

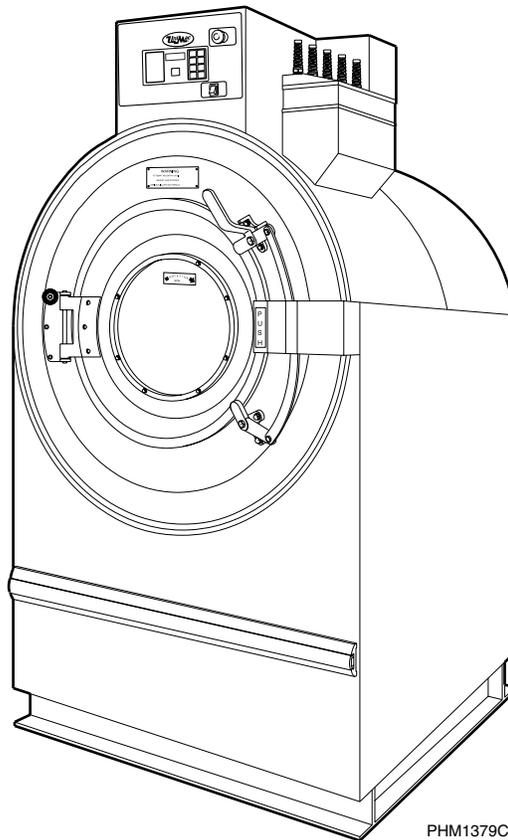
Washer-Extractors

Pocket Hardmount
A-Series Microcomputer

UW35AV
UW60AV
UW80AV
UW100AV
UW125AV

— Operation/Maintenance —

NOTA: El manual en español aparece después del manual en inglés.



PHM1379C

Keep These Instructions for Future Reference.

(If this machine changes ownership, this manual must accompany machine.)


Alliance
Laundry Systems

www.comlaundry.com

Part No. F232227
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Safety Information

Explanation of Safety Messages

Precautionary statements (“DANGER,” “WARNING” and “CAUTION”), followed by specific instructions, are found in this manual and on machine decals. These precautions are intended for the personal safety of the operator, user, servicer and those maintaining the machine.

	DANGER
DANGER indicates the presence of a hazard that will cause severe personal injury, death, or substantial property damage if the danger is ignored.	

	WARNING
WARNING indicates the presence of a hazard that can cause severe personal injury, death, or substantial property damage if the warning is ignored.	

	CAUTION
CAUTION indicates the presence of a hazard that will or can cause minor personal injury or property damage if the caution is ignored.	

Additional precautionary statements (“IMPORTANT” and “NOTE”) are followed by specific instructions.

IMPORTANT: The word “IMPORTANT” is used to inform the reader of specific procedures where minor machine damage will occur if the procedure is not followed.

NOTE: The word “NOTE” is used to communicate installation, operation, maintenance or servicing information that is important but not hazard related.

Important Safety Instructions

	WARNING
To reduce the risk of fire, electric shock, serious injury or death to persons when using your washer, follow these basic precautions:	
W023	

1. Read all instructions before using the washer.
2. Refer to the GROUNDING INSTRUCTIONS in the INSTALLATION manual for the proper grounding of the washer.
3. Do not wash textiles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, kerosene, waxes, cooking oils, dry-cleaning solvents, or other flammable or explosive substances as they give off vapors that could ignite or explode.
4. Do not add gasoline, dry-cleaning solvents, or other flammable or explosive substances to the wash water. These substances give off vapors that could ignite or explode.
5. Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. HYDROGEN GAS IS EXPLOSIVE. If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable; do not smoke or use an open flame during this time.
6. Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This is a safety rule for all appliances.
7. Before the washer is removed from service or discarded, remove the door to the washing compartment.
8. Do not reach into the washer if the wash drum is moving.

Safety Information

9. Do not install or store the washer where it will be exposed to water and/or weather.
10. Do not tamper with the controls.
11. Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out.
12. To reduce the risk of an electric shock or fire, DO NOT use an extension cord or an adapter to connect the washer to the electrical power source.
13. Use washer only for its intended purpose, washing textiles.
14. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
15. Install the washer according to the INSTALLATION INSTRUCTIONS. All connections for water, drain, electrical power and grounding must comply with local codes and be made by licensed personnel when required.
16. To reduce the risk of fire, textiles which have traces of any flammable substances such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc. or anything containing wax or chemicals such as in mops and cleaning cloths, must not be put into the washer. These flammable substances may cause the fabric to catch on fire by itself.
17. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
18. Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
19. Replace worn power cords and/or loose plugs.
20. Be sure water connections have a shut-off valve and that fill hose connections are tight. CLOSE the shut-off valves at the end of each wash day.
21. Loading door MUST BE CLOSED any time the washer is to fill, tumble or spin. DO NOT bypass the loading door switch by permitting the washer to operate with the loading door open.
22. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
23. Always follow the fabric care instructions supplied by the textile manufacturer.
24. Never operate the washer with any guards and/or panels removed.
25. DO NOT operate the washer with missing or broken parts.
26. DO NOT bypass any safety devices.
27. Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Common sense, caution and care must be exercised when installing, maintaining, or operating the washer.

