INDUSTRIAL WASHER Original Instructions MODEL T-450 EXPRESS ON-PREMISE For GB & IE V-SERIES CONTROL – 50Hz D



OPERATOR'S MANUAL INSTALLATION & OPERATION INSTRUCTIONS

Please read this information and retain for reference.

The washer will operate correctly in ambient temperatures of $+5^{\circ}$ C to $+40^{\circ}$ C, in relative humidity up to 50% at $+40^{\circ}$ C and above 50% when below $+40^{\circ}$ C, and at altitudes up to 1000m above sea level, must be transported and stored from -25° C to $+55^{\circ}$ C and up to $+70^{\circ}$ C for short periods of time, and has been packaged to prevent damage from humidity, vibration, and shock. Take measures to avoid harmful effects of occasional condensation.

<u>WARNING</u> - THIS WASHER IS EQUIPPED WITH DEVICES AND FEATURES RELATING TO ITS SAFE OPERATION. TO AVOID INJURY OR ELECTRICAL SHOCK, DO NOT PERFORM ANY SERVICING UNLESS QUALIFIED TO DO SO.

IT IS THE RESPONSIBILITY OF THE OWNER TO CHECK THIS EQUIPMENT ON A FREQUENT BASIS TO ASSURE ITS SAFE OPERATION.

A machine should NOT be allowed to operate if any of the following occur:

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

WARNING - SAFETY PRECAUTIONS

- Always shut off power and water supply before servicing.
- Do not overload the washer.
- Do not open door when cylinder is in motion or it contains water.
- Do not bypass any safety devices of this washer.
- Do not use volatile or flammable substances in or near this washer.
- Bleach is corrosive and use may cause component failure under certain circumstances.
- Keep all panels in place. They protect against shock and injury and add rigidity to the washer.

This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved. Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision. Children of less than 3 years should be kept away unless continuously supervised.

PREVENTIVE MAINTENANCE REQUIREMENTS

DAILY - Leave all panels in place while performing these steps.

- Check that the loading door remains securely locked and cannot be opened during an entire cycle.
- Check the water connections for leaks.
- Clean the top, front, and sides of the cabinet to remove residue.
- Clean the soap dispenser and lid and check that all dispenser mounting screws are in-place and tight.
- Check the drain valve for leaking and that it opens properly.
- Check the loading door for leaks. Clean the door seal of all foreign matter.
- Leave the loading door open to aerate the washer when not in use.

QUARTERLY - Apply proper lock out tag out procedures before performing these steps.

- Make sure the washer is inoperative by switching off the main power supply.
- Check the V-belts for wear and proper tension.
- Clean lint and other foreign matter from around motor and variable frequency drive.
- Check all water connections for leaks.
- Wipe and clean the inside of the washer and check that all electrical components are free of moisture and dust.
- Remove and clean water inlet hose filters. Replace if necessary.
- Check anchor bolts. Retighten if necessary

IMPORTANT: Replace any and all panels that were removed to perform daily and/or quarterly maintenance.

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MODEL	T-450 13.6 kg (30 LB.) EXPRESS WASHER
WASHER NET WEIGHT	244.5 kg (539 LBS)
CAPACITY	13.6 kg/107.6 L (30 LBS/3.8 CUBIC FT.)
CYLINDER SIZE	63.5 cm DIA X 34 cm DEEP (25" X 13 3/8")
ELECTRICAL	230 VAC, 50 HZ, 1 PHASE, 6.2A
DRIVE SYSTEM	SOFT START REVERSING INVERTER DRIVE, 2 HP MOTOR
WASH SPEED	50 RPM
INTERMEDIATE EXTRACT	411 RPM (60 G'S)
FINAL EXTRACT	750 RPM (200 G'S)
MACHINE CONTROL	PROGRAMMABLE COMPUTER UP TO 6 CYCLES
WATER INLET	2 SOLENOID OPERATED VALVES - FLOW RATE: 35L/MIN (9 GAL/MIN) EACH, 207-827 kPa (30-120 PSI)
DRAIN VALVE	76mm (3") DIAMETER

Table 1: Washer Specifications

	ciousness	various sheet metal parts internal to the when placing or moving your hands while nent.
Do Not Enter This : (or Space).	15	Meaning: Do Not Step, Stand, or Sit on This Equipment.

V		4D	
	Meaning: Do Not Operate with Guards or Covers Removed.	4	Meaning: High Voltage. Disconnect power before servicing.
	Meaning: Disconnect Power Before Servicing Equipment.		Meaning: Disconnect Water Supply Before Servicing Equipment.
	Meaning: Lock Out and Tag Out before servicing.	<u>SSS</u>	Meaning: Burn Hazard. Do Not Touch Door Glass or Soap Compartments. Allow these parts to cool before servicing.
	Meaning: Do Not Wash Items Containing Explosive Material.		Meaning: Do Not Wash Items Containing Flammable Material.
	Meaning: Read Operators Manual.	<u>sss</u>	Meaning: Do Not Supply Inlet Water > 88°C to the Water Inlet Valve to Reduce the Risk of Damage.
Æ	Meaning: Do Not Operate in Any Hazardous Classified (ATEX) Environment.		Meaning: Do Not Operate if Door Glass is Damaged in Any Way.
	Meaning: Left Point for Forklift or Hand Pallet Truck or Jack.		Meaning: Right Point for Forklift or Hand Pallet Truck or Jack.
	Meaning: Do Not Allow Children to Play in or Around Equipment.		Meaning: Supervise Children to ensure They Do Not Operate Equipment.

	Misuse of Washer								
	Do not use this Equipment for any purpose not described in this Manual.								
	Do not operate this equipment without all guards and covers in place.								
4	Do not operate this washer from any power source not matching the operational requirements on the back of the washer.								
	Do not place your body inside the washer cylinder or allow others to do so. Death or serious injury can result from this!								
	Other Examples May Be Applicable								

1 INSTALLATION INSTRUCTIONS

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

WARNING:

THESE INSTALLATION AND SERVICING INSTRUCTIONS ARE FOR USE BY QUALIFIED PERSONNEL ONLY. TO AVOID INJURY AND ELECTRICAL SHOCK, DO NOT PERFORM ANY SERVICING OTHER THAN THAT CONTAINED IN THE OPERATING INSTRUCTIONS, UNLESS QUALIFIED.

1.1 UNCRATING INSTRUCTIONS

- 1. Use a knife or similar instrument to remove plastic wrap from the washer packaging.
- 2. Remove the cardboard pieces from the washer packaging.
- 3. Use a Phillips-Head screwdriver to remove the lower service door from the washer.
- 4. Use a 5/16^{''} wrench or socket and ratchet to loosen the bottom three screws on the back panel and to remove the remaining screws and back panel from the washer.
- 5. Use a ³/₄" wrench and socket and ratchet to remove the four nuts and bolts that attach the washer frame to the two wooden runners.
- 6. Use a forklift or pallet jack, at the front or back of the washer to remove the washer from the runners and to the mounting base or pedestal.

1.2 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.

CARE MUST BE TAKEN WITH ALL FOUNDATION WORK TO ENSURE A STABLE UNIT INSTALLATION, ELIMINATING POSSIBILITIES OF EXCESSIVE VIBRATION.

