop in the yellow wire from the VFD terminal MI6 back to the DCM on the white／yellow through the stop button．This enables the Drive to operate and allow motion．If the K5 is not closed or the Aux Stop Button is engaged there will be no motion A proximity sensor is used to verify that the cylinder is turning when the VFD is commanded to operate．If the VFD frequency is greater than 0 Hz and the proximity sensor has no change in output for 10 seconds， the error code＂NO PROX SENSOR OUTPUT＂is displayed．The K7 Closes supplying 120VAC on the red brown to energize the Drain Valve．This supplies power to close the valve．The main control PCB sends ands control all wash cylinder move
－Agitation time
－Spin spee
－Spin time

## Fill Circuit－Warm Stage

During the machine fill，a 12 VDC signal is sent on the blue wire from the $\mathrm{J} 8-1$ connection of the main con－ rol PCB to the pressure switch common contacts．This 12VDC returns on the blue／yellow wire for low leve and blue／red wire for high level．

NOTE：Unlike the other previous Dexter washers，with O－Series Controls the empty signal is an open cir－ cuit，full is a closed circuit．

The washer fills the tub through the back of the machine with either one or both the $\mathrm{C} 1 / \mathrm{C} 3$ cold and H 1 ／ H3 hot water fill valves．From the P4 connection of main relay PCB，120VAC is sent out of the K4 relay on the red／pink wire to the C1／C3 cold water fill valve．120VAC is sent out of the K1 relay on the red／grey wire to the $\mathrm{H} 1 / \mathrm{H} 3$ hot water fill valve depending on the programmed bath temperature．If the washer does not initially reach low water level within 7 minutes the cycle will continue and＂SLOW FILL ERROR＂will be displayed alternately with the Cycle Progress screen．（This is the case unless＂None＂is chosen for fill leve The alternating＂SLOW FILL ERROR＂will be displayed the rest of the cycle even when the＂CYCLE DONE screen is displayed．It will reset when the user opens the door

If the＂SLOW FILL ERROR＂occurs after 7 minutes and the water level is still not met at 15 minutes，the washer will come to a controlled stop．The current stage will end，and the cycle will not continue．The SLOW FILL ERROR＂will be displayed on the screen until reset．Even on high fill，as long as the low water level is met one time during a stage，the＂SLOW FILL ERROR＂will not be displayed during the remainder ditional filling．

Soap Dish flush／Injection Signals
The signal for the Detergent，Softener，or Injection Signals are programmable to engage for 0 to 150 sec onds．By setting up the injection or flush in the programming，a 120VAC signal will be sent from the main or secondary relay board to a specific flush valve or injection terminal on the back of the machine．The Hot from the Red／Violet of the main relay board．All Injection Terminal Strip signals are powered from the Grey wires of the secondary relay board．All 120VAC neutral is carried through the white／red wires

The Detergent Flush，Softener Flush，or Injection Signal start time is selectable from 0 to 150 second delay The start time of the delay count down is dependent on the settings of the Delay Fill option．This Delay Fill option is a global setting which affects all stages of all cycles．The default setting is Delay Fill enabled whic means that the Compartment flush or injection signal delay time will not start counting down until AFTER from the beginning of the stage．

When the water level in the basket reaches the preset level pressure, the switch moves it's switch contacts to the full or closed position. This causes the main control PCB to signal the relay PCB to shut off the water valve coils. Once the machine has achieved it's water level, the wash cylinder will continue to agitate as programmed. The time on the front display will count down as the stage progresses. The time of the stage is programmable up 30 minutes per stage used.
When the bath ends the control PCB signals the relay PCB to remove 120 VAC power from red/white wir at $\mathrm{J} 4-3$ going to the drain valve. With voltage removed, the normally-open, spring-loaded drain valve will pen allowing water to exit the machine until the tub is empty. This resets the pressure switch back to an wire to the bluedyellow and buedred wires. The same option can be for loch stage through It is pos sible to hold the drain valve and keep the bath water in the tub to start the next stage or extend the stage time.

NOTE: The control can be programed to hold the drain and extend advance into the next stage. This allows for roll over stage possibilities.

Spin and Extract Circuit
Once the pressure switch achieves empty (open circuit) level, the washer is capable of a programmed spin speed, from 60 to 200 G -Force at the end of each stage. The control PCB sends a signal to the variable frequency drive via the data cable from P-6 to the VFD RJ-11. The rotation as viewed from front during spin will be counter-clockwise. At the end of the spin, the basket will come to a stop with the assistance of the dynamic braking resistors wired in parallel to the variable frequency drive. The washer will then tumble for 45 seconds to let the clothes shake loose from the basket and then stop.

Thermoactuator and Shake Out Circuit
The Lock Thermoactuator is turned off after deceleration from the final spin is complete and just before the additional 3 agitation motions ("shakeout" portion) are beginning. Deceleration from final spin is considered to be complete when the VFD is registering 0 Hz for actual frequency and the control is registering less than 10 RPM from the proximity sensor for 10 seconds. Both of these conditions must be satisfied for the Unlock Thermoatuator to turn on. Once powered this will push the safety block mechanism out of the way of the door lock gear motor lever.

## End of Cycle Circuit

Once the machine stopped, 3 things occur
1st) The beeper will signal for 5 seconds letting the user know that it is the end of the cycle
2nd) The control PCB signals the relay PCB to remove power from the red/brown wire at J4-6 which allows the door lock gear motor to unlock.
3rd) The main control PCB resets when the S1,S2,S3, and S5 opens and door is opened, allowing the display to reset when door is opened



WN0650XB-12EO2 Schematic


WN0650XB-12EO2 Diagram


WN0750XB-12EO1 Schematic



WN0750XB-12EO2 Schematic



WN0950XB-12EO1 Schematic



WN0950XB-12EO2 Schematic




WN1450XB-12EO1 Diagram


WN1450XB-12EO2 Schematic


WN1450XB-12EO2 Diagram


## WN0650XA-12EO

WN0750XA-12EO
WN0950XA-12EO
WN1450XA-12EO
208-240 Volts
60 Hz Single Phase or Three Phase
208-240 Volts 60 Hz Single Phase or Three Phase
208-240 Volts 60 Hz Single Phase or Three Phase
208-240 Volts 60 Hz Single Phase or Three Phase

| Key | Description | T-650 | T-750 | T-950 | T-1450 | QTY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| * | Hose, Water Supply $588^{\prime \prime}$ I. . . $\times 48^{\prime \prime}$ | 9990-027-013 | 9990-027-013 |  |  | 2 |
| * | Hose, Water Supply $5 / 8{ }^{\prime \prime}$ I.D. $\times 48^{\prime \prime}$ |  |  | $\begin{array}{\|l\|} \hline 9990-027- \\ 013 \end{array}$ | 9990-027- $013$ | 4 |
| * | Rubber Washer, Inlet Hose (furnished) | 8641-242-000 | 8641-242-000 |  |  | 2 |
| * | Strainer, Inlet Hose (furnished) | 9565-003-001 | $\begin{array}{\|l} \hline 9565-003- \\ 001 \end{array}$ |  |  | 2 |
| * | Rubber Washer, Inlet Hose (furnished) |  |  | $\begin{array}{\|l\|} \hline 8641-242- \\ 000 \end{array}$ | $\begin{aligned} & \hline 8641-242- \\ & 000 \end{aligned}$ | 4 |
| * | Strainer, Inlet Hose (furnished) |  |  | 9565-003- $001$ | 9565-003- <br> 001 | 4 |
| * | Bevel Washer for $3 / 4^{\prime \prime}$ bolt used in installations using angle iron bases | 8641-586-003 | 8641-586-003 | $\begin{array}{\|l\|} \hline 8641-586- \\ 003 \\ \hline \end{array}$ | 8641-586- <br> 003 | 4 |
| * | Sealing compound RTV-45 | 8538-151-002 | 8538-151-002 | $\left\lvert\, \begin{aligned} & 8538-151- \\ & 002 \end{aligned}\right.$ | $\begin{aligned} & 8538-151- \\ & 002 \\ & \hline \end{aligned}$ | 1 |
| * | Flow Restrictors (in dispenser ) | 9475-002-002 | 9475-002-002 |  | $\begin{aligned} & \hline 9475-002- \\ & 003 \\ & \hline \end{aligned}$ | 2 |
| * | Clamps to hold tub front to outer tub when installing tub front | Vise Grip \#11R | Vise Grip \#11R | $\begin{aligned} & \begin{array}{l} \text { Vise Grip } \\ \# 11 R \end{array} \end{aligned}$ | $\begin{aligned} & \begin{array}{l} \text { Vise Grip } \\ \text { \#11R } \end{array} \\ & \hline \end{aligned}$ | 1 |
| * | OPL Bearing \& Seal Kit | 9732-219-007 | 9732-219-007 | 9732-219- <br> 007 | 9732-219- <br> 009 | 1 |
|  | Key Service Lock (6324) | 6292-006-007 | $\begin{array}{\|l} \hline 6292-006- \\ 007 \end{array}$ | 6292-006- <br> 007 | 6292-006- <br> 007 | 1 |
|  | USB Thumb Drive W/Operator Booklets all sizes | 9150-045-002 | $\begin{array}{\|l\|} \hline 9150-045- \\ 002 \end{array}$ | $\begin{array}{\|l\|} \hline 9150-045- \\ 002 \\ \hline \end{array}$ | $\begin{aligned} & \hline 9150-045- \\ & 002 \\ & \hline \end{aligned}$ |  |



Section 8:

## Parts Data

WN0650XB-12EO

208-240 Volts

60 Hz Single Phase or Three Phase 60 Hz Single Phase or Three Phase 60 Hz Single Phase or Three Phase 60 Hz Single Phase or Three Phase