Any problems or conditions not understood should be reported to the dealer, distributor, service agent or the manufacturer.

Introduction

Introduction

The “A” electronic control is composed of the electronic control unit and the output board with wiring harness. Only an authorized person should service components inside the machine. TURN OFF POWER, open lid and remove any cover present.

Electronic Control Unit

This portion of the control contains the “intelligence” – the micro-controller and the miscellaneous components on the printed circuit (PC) board. The board has a metal cover, which MUST be in place at all times during machine operation. Operation of the machine without this cover installed will void the warranty.

The control unit monitors and responds to input, gives information about the status of the washer and monitors and responds to inputs from the user interface (keypad). The control provides signals to the control output unit, which in turn operates the components that control the machine functions. This is located behind the machine control panel.

Control Output Fuse Board

This portion of the control contains the power supply for the control unit, and also the switching devices which power the components in the machine, all of which are on the output PC board. The switching devices are controlled by the control unit, and are solid state.

Harnessing

Wiring harnesses are modular – harnesses common to various configurations are similar, while those specific to a certain configuration can be added. There are harnesses for inputs to the control unit, for outputs from the control power/output unit to the machine components, and for the main incoming power to the control power/output unit.

Delivery Inspection

Upon delivery, visually inspect crate, protective cover, and unit for any visible shipping damage. If the crate, protective cover, or unit is damaged or signs of possible damage are evident, have the carrier note the condition on the shipping papers before the shipping receipt is signed, or advise the carrier of the condition as soon as it is discovered.

Remove the crate and protective cover as soon after delivery as possible. If any damage is discovered upon removal of the crate and/or protective cover, advise the carrier and file a written claim immediately.

Introduction

Nameplate Location

The nameplate is located at the rear of the machine and near supply valves. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1*.

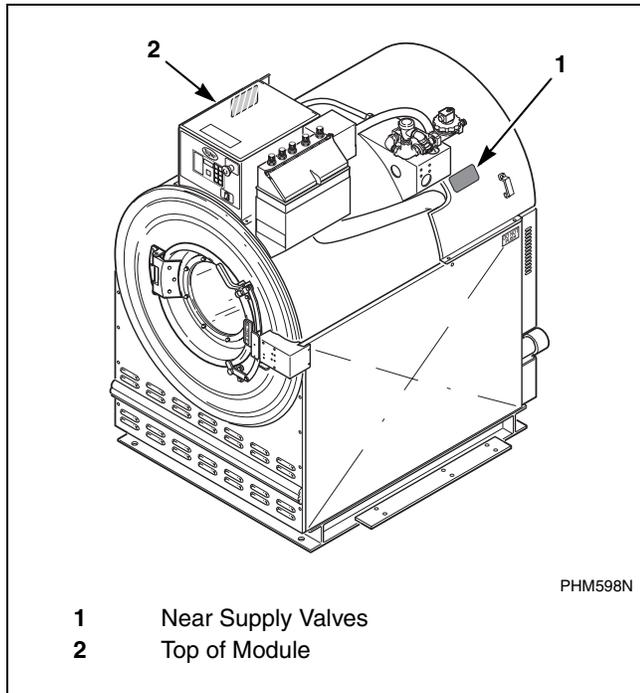


Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from whom the machine was purchased or contact Alliance Laundry Systems at (920) 748-3950 for the name and address of the nearest authorized parts distributor.

Customer Service

For technical assistance, call: (920) 748-3121 Ripon, Wisconsin.

Summary of Control Outputs and Inputs

Outputs

General outputs provide signals to operate the following components.

1. Hot Fill Valve
2. Cold Fill Valve
3. Drain Valve (normally open)
4. Door Unlock Solenoid Coil
5. Supply 1 (detergent)
6. Supply 2 (bleach)
7. Supply 3 (sour/softener)
8. Supply 4
9. Supply 5 or Optional 3rd (auxiliary) Fill Inlet (governed by the configuration settings)
10. Optional Heat

For standard models, the components for outputs shown as “optional” will not be populated on the output printed circuit board.

AC outputs are solid state outputs that operate either 120 Volt AC or 220 Volt AC (nominal voltage) components, depending on the control voltage configuration. Outputs are fused appropriately.