All installations require concrete floors 150 mm (6 inches) or thicker. Anchor bolts or expansion anchors must be grade 8 or better and a minimum of 16 mm (5/8 inch) diameter. Mounting hardware is not provided with the machine.

1.3 <u>MOUNTING</u>

A concrete pedestal or steel-mounting base that elevates the machine approximately 150mm (6 inches) above the floor level is recommended to provide easy access to the loading door. Allow a minimum 610 mm (24 inches) of clearance behind the rear of the machine to provide access for motor service. Refer to Figures Figure 1-1 and Figure 1-2 for machine bolt-down dimensions. Contact a Dexter laundry equipment distributor for recommended steel mounting bases.

If an elevated concrete pedestal is desired, it should be embedded into the existing floor. Anchor bolts should be 16 mm x 200 mm ($5/8'' \times 8''$), grade 8 or better, headed by a 10 cm (4 inch) square fish plate and should protrude 48 mm (17/8 inches) above the finished surface of the pedestal.

EXPANSION ANCHORS ARE NOT RECOMMENDED FOR USE IN CONCRETE PEDESTALS BECAUSE THE ANCHORS ARE TOO CLOSE TO AN EDGE, CAUSING IT TO BREAK OUT.

Refer to Figures Figure 1-1 and Figure 1-3 for recommended concrete pedestal dimensions. Refer to Figure Figure 1-4 for overall machine mounting dimensions.

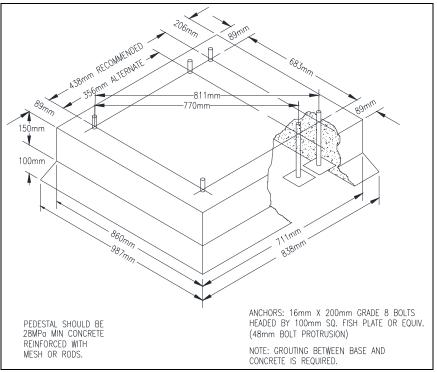


Figure 1-1: Concrete Pedestal Mounting (metric)

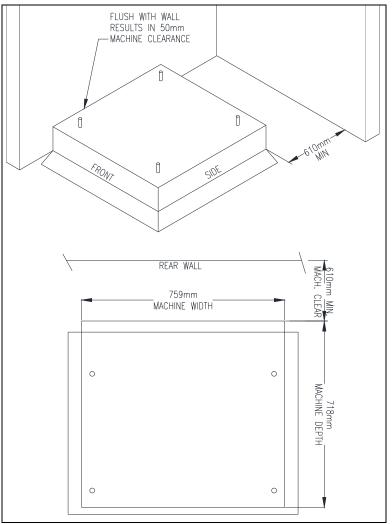


Figure 1-2: Floor Outline (metric)

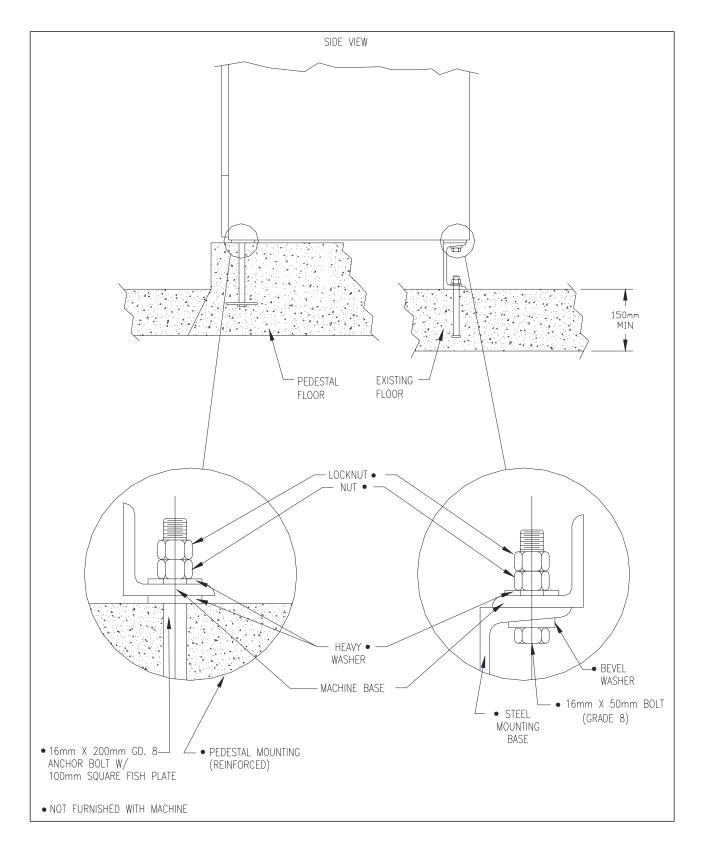


Figure 1-3: Machine Mounting Detail (metric)

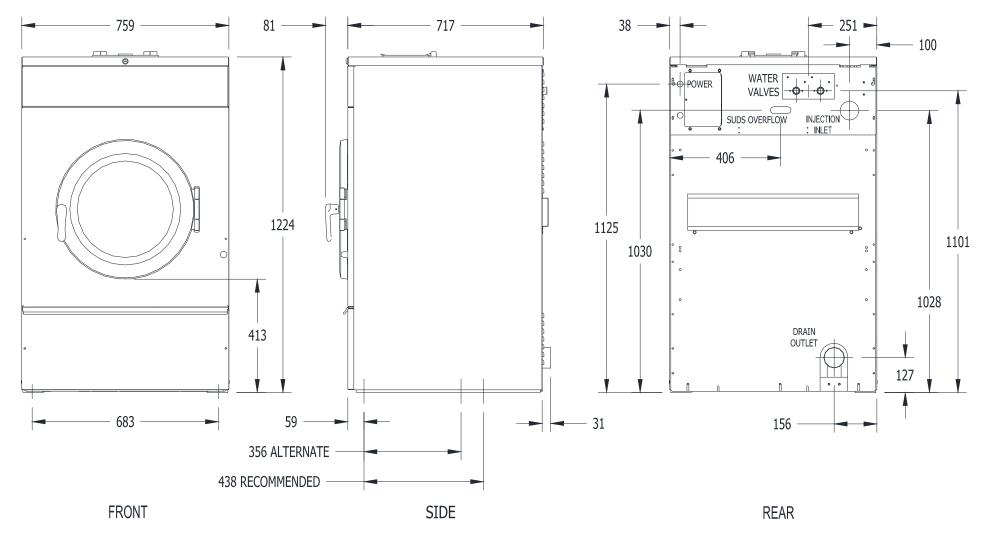


Figure 1-4: T-450 Industrial Washer Mounting Diagram

(Dimensions are in mm)

1.4 PLUMBING

Two 1.22 m (48 inch) water supply hoses are provided with each machine. Use these new hose sets and do not reuse old hose sets. One end of the hoses is $\frac{3}{4}-11\frac{1}{2}$ NHT for the water valve connections while the other end of the hoses is $\frac{3}{4}-14$ BSP for the water supply connections.

Separate hot and cold water lines must be supplied to the machine, maintaining 207 kPa to 827 kPa (30 psi to 120 psi) water flow pressure. A 60°C (140°F) hot water supply is recommended for best washing results. Do not exceed 88°C (190°F) water temperature.