Kits, Assemblies, \& Common Parts

| Description | T-650 | T-750 | -950 | T-145 |
| :---: | :---: | :---: | :---: | :---: |
| Kit O-Series Steam 60 Hz | 9732-336-001 |  | 9732-336-001 | 9732-336-001 |
| Kit, O-Series Steam 50 Hz | 9732-336-002 |  | 9732-336-002 | 9732-336-002 |
| Kit - Door Lock Assy. \& Cam, replaces 9885-024-001 | 9732-347-001 | 9732-347-001 | 9732-347-001 | 9732-347-001 |
| Kit - Door cam replacement | 9732-346-002 | 9732-346-002 | 9732-346-002 | 9732-346-002 |
| Kit - Locking Pawl replacement | 9732-346-001 | 9732-346-001 | 9732-346-001 | 9732-346-001 |
| Kit - 8650-012-003 Lock with spacer | 9732-344-001 | 9732-344-001 | 9732-344-001 | 9732-344-001 |
| Kit - 3" Drain valve seal replacement | 9732-327-001 | 9732-327-001 | 9732-327-001 | 9732-327-001 |
| Drain Valve ${ }^{\prime \prime}$ | 9379-202-001 | 9379-202-001 | 9379-202-001 | 9379-202-001 |
| Water Valve (Dual) | 9379-183-012 | 9379-183-012 | 9379-183-012 | 9379-183-012 |
| Water Valve (Single) |  |  | 9379-194-001 | 9379-194-001 |
| Diaphram | 9118-049-003 | 9118-049-003 | 9118-049-003 | 9118-049-003 |
| Cylinder Plug (1.5" Plastic) | 9456-041-007 | 9456-041-007 | 9456-041-007 | 9456-041-007 |
| Electronic Pressure Switch | 9732-315-001 | 9732-315-001 | 9732-315-001 | 9732-315-001 |
| Delta E Drive Display | 9150-044-001 | 9150-044-001 | 9150-044-001 | 9150-044-001 |
| Breaking Resistor 160 Ohms |  | 9483-004-003 | 9483-004-003 | 9483-004-003 |
| Breaking Resistor 200 Ohms | 9483-004-002 |  |  |  |
| Transformer | 8711-017-001 | 8711-017-001 | 8711-017-001 | 8711-017-001 |
| Main Control Board | 9979-027-001 | 9979-027-001 | 9979-027-001 | 9979-027-001 |
| Data Cable | 9806-023-004 | 9806-023-004 | 9806-023-005 | 9806-023-005 |
| Door Lock Gear Motor Assembly | 9922-015-003 | 9922-015-003 | 9922-015-003 | 9922-015-003 |
| Door Lock Latching Assembly | 9885-031-001 | 9885-031-001 | 9885-031-001 | 9885-031-001 |
| Door Handle Only | 9244-091-001 | 9244-091-001 | 9244-091-001 | 9244-091-001 |
| Front Panel Screw | 9545-008-014 | 9545-008-014 | 9545-008-014 | 9545-008-014 |
| Front Panel Finisher Washer | 8641-585-001 | 8641-585-001 | 8641-585-001 | 8641-585-001 |
| Front Panel Spring Nut | 8640-442-001 | 8640-442-001 | 8640-442-001 | 8640-442-001 |
| Soap Box Screw | 9545-008-012 | 9545-008-012 | 9545-008-012 | 9545-008-012 |
| Soap Box Spring Nut | 8640-399-007 | 8640-399-007 | 8640-399-007 | 8640-399-007 |
| $5 / 16$ Hex Screw | 9545-008-026 | 9545-008-026 | 9545-008-026 | 9545-008-026 |
| Belt |  | 9040-076-008 | 9040-079-002 | 9040-079-006 |
| Top Lock Key \#6324 | 9306-025-001 | 9306-025-001 | 9306-025-001 | 9306-025-001 |
| Fuseholderassembly | 9200-001-002 | 9200-001-002 | 9200-001-002 | 9200-001-002 |
| Fuse-2a,slow, 1/4x1-1/4 | 8636-018-005 | 8636-018-005 | 8636-018-005 | 8636-018-005 |
| Fuse-1.5a,fast,1/1411-1/4 | 8636-018-001 | 8636-018-001 | 8636-018-001 | 8636-018-001 |
| Door Glass Gasket | 9206-419-001 | 9206-431-001 | 9206-431-001 | 9206-431-001 |

Wiring Harness Part \# by Model

| Key | Description | T-650 | T-750 | T-950 | T-1450 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| * | Cableassy-usb,snapin | 9806-024- <br> 001 | 9806-024- <br> 001 | $\begin{array}{\|c\|} \hline 9806-024- \end{array}$ <br> 001 | $\begin{array}{\|l\|l\|l\|l\|} \hline 9806-024- \\ 001 \end{array}$ | 1 |  |
|  | Cableassy-data,rs485,40" | 9806-023- <br> 004 | 9806-023- <br> 004 | $\begin{array}{\|l\|} \hline 9806-023- \\ 005 \end{array}$ | $\begin{array}{\|l} 9806-023- \\ 005 \end{array}$ | 1 |  |
| * | Wiringharness-doorlock | $\begin{array}{\|l\|} \hline 9627-936- \\ 003 \end{array}$ | 9627-936-001 | 9627-936-001 | $\begin{aligned} & \hline 9627-936- \\ & 004 \end{aligned}$ | 1 |  |
| * | Wiringharn-pwrtermblk/VFD/ps | 9627-932-001 | 9627-932-001 | 9627-932-001 | 9627-932-001 | 1 |  |
| * | Wiringharnes-15pin,,injection | 9627-935-001 | 9627-935-001 | 9627-935-001 | 9627-935-001 | 1 |  |
| * | Wiringharness-15pin,non-inj | 9627-934-001 | 9627-934-001 | 9627-934-001 | 9627-934-001 | 1 |  |
| * | Wireasy-blu,17" | $\begin{aligned} & 8220-063- \\ & 047 \end{aligned}$ |  |  |  | 1 | 寿 |
|  | Wireasy-blu, 23" |  | $\begin{aligned} & \hline 8220-063- \\ & 049 \end{aligned}$ | $\begin{array}{\|l\|} \hline 8220-063- \\ 049 \end{array}$ |  |  |  |
| * | Wireasy-blu, 29" |  |  |  | $\begin{array}{\|l\|} \hline 8220-063- \\ 051 \end{array}$ | 1 |  |
| * | Wireasy-blu/wht,17" | $\begin{array}{\|l\|} \hline 8220-063- \\ 048 \end{array}$ |  |  |  | 1 |  |
|  | Wireasy-blu/wht, 23" |  | $\begin{array}{\|l} \hline 8220-063- \\ 050 \end{array}$ | $\begin{array}{\|l} \hline 8220-063- \\ 050 \end{array}$ |  |  | \% |
|  | Wireasy-blu/wht, 29" |  |  |  | $\begin{aligned} & \hline 8220-063- \\ & 052 \end{aligned}$ |  |  |
| * | Wireasy-jumper,bik | 8220-117-002 | 8220-117-002 | 8220-117-002 | 8220-117-002 | 2 |  |
|  | Wireasy-brn,\#21,3" | $\left\lvert\, \begin{aligned} & 8220-057- \\ & 035 \end{aligned}\right.$ | $\begin{array}{\|l} 8220-057- \\ 035 \end{array}$ | $\begin{array}{\|l\|l} 8220-057- \\ 035 \end{array}$ | $\left\lvert\, \begin{aligned} & 8220-057- \\ & 035 \end{aligned}\right.$ | 1 |  |
|  | Wireasy-wht,3" | $\begin{array}{\|l\|} \hline 8220-057- \\ 036 \end{array}$ | $\begin{array}{\|l} 8220-057- \\ 036 \end{array}$ | $\begin{array}{\|l} \hline 8220-057- \\ 036 \end{array}$ | $\begin{array}{\|l} \hline 8220-057- \\ 036 \end{array}$ | 1 |  |
| * | Wireasy-jumper,wht/red | 8220-123-002 | 8220-123-002 |  |  | 1 |  |
| * | Wireasy-jumper,wht/red |  |  | 8220-119-003 | 8220-119-003 | 1 |  |
| * | Wireasy-red/pnk,8" |  |  | 8220-108-012 | 8220-108-012 | 1 |  |
| * | Wireasy-red/gry,8" |  |  | 8220-108-013 | 8220-108-013 | 1 |  |
| * | Wiringharn-ctr,,graph,can,wshr | 9627-922-002 | 9627-922-002 | 9627-922-002 | 9627-922-002 | 1 |  |
| * | Wiringharnes-main,T-650-1450 | 9627-933-001 | 9627-933-001 | 9627-933-001 | 9627-933-001 | 1 | $\begin{aligned} & \text { 융 } \\ & \frac{2}{2} \end{aligned}$ |
| * | Wiringharness-chemical,v2.0wshr | 9627-927-001 | 9627-927-001 | 9627-927-001 | 9627-927-001 | 1 |  |
| * | Wiringharness-drsw/VFD,stp | 9627-928-001 | 9627-928-001 | 9627-928-001 | $\begin{array}{\|l} \hline 9627-928- \\ 003 \end{array}$ | 1 |  |
| * | Wiringharness-cntrl/relay,v2.0 | 9627-921-001 | 9627-921-001 | 9627-921-001 | 9627-921-001 | 2 | $\begin{aligned} & \text { OU } \\ & \frac{0}{6} \\ & \frac{1}{N} \end{aligned}$ |
| * | Wiringharness-ps, t-650-1450 | 9627-926-001 | 9627-926-001 | 9627-926-001 | 9627-926-001 | 1 |  |
| * | Wiringharness-pwrsup,v2.0wshr | 9627-923-001 | 9627-923-001 | 9627-923-001 | 9627-923-001 | 1 |  |
| * | Wiringharness-thermist,v2.0wsh | 9627-930-001 | 9627-930-001 | 9627-930-001 | 9627-930-001 | 1 |  |
| * | Wireasy,2.0 | 8220-158-017 | 8220-158-019 | 8220-158-025 | 8220-158-029 | 1 |  |
| * | Wireasy-jumper,v2.0,relaypcb | 8220-159-005 | 8220-159-005 | 8220-159-005 | 8220-159-005 | 1 |  |
| * | Wireasy-jumper,v2.0,relaypcb | $\begin{array}{\|l} \hline 8220-159- \\ 006 \end{array}$ | $\begin{aligned} & 8220-159- \\ & 006 \end{aligned}$ | $\begin{array}{\|l\|} \hline 8220-159- \\ 006 \end{array}$ | $\begin{aligned} & \hline 8220-159- \\ & 006 \end{aligned}$ | 1 |  |
| * | Wireasy-org,71/2" | $\begin{array}{\|l} \hline 8220-062- \\ 052 \end{array}$ | $\begin{aligned} & 8220-062- \\ & 052 \\ & \hline \end{aligned}$ | $\begin{array}{\|l\|} \hline 8220-062- \\ 052 \end{array}$ | $\begin{array}{\|l} \hline 8220-062- \\ 052 \end{array}$ | 1 |  |
| * | Wireasy-wht/org,9" | $\begin{aligned} & \hline 8220-062- \\ & 053 \end{aligned}$ | $\begin{aligned} & 822-062- \\ & 053 \end{aligned}$ | $\begin{array}{\|l} \hline 8220-062- \\ 053 \end{array}$ | $\begin{aligned} & \hline 8220-062- \\ & 053 \end{aligned}$ | 1 | 7 |
| * | Wireasy-red,71/2" | $\begin{array}{\|l} \hline 8220-062- \\ 059 \end{array}$ | 8220-062- <br> 059 | $\begin{array}{\|l\|} \hline 8220-062- \\ 059 \end{array}$ | $\begin{aligned} & \hline 8220-062- \\ & 059 \end{aligned}$ | 2 | 䨞 |
| * | Wireasy-org,71/2" | $\begin{aligned} & \hline 8220-062- \\ & 052 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 8220-062- \\ & 052 \\ & \hline \end{aligned}$ | $\begin{aligned} & \hline 8220-062- \\ & 052 \\ & \hline \end{aligned}$ | $\begin{array}{\|l} \hline 8220-062- \\ 052 \\ \hline \end{array}$ | 2 | - |