Inputs

1. Low Water Level
2. Medium Water Level
3. High Water Level
4. Door
5. Temperature Signal

Control Voltage

The control power supply is configured to operate on 220 Volt AC nominal RMS input voltage 50/60 Hertz.

Model Number Familiarization Guide		
Sample Model Number: UW60AVXU80001		
UW	Model Number Prefix	
60	Washer-Extractor Capacity (pounds dry weight of laundry)	
A	Type of Electrical Control	A = A – Control
V	Washer-Extractor Speed Capabilities	V = Variable Speed (Inverter)
X	Electrical Characteristics	
U8	Design Series	
0001	Option Identification (varies from machine to machine)	

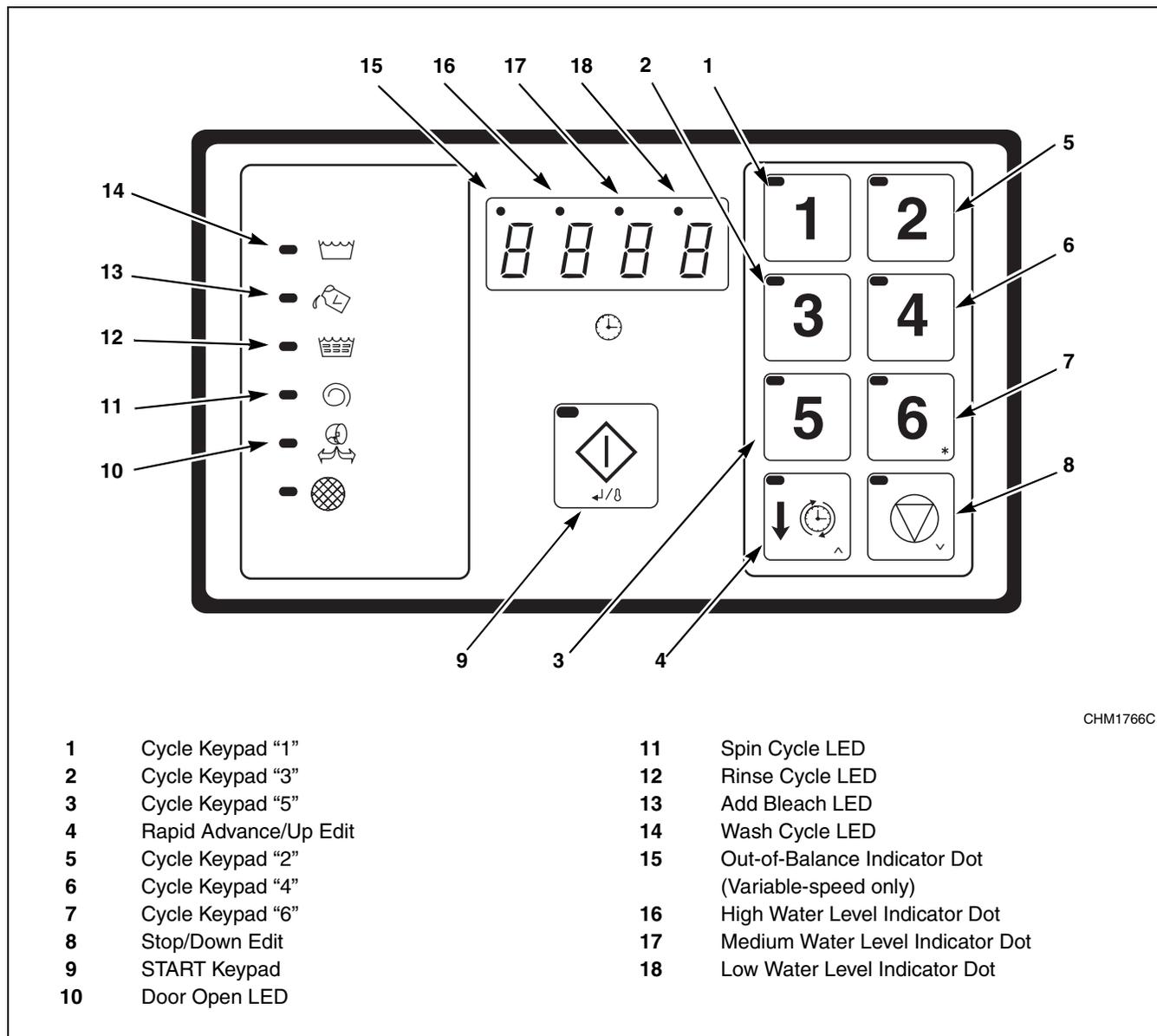
Model No.	UW60AVXU80001			
Serial No.	000000000000			
Voltage	200 – 240	Amps	10	
Circuit Breaker	15 Amps			
Hz	50 – 60	Wire	2/3	Phase
				S 3
Max. Load	60 LB	27 KG	Max. Speed	594 RPM
Elec. Heating	N/A	Steam Press.	N/A PSI	0.0 BAR
Drawings:				
ETL Listed Conforms To ANSI/UL Std. 1206, 3rd Ed Certified To CAN/CSA Std. C22.2 No.53-1968				