1.5 <u>DRAIN</u>

The drain outlet tube at the rear of the machine is 76mm (3 inches) in diameter. Any drain hose used must be lower than the drain valve to assure proper draining.

1.6 PROTECTIVE FILM

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

1.7 <u>ELECTRICAL</u>

The Dexter T-450 single-phase 230VAC 50 Hz washing machines are intended to be permanently installed appliances. No power cord is provided. The machine should be connected to an individual branch circuit not shared by lighting or other equipment. Supplementary circuit protection is not allowed. A means for disconnection with a contact separation distance of at least 3mm must be provided. The connection should be sheathed in liquid tight flexible conduit, or equivalent, with conductors of the proper size and insulation. 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 with a minimum 3.5 mm² wire.

Individual circuit breakers for each unit are required. Do not use earth-fault circuit breakers or earth-fault circuit interrupter outlets.



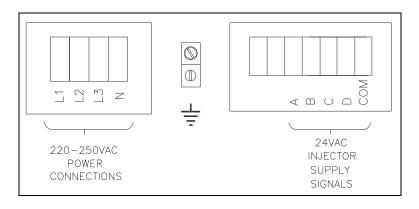


Figure 1-5: Electrical Connections and Chemical Supply Signals

1.7.1 INSTALLING THE ELECTRICAL CONNECTION

1.7.1.1 Disconnect all power to the washer.

1.7.1.2 Remove the top panel of the washer and locate the power terminal block near the back of the control compartment. Connections are as shown in Figure 1-5.

1.7.1.3 Connect L1, N, and Earth as marked.

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

1.7.2 FUSING REQUIREMENTS

Single-phase models: 15 AMP TIME-DELAY (DUAL ELEMENT) FUSE (or equivalent circuit breaker)

The installation must meet the electrical requirements of the country of installation. The installer must provide a disconnect switch, which will interrupt all lines. It may be a local or national requirement to provide an electrical interruption switch visible and accessible from the room in which the washer is installed.

For destination countries where CE requirements must be met, individual 230V supply disconnecting devices for each dryer are required and must be one of the following types:

a. switch-disconnector with fuses per IEC 60947-3 utilization category AC-23B;

b. disconnector with fuses per IEC 60947-3 having an auxiliary contact that in all cases causes switching devices to break the load circuit before the opening of the main contacts of the disconnector;

c. a circuit-breaker suitable for isolation per IEC 60947-2;

d. any other switching device in accordance with an IEC product standard for that device and which meets the isolation requirements of IEC 60947-1 as well as a utilization category defined in the product standard as appropriate for on-load switching of motors or other inductive loads;

The supply disconnecting devices must

a. provide a means allowing the supply disconnecting devices to be locked in the OFF position;

- b. be mounted 0.6 m to 1.9 m above the floor;
- c. be rated for branch circuit operation;
- e. be approved for use in the country where installed;

1.7.3 CONTROLS TRANSFORMER

The controls transformer is located inside the control trough and steps a range of 220 to 250 volts down to 24 SELV. There are two terminals on the controls transformer for the primary (incoming) power. Use the terminal marked "220V" for power supplies between 195 and 225 volts. Use the terminal marked "250V" for power supplies between 226 and 255 volts.

CONTROL TRANSFORMER CONNECTIONS

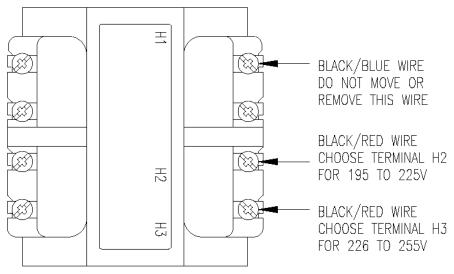


Figure 1-6: Control Transformer Connections

1.7.4 MAXIMUM SPIN SPEED ADJUSTMENT

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 "10V" and "RC". Remove this jumper to make new jumper connections if necessary. Refer to Figure 1-7 for the approximate location of the control terminations on the Variable Frequency Drive (VFD) and Table 2 for appropriate jumper connection points indicated with an "X" for the desired maximum spin speed setting. If no adjustment to default spin speed is desired, do not remove or add any wires on VFD.



Figure 1-7: Control Terminations on Variable Frequency Drive

			Jumper Terminal Locations on Variable Frequency Drive (VFD)												
V Series Washer Model	Max Spin							DCM	DCM						
woder	Speed	MI1	MI2	MI3	MI4	MI5	MI6	(Left)	(Right)	24V	ACM	AVI	ACI	10V	M01
T-300, T-400,	60 G											Х		Х	
T-600, T-900,	80 G				х			Х							
T-1200	100 G		Default Setting (No Jumper Required)												
	60 G								Х		Х				
T-350, T-450,	100 G				Х			Х							
T-750	140 G				-	х		Х							
	200 G	Default Setting (No Jumper Required)													
	100 G	X X													
T-650, T-950, T-1450	140 G				REIV	IOVE	Brov	vn Jun	nper bet	twee	n MI5	/M0:	1		
	200 G			Defa	ult Se	etting	g (Wi	th Fact	ory Inst	alled	Brow	n Jun	nper)	

Table 2: Spin Speed Adjustment Jumper Locations

1.8 INJECTION SOURCE CONNECTIONS

The washer control may be programmed to send six 24V output signals for a chemical injection system of up to four chemical sources. 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 0 through 6 and their respective terminal block connections are as shown in Table 3.

Dexter Recommended Connections	Controller Programmed Signals	Injection Terminal Block Circuits
Detergent	1	А
Bleach	2	В
Starch	3	С
Sour/Softener	4	D
	5	A and B
	6	C and D
	0	None

Table 3: Injection Signal and Circuit Identification

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 minimum of 35.5 cm (14") and a maximum of 45.7 cm (18") to eliminate chemical buildup in the pipe and/or restrict water flow to the tub. Secure the hoses as required.

1.9 OPERATION CHECK

After all mounting, plumbing and electrical work is completed, select any desired wash cycle and run the machine through a complete wash cycle. Check for water leaks and verify proper operation.

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 <u>before</u> opening service panels and swapping wires.

NOTE: The A-weighted emission sound pressure level does not exceed 70dB(A). The operator does not need hearing protection.

NOTE: The washer does not emit hazardous radiation.



WARNING: To avoid potential risks of spontaneous combustion of a load, remove the load quickly after the completion of the cycle or in case of failure of power supply.



DANGER: Do not wash loads which may create an explosive atmosphere in the washer.

2 OPERATING INSTRUCTIONS

Maximum Load Capacity: 13.6 kg (30 pounds) Dry Weight for the T-450.

2.1 STARTING THE WASHER

2.1.1 Turn on power to the washer.

2.1.2 Ensure washer is in "RUN" mode.

Locate the "RUN/PROGRAM" key switch and key. The current mode is indicated by the alignment of the key slot. If washer is not in "RUN" mode, insert and turn the key to the "RUN" position.

2.1.3 Load the laundry.

Place laundry loosely 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. Do not load the washer with more than 13.6 kg (30 pounds).

<u>NOTE</u>: 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.