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


Part\＃8533－110－001 2／23

Top Mount Detergent Dispenser

| Key | Description | T－650 | T－750 | T－950 | T－1450 | QTY |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Dispenser Soap | $\begin{array}{\|l\|} \hline 9122-005- \\ 004 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 9122-005- \\ 004 \end{array}$ | 9122－005－004 |  | 1 |  |
| 2 | Gasket Dispenser | $\begin{array}{\|l\|} \hline 9206-416- \\ 001 \\ \hline \end{array}$ | $\begin{aligned} & \hline 9206-416- \\ & 001 \end{aligned}$ | 9206－416－001 |  | 1 |  |
| ＊ | Hose，Dispenser to tub | $\begin{array}{\|l} \hline 9242-450- \\ 003 \end{array}$ | $\begin{aligned} & \hline 9242-450- \\ & 001 \end{aligned}$ | 9242－450－001 |  | 1 |  |
| ＊ | Clamp | 8654－117－008 | 8654－117－008 | 8654－117－008 |  | 2 |  |
| ＊ | Nut，Spring ss | $\begin{array}{\|l\|} \hline 8640-399- \\ 007 \end{array}$ | $\begin{aligned} & \hline 8640-399- \\ & 007 \end{aligned}$ | 8640－399－007 |  | 4 |  |
| ＊ | Flow resistors | $\begin{array}{\|l\|} \hline 9475-002- \\ 002 \end{array}$ | $\begin{array}{\|l\|} \hline 9475-002- \\ 002 \end{array}$ | 9475－002－002 |  | 2 | 8 |
| ＊ | Flow resistors Optional（Smaller） | $\begin{array}{\|l\|} 9475-002- \\ 003 \end{array}$ | $\begin{array}{\|l\|} \hline 9475-002- \\ 003 \end{array}$ | 9475－002－003 |  | 2 |  |
| 3 | Door，Dispenser | $\begin{array}{\|l\|} \hline 9108-095- \\ 005 \end{array}$ | $\begin{array}{\|l} \hline 9108-095- \\ 005 \end{array}$ | 9108－095－005 |  | 1 | 으읃 |
| 4 | Pin，Plain | 9451－191－001 | 9451－191－001 | 9451－191－001 |  | 2 |  |
| ＊ | Post，Door Mounting | $\begin{array}{\|l\|} \hline 9467-025- \\ 001 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 9467-025- \\ 001 \end{array}$ | 9467－025－001 |  | 2 |  |
| 6 | Screw－8B $\times 1 / 2$ | $\begin{array}{\|l\|} \hline 9545-045- \\ 002 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 9545-045- \\ 002 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 9545-045- \\ 002 \\ \hline \end{array}$ |  | 4 | $\stackrel{\circ}{\circ}$ |
|  | Screw，SS Dispenser，10B $\times 1$ | $\begin{array}{\|l\|} \hline 9545-008- \\ 012 \\ \hline \end{array}$ | $\begin{aligned} & 9545-008- \\ & 012 \end{aligned}$ | 9545－008－012 |  | 4 |  |
| ＊ | Washer Flat 5／16 | 8641－581－008 | 8641－581－008 | 8641－581－008 | 8641－581－008 | 1 |  |
| 8 | Plastic Sleeve，Locator | 9355-001- <br> 001 | $\begin{aligned} & \hline 9355-001- \\ & 001 \end{aligned}$ | 9355－001－001 | 9355－001－001 | 2 | 릉 |
| ＊ | Catch，Top Panel | 9086-017- <br> 001 |  |  |  | 2 | ह⿳亠丷厂犬 \% |
|  | Lock，Top（w／Key） | $\begin{array}{\|l\|} \hline 8650-012- \\ 003 \end{array}$ |  |  |  | 1 |  |
| ＊ | Lock，Top（w／Key） |  | $\begin{aligned} & \hline 8650-012- \\ & 003 \\ & \hline \end{aligned}$ | 8650－012－003 | 8650－012－003 | 2 | ， |
|  | Channel－support，dispenser | 9081－108－001 | 9081－108－002 | 9081－108－001 |  | 1 |  |
|  | Screw－hxwshrhdundct，\＃10bx1／2 | $\begin{array}{\|l} \hline 9545-008- \\ 026 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 9545-008- \\ 026 \end{array}$ | $\begin{array}{\|l\|} \hline 9545-008- \\ 026 \end{array}$ |  | 1 |  |
|  | Screw－hxwshdsl，10bx1／4 | $\begin{array}{\|l} \hline 9545-008- \\ 001 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 9545-008- \\ 001 \\ \hline \end{array}$ | $\begin{array}{\|l\|} \hline 9545-008- \\ 001 \\ \hline \end{array}$ |  | 2 | 曾 |


| Key | Description | T-650 | T-750 | T-950 | T-1450 | QTY |
| :---: | :--- | :--- | :--- | :--- | :--- | :---: |
| 9 | Bolt,\#10-32 $\times 11 / 4^{\prime \prime S S}$ |  |  |  | $9545-012-026$ | 6 |
| 10 | Special Washer, Rubber |  |  |  | $8641-222-000$ | 6 |
| $*$ | Tub Front |  |  |  | $9974-012-001$ | 1 |
| 11 | Washer-Flat, $1 / 4$ |  |  |  | $8641-581-018$ | 12 |
| 12 | Nut, \#10-32UNF |  |  |  | $8640-413-002$ | 6 |
| 13 | Spacer Plastic \#10x1/2 |  |  |  |  | 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 | Softener siphon tube (plastic) |  |  |  | $9574-252-002$ | 1 |
| $*$ | Flow resistors |  |  |  |  | $9475-002-003$ |
| 20 | Washer Dispenser Label Black |  |  |  |  |  |
| $*$ | Kit to Remove Front Soap Dish |  |  |  | $8502-745-001$ | 1 |