EXAMPLE OF NAMEPLATE

PHM625N

Operation

Control Panel



CHM1766C

Figure 2

Operation

Summary of Major Features

LED for Machine Functions	LED lights inform operator which machine function is active. DOOR LED lights to inform operator that the door can be opened or should be closed. The circle LED indicates that the filter needs cleaning.
Water Levels	Three (3) – Contacts from pressure switch (test cycle)
Main LED display	4 digit LED display counts down cycle time. Lights in LED display indicate out-of-balance conditions and, in test cycle, water level. Display shows “01” as the final spin time.
Cycle selection keypads	Six (6) cycle select keypads. Thirty (30) cycles may be selected using these keys.
START keypad	Press to start a cycle after cycle selection is made. LED light will flash to prompt user to press keypad.
“Advance” keypad	Advance rapidly through cycle by pressing the Advance keypad.
Fill Temperatures	Cold, Hot, Warm
Supplies	Five (5) or Four (4) with auxillary fill value option.
Agitation Types	AG 1-4
Drain Options	Normally open gravity drain
Cycle Count	0 to 9999 cannot be reset – Rolls over after 9999

Table 1

Display Indicators

Table 2 lists the various displays and what they mean. The operator should become familiar with these machine displays.

Display	Meaning
tESt	Diagnostic test cycle selected or enabled
SPIn	Spin (extract) step
SUP1	Supply signal 1 (“S1” output), normally detergent
SUP2	Supply signal 2 (“S2” output), normally bleach
SUP3	Supply signal 3 (“S3” output), normally softener
SUP4	Supply signal 4
SUP5	Supply signal 5
SUP6	Supply signal 6
SUP7	Supply signal 7
SdLY	Spin coast (motor coasts after high speed extract)
CFIL	Cold Fill
HFIL	Hot Fill
bFIL	Warm Fill (cold + hot)
bLCH	Control will also light “add bleach” indicator
PASS	Variable-speed ONLY – balance “PASS” condition; shows in “test” cycle only
FAIL	Variable-speed ONLY – balance “FAIL” condition; shows in “test” cycle only
bAL?	Variable-speed ONLY – meaning: “Do you wish to enter balance detection test routine?”
CY__	Cycle number (followed by number 1 through 46)
SPn1	Variable-speed ONLY – low spin speed (the lowest of 3 spin speeds)
SPn2	Variable-speed ONLY – medium spin speed (the middle of 3 spin speeds)
SPn3	Variable-speed ONLY – high spin speed (the highest of 3 spin speeds)
For	Wash speed forward (during test cycle)
rEv	Wash speed reverse (during test cycle)
dISt	Variable-speed ONLY – distribution speed (during test cycle)
LO	Low water level
nEd	Medium water level
HI	High water level
CEL	Display all temperatures in degrees Celsius
FAR	Display all temperatures in degrees Fahrenheit
__C	The first 3 digits are reserved for temperature reading, C indicates “degrees Celsius”

Table 2

Operation

Display	Meaning
___F	The first 3 digits are reserved for temperature reading, F indicates “degrees Fahrenheit”
FILL	“Fill error” – machine did not fill to programmed water level within 10 minutes
door	“Door” opened during cycle
SHUt/door	Machine user must “shut door” of the washer to allow the cycle to begin
CAnt/OPEn	Control cannot unlock the door
USH1	“Wash 1” segment
USH2	“Wash 2” segment
USH3	“Wash 3” segment
USH4	“Wash 4” segment
USH5	“Wash 5” segment
rIn1	“Rinse 1” segment
rIn2	“Rinse 2” segment
rIn3	“Rinse 3” segment
rIn4	“Rinse 4” segment
rIn5	“Rinse 5” segment
rIn6	“Rinse 6” segment (final rinse)
AG1	Agitation 1, 18 seconds forward, 3 seconds off, 18 seconds reverse, 3 seconds off
AG2	Agitation 2, 3 seconds forward, 27 seconds off, 3 seconds reverse, 27 seconds off
AG3	Agitation 3, 10 seconds forward, 20 seconds off, 10 seconds reverse, 20 seconds off
AG4	Agitation 4, 4 seconds forward, 56 seconds off, 4 seconds reverse, 56 seconds off
donE	Cycle has concluded
drAI	Drain selected for segment; also indicates in drain step during 2 speed version test cycle
----	Flashes for a period of time (for safety) after power up while keeping outputs OFF

Table 2 (Continued)

Operating Instructions

1. When display shows “Cyxx,” washer-extractor is ready to be loaded with laundry.
2. Use left hand to press and hold the door unlock button located on the lower right front of the control panel. Refer to *Figure 3*.