2.1.4 Select wash cycle.

Select the appropriate cycle number (1 through 6) for the type of load being washed. See the default cycle descriptions in section 3.2. Use the "UP" and "DOWN" keys to change the two digit cycle number on the display to the desired cycle.

2.1.5 Add washing chemicals.

If not using a chemical injection system, add low sudsing powdered detergent into the "DETERGENT" compartment of the automatic dispenser on the top 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 bleach light blinks during the wash cycle.

2.1.6 Press "START".

The display will go blank for a moment and then display the cycle time in minutes. The door will lock and remain locked until the end of the cycle.

2.2 END OF CYCLE

When the cycle is complete, the time will display "0" and a 5-second tone will sound. The door can now be opened. Immediately remove contents of washer. Leave the door open when the machine is not in use.

2.3 EMERGENCY STOP / SAFETY DOOR LOCK

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

Pressing the Emergency Stop button removes power from the controller of the washer. The door can be opened after the Safety Door Lock releases. When the Emergency Stop button is pressed, the washer will begin stopping movement and water flow, and begin draining water from inside the washer. After 6 seconds of power loss to the controller, the motor drive will begin ramping down the motor movement. Though the machine may stop wash movement quickly, it may take up to 3 minutes for the door to unlock. During that time, the door cannot be opened. Twisting clockwise the Emergency Stop button restores power to the controller, which will display the remaining time of the cycle. The washer may be restarted by closing and latching the door, and pressing the Start button. If the Emergency Stop button is engaged for more than 1 hour, the cycle will be terminated.

2.4 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 LEDs are listed in Table 4 below.

6000	Washer Condition	"READY" LED Status	"RUN" LED Status	"FAULT" LED Status
Aura 1999	Idle Mode (No Cylinder Movement)	ON	OFF	OFF
	Tumbling	ON	ON	OFF
	Stop from Tumble	ON	FLASHING	OFF
	Ramp to Intermediate or Final Extract Spin	ON	ON	OFF
	Spinning (Intermediate or Final)	ON	ON	OFF
	Stop from Spin (Intermediate or Final)	ON	FLASHING	OFF
	Faulted	ON	OFF	ON

Table 4: Variable Frequency Drive Indicators

3 MACHINE PROGRAMMING INSTRUCTIONS

This Dexter washer is programmed with 6 factory default programs available for use immediately after installation. Any of these cycles, listed and detailed in section 3.2, can be customized to include up to 8 baths with various defined settings including Cycle Time, Water Temperature, Water Level, Type of Fill, Spin Time, and Injection Source. Programming can be accomplished manually using the machine controls or by connecting to the machine control using a PDA (Personal Digital Assistant). For instructions on using a PDA with this washer control, please contact your local Dexter laundry equipment distributor. Please read below for manual programming instructions.

3.1 EDITING AN EXISTING CYCLE

3.1.1 Turn on the power to the washer.

Washer must be in idle mode to program.

3.1.2 Ensure washer is in "PROGRAM" mode.

Locate the "RUN/PROGRAM" key switch and key. The current mode is indicated by the alignment of the key slot. If washer is not in "PROGRAM" mode, insert and turn the key to the "PROGRAM" position.

The display will show "C__0". The "ADD BLEACH" light will blink and will continue to blink during the programming mode.

3.1.3 Select cycle to alter.

Press the "DOWN" or "UP" buttons on the keypad, as shown in Figure 3-1, until the desired cycle number, 01 through 06, is displayed.

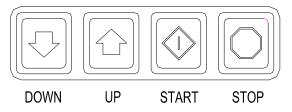


Figure 3-1: Washer Control Keypad Layout

3.1.4 Press "START" to enter the cycle.

The display should now show a "b".

3.1.5 Select a bath to alter.

Press the "UP" and "DOWN" buttons to select a bath. The mode indicator lights, as shown in Figure 3-2, illuminate to indicate which bath is being selected.

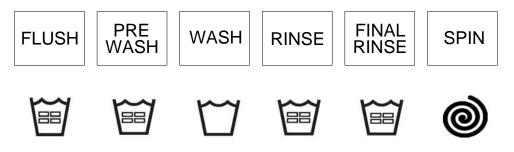


Figure 3-2: Washer Mode Lights

There are 8 available baths to program: FLUSH, PREWASH, WASH, RINSE1, RINSE 2, RINSE 3, RINSE 4, and FINAL RINSE.

When "RINSE" is illuminated, up to 4 rinses may be programmed. Each rinse is shown on the display as "b r1" through "b r4".

3.1.6 Press "START" to display the settings.

Available settings to alter in each bath are Cycle Time, Water Temp, Water Level, Type of Fill, Spin Time, and Injection Source.

3.1.7 Input settings.

The first setting to alter is the Cycle Time, shown on the display as "Ct**" where ** is a placeholder for the options digits. Use the "DOWN" and "UP" keys to set the desired time in minutes and press "START" to advance to the next setting. If no change is desired, press "START" to advance to the next setting. Repeat process for each setting. Each bath setting can be programmed with the options shown in Table 5.

Cycle TimeCt**Two-digit amount of time for bath in minutes. - 00 to 15 minutes for Flush, Prewash, Wash, Rinse 1, 2, 3 and 4. If the time is set to 00, then the bath will be eliminated from the cycle. - 01 to 15 minutes for Final Rinse.Watert_**HH for hot water CC for cold water EE for no water²Water LevelL_**Lo for low level HI for high levelType of Fill1dF_*d for delayed fill (default) t for timed fillSpin TimeS_**Two-digit amount of time for spin in minutes. - 00 to 10 minutes for Flush, Prewash, Wash,			
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Water Temperaturet_**HH for hot water CH for warm water CC for cold water EE for no water²Water LevelL_**Lo for low level HI for high levelType of Fill1dF_*d for delayed fill (default) t for timed fillSpin TimeS_**Two-digit amount of time for spin in minutes. - 00 to 10 minutes for Flush, Prewash, Wash,			bath will be eliminated from the cycle.
Temperature-CH for warm water CC for cold water EE for no water²Water LevelL_**Lo for low level HI for high levelType of Fill1dF_*d for delayed fill (default) t for timed fillSpin TimeS_**Two-digit amount of time for spin in minutes. - 00 to 10 minutes for Flush, Prewash, Wash,			- 01 to 15 minutes for Final Rinse.
CC for cold water EE for no water ² Water Level L_** Lo for low level HI for high level Type of Fill ¹ dF_* d for delayed fill (default) t for timed fill Spin Time S_** Two-digit amount of time for spin in minutes. - 00 to 10 minutes for Flush, Prewash, Wash,	Water	t_**	HH for hot water
EE for no water2Water LevelL_**Lo for low level HI for high levelType of Fill1dF_*d for delayed fill (default) t for timed fillSpin TimeS_**Two-digit amount of time for spin in minutes. - 00 to 10 minutes for Flush, Prewash, Wash,	Temperature		CH for warm water
Water LevelL_**Lo for low level HI for high levelType of Fill1dF_*d for delayed fill (default) t for timed fillSpin TimeS_**Two-digit amount of time for spin in minutes. - 00 to 10 minutes for Flush, Prewash, Wash,	-		CC for cold water
HI for high level Type of Fill ¹ dF_* d for delayed fill (default) t for timed fill Spin Time S_** Two-digit amount of time for spin in minutes. - 00 to 10 minutes for Flush, Prewash, Wash,			EE for no water ²
Type of Fill1dF_*d for delayed fill (default) t for timed fillSpin TimeS_**Two-digit amount of time for spin in minutes. - 00 to 10 minutes for Flush, Prewash, Wash,	Water Level	L_**	Lo for low level
Image: spin Time S_** Two-digit amount of time for spin in minutes. - 00 to 10 minutes for Flush, Prewash, Wash,			HI for high level
Spin TimeS_**Two-digit amount of time for spin in minutes00 to 10 minutes for Flush, Prewash, Wash,	Type of Fill ¹	dF_*	d for delayed fill (default)
- 00 to 10 minutes for Flush, Prewash, Wash,			t for timed fill
	Spin Time	S_**	Two-digit amount of time for spin in minutes.
Dinco 1 2 2 and 4			- 00 to 10 minutes for Flush, Prewash, Wash,
			Rinse 1, 2, 3 and 4
- 01 to 10 minutes for Final Rinse			- 01 to 10 minutes for Final Rinse
Injection IS_* Single-digit code indicating injector signal(s), 0 to 6.	Injection	IS_*	Single-digit code indicating injector signal(s), 0 to 6.
Source ²	Source ²		