Chemical Injection Only No Front Mount Detergent Dispenser


| $\frac{y}{0}$ | Rear View Access Part \# by Model |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 8 | Key | Description | T-650 | T-750 | T-950 | T-1450 |  |
|  | 1 | Drive Motor, 3 Phase (Inverter duty) | 9376-319-001 | 9376-329-001 | 9376-329-001 | 9376-328-001 | 1 |
|  | 2 | Rod, Motor Mtg | 9497-222-004 | 9497-222-004 | 9497-222-004 | 9497-222-004 | 1 |
|  | * | Collar, Shaft (w/set screws) |  |  |  | 9076-052-002 | 2 |
|  | 3 | New motor bushing support | 9053-082-001 | 9053-082-001 | 9053-082-001 | 9053-082-001 | 2 |
|  | 4 | Clamp for motor bushing | 8654-117-019 | 8654-117-019 | 8654-117-019 | 8654-117-019 | 2 |
|  | 5 | Pulley, Motor | 9453-170-003 | 9453-179-001 | 9453-175-002 | 9453-175-002 | 1 |
|  | * | Set Screw 5/16 18-7/8 | 9545-028-015 |  |  |  |  |
|  | * | Split TaperBushing (motor pulley) |  | 9053-077-001 | 9053-077-001 | 9053-077-001 | 2 |
|  | * | Screw taper bushing 1/4-20x1 |  | 9545-018-024 | 9545-018-024 | 9545-018-024 | 3 |
|  | 6 | Bolt, Eye (1/4"-20x1/2") | 9545-055-001 | 9545-055-001 | 9545-055-001 | 9545-055-001 | 1 |
|  | * | Nut, $1 / 4$ Elastic Stop | 8640-414-003 | 8640-414-003 | 8640-414-003 | 8640-414-003 | 1 |
|  | * | Link (open end) |  | 9341-046-001 | 9341-046-001 |  | 1 |
|  | 7 | Chain (Spring Tension) |  | 9099-012-003 | 9099-012-003 |  | 1 |
|  | 8 | Spring, Belt Tension | 9534-151-000 | 9534-151-000 | 9534-151-000 | 9534-151-000 | 1 |
|  | * | Bracket Belt Tension | 9029-206-001 |  |  | 9029-206-002 | 1 |
|  | * | Lock Washer, Exttooth, 5/16 |  |  |  | 8641-582-009 |  |
|  | 9 | Pulley, Driven | 9453-173-002 | 9453-173-002 | 9453-176-006 | 9453-176-006 | 1 |
|  | * | Tolerance Ring | 9487-234-004 | 9487-234-004 |  |  | 1 |
|  | * | Screw, 5/8"-11 x $2^{\prime \prime}$ | 9545-060-004 | 9545-060-004 |  |  | 1 |
|  | * | Washer-Flat, 5/8" | 8641-582-032 | 8641-582-032 |  |  | 1 |
|  | * | Lockwasher, 5/8" | 8641-581-018 | 8641-581-018 |  |  | 1 |
|  | 10 | Bolt, 3/8"-16 x $2^{\prime \prime}$ |  |  | 9545-029-011 | 9545-029-011 | 3 |
|  | 11 | Washer, $3 / 8^{\prime \prime}$ |  |  | 8641-582-003 | 8641-582-003 | 3 |
| ód | * | Bushing Taperlock (Driven) |  |  | 9053-078-002 | 9053-078-002 | 1 |
|  | 12 | Washer-Flat . $675 \times 2-1 / 2 \times 1 / 4$ |  |  | 8641-581-043 |  | 1 |
|  | 13 | Lockwasher-Exttooth, 5/8 | 8641-582-018 |  | 8641-582-018 |  | 1 |
| $\begin{aligned} & \text { 응 } \\ & \text { 응 } \\ & \hline 0 \end{aligned}$ | 14 | Bolt, 5/8-11x1 1/2 |  |  | 9545-060-001 |  | 1 |
|  | 12 | Washer-Flat, . $781 \times 2 \mathrm{l} 1 / 2 \times 1 / 4$ |  |  |  | 8641-581-044 | 1 |
|  | 13 | Lockwasher-Exttooth, 3/4 |  |  |  | 8641-582-020 | 1 |
|  | 14 | Bolt, 3/4-10-1 1/2 |  |  |  | 9545-057-004 | 1 |
|  | 15 | Drive Belt |  |  | 9040-079-002 | 9040-079-006 | 1 |
|  | 15 | Drive Belt | 9040-076-005 | 9040-076-008 |  |  | 2 |
|  | * | Panel Assy., Back | 9989-567-001 | 9989-455-001 | 9989-526-001 |  | 1 |
|  | * | Panel Assy,. Back, Lower |  |  |  | 9454-872-001 | 1 |
|  | * | Panel Assy., Back, Upper |  |  |  | 9454-873-001 | 1 |
|  | * | Screw Panel Mtg.\#10Bx1/2" | 9545-008-026 | 9545-008-026 | 9545-008-026 | 9545-008-026 | AR |
|  | * | Nut, Spring | 8640-399-008 | 8640-399-008 | 8640-399-008 | 8640-399-008 | AR |
|  | * | Nut, Spring | 8640-442-001 | 8640-442-001 | 8640-442-001 | 8640-442-001 | AR |
|  | * | Screw, To Base-1/4" $\times 3 / 4^{\prime \prime}$ | 9545-030-002 | 9545-030-002 | 9545-030-002 | 9545-030-002 | AR |
|  | 16 | Injection- tube assy | 9883-005-001 | 9883-005-001 | 9883-012-001 | 9883-011-001 | 1 |
|  | * | Inlet Cap |  |  | 0935-135-001 |  |  |
|  | * | Hose, Injection Tube to Tub | 9242-461-001 | 9242-461-001 | 9242-461-001 | 9242-461-001 | 1 |
|  | * | Clamp, Injection Hose | 8654-117-014 | 8654-117-014 | 8654-117-014 | 8654-117-014 | 2 |
| $\begin{aligned} & \text { 윤 } \\ & \text { 응 } \end{aligned}$ | * | Cap-injectorassembly | 0935-127-001 | 0935-127-001 | 0935-127-001 | 0935-127-001 | 1 |
|  | * | Hose-injectionasy,2"diameter | 9242-462-001 |  |  |  | 1 |
|  | * | Clamp-hose | 8654-117-008 |  |  |  | 1 |
|  | * | Clamp-hose,ssworm | 8654-117-009 |  |  |  | 1 |
| $(108)$ |  |  |  |  |  |  |  |



| $y$000888 | Cylinder, Seals \& Bearings Part \# by Model |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Key | Description | T-650 | T-750 | T-950 | T-1450 |  |
|  |  | Bearings and Seal Kit | 9732-219-007 | 9732-219-007 | 9732-219-007 | 9732-219-009 | 1 |
| $\begin{array}{r} y \\ 2 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ 0 \\ \hline \end{array}$ | 1 | Housing, Bearing- Assembly (items \#2-\#6) | 9803-187-001 | 9803-187-001 | 9803-187-001 | 9803-209-001 | 1 |
|  | 2 | Housing, Bearing | 9241-181-004 | 9241-181-004 | 9241-181-004 | 9241-195-003 | 1 |
|  | 3 | Bearing, Front (LARGE) | 9036-159-005 | 9036-159-005 | 9036-159-005 | 9036-162-002 | 1 |
|  | 4 | Bearing, Rear (SMALL) | 9036-159-006 | 9036-159-006 | 9036-159-006 | 9036-162-001 | 1 |
|  | 5 | Spacer, Bearing | 9538-170-001 | 9538-170-001 | 9538-170-001 | 9538-185-001 | 1 |
|  | 6 | Ring, Bearing Retainer | 9487-238-004 | 9487-238-004 | 9487-238-004 | 9487-238-004 | 1 |
|  | 7 | Tub Assembly | 9930-169-001 | 9930-148-002 | 9930-158-001 | 9930-155-001 | 1 |
|  | 8 | Seal, Small V85A | 9532-140-007 | 9532-140-007 | 9532-140-007 |  | 1 |
|  | 8 | Seal, Small V95A |  |  |  | 9532-140-012 | 1 |
|  | 9 | Seal, Large V140A | 9532-140-008 | 9532-140-008 | 9532-140-008 | 9532-140-008 | 1 |
|  | 10 | Ring, Seal Mounting | 9950-052-001 | 9950-052-001 | 9950-052-001 | 9950-062-001 | 1 |
|  | 11 | Tub Back Ring Seal | 9487-266-001 | 9487-266-001 | 9487-266-001 | 9487-276-001 | 1 |
|  |  | Mating Ring Seal | 9487-261-004 | 9487-261-004 | 9487-261-004 | 9487-261-005 | 1 |
|  | 12 | Bolt, Tub End of Bearing Housing (7/16-14x1), Bolt from inside Tub | 9545-059-004 | 9545-059-004 | 9545-059-004 | 9545-059-004 | 6 |
|  | 13 | Washer, Flat | 8641-581-034 | 8641-581-034 | 8641-581-034 | 8641-581-034 | 6 |
|  | 14 | Screw-Hex Cap, $3 / 4^{\prime \prime}-10 \times 3$ " (Bearing Housing to Frame) | 9545-057-002 | 9545-057-002 | 9545-057-002 |  | 6 |
|  | 14 | $\begin{aligned} & \text { Screw-Hex Cap, } 7 / 8^{\prime \prime}-10 \times 3 \text { " (Bearing Housing to } \\ & \text { Frame) } \end{aligned}$ |  |  |  | 9545-066-001 | 6 |
|  | 15 | Washers Spherical 3/4 (Male half) (Bearing Housing to Frame) | 8641-588-001 | 8641-588-001 | 8641-588-001 |  | 6 |
|  | 15 | Washers Spherical 7/8 (Male half) (Bearing Housing to Frame) |  |  |  | 8641-588-003 | 6 |
| 능 | 16 | Washers Spherical 3/4 (Female half) (Bearing Housing to Frame) | 8641-588-002 | 8641-588-002 | 8641-588-002 |  | 6 |
|  | 16 | Washers Spherical 7/8 (Female half) (Bearing Housing to Frame) |  |  |  | 8641-588-004 | 6 |
| 응 <br> 융 <br> 6 | 17 | Nut 3/4"-10 (Bearing Housing to Frame) | 8640-418-003 | 8640-418-003 | 8640-418-003 |  | 6 |
|  | 17 | Nut $718{ }^{\prime \prime}-9$ (Bearing Housing to Frame |  |  |  | 8640-437-001 | 6 |
|  | 18 | Pulley, Driven | 9453-173-002 | 9453-173-002 | 9453-176-006 | 9453-176-006 | 1 |
|  | * | Tolerance Ring | 9487-234-004 | 9487-234-004 |  |  | 1 |
|  | * | Screw, $5 / 8{ }^{\prime \prime}-11 \times 2^{\prime \prime}$ | 9545-060-004 | 9545-060-004 |  |  | 1 |
|  | * | Washer-Flat, 5/8" | 8641-581-032 | 8641-581-032 |  |  | 1 |
|  | * | Washer-Flat, 5/8" | 8641-582-018 | 8641-582-018 |  |  | 1 |
|  | 19 | Bolt, 3/8"-16 x $2^{\prime \prime}$ |  |  | 9545-029-011 | 9545-029-011 | 3 |
|  | 20 | Washer, 3/8" |  |  | 8641-582-003 | 8641-582-003 | 3 |
| $\begin{aligned} & \frac{4}{8} \\ & \frac{5}{0} \\ & \frac{0}{0} \\ & \hline 0 \end{aligned}$ | 21 | Bushing Taperlock (Driven \& Large |  |  | 9053-078-002 | 9053-078-002 | 1 |
|  | 22 | Washer-Flat . $675 \times 2-1 / 2 \times 1 / 4$ |  |  | 8641-581-043 |  | 1 |
|  | 23 | Lockwasher-Exttooth, 5/8 |  |  | 8641-582-018 |  | 1 |
|  | 24 | Bolt, 5/8-11x1 1/2 |  |  | 9545-060-001 |  | 1 |
|  | 22 | Washer-Flat, . $781 \times 2 \mathrm{l} 1 / 2 \times 1 / 4$ |  |  |  | 8641-581-044 | 1 |
|  | 23 | Lockwasher-Exttooth, 3/4 |  |  |  | 8641-582-020 | 1 |
|  | 24 | Bolt, 3/4-10-1 1/2 |  |  |  | 9545-057-004 | 1 |
|  | 25 | Tub \& Cylinder Assy | 9869-035-004 | 9869-025-005 | 9869-027-004 | 9869-026-001 | 1 |