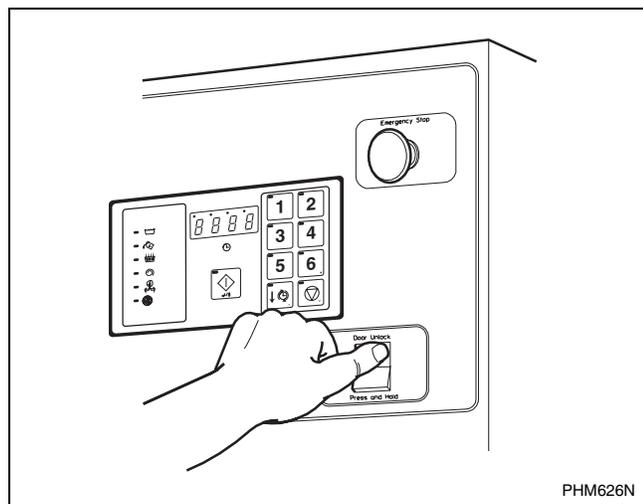


Figure 3

3. Use right hand to turn door handle clockwise and swing the door left to open. Refer to *Figure 4*.

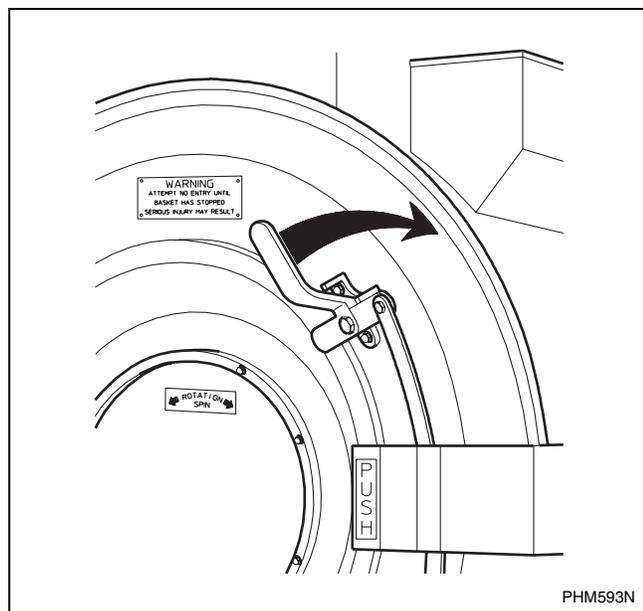


Figure 4

4. Load the washer-extractor to full capacity whenever possible, but do not exceed the rated dry-weight capacity of the machine if the fabric to be washed is quite dense, closely woven, and heavily soiled.

Overloading can result in an inferior wash. The operator may need to experiment to determine load size based on fabric content, soil content, and level of cleanliness required. Do not underload the machine. Underloading can result in premature bearing and sealing failure and out-of-balance situations.

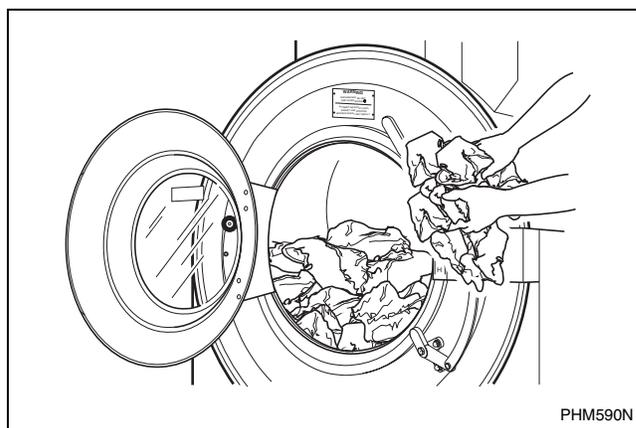


Figure 5

	WARNING
<p>Do not operate machine in a cycle with program keymode switch in program position. Program keymode switch must be in run position at all times, except when editing or programming cycle or setup information.</p>	
W528	

	WARNING
<p>Do not operate machine in a cycle or if spinning with program keymode switch in program position.</p>	
W529	

Operation

	CAUTION
<p>Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.</p>	
SW025	

NOTE: When washing items which may disintegrate or fragment, such as mop heads or sponges, use laundry nets to prevent drain blockage.

IMPORTANT: To prevent out-of-balance conditions, premature wear or damage to machine when using laundry nets, use several small nets in a load.

5. When loading is complete, make sure that all fabric is inside the basket.
6. Close and lock the door.
7. Dry supplies can be placed in the supply dispenser compartment cups prior to the start of each cycle.