Table 5: Bath Program Settings

¹ A delayed fill will pause the cycle time countdown until the selected low level is reached. A timed fill will allow the cycle time countdown to continue regardless of water level reached.

² Codes for injections sources are defined in Table 3. When "EE" is selected in the Water Temperature setting, the electronic controller prohibits injection signals. The programmed injection source value is ignored.

3.1.8 To exit the programming of a bath, press the "STOP" button.

If desired, repeat steps 3.1.5 through 3.1.7 to program another bath.

3.1.9 To select a different cycle to program, press the "STOP" button again.

If desired, repeat steps 3.1.3 through 3.1.8 to program another cycle.

3.1.10 To end programming, turn the key to "RUN" position.

It is recommended when changes are made to one or more of the preset programs that the cycle number and the changes be documented for later reference. Blank cycle tables have been provided at the end of section 3.2.

NOTE: The Wash Cycle programming mode will automatically exit and return to the Idle mode if no buttons are pressed for one minute.

3.2 DEFAULT WASHER CYCLE PROGRAMS

The factory default cycles pre-programmed into the washer are listed with each bath and setting option in this section.

Cycle #	Recommended Use
1	Sheets & Pillowcases (Health Care)
2	Towels / Pads / Diapers (Health Care)
3	White Towels (Hotel / Motel)
4	Guest Laundry (Hotel / Motel or Health Care)
5	Rags & Mops (Hotel / Motel)
6	Colored Cotton Linen (Food & Beverage)

Bath	Bath Cycle Time (min.)	Water Temp.	Water Level	Delay Fill	Spin Time (min.)	Injection Source
Flush	3	CH	HI	d		
Prewash	2	CH	HI	d		
Wash	7	HH	LO	d		1 (Detergent)
Rinse 1	7	HH	LO	d		2 (Bleach)
Rinse 2	2	CH	HI	d	1	
Rinse 3	2	CH	HI	d		
Rinse 4						
Final Rinse	4	CH	LO	d	4	4 (Sour/Soft)

Cycle 1 Sheets & Pillowcases (Health Care)

Cycle 2 Towels / Pads / Diapers (Health Care)

Bath	Bath Cycle Time (min.)	Water Temp.	Water Level	Delay Fill	Spin Time (min.)	Injection Source
Flush	3	CH	HI	d		
Prewash	2	CH	HI	d		
Wash	7	HH	LO	d		1 (Detergent)
Rinse 1	1	HH	HI	d		
Rinse 2	7	HH	LO	d		2 (Bleach)
Rinse 3	2	CH	HI	d	1	
Rinse 4	2	CH	HI	d		
Final Rinse	4	CH	LO	d	5	4 (Sour/Soft)

Cycle 3 White Towels (Hotel / Motel)

Bath	Bath Cycle Time (min.)	Water Temp.	Water Level	Delay Fill	Spin Time (min.)	Injection Source
Flush						
Prewash						
Wash	7	HH	LO	d		1 (Detergent)
Rinse 1	1	HH	HI	d		
Rinse 2	7	HH	LO	d		2 (Bleach)
Rinse 3	2	CH	HI	d	1	
Rinse 4	2	CH	HI	d		
Final Rinse	4	СН	LO	d	5	4 (Sour/Soft)

Bath	Bath Cycle Time (min.)	Water Temp.	Water Level	Delay Fill	Spin Time (min.)	Injection Source
Flush	3	СН	HI	d		
Prewash						
Wash	7	HH	LO	d		5 (Detergent/Bleach)
Rinse 1	2	HH	HI	d		
Rinse 2	2	CH	HI	d		
Rinse 3	2	CH	HI	d		
Rinse 4						
Final Rinse	4	CH	LO	d	4	4 (Sour/Soft)

Cycle 4 Guest Laundry (Hotel / Motel or Health Care)

Cycle 5

Rags & Mops (Hotel / Motel)

Bath	Bath Cycle Time (min.)	Water Temp.	Water Level	Delay Fill	Spin Time (min.)	Injection Source
Flush	3	CH	HI	d		
Prewash	2	CH	HI	d		
Wash	2	CH	HI	d		
Rinse 1	7	HH	LO	d		1 (Detergent)
Rinse 2	2	HH	HI	d		
Rinse 3	7	HH	LO	d		2 (Bleach)
Rinse 4	2	CH	HI	d	1	
Final Rinse	2	CH	LO	d	5	

Cycle 6

Colored Cotton Linen (Food & Beverage)

Bath	Bath Cycle Time (min.)	Water Temp.	Water Level	Delay Fill	Spin Time (min.)	Injection Source
Flush	2	СН	HI	d		
Prewash						
Wash	10	HH	LO	d		1 (Detergent)
Rinse 1	7	HH	LO	d		2 (Bleach)
Rinse 2	2	СН	HI	d	1	
Rinse 3	2	CH	HI	d		
Rinse 4						
Final Rinse	4	СН	LO	d	4	6 (Sour/Starch)

Cycle	Description					
Bath	Bath Cycle Time (min.)	Water Temp.	Water Level	Delay Fill	Spin Time (min.)	Injection Source
Flush						
Prewash						
Wash						
Rinse 1						
Rinse 2						
Rinse 3						
Rinse 4						
Final Rinse						

Cycle _____ Description _____

Bath	Bath Cycle Time (min.)	Water Temp.	Water Level	Delay Fill	Spin Time (min.)	Injection Source
Flush						
Prewash						
Wash						
Rinse 1						
Rinse 2						
Rinse 3						
Rinse 4						
Final Rinse						

Cycle _____ Description _____

Bath	Bath Cycle Time (min.)	Water Temp.	Water Level	Delay Fill	Spin Time (min.)	Injection Source
Flush						
Prewash						
Wash						
Rinse 1						
Rinse 2						
Rinse 3						
Rinse 4						
Final Rinse						

3.3 RAPID ADVANCE MODE

Rapid Advance mode is a key-controlled override to interrupt the current cycle, drain the water, and advance to the next mode of the wash cycle, including Pre Wash, Wash, Rinse, Final Rinse, and Spin. The indicator lights will show to which segment the cycle has been advanced.