| Key | Description | All Models | QTY |
| :---: | :---: | :---: | :---: |
| 33 | Lock Assy, Complete (\#1-22) (includes \#1 thru \#22) | 9885-031-001 | 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 1 $^{\prime \prime}$ | 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 $5 / 8{ }^{\text {n }}$ | 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 1 11/8" | 9545-020-003 | 2 |
| 21 | Nut, Twin 4-40 | 8640-401-001 | 1 |
| * | Spacer Sensor | 9538-182-001 | * |
| 22 | Pin, Dowel (for door cam) | 9451-181-004 | 1 |
| * | Shim, Door Lock, Thin | 9552-037-001 | AR |
| * | Screw, Lock mtg $1 / 4^{\prime \prime}-20 \times 3 / 4^{\prime \prime}$ | 9545-018-014 | 3 |
| * | Lockwasher 114" Ext tooth | 8641-582-007 | 3 |
| * | Door Stud Pin, 3/16" $\times 3 / 4^{\prime \prime}$ | 9451-181-004 | 1 |





| Key | Description | T-650 | T-750 | T-950 | T-1450 | ¢0 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| * | Shaft Assembly (includes 11-13) | 9913-136-001 | 9913-136-001 | 9913-136-001 | 9913-136-001 |  |
| 11 | Shaft, Door Locking | 9537-195-002 | 9537-195-002 | 9537-195-002 | 9537-195-002 |  |
| 12 | Cam, Locking | 9095-051- <br> 001 | $\begin{array}{\|l\|} \hline 9095-051- \\ 001 \end{array}$ | $\begin{array}{\|l\|} \hline 9095-051- \\ 001 \end{array}$ | $\begin{array}{\|l\|} \hline 9095-051- \\ 001 \end{array}$ | - |
| 13 | Pin, Groove (1 1/4) | 9451-181-005 | 9451-181-005 | 9451-181-005 | 9451-181-005 |  |
| 14 | Pin, Groove (3/4) | 9451-181-004 | 9451-181-004 | 9451-181-004 | 9451-181-004 |  |
| 15 | Spring, Lock Cam | $\begin{array}{\|l\|} \hline 9534-360- \\ 002 \end{array}$ | $\begin{array}{\|l\|} \hline 9534-360- \\ 002 \end{array}$ | $\begin{array}{\|l\|} \hline 9534-360- \\ 002 \end{array}$ | $\begin{array}{\|l\|} \hline 9534-360- \\ 002 \end{array}$ |  |
| 16 | Handle, Door | $\begin{array}{\|l\|l} 9244-091- \\ 001 \end{array}$ | $\begin{array}{\|l\|} \hline 9244-091- \\ 001 \end{array}$ | $\begin{array}{\|l\|l\|} \hline 9244-091- \\ 001 \end{array}$ | $\begin{array}{\|l\|} \hline 9244-091- \\ 001 \end{array}$ |  |
| 17 | Pin, Door Handle (groove) | 9451-181-005 | 9451-181-005 | 9451-181-005 | 9451-181-005 |  |



Water Inlet Part \# by Model



| Key | Desaripition | T-650 | ${ }^{\text {T.750 }}$ | T-950 | T-1450 | QTY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Single Coil Water Valve MuelIer |  |  | 9379-194-001 | 9379-194-001 | 1 |
| 1 | Valve Water Body Complete (no coil) |  |  | 9379-194-002 | 9379-194-002 | 1 |
| 2 | Diaphragm Mueller |  |  | 9118-055-001 | 9118-055-001 | 1 |
| 3 | Filter Mueller |  |  | 9183-046-001 | 9183-046- <br> 001 | 1 |
| 4 | Coil Mueller |  |  | 9089-051-001 | 9089-051-001 | 1 |



| $\begin{aligned} & 8 \\ & \hline 0 \\ & 0 \\ & 0 \\ & 8 \\ & 8 \\ & 8 \end{aligned}$ | Notes |
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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 |




| $\begin{aligned} & y \\ & 0 \\ & 0 \\ & 0 \\ & 8 \\ & 8 \end{aligned}$ | Chassis and Drain Part \# by Model |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Key | Description | T-650 | T-750 | T-950 | T-1450 |  |
|  | 1 | Base Assy,Frame | 9945-143-002 | 9945-112-002 | 9945-155-002 | 9945-133-002 | 1 |
|  | 2 | Outer Tub Assy. | 9930-169-001 | 9930-148-002 | 9930-158-001 | 9930-155-001 | 1 |
|  | * | Tub \& Cylinder Assy. | 9869-035-004 | 9869-025-005 | 9869-027-004 | 9869-026-001 | 1 |
|  | 3 | Tub Front | 9974-014-002 | 9974-011-001 | 9974-011-001 | 9974-012-001 | 1 |
|  | * | Gasket, Tub Front | 9206-421-004 | 9206-421-002 | 9206-421-002 | 9206-421-003 | 1 |
|  | 4 | Ring Assy, Tub Mtg-Front Clamp | 9950-063-001 | 9950-055-001 | 9950-055-001 | 9950-061-001 | 1 |
|  | 5 | Bolt, Top Front Ring 3/8"-16 $\times 3^{\prime \prime}$ | 9545-029-009 | 9545-029-009 | 9545-029-009 | 9545-029-009 | 1 |
|  | 6 | Nut 3/8"-16 | 8640-415-001 | 8640-415-001 | 8640-415-001 | 8640-415-001 | 1 |
|  | 7 | Bolt, $1 / 2^{\prime \prime}-13 \times 2^{\prime \prime}$ Tub feet to base | 9545-017-013 | 9545-017-013 | 9545-017-013 | 9545-017-013 | 2 |
|  | 8 | Nut, Wizloc $1 / 2^{\prime \prime} \times 13$ | 8640-417-005 | 8640-417-005 | 8640-417-005 | 8640-417-005 | 2 |
|  | 9 | Washer, Flat $1 / 2^{\prime \prime}$ | 8641-581-026 | 8641-581-026 | 8641-581-026 | 8641-581-026 | 2 |
|  | 10 | Hose, Tub to Drain Valve | 9242-464-001 | 9242-456-001 | 9242-459-001 | 9242-459-001 | 1 |
|  | 11 | Clamp, Hose (Tub to Drain Valve) | 8654-117-014 | 8654-117-014 | 8654-117-014 | 8654-117-014 | 2 |
|  | 12 | Valve, Drain | 9379-202-001 | 9379-202-001 | 9379-202-001 | 9379-202-001 | 1 |
|  | * | Screw, Valve to Base 1/4ABx3/4 | 9545-030-002 | 9545-030-002 | 9545-030-002 | 9545-030-002 | 2 |
|  | * | Washer, Flat 1/4 | 8641-581-018 | 8641-581-018 | 8641-581-018 | 8641-581-018 | 2 |
|  | 13 | Hose, Drain Valve to Tube | 9242-457-001 | 9242-457-001 | 9242-457-001 | 9242-457-002 | 1 |
|  | * | Clamp, Hose (Drain Valve to Tube | 8654-117-014 | 8654-117-014 | 8654-117-014 | 8654-117-008 | 2 |
|  | 14 | Tube Assy, Drain | 9915-124-002 | 9915-124-002 | 9915-120-004 | 9915-129-002 | 1 |
|  | 15 | Clamp, Hose (Tube to Frame Bracket) | 8654-117-014 | 8654-117-014 | 8654-117-014 | 8654-117-014 | 1 |
|  | * | Bracket, Drain Tube |  |  | 9029-162-002 |  | 1 |
|  | * | Screw Tube (Bracket to Base 1/4Bx3/4) | 9545-030-002 | 9545-030-002 | 9545-030-002 | 9545-030-002 | 2 |
|  | 16 | Hose, Overflow Tub To Drain Tube | 9242-449-002 | 9242-449-003 | 9242-449-003 | 9242-449-005 | 1 |
| 응응 | * | Clamp, Hose | 8654-117-018 | 8654-117-018 | 8654-117-018 | 8654-117-018 | 2 |
|  | 17 | Tube, Suds overflow | 9242-463-004 | 9242-463-004 | 9242-463-004 | 9242-463-006 | 1 |
|  | * | Clamp, Hose | 8654-117-008 | 8654-117-008 | 8654-117-008 | 8654-117-008 | 2 |
| 으웅 | 18 | Hose, Pressure switch | 9242-175-002 | 9242-175-007 | 9242-175-007 | 9242-175-004 | 1 |
|  | * | Clamp, Overflow Hose | 8654-117-015 | 8654-117-015 | 8654-117-015 | 8654-117-015 | 1 |
|  | * | Anchor-wiretie,adhesive | 9004-007-001 | 9004-007-001 | 9004-007-001 | 9004-007-001 | 1 |
|  | * | Strap-tie,adjustableratchet | 9544-040-001 | 9544-040-001 | 9544-040-001 | 9544-040-001 | 1 |
|  | 19 | Bracket-switch,prox | 9029-309-001 | 9029-309-001 | 9029-309-001 | 9029-309-001 | 1 |
|  | * | Washer-flat | 8641-581-040 | 8641-581-040 | 8641-581-040 | 8641-581-040 | 1 |
|  | * | Screw-hxcap,5/8-11x3/4 | 9545-060-005 | 9545-060-005 | 9545-060-005 | 9545-060-005 | 1 |
|  | 20 | Switch-prox,18mm,shld,60" | 9539-498-001 | 9539-498-001 | 9539-498-001 | 9539-498-001 | 1 |
|  | 21 | Sensorassembly-thermistor,10k | 9501-005-002 | 9501-005-002 | 9501-005-002 | 9501-005-002 | 1 |
|  | * | Sealer-pipe | 8538-132-000 | 8538-132-000 | 8538-132-000 | 8538-132-000 | 1 |