Liquid supplies can be injected directly into the supply dispenser by an external chemical supply system.

NOTE: Supply dispenser compartment cups must *not* be removed when an external chemical injection supply system is attached to the washer-extractor.

8. The default wash cycle will display. If desired, select a different cycle at this point. Refer to *Table 3*.
9. Press the Start keypad.

NOTE: The cycle number can be changed during the **FIRST FILL ONLY** by pressing another cycle select key.

At the conclusion of the cycle, the display will show 'doNE'. The door can be unlocked. At this point the washer-extractor may be unloaded.

When the door is opened, the display will revert to showing "----" and the default cycle.

Cycle Number	Cycle Name
1	Permanent Press Light Soil
2	Cotton Terrycloth Light Soil
3	Permanent Press Medium Soil
4	Cotton Terrycloth Medium Soil
5	Permanent Press Heavy Soil
6	Cotton Terrycloth Heavy Soil
11	Table Napery Blends Colors
12	Table Napery Blends Whites
13	VISA Table Napery Colors
14	VISA Table Napery Whites
15	Rags Heavy Soil
16	Reclaim
21	Personals with Bleach
22	Personals No Bleach
23	Delicates Spreads Cold Water
24	Delicates Spreads Warm Water
25	Custom #1
26	Custom #2
31	Normal 90°C (Pre Wash)
32	Normal 90°C
33	Normal 60°C (Pre Wash)
34	Normal 60°C
35	Normal 40°C (Pre Wash)
36	Custom #3
41	Permanent Press 90°C (Pre Wash)
42	Permanent Press 90°C
43	Permanent Press 60°C (Pre Wash)
44	Permanent Press 60°C
45	Fine 40°C
46	Custom #4

Table 3

Maintenance

Routine maintenance maximizes operating efficiency and minimizes downtime. The maintenance procedures described below will prolong the life of the machine and help prevent accidents.

	WARNING
Be careful when handling sheet-metal parts. Sharp edges can cause personal injury. Wear safety glasses and gloves, use the proper tools, and provide adequate lighting.	
SW035	

	CAUTION
Replace all panels that are removed to perform service and maintenance procedures. Do not operate the machine with missing guards or with broken or missing parts. Do not bypass any safety devices.	
SW019	

Daily, weekly, monthly, and quarterly checklists are provided at the end of this section. Laminate the checklists to preserve them for repeated copying. Operators and technicians are encouraged to add checks specific to their washer-extractor's particular application. Where possible, space is provided on the checklists for this purpose.

The following maintenance procedures must be performed regularly at the required intervals.

Daily

Beginning of Day

1. Inspect water inlet valve hose connections on the back of the washer-extractor for leaks.
2. Inspect steam hose connections for leaks (where applicable).
3. Verify that insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.
4. Check door interlock before starting operation:
 - a. Attempt to start the washer-extractor with the door open. The washer-extractor should not start with the door open.
 - b. Close the door without locking it and attempt to start the washer-extractor. The washer-extractor should not start with the door unlocked.
 - c. Close and lock the door and start a cycle. Attempt to open the door while the cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, call a service technician.

Maintenance

End of Day

1. Clean the AC drive box filters:
 - a. Snap off the external plastic cover which contains the filter.
 - b. Remove the foam filter from the cover.
 - c. Wash the filter with warm water and allow to air dry. Filter can be vacuumed clean.
2. Clean the door gasket of residual detergent and all foreign matter.
3. Clean automatic supply dispenser and lid inside and out with mild detergent. Rinse with clean water.
4. Clean powder dispenser and lid with mild detergent. Rinse with clean water.
5. Clean washer-extractor's top, front, and side panels with mild detergent. Rinse with clean water.
6. Leave loading door open at the end of each day to allow moisture to evaporate.

NOTE: Unload the washer-extractor promptly after each completed cycle to prevent moisture buildup. Leave loading door open at the end of each completed cycle to allow moisture to evaporate.

Weekly

1. Check the washer-extractor for leaks.
 - a. Start an unloaded cycle to fill the washer-extractor.
 - b. Verify that door and door gasket do not leak.
 - c. Verify that the drain valve is operating and that the drain system is free from obstruction. If water does not leak out during the prewash segment, drain valve is closed and functioning properly.

Monthly

NOTE: Disconnect power to the washer-extractor at its source before performing the monthly maintenance procedures.

1. Each month OR after every 200 hours of operation, lubricate bearings. (Locate the bearing lubrication decal at the rear of the left side of the control module, as viewed from the front of the washer-extractor.)