To enter the Rapid Advance mode, turn the key counter-clockwise (CCW). The Rapid Advance setting is not marked next to the key, but turning the key CCW until it stops selects this mode. The Rapid Advance mode can be entered from either the Idle mode or during the cycle. If the cycle has not yet started, press the "START" button. To rapid advance to the next step in the wash cycle, push both the "UP" and "START" buttons at the same time. The display will show "Ad" (advance) in the display. The washer will advance to the next bath segment only after the water is drained from the washer.

Note:

- The time displayed may not be accurate.
- The cycle will continue in rapid advance mode even if the key is turned to "RUN" and/or removed.
- Rapid advance cannot skip the final 1-minute tumble of the cycle, and the door lock may remain activated for a couple minutes after the cycle has been completed.
- The chemical injection signals will NOT operate in Rapid Advance mode.

To end the cycle without waiting for the time to count down, press and hold the "STOP" button for 5 seconds or more.

3.4 WATER LEVEL ADJUSTMENT

The water level of all baths can be adjusted by changing the switch settings on the electronic pressure sensor. On-premise washers are shipped with the pressure sensor harness connected to Switch #1 for "LO" level and Switch #2 for "HI" level.

Water level adjustments can also be made in 1/4'' increments by adjusting the switch positions for the desired level. It is not recommended for the water level to be set above the factory Switch #2 settings. Refer to the following chart for the switch settings and the factory default settings:

Water Level Chart									
Switch Positions:							Fa	actory Setti	ngs:
Depth (in):	Pos 1	Pos 2	Pos 3	Pos 4	Pos 5	Pos 6			
5.00	off	off	off	off	off	off		0	PL
5.25	on	off	off	off	off	off	Model	-	
5.50	off	on	off	off	off	off	Model	Switch #1	Switch #2
5.75	on	on	off	off	off	off	T 000	Depth (in):	Depth (in):
6.00	off	off	on	off	off	off	T-300	6.00	6.75
6.25	on	off	on	off	off	off	T-350	6.00	6.75
6.50	off	on	on	off	off	off	T-400	8.00	11.00
6.75	on	on	on	off	off	off	T-450	6.00	8.50
7.00	off	off	off	on	off	off	T-450 SWD	6.00	8.50
7.25	on	off	off	on	off	off	T-600	8.00	11.00
7.50	off	on	off	on	off	off	T-650	8.00	11.00
7.75	on	on	off	on	off	off	T-750	6.00	8.75
8.00	off	off	on	on	off	off	T-750 SWD	9.25	11.75
8.25	on	off	on	on	off	off	T-900	6.00	8.75
8.50	off	on	on	on	off	off	T-950	6.00	8.75
8.75	on	on	on	on	off	off	T-1200	6.00	8.75
9.00	off	off	off	off	on	off	T-1450	6.75	9.50
9.25	on	off	off	off	on	off			
9.50	off	on	off	off	on	off			
9.75	on	on	off	off	on	off			
10.00	off	off	on	off	on	off			
10.25	on	off	on	off	on	off			
10.50	off	on	on	off	on	off		1 - 1 - 1 - 1	7. •
10.75	on	on	on	off	on	off	999		9
11.00	off	off	off	on	on	off	• IN DECEMBER		
11.25	on	off	off	on	on	off	Sec. 10 Yourse		
11.50	off	on	off	on	on	off	and all a		
11.75	on	on	off	on	on	off	2000 C C C C C		an 000
12.00	off	off	on	on	on	off	A CONTRACTOR OF A CONTRACTOR O		1 18- 1 St 18
12.25	on	off	on	on	on	off			
12.50	off	on	on	on	on	off	ALL A		
12.75	on	on	on	on	on	off	- P.		
13.00	off	off	off	off	off	on			
13.25	on	off	off	off	off	on			
13.50	off	on	off	off	off	on	See See		
13.75	on	on	off	off	off	on			
14.00	off	off	on	off	off	on	Switch #	#1 Switch #	2
14.25	on	off	on	off	off	on	Statement of the Alexandre		
14.50	off	on	on	off	off	on			
14.75	on	on	on	off	off	on			
15.00	off	off	off	on	off	on			

4 WASHER ERROR CODES

Fault #		
(F #)	Description	Customer Action
	latching the door and starting during the cycle.	Turn off the power to the washer. Check wire connections to door /lock switches. Check wire connections from switches to controller. If necessary door lock mechanism should be adjusted by a qualified person. Turn on the power to the washer. (See Note)
	minutes. The wash cycle will continue. The F 2 will flash three times, and then wait for 30 seconds. The error will clear at the end of the cycle.	Turn of the power to the washer. Check the operation of the water valves. Check the incoming water pressure. Check for blocked or restricted water flow. Check to ensure the drain valve is functioning properly. Turn on the power to the washer. (See Note)
3	Memory error in controller.	Turn off the power to the washer. Wait one minute. Turn power back on to the washer. If the problem returns, clear the fault with the Palm. If the problem returns again, replace the washer controller.
4	Washer controller communication error	Turn off the power to the washer. Wait one minute. Turn power back on to the washer. If the problem returns, replace the washer controller.
	Pressure Switch error (only OPL) - when the high level sensor indicates full but the lower one indicates empty. The wash cycle will continue. The F 5 will flash three times, and then wait for 30 seconds. The error will clear at the end of the cycle.	Turn off the power to the washer. Replace the pressure switch. Turn on power to the washer. (See Note)
6	Wrong washer size for drive type.	Turn off the power to the washer. Check to ensure all the harnesses are properly connected to the controller. Check to ensure the drive horsepower is proper for this size of washer. Turn on power to the washer. (See Note) If problem reappears, contact your Dexter representative.
7	Wrong size drive installed	Turn off the power to the washer. Check to ensure all the harnesses are properly connected to the controller. Check to ensure the drive horsepower is proper for this size of washer. Contact your Dexter representative.
	will flash three times, and then wait for 30 seconds. The error will clear at the end of the cycle.	Turn off the power to the washer. Check to ensure the drain valve is operating properly. Check to ensure the pressure switch tube is clear of blockage. Check to ensure the pressure switch is operating proper. Correct any located problems. Turn on power to the washer. (See Note)
	The washer tub does not reach the spin target frequency within 200 seconds. The wash cycle will continue. The F 9 will flash three times, and then wait for 30 seconds. The error will clear at the end of the cycle.	Turn off the power to the washer. Inspect the washer to ensure the tub spins freely. If restricted, then clear the blockage. Test washer. If tub spins freely, the drive needs to be replaced.
	After a spin the washer tub does not stop within 150 seconds.	Turn off the power to the washer. Inspect the braking resistors and the connecting wiring to the drive braking resistors mounted in the top of the washer. If the resistors and wiring is correct, then replace the drive.