| Key | Description | T-650 | T-750 | T-950 | T-1450 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Contrlsasy-trgh, opl,60hz | 9857-243-001 | 9857-244-001 | 9857-245-001 | 9857-246-001 | 1 |
| 1 | Troughassy-control | 9839-019-001 | 9839-019-001 | 9839-019-001 | 9839-019-001 | 1 |
| 2 | Transformer-dualsecondary | 8711-017-001 | 8711-017-001 | 8711-017-001 | 8711-017-001 | 1 |
| * | Screw-hxwshrhdundct,\#10bx1/2 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 4 |
| * | Lockwasher \#10 | 8641-582-006 | 8641-582-006 | 8641-582-006 | 8641-582-006 | 4 |
| 3 | Terminalblockassembly-power | 9897-026-005 | 9897-026-005 | 9897-026-005 | 9897-026-005 | 2 |
| * | Screw-panhdcr,\#8abx1/2 | 9545-045-012 | 9545-045-012 | 9545-045-012 | 9545-045-012 | 4 |
|  | Wiringharn-ctrr,graph, can,wshr | 9627-922-002 | 9627-922-002 | 9627-922-002 | 9627-922-002 | 1 |
| 4 | Pcbassy-maincontrol | 9799-027-001 | 9799-027-001 | 9799-027-001 | 9799-027-001 | 1 |
| 5 | Pcbassy-relay | 9799-028-001 | 9799-028-001 | 9799-028-001 | 9799-028-001 | 2 |
| * | Screw-hxwshrhdundct,\#10bx1/2 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 12 |
| 6 | Wiringharnes-main,t-650-1450 | 9627-933-001 | 9627-933-001 | 9627-933-001 | 9627-933-001 | 1 |
| 7 | Wiringharness-chemical,v2.0wshr | 9627-927-001 | 9627-927-001 | 9627-927-001 | 9627-927-001 | 1 |
| 8 | Wireasy,2.0, | 8220-158-017 | 8220-158-019 | 8220-158-025 | 8220-158-029 | 1 |
| 9 | Wiringharness-drsw/vfd, stp | 9627-928-001 | 9627-928-001 | 9627-928-001 | 9627-928-003 | 1 |
| 10 | Clamp-cable,3/16" | 8654-125-005 | 8654-125-005 | 8654-125-005 | 8654-125-005 | 1 |
|  | Screw-hxwshrhd,8bx1/4 | 9545-045-001 | 9545-045-001 | 9545-045-001 | 9545-045-001 | 1 |
|  | Wiringharness-cntr//relay,v2.0 | 9627-921-001 | 9627-921-001 | 9627-921-001 | 9627-921-001 | 2 |
| 11 | Wireasy-jumper,v2.0,relaypcb | 8220-159-005 | 8220-159-005 | 8220-159-005 | 8220-159-005 | 1 |
| 12 | Wireasy-jumper,v2.0,relaypcb | 8220-159-006 | 8220-159-006 | 8220-159-006 | 8220-159-006 | 1 |
| * | Screw-hxwsrhdsl,10-32ttx1/2grn | 9545-008-027 | 9545-008-027 | 9545-008-027 | 9545-008-027 | 2 |
| * | Lockwasher \#10 | 8641-582-006 | 8641-582-006 | 8641-582-006 | 8641-582-006 | 2 |
| * | Standoff-twistlok | 9527-002-002 | 9527-002-002 | 9527-002-002 | 9527-002-002 | 4 |
| 13 | Sensorassy-pressure,2level | 9732-315-001 | 9732-315-001 | 9732-315-001 | 9732-315-001 | 1 |
| * | Support-pcb,3/8",edge Holding | 9548-285-001 | 9548-285-001 | 9548-285-001 | 9548-285-001 | 4 |
| 14 | Wiringharness-ps,t-650-1450 | 9627-926-001 | 9627-926-001 | 9627-926-001 | 9627-926-001 | 1 |
| * | Wireasy-org,71/2" | 8220-062-052 | 8220-062-052 | 8220-062-052 | 8220-062-052 | 1 |
|  | Wireasy-wht/org,9" | 8220-062-053 | 8220-062-053 | 8220-062-053 | 8220-062-053 | 1 |
| 15 | Fuseholderassembly | 9200-001-002 | 9200-001-002 | 9200-001-002 | 9200-001-002 | 2 |
| * | Fuse-2a,slow, 1/4*1-1/4 | 8636-018-005 | 8636-018-005 | 8636-018-005 | 8636-018-005 | 1 |
| * | Fuse-1.5a,fast,1/141-1/4 | 8636-018-001 | 8636-018-001 | 8636-018-001 | 8636-018-001 | 1 |
|  | Label-fuse, 2.5a | 8502-716-002 | 8502-716-002 | 8502-716-002 | 8502-716-002 | 1 |
| * | Label-fuse,1.5a | 8502-716-001 | 8502-716-001 | 8502-716-001 | 8502-716-001 | 1 |
| * | Wireasy-red,71/2" | 8220-062-059 | 8220-062-059 | 8220-062-059 | 8220-062-059 | 2 |
| * | Wireasy-org,71/2" | 8220-062-052 | 8220-062-052 | 8220-062-052 | 8220-062-052 | 2 |
| * | Label-waterlevelsettings,opl | 8502-775-001 | 8502-775-001 | 8502-775-001 | 8502-775-001 | 1 |
| 16 | Elecperiph-powersupply,12v | 9150-054-001 | 9150-054-001 | 9150-054-001 | 9150-054-001 | 1 |
|  | Screw-pnhdcr,6bx3/8 | 9545-031-005 | 9545-031-005 | 9545-031-005 | 9545-031-005 | 2 |
| 7 | Wiringharness-pwrsup,v2.0wshr | 9627-923-001 | 9627-923-001 | 9627-923-001 | 9627-923-001 | 1 |
| 18 | Wiringharness-thermist,v2.0wsh | 9627-930-001 | 9627-930-001 | 9627-930-001 | 9627-930-001 | 1 |
| * | Screw-hxwshrhdundct,\#10bx1/2 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 5 |
| 19 | Standoff-wiresaddlew/arrowhead |  | 9527-007-001 |  | 9527-007-001 | 1 |
| 20 | Support,Trough | 9081-171-001 | 9081-172-001 | 9081-172-001 | 9081-173-001 | 1 |
| 21 | Channel-trough,mtg |  | 9081-187-001 | 9081-188-001 | 9081-155-001 | 1 |
|  | Angle-support,trough | 9003-368-001 |  |  |  | 1 |
|  | Screw-hxwshdsl,10bx1/4 | 9545-008-001 | 9545-008-001 | 9545-008-001 | 9545-008-001 | 2 |
| * | Plate-wireclips |  | 9452-823-001 | 9452-823-001 |  | 1 |
| * | Screw-hxwshrhdundct,\#10bx1/2 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 9545-008-026 | AR |

Electrical Components - Top Compartment


|  | Key | Description | T-650 | T-750 | T-950 | T-1450 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | 1 | Panel Control Assembly(panel only) | 9989-599-001 | 9989-600-001 | 9989-600-001 | 9989-601-001 | 1 |
|  | * | Screw-Hxwshrhdundct \#10Bx 1/2" (Control Panel To side Panel) | 9545-008-026 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 4 |
|  | * | Plate -Latch, Top | 9452-625-001 | 9452-625-001 | 9452-625-001 | 9452-625-001 | AR |
|  | * | Nut Hexkeps \#8-32 | 8640-412-005 | 8640-412-005 | 8640-412-005 | 8640-412-005 | AR |
|  |  | Post-locator,top | 9467-024-001 |  |  |  | 2 |
|  | * | Nut-hexkeps,\#4-32 | 8640-411-003 |  |  |  | 2 |
|  | * | Locator Panel | 9355-001-001 | 9355-001-001 | 9355-001-001 | 9355-001-001 | AR |
|  | * | Screw FillHDCR 10Bx1/2" Guide | 9545-008-023 | 9545-008-023 | 9545-008-023 | 9545-008-023 | AR |
|  | * | Shield, PCB | 9550-184-001 | 9550-184-001 | 9550-184-001 | 9550-184-001 | 1 |
|  |  | Nut, \#8-32 | 8640-412-005 | 8640-412-005 | 8640-412-005 | 8640-412-005 | 3 |
|  | 2 | Button-control,2.0,opl | 9035-063-001 | 9035-063-001 | 9035-063-001 | 9035-063-001 | 1 |
|  | 3 | Window-display,lcd(w/gasket) | 9635-021-002 | 9635-021-002 | 9635-021-002 | 9635-021-002 | 1 |
|  | 4 | Contrlassy-display,2.0,opl,wsh | 9857-230-003 | 9857-230-003 | 9857-230-003 | 9857-230-003 | 1 |
|  | 5 | Nut-hexkeps,\#6-32 | 8640-411-003 | 8640-411-003 | 8640-411-003 | 8640-411-003 | 4 |
|  | 6 | Cableassy-usb,snapin | 9806-024-001 | 9806-024-001 | 9806-024-001 | 9806-024-001 | 1 |
|  |  | Wiringharness-doorlock | 9627-936-003 | 9627-936-001 | 9627-936-001 | 9627-936-004 | 1 |
| $\begin{aligned} & \text { ho } \\ & \stackrel{y}{0} \\ & \vdots \end{aligned}$ | * | Harness, P5/Pressure Switch | 9627-926-001 | 9627-926-001 | 9627-926-001 | 9627-926-001 | 1 |
|  | * | Kit-Emergency Stop, O-Series (includes \#X, \#Y) | 9732-223-004 | 9732-223-004 | 9732-223-004 | 9732-223-004 | 1 |
|  | 7 | Button-emergencystop,w/latch | 9035-061-002 | 9035-061-002 | 9035-061-002 | 9035-061-002 | 1 |
|  | 8 | Spacer-pcb,\#8x1/8 | 9538-157-005 | 9538-157-005 | 9538-157-005 | 9538-157-005 | 2 |
|  | 9 | Plate-mounting,stopbutton | 9452-725-001 | 9452-725-001 | 9452-725-001 | 9452-725-001 | 1 |
|  | 10 | Nut-hexkeps,\#8-32 | 8640-412-005 | 8640-412-005 | 8640-412-005 | 8640-412-005 | 2 |
|  | 11 | Switch-contactblock, dpst,nc | 9539-499-001 | 9539-499-001 | 9539-499-001 | 9539-499-001 | 1 |
|  | * | Nameplate,Control Panel (one piece) Black | 9412-243-001 | 9412-244-001 | 9412-245-001 | 9412-246-001 | 1 |
| 응 | 12 | Motor Ass'y, Door Locking (see Door Lock Group for parts breakdown) | 9892-015-003 | 9892-015-003 | 9892-015-003 | 9892-015-003 | 1 |
|  | 13 | Thermoactuator-24VAC | 9586-001-003 | 9586-001-003 | 9586-001-003 | 9586-001-003 | 2 |
| $\begin{aligned} & \text { 응 } \\ & \frac{5}{0} \\ & 0 \\ & \hline \end{aligned}$ | 14 | Hex Nuts (mounting Door Lockassy. to control panel) | 8640-412-005 | 8640-412-005 | 8640-412-005 | 8640-412-005 | 4 |
|  | 15 | Nut-Spring | 8640-399-008 | 8640-399-008 | 8640-399-008 | 8640-399-008 | 2 |
|  | 16 | Screw, \#10B x 1/2 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 9545-008-026 | 2 |
|  | * | Anchor-wiretie,adhesive | 9004-007-001 | 9004-007-001 | 9004-007-001 | 9004-007-001 | 2 |
|  | * | Strap-tie,adjustableratchet | 9544-040-001 | 9544-040-001 | 9544-040-001 | 9544-040-001 | 2 |
|  | 17 | Doorlockassembly-complete | 9885-024-001 | 9885-024-001 | 9885-024-001 | 9885-024-001 | 1 |
|  |  | Shim-doorlock,thin | 9552-037-001 | 9552-037-001 | 9552-037-001 | 9552-037-001 | 3 |
|  |  | Screw-hxhdcap,1/14-20x3/4 | 9545-018-014 | 9545-018-014 | 9545-018-014 | 9545-018-014 | 3 |
|  |  | Lockwasher-exttooth,1/4 | 8641-582-007 | 8641-582-007 | 8641-582-007 | 8641-582-007 | 3 |