The grease must have the following characteristics:

- NLGI Grade 2
- Lithium-based
- Water-insolubl
- Anti-rusting
- Anti-oxidizing
- Mechanically stable

The grease must have adequate base oil viscosity with one of the following ratings:

- ISO VG 150 (135–165 cSt at 40°C or 709–871 SUS at 100°F)
- ISO VG 220 (198–242 cSt at 40°C or 1047–1283 SUS at 100°F)
- An SAE 40 rating is also acceptable as long as the cSt or SUS values are within the specified ranges.

Pump the grease gun slowly, permitting only two strokes.

2. Clean the AC drive cooling fins:
 - a. Remove the AC drive box cover.
 - b. Blow the fins clean using compressed air at a pressure of 60 – 90 psi or canned compressed air. Use care to avoid damaging cooling fan or other components.

NOTE: No amount of visible foreign matter should be allowed to accumulate on the fins or the finger guard.

3. Use the following procedures to determine if belts require replacement or adjustment. Call a qualified service technician in either case.
 - a. Check belts for uneven wear and frayed edges.
 - b. After disconnecting power to the washer-extractor and removing all panels necessary for access to the drive belt, use one of the following methods to verify that belts are properly tensioned:
 - **Tension Gauge.** Belt tension measurements should be taken as close to the center of the belt span as possible. Measurements can be performed with the Belt Tension Checker. Make adjustments for the motor pulley diameter and belt type on the machine.

If belt tension adjustment is required, loosen motor mounting bolts and slide motor along motor plate to change the belt tension. Retighten motor mounting bolts before verifying belt tension.

- **Deflection.** Refer to *Figure 6*. Loosen motor mounting bolts and slide motor along motor plate to change belt span length. Belt tension measurements should be taken as close to the center of the belt span as possible. For every inch of belt span length, the belt should deflect 1/64 of an inch, or 0.40 millimeter, with an exerted force of 5.25 pounds for a new belt or 3.5 pounds for a used belt. A belt with a span length of 20 inches should deflect 20/64 of an inch, or 7.8 millimeters. The belt(s) should be as loose as possible without allowing slippage during peak load condition. An initial (run-in) force of 7 lbs. should be used to set the belt tension. An operating (normal) force of 5 lbs. should be used after the washer-extractor has been operated for a few hours.

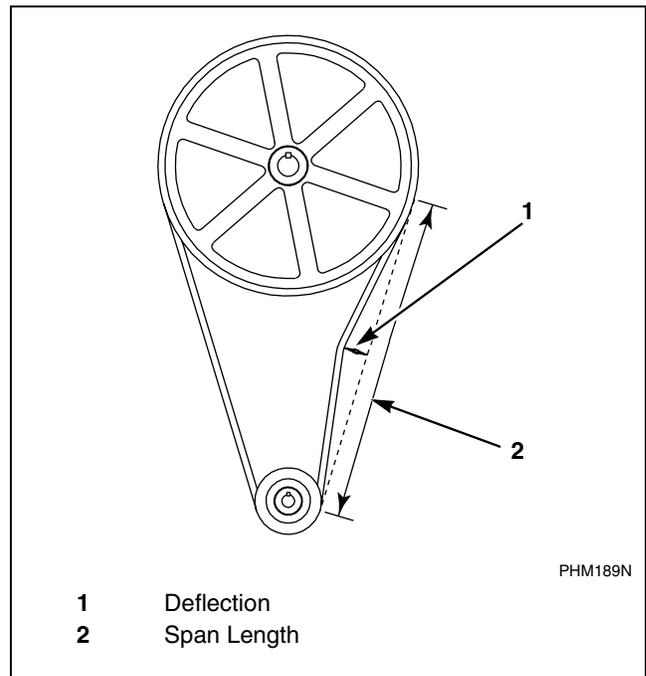


Figure 6

Maintenance

- c. Verify that belts are properly aligned by checking pulley alignment. Place a straightedge across both pulley faces. The straightedge should make contact with the pulleys in four places. Refer to *Figure 7*.