11	The drive size setting has shanged	Turn off the newer to the washer. Check to answe all the harpesses are properly connected
11	The drive size setting has changed.	Turn off the power to the washer. Check to ensure all the harnesses are properly connected
		to the controller. Check to ensure the drive horsepower is proper for this size of washer.
		Turn on power to the washer. (See Note) If problem reappears, contact your Dexter
		representative.
12	Washer controller internal error	Turn off the power to the washer. Wait one minute. Turn on the power to the washer.
		(See Note) If problem reappears, contact your Dexter representative.
13	The control cannot communicate with the drive	Turn the power off to the washer. Check the data cable between the controller and the
		drive. If no problem is observed, turn on power to the washer and test. (See Note) If
		problem reappears, contact your Dexter representative.
14	Over-current on the drive or motor.	Turn the power off to the washer. Check the washer motor to ensure it turns freely. Check
		the wiring connections to the drive and motor. If no problem is observed, turn on power to
		the washer and test. (See Note) If problem reappears, contact your Dexter representative.
15	Over-voltage on the drive or motor.	Turn the power off to the washer. Check the washer motor to ensure it turns freely. Check
_		the wiring connections to the drive, braking resistors and motor. Measure incoming line
		voltage. If no problem is observed, turn on power to the washer and test. (See Note) If
		problem reappears, contact your Dexter representative.
16	Overheating of the drive	Turn the power off to the washer. Allow the drive to cool. Check the cooling fins of the
10	o vernealing of the arre	drive to ensure proper airflow. Check the wiring to the drive including the fan wiring. If no
		problem is observed, turn on power to the washer and test. (See Note) If problem
		reappears, contact your Dexter representative.
17	Overload of the drive or motor	Turn the power off to the washer. Check the washer motor to ensure it turns freely. Check
1/		the wiring connections to the drive and motor. If no problem is observed, turn on power to
18	Earth Fault to the drive	the washer and test. (See Note) If problem reappears, contact your Dexter representative. Turn the power off to the washer. Check the wiring connections to the drive and motor.
10		
		Check the earth wiring of the drive, motor and incoming connection to ensure a proper earth
10		is present. If no problem is found, contact your Dexter representative.
19	Low Voltage to the drive	Turn the power off to the washer. Check the wiring connections to the drive and motor. If
		no problem is observed, turn on power to the washer and test. (See Note) Measure the
		incoming line voltage. If problem reappears, contact your Dexter representative.
20	Internal drive error	Turn the power off to the washer. Wait one minute. Turn the power on to the washer.
		(See Note) If problem reappears, contact your Dexter representative.
21	Data error on communications between the	Turn the power off to the washer. Check the data cable between the controller and the
	controller and drive	drive. If no problem is observed, turn on power to the washer and test. (See Note) If
		problem reappears, contact your Dexter representative.

Note: Whenever power is turned off to the washer, it **must** remain off for one minute. The washer will not operate properly if this is not done.

5 TROUBLESHOOTING

<u>CAUTION</u>: Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

If any of the following symptoms occur on this washer, check the suggested remedies listed below. If all probable causes have been eliminated and the symptom still exists, contact your local Dexter agent for further troubleshooting assistance. See contact information at the end of this manual. Parts & Service Manuals from Dexter are also available for further troubleshooting assistance.

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 lit?
	Door Switch	Check for continuity through door switch when door is closed. If no continuity, adjust or replace door switch.
	Control Circuit Breaker	Check 7 amp circuit breaker for continuity. If no continuity, replace circuit breaker.
	Control Transformer	Check voltage output from control transformer for 24VAC. If voltage is incorrect, replace transformer.
	Check PCB board Check wiring between PCB	Check all wire connections for sure contacts. Check data cable phone type connectors unplug and VFD and replug with power removed.
	Check Relay PCB Check Door Lock	Check all wire connections for sure contact. Check that 24VAC power is at mechanism after start
Door does not lock	Mechanism Check display for fault code	button is pressed. Does F1 show on the front of display? If yes, follow tests described in fault code section.
	Door locking mechanism	Check to ensure that mechanism is receiving 24VAC from main relay PCB. If it is, replace.
	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 are 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 1 1/2 minutes of the cycle. Also check to see that the unlocking thermoactuator is receiving 24VAC during the last minute of the cycle. If the thermoactuators do not receive voltage at the correct times, change the timer. If the timing and voltage are correct, replace the thermoactuator.
Door will not open	Door Rod	Check to see that door rod from mechanism to lock assembly is long enough to allow lock assembly 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. 24V power only on for 20 second in wash bath.
	Water Inlet	Check water inlet screens for blockage and clean screens if necessary.

No hot water	Water	Check to ensure that water is turned on and operating.
in detergent	P-20 Wire	Check black & white wire harness.
dispenser	Harness	
Hot water	Water Valve Coil	Check coil continuity at terminals and replace if no
does not		continuity. Check for 24V power from main relay PCB.
enter tub in	Water Inlet	Check water inlet screens for blockage and clean if
wash		necessary.
	Water	Check to ensure that water is turned on and operating.
	Blk or Wht wire at main controller	Check black or white wires at Molex plug on PCB at main controller and at relay PCB.
	Pressure Switch	Check pressure switch continuity between terminals. If no continuity, check pressure switch hose for obstruction. If hose okay, change pressure switch.
No cold water to tub in	Water Valve Coil	Check coil continuity at terminals and replace if no continuity.
wash	Water Inlet Screens	Check water inlet screens for blockage and clean if necessary.
	Water	Check to ensure that water is turned on and operating.
	Blk or Wht wire at controller and main relay PCB	Check black or white wires at Molex plug on PCB at main controller and at relay PCB.
	Pressure Switch	Check pressure switch continuity between terminal contacts. If no continuity, check pressure switch hose for obstruction. If hose okay, change pressure switch.
Water comes	Drain Valve	Check these areas:
in but level	(open)	Drain valve blockage
does not rise		• Drain valve motor and gear train. If power but drain
		valve does not close, replace valve.
		• Power to the drain valve. If no power to drain valve,
	Blk or Wht wire at	check (brn/yel) circuit for power. Check black and white wires at Molex plug on main PCB
	controller	controller and at main relay PCB
Water does not flush	Water Valve Coil	Check coil continuity at terminals and replace if no continuity.
softener	Water Inlet	Check water inlet screens for blockage and clean if
compartment	Screens	necessary.
	Water	Check to ensure that water is turned on and operating.
Water does not flush softener compartment	Pressure Switch	Check pressure switch continuity between terminals. If no continuity, check pressure switch hose for obstruction. If hose okay, change pressure switch.
Water level too high	Pressure Switch	Check for blockage in pressure switch hose. Check for pressure switch opening circuit across terminals. Replace switch if contacts do not open.
Water drains slowly	Drain System	Check hoses and drain valve for blockage. Check if inadequate size. If necessary check building drains for blockage.
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. Inspect yellow enable wires from main relay PCB and at		
Excessive vibration	Mounting System	VFD. Check these areas: • Strength of mounting structure, concrete or base. • Mounting bolts may be loose and need tightening.		
	Drive Belt Loading	Worn drive belt can cause vibration and noise. Note: Small loads contribute to out of balance loading and increase vibration.		
Machine does not spin	Pressure Switch	Check pressure switch for continuity across terminals #21 & #22 indicating pressure switch has reset to the empty position. If no continuity, change pressure switch.		
Machine starts and does not operate	VFD	Check yellow enable wires from relay PCB P13 & motor P14to VFD advances through cycle are connected. Check fault code on VFD before removing power from the drive. Check orange P-15 wire for signal from door switches.		
Machine does not stop	Main PCB Braking Resistors	Main PCB controls time cycle at end of cycle 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.		