Part\#8533-110-001 2/23



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WN0650XB-12EO1 Diagram



WN0650XB-12EO2 Diagram


WN0650XB-12EO2 Schematic


WN0750XB-12EO1 Schematic


WN0750XB-12EO1 Diagram


WN0750XB-12EO2 Schematic


WN0750XB-12EO2 Diagram


WN0950XB-12EO1 Schematic

$\overline{\text { Part \# 8533-110-001 2/23 }}$

WN0950XB-12EO1 Diagram


WN0950XB-12EO2 Schematic


WN0950XB-12EO2 Diagram




WN1450XB-12EO1 Diagram


WN1450XB-12EO2 Schematic


WN1450XB-12EO2 Diagram



# Section :9 

WN0650XB-39XO
WN0750XB-39XO
WN0950XB-39XO WN1450XB-39XO 230 Volts

60 Hz Single Phase 60 Hz Single Phase 60 Hz Single Phase 60 Hz Single Phase

Parts 50Hz



50 Hz Single Phase
50 Hz Single Phase
50 Hz Single Phase
50 Hz Single Phase

| Key | Component | T-650 | T-750 | T-950 | T-1450 | QTY |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1 | Circuit Breaker | 5198-211-002 | 5198-211-002 | 5198-211-002 | 5198-211-002 | 1 |
| * | Instructions, Transformer Connect | 8507-449-002 | 8507-449-002 | 8507-449-002 | 8507-449-002 | 1 |
| * | Manual-Opeators | 8514-290-001 | 8514-290-001 | 8514-290-001 | 8514-290-001 | 1 |
| 2 | Controls Transformer, 200/250-24V 50 Hz . | 8711-004-004 | 8711-004-004 | 8711-004-004 | 8711-004-004 | 1 |
| 3 | Water Valve | 9379-183-013 | 9379-183-013 | 9379-183-013 | 9379-183-013 | 2 |
|  | Diaphragm Invensys (EPDM) | 9118-049-001 | 9118-049-001 | 9118-049-001 | 9118-049-001 | 2 |
|  | Diaphragm Invensys (Viton) | 9118-049-002 | 9118-049-002 | 9118-049-002 | 9118-049-002 | 2 |
| 4 | Water Valve Single |  |  | 9379-194-003 | 9379-194-003 | 2 |
|  | Diaphragm Mueller |  |  | 9118-055-001 | 9118-055-001 | 1 |
|  | Wiring Label , Schematic | 9508-027-001 | 9508-029-001 | 9508-030-001 | 9508-032-001 | 1 |
|  | Wiring Harness, Power Terminal Block | 9628-001-001 | 9628-001-001 | 9628-001-001 | 9628-001-001 | 1 |
|  | Wiring Harness Main | 9628-002-001 | 9628-002-001 | 9628-002-001 | 9628-002-001 | 1 |
|  | Hose Assembly, Inlet | 9990-027-014 | 9990-027-014 | 9990-027-014 | 9990-027-014 |  |




| Key | Description | T-650 | T-750 | T-950 | T-1450 | QTY |
| :---: | :--- | :--- | :--- | :--- | :--- | :---: |
| $*$ | Actuator Assembly (Includes 1-10, Rod NOT <br> included) | $9892-015-002$ | $9892-015-002$ | $9892-015-002$ | $9892-015-002$ | 1 |
| 1 | Bracket Assy, Slide - Unlock | $9985-190-001$ | $9985-190-001$ | $9985-190-001$ | $9985-190-001$ | 1 |
| 2 | Bracket Assy, Slide - Unlock | $9985-189-001$ | $9985-189-001$ | $9985-189-001$ | $9985-189-001$ | 1 |
| 3 | Bracket Slide Lock | $9029-204-001$ | $9029-204-001$ | $9029-204-001$ | $9029-204-001$ | 1 |
| 4 | Spacer, Plastic | $9538-157-021$ | $9538-157-021$ | $9538-157-021$ | $9538-157-021$ | 4 |
| 5 | Arm - Door Lock | $9001-063-001$ | $9001-063-001$ | $9001-063-001$ | $9001-063-001$ | 1 |
| 6 | Thermoactuator - Door Lock Relay 24VAC | $9586-001-003$ | $9586-001-003$ | $9586-001-003$ | $9586-001-003$ | 2 |
| 7 | Spring - Extension | $9534-350-001$ | $9534-350-001$ | $9534-350-001$ | $9534-350-001$ | 1 |
| 8 | Motor \& Gear Assembly 24VAC | $9914-137-014$ | $9914-137-014$ | $9914-137-014$ | $9914-137-014$ | 1 |
| 9 | Screw -Hxwshrhdslsems, 6-32 x 3/16 | $9545-044-003$ | $9545-044-003$ | $9545-044-003$ | $9545-044-003$ | 6 |
| 10 | Cross Recessed PAn Hd Tapping screw | $9545-031-011$ | $9545-031-011$ | $9545-031-011$ | $9545-031-011$ | 4 |
| 11 | Screw Pnhdrr, 10-32 UNFx0 75 | $9545-012-029$ | $9545-012-029$ | $9545-012-029$ | $9545-012-029$ | 4 |
| $*$ | Rod, Door Lock | $9497-225-017$ | $9497-225-013$ | $9497-225-015$ | $9497-225-016$ | 1 |