IMPORTANT

TRANSIENT VOLTAGE SURGE SUPPRESSORS

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

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

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

MANUFACTURER	<u>CONTACT</u>	<u>PHONE</u>	
Innovative Technology, Inc (Part of Eaton Corporation)	Distributor	1-800-809-2772 or <u>www.itvss.com</u>	
EFI Electronics Corporation (Part of Schneider Electric)	Factory	1-800-877-1174	
MCG Surge Protection	Factory	1-800-851-1508 or www.mcgsurge.com	
Advanced Protection Technologies Inc.	Factory	1-800-237-4567 or www.aptsurge.com	

6 SERVICE AND PARTS

The following parts are provided with each machine for use in installation.

Dexter Part Number	Description	<u>Quantity</u>
9990-027-017	Hose, Water Supply Red	1
9990-027-018	Hose, Water Supply Blue	1
8641-242-000	Washer, Inlet Hose	2
9565-003-001	Strainer, Inlet Hose	2

Contact distributor or Dexter Laundry, Inc. if a steel-mounting base is required.

COMMON SERVICE PARTS

Part Description	Dexter Part Number		
Circuit Breaker – 7A.	5198-211-002		
Motor – 2HP	9376-319-001		
Drive – Variable Frequency, 2HP	9375-030-003		
Belts - Drive	9040-079-005		
PCB Assembly – Control/Display	9473-004-008		
Valve – Water	9379-183-011		
Valve – Drain, 2" Ball	9379-200-002		
Switch – Door Closure	9539-492-001		

For service and parts information, contact your local Dexter agent. To find your local Dexter agent, use the Distributor Locator at the website shown below. If a Dexter agent is not available, contact **Dexter Laundry**, **Inc**. directly as listed below:

Mailing Address: 2211 West Grimes Avenue Phone: 1-800-524-2954 Fairfield, IA 52556 USA

Website: <u>www.dexter.com</u>



EC DECLARATION OF CONFORMITY WITH COUNCIL DIRECTIVE 2006/42/EC						
Directive:	ctive: Machinery Directive on machinery safety, 2006/42/EC					
Conforming Commercial Washin						
Machinery: Model Numbers: WN), WN0350, WN0400, WN0450, WNS450, WN0600,		
			WNS750, WN0900, WN0950, WN1200, WN1450			
Serial Numbers:						
		Dexter Laundry, Inc				
		2211 West Grimes Avenue Fairfield, IA 52556 USA				
Harmonised		Fairfield, IA 52556 ISO 12100:2010				
Standards	LIN	150 12100.2010		ety of machinery. General principles for design.		
Referenced	FN	349:1993+		ety of machinery. Minimum gaps to avoid crushing		
or Applied:		:2008		arts of the human body.		
••••••		614-1:2006+		ety of machinery. Ergonomic design principles.		
		:2009		minology and general principles.		
	EN	953:1997+		ety of machinery. Guards. General requirements		
	A1	:2009		he design and construction of fixed and movable		
			gua	rds.		
		1037:1995+	Safety of machinery. Prevention of unexpected start-			
		:2008	up.			
	ΕN	ISO 13857:2008	Safety of machinery. Safety distances to prevent			
			hazard zones being reached by upper and lower limbs.			
	ΕN	ISO 14119:2013	Safety of Machinery. Interlocking devices associated			
		100 10472 1.2000	with guards. Principles for design and selection.			
	EN	ISO 10472-1:2008	Safety requirements for industrial laundry machinery.			
EN		ISO 10472-2:2008	Common requirements.			
		130 10472-2.2008	Safety requirements for industrial laundry machinery. Washing machines and washer- extractors.			
		60335-1:2012/	Safety of machinery. Electrical equipment of			
	-	:2014		hines. General requirements.		
Specifications Declared:	wit	h which Conformity is	5	Essential Health and Safety Requirements of Annex1 of the Machinery Directive		
We hereby certify that the machinery described above conforms with the essential health and safety requirements of Council Directive 2006/42/EC on the approximation of the laws of the Member States relating to the safety of machinery.						
Date:						
Signed:						
Signatory:	Ma	irk Cox				
, , , , , , , , , , , , , , , , , , ,	Director of Engineering					



EC DECLARATION OF CONFORMITY WITH COUNCIL DIRECTIVE 2004/108/EC					
Directive:	Directive: Electromagnetic Compatibility Directive 2004/108/EC				
Conforming	5				
-	Machinery: Model Numbers: WN0300, WN0350, WN0400, WN0450, WNS450, WN0600 WN0650, WN0750, WNS750, WN0900, WN0950, WN1200, WN1450				
Manufacturer: Dexter Laundry, Inc.					
2211 West Grimes Avenue Fairfield, IA 52556 USA					
Harmonised	EN 55014-1:2006/A2:2011	Electromagnetic compatibility. Requirements for			
Standards Referenced	CISPR 14-1:2005/A2:2011	household appliances, electric tools and similar apparatus. Emission.			
or Applied:					
	CISPR 14-2:1997/A2:2008	household appliances, electric tools and similar apparatus. Immunity. Product family standard.			
	EN 61000-3-2:2014	Electromagnetic compatibility (EMC). Limits for harmonic current emissions (equipment input current \leq 16A per phase).			
	EN 61000-3-3:2013	Electromagnetic compatibility (EMC). Limitation of voltage changes, voltage fluctuations and flicker in public low- voltage supply systems for equipment with rated current \leq 16A per phase and not subject to conditional connection.			
Specifications with which Conformity is Declared:					
We hereby certify that the machinery described above conforms with the essential requirements of Council Directive 2004/108/EC on the approximation of the laws of the					
Member States relating to the electromagnetic compatibility.					
Date:					
Signed:					
Signatory:	Mark Cox Director of Engineering				



Declaration of Noise Emission

The Dexter Laundry Commercial Washing System Models Sound Pressure Levels per EN ISO 11202 as measured on similarly constructed models are as follows:

Model WCAD40KCB-59CN		Operating	Idle		
_	Operating 64 dB (A)	51 dB (A)			
L_{pAm} (Operator Position)					
<i>L_p</i> Am (Bystander Position)	69 dB (A)	51 dB (A)			
Ambient Correction Factor K3A calculated according to EN4 dB(A)ISO 11204 Appendix A.					
Measurements were made at a height of 1.5 m and 1 m from the Operator Position and Bystander positions.					
The difference between the extraneous noise level and the sound intensity level at each measuring point is: $L_{pAm} \Delta = 13 \text{ dB} (A)$					
The figures quoted are emission levels and are not necessarily safe working levels. While there is a correlation between the emission and exposure levels this cannot be used reliably to determine whether or not further precautions are required.					
Factors that influence the actual level of exposure of the workforce include characteristics of the work room, the other sources of noise, etc. such as the number of machines and other adjacent processes. Also, the permissible level of exposure can vary from country to country.					
This information, however, will enable the user of the machine to make a better evaluation of the hazard and risk.					
	Dexter Laundry 2211 West Grimes Avenue Fairfield, IA 52556 USA		E		