WN0650XB-39XO1 Schematic



## WN0650XB-39XO2 Schematic

WN0650XB-39XO2 Diagram





WN0950XB-39XO1 Schematic


WN0950XB-39XO1 Diagram



WN0950XB-39XO2 Diagram


WN1450XB-39XO1 Schematic


WN1450XB-39XO1 Diagram



WN1450XB-39XO2 Diagram



Section :10

Parts Electric
Heated 60Hz

60 Hz 3 Phase
60 Hz 3 Phase

| WN0650XB-13E0 Parts |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Key | Component | T-650 | T-950 | QTY |
| 1 | LABEL-WARNING,HIGHVOLTAGE | 8502-614-004 | 8502-614-004 | 2 |
| 2 | LABEL-QUALITY | 8511-001-002 | 8511-001-002 | 2 |
| 3 | LABEL-FUSING\&INSTALLATION |  | 8502-619-006 | 1 |
| 4 | NUT-HEXKEPS,\#8-32 | 8640-412-005 | 8640-412-005 | 13 |
| 5 | NUT-HEXKEPS,\#10-32UNF,2B | 8640-413-002 | 8640-413-002 | 12 |
| 6 | LOCKWASHER-EXTTOOTH,\#10 | 8641-582-006 | 8641-582-006 | 12 |
| 7 | BUSHING-INSULATED,1" | 9053-067-004 | 9053-067-004 | 4 |
| 8 | STUD-SELFCLINCHING,\#10-32X1/2 | 9531-042-002 | 9531-042-002 | 4 |
| 9 | SCREW-HXWSHRHDUNDCT,\#10BX1/2 | 9545-008-026 |  | 77 |
| 10 | SCREW-HXWSRHDSL,10-32TTX1/2GRN | 9545-008-027 |  | 8 |
| 11 | SCREW-PNHDCR,6ABX3/4 | 9545-031-010 | 9545-031-010 | 4 |
| 12 | TERMINALBLOCKASSEMBLY-POWER | 9897-033-002 | 9897-033-002 | 2 |
| 13 | LABEL-FUSING\&INSTALLATION | 8502-619-006 |  | 1 |
| 14 | NUT-ELASTICSTOP,\#6-32 | 8640-411-002 | 8640-411-002 | 4 |
| 15 | TERMINAL-LUG,SOLDERLESS | 8652-134-002 | 8652-134-002 |  |
| 16 | ANGLE-SUPPORT,DRIVE(HEATED) | 9003-341-001 | 9003-341-001 | 1 |
| 17 | BRACKET-SHIELDMOUNTING | 9029-095-001 | 9029-095-001 | 1 |
| 18 | BRACKET-SHIELD,RH | 9029-193-001 |  | 1 |
| 19 | COVER-HEATER TERMINALS | 9074-331-001 | 9074-331-001 | 1 |
| 20 | COVER-DRIVE (W/FAN) | 9074-362-001 | 9074-362-001 | 1 |
| 21 | CHANNEL-REAR,T-650HTD | 9081-177-001 |  | 1 |
| 22 | FAN-COOLING,120VAC | 9189-012-001 | 9189-012-001 | 1 |
| 23 | GUARD-COOLINGFAN,80X80MM | 9208-063-001 | 9208-063-001 | 1 |
| 24 | HOUSING-SUMP, DRAIN,HTD | 9241-201-001 |  |  |
| * | HOUSINGASSEMBLY-SUMP,DRAIN |  | 9803-191-001 | 1 |
| 25 | HOSE-DRAIN | 9242-459-001 |  | 1 |
| 26 | PLATE-MTG,DRIVE(HTD) | 9452-842-001 | 9452-842-001 | 1 |
| 27 | PLATE-BASE,DRIVEMTG(HTD) | 9452-843-001 | 9452-843-001 | 1 |
| 28 | WIRINGLABEL-DIAGRAM/INFORM | 9507-014-001 | 9507-005-001 |  |
| 29 | WIRINGLABEL-SCHEMATIC | 9508-014-001 | 9508-005-001 | 1 |
| 30 | STRAP-FAN,LANYARD | 9544-067-001 | 9544-067-001 | , |
| 31 | SCREW-PNHDCR,\#8-32X3/4 | 9545-010-001 | 9545-010-001 |  |
| 32 | SCREW-RDHDSLTDMACH,\#10-32 | 9545-012-004 | 9545-012-004 | 4 |
| 33 | SCREW-HXWSHDSL,6BX3/8 | 9545-031-003 | 9545-031-003 |  |
| 34 | SCREW-HXWSHRHD,\#6-32X11/2 | 9545-044-009 | 9545-044-009 |  |
| 35 | SCREW-HXWSHRHD,\#6-32X5/8 | 9545-044-012 | 9545-044-012 |  |
| 37 | VALVEASSY-DRAIN,T-650HTD,120V | 9819-026-003 |  |  |
| 38 | CNTRL-TRGH,T650OPL,OHTD-13 | 9857-243-003 |  | 1 |
| 39 | TUB\&CYLASSY-CMP,T-650,OPL-HTD | 9869-035-003 |  |  |
| 40 | HEATERASSEMBLY | 9870-087-001 | 9870-087-001 | 6 |
| 41 | TERMBLKASY-INPUTPWR-13OPLHTD | 9897-041-013 |  | 1 |
| * | TERMBLKASY-INPUTPWR-13OPLHTD |  | 9897-042-014 |  |
| 42 | DRIVEASSY-W/BRKT,T-65000PL,HTD | 9909-044-004 |  | 1 |
| * | DRIVEASSY-W/BRKT,T-95000PL,HTD |  | 9909-047-004 |  |
| 43 | TUBASY-WELD,T-650,30CYCOPL-HTD | 9930-170-001 |  |  |
| * | TUBASSY-WELD,T-900,ELEC/STMHTD |  | 9930-158-002 | 1 |
| 44 | CHANNELASSY-REAR,T-650HTD | 9947-033-001 |  | 1 |
| * | CHANNELASSY-REAR,T-900/1200HTD |  | 9947-031-001 | 1 |



WN0650EB-13XO1 Schematic



WN0650EB-13XO2 Schematic



WN0950EB-13XO1 Schematic





Section :11
Parts Electric
Heated 50Hz

3 Phase
3 Phase

| Key | Component | T-650 | T-950 | QTY |
| :---: | :---: | :---: | :---: | :---: |
| 1 | LABEL-WARNING,HIGHVOLTAGE | 8502-614-004 | 8502-614-004 | 2 |
| 2 | LABEL-QUALITY | 8511-001-002 | 8511-001-002 | 2 |
| 3 | SEALER-PIPE | 8538-132-000 |  | 1 |
| 4 | NUT-HEXKEPS,\#8-32 | 8640-412-005 | 8640-412-005 | 12 |
| 5 | NUT-HEXKEPS,\#10-32UNF,2B | 8640-413-002 | 8640-413-002 | 12 |
| 6 | LOCKWASHER-EXTTOOTH,\#10 | 8641-582-006 | 8641-582-006 | 12 |
| 7 | BUSHING-INSULATED,1" | 9053-067-004 | 9053-067-004 | 4 |
| 8 | STUD-SELFCLINCHING,\#10-32X1/2 | 9531-042-002 | 9531-042-002 | 4 |
| 9 | SCREW-HXWSHRHDUNDCT,\#10BX1/2 | 9545-008-026 | 9545-008-026 | 77 |
| 10 | SCREW-HXWSRHDSL,10-32TTX1/2GRN | 9545-008-027 | 9545-008-027 | 8 |
| 11 | SCREW-PNHDCR,6ABX3/4 | 9545-031-010 | 9545-031-010 | 4 |
| 12 | TERMINALBLOCKASSEMBLY-POWER | 9897-033-002 | 9545-030-002 | 2 |
| 13 | RELAY | 5192-285-004 | 5192-285-004 | 1 |
| 14 | RELAY-HEATERS,40AMP(240VAC) | 5192-290-002 |  | 1 |
| * | RELAY-HEATERS,60AMP |  | 5192-291-002 |  |
| 15 | WIREASY-GRN/YEL,4" | 8220-001-484 | 8220-001-484 | 5 |
| 16 | WIREASY-BRN/BLK, $8^{\prime \prime}$ | 8220-059-005 | 8220-059-005 | 1 |
| 17 | WIREASY-BRN/YEL, $8^{\prime \prime}$ | 8220-059-006 | 8220-059-006 | 1 |
| 18 | WIREASY-BRN/BLU, $8^{\prime \prime}$ | 8220-059-007 | 8220-059-007 | 1 |
| 19 | WIREASY-WHT/ORG,9" | 8220-063-041 | 8220-063-041 | 1 |
| 20 | WIREASY-GRN/YEL,11" | 8220-064-055 | 8220-064-055 | 1 |
| 21 | WIREASY-BRN,19" | 8220-073-009 | 8220-073-009 | 1 |
| 22 | WIREASY-LTBLU,81/2" | 8220-076-002 | 8220-076-002 | 1 |
| 23 | WIREASY-BRN,17" | 8220-078-028 | 8220-078-028 | 1 |
| 24 | WIREASY-BRN/BLK, ${ }^{\text {² }}$ | 8220-084-004 | 8220-084-004 | 1 |
| 25 | WIREASY-BRN/YEL,8" | 8220-084-005 | 8220-084-005 | 1 |
| 26 | WIREASY-BRN/BLU, $8^{\prime \prime}$ | 8220-084-006 | 8220-084-006 | 1 |
| 27 | WIREASY-BRN,6" | 8220-108-019 | 8220-108-019 | 1 |
| 28 | WIREASY,2.0,T-650HTD/T-80NRELC | 8220-158-018 |  | 1 |
| * | WIREASY,2.0,T-950HTD/T-120GAS |  | 8220-158-026 | 1 |
| 29 | LABEL-FUSING\&INSTALLATION | 8502-619-008 | 8502-619-006 | 1 |
| 30 | LABEL-FUSE,1.5A | 8502-716-001 | 8502-716-001 | 1 |
| 31 | FUSE-1.5A,FAST,1/4X1-1/4 | 8636-018-001 | 8636-018-001 | 1 |
| 32 | NUT-ELASTICSTOP,\#6-32 | 8640-411-002 | 8640-411-002 | 1 |
| 33 | TERMINAL-LUG,SOLDERLESS | 8652-134-002 | 8652-134-002 | 4 |
| 34 | ANGLE-SUPPORT,DRIVE(HEATED) | 9003-341-001 | 9003-341-001 | 1 |
| 35 | BRACKET-SHIELDMOUNTING | 9029-095-001 | 9029-095-001 | 1 |
| 36 | BRACKET-SHIELD,RH | 9029-193-001 |  | 1 |
| 37 | COVER-HEATER TERMINALS | 9074-331-001 | 9074-330-001 | 1 |
| 38 | COVER-DRIVE (W/FAN) | 9074-362-001 | 9074-362-001 | 1 |
| 39 | CHANNEL-REAR,T-650HTD | 9081-177-001 |  | 1 |
| 40 | FAN-COOLING,230VAC | 9189-012-002 | 9189-012-002 | 1 |
| 41 | FUSEHOLDERASSEMBLY | 9200-001-002 | 9200-001-002 | 1 |
| 42 | GUARD-COOLINGFAN,80X80MM | 9208-063-001 | 9208-063-001 | 1 |
| 43 | HOUSING-SUMP,DRAIN,HTD | 9241-201-001 | 9241-185-001 | 1 |
| 44 | HOSE-DRAIN | 9242-459-001 |  | 1 |
| 45 | PLATE-MTG,DRIVE(HTD) | 9452-842-001 | 9452-842-001 | 1 |
| 46 | PLATE-BASE,DRIVEMTG(HTD) | 9452-843-001 | 9452-843-001 | 1 |
| 47 | WIRINGLABEL-DIAGRAM/INFORM | 9507-034-001 | 9507-035-001 | 1 |
| 48 | WIRINGLABEL-SCHEMATIC | 9508-034-001 | 9508-035-001 | 1 |



WN0650EB-68XO1 Schematic



WN0650EB-68XO2 Schematic



WN0950EB-68XO1 Schematic





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.

## Section :12

Maintenance


[^0]:    Part\#8533-110-001 2/23