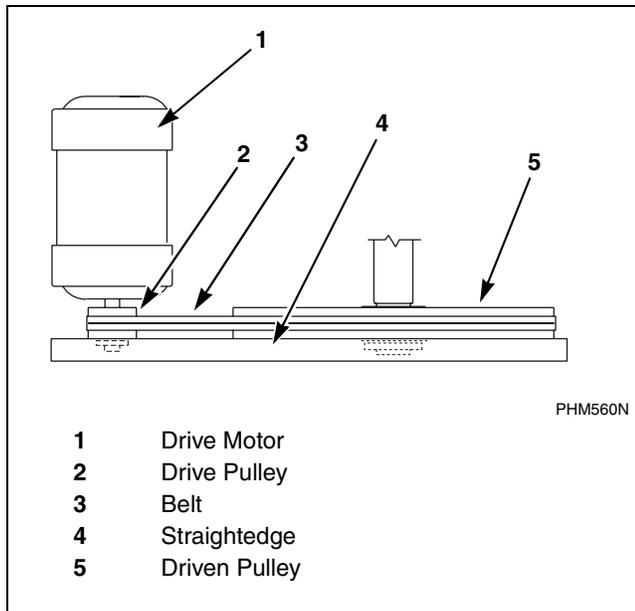


Figure 7

4. Remove back panel and check overflow hose and drain hose for leaks.
5. Unlock the hinged lid and check the supply dispenser hoses and hose connections.
6. Clean inlet hose filter screens:
 - a. Turn water off and allow valve to cool, if necessary.
 - b. Unscrew inlet hose and remove filter screen.
 - c. Clean with soapy water and reinstall. Replace if worn or damaged.
7. Tighten motor mounting bolt locknuts and bearing bolt locknuts, if necessary.
8. Use compressed air to clean lint from motor.
9. Clean interior of washer-extractor, both basket and shell, by wiping with a water-soaked sponge or cloth.
10. Use compressed air to ensure that all electrical components are free of moisture and dust.
11. Remove chemical supply components and check for residual chemicals. Clean as necessary and replace.

Quarterly

NOTE: Disconnect power to the washer-extractor before performing the quarterly maintenance procedures.

1. Tighten door hinges and fasteners, if necessary.
2. Tighten anchor bolts, if necessary.
3. Verify that the drain motor shield is in place and secure.
4. Check all painted surfaces for bare metal. (Matching gray paint is available from the manufacturer.)
 - If bare metal is showing, paint with primer or solvent-based paint.
 - If rust appears, remove it with sandpaper or by chemical means. Then paint with primer or solvent-based paint.
5. Clean steam filter, where applicable.
 - a. Turn off steam supply and allow time for the valve to cool.
 - b. Unscrew nut.
 - c. Remove element and clean.
 - d. Replace element and nut.
6. Verify frame-mounted vibration safety switch gap setting. Check for proper switch function.

Care of Stainless Steel

Maintain the natural beauty of stainless steel and prolong its service life by following these tips:

- Ordinary deposits of dirt and grease can be removed with detergent and water. The metal should be thoroughly rinsed and dried after washing. Periodic cleaning will help to maintain the bright surface appearance and prevent corrosion.
- Contact with dissimilar metals should be avoided whenever possible. This will help prevent galvanic corrosion when salty or acidic solutions are present.
- Salty or acidic solutions should not be allowed to evaporate and dry on stainless steel. They may cause corrosion. Ensure that the stainless steel is wiped clean of acidic solution residues.
- Deposits that adhere to the stainless steel should be removed, especially from crevices and corners. When using abrasive cleaners, always rub in the direction of the polish lines or “grain” of the stainless steel to avoid scratch marks. Never use ordinary steel wool or steel brushes on the stainless steel. Use stainless steel wool or soft non-metal bristle brushes.
- If the stainless steel appears to be rusting, the source of the rust may actually be an iron or steel part not made of stainless steel, such as a nail or screw. One remedy is to paint all carbon steel parts with a heavy protective coating. Stainless steel fasteners should be used whenever possible.
- Discolorations or heat tint from overheating may be removed by scouring with a powder or by employing special chemical solutions.
- Sanitizers or sterilizing solutions should not be left in stainless steel equipment for prolonged periods of time. They often contain chlorine, which may cause corrosion. The stainless steel should be cleaned and rinsed thoroughly of any solution containing chlorine.
- When an external chemical supply system is used, make certain that no siphoning of chemicals occurs when the washer-extractor is not in use. Highly concentrated chemicals can cause severe damage to stainless steel and other components within the washer-extractor. Damage of this kind is not covered by the manufacturer’s warranty. Locate the pump below the washer-extractor’s injection point to prevent siphoning of chemicals into the washer-extractor. Refer to the chemical injection supply system in the Installation Manual.

Daily Preventive Maintenance Checklist

Machine _____	Week Of: _____						
Operator _____	Days						
Checks	1	2	3	4	5	6	7
Observe All Safety Warnings! Disconnect power to the washer-extractor before performing the daily maintenance procedures.							
Beginning of Day							
1. Inspect water inlet valve hose connections on the back of the washer-extractor for leaks.							
2. Inspect steam hose connections for leaks (where applicable).							
3. Verify that insulation is intact on all external wires and that all connections are secure.							
4. Check door lock and interlock before starting operation:							
a. Attempt to start the washer-extractor with door open.							
b. Close the door without locking it and attempt to start the washer-extractor.							
c. Close and lock the door, start a cycle, and attempt to open the door while the cycle is in progress.							
End of Day							
1. Clean the AC drive box filters.							
2. Clean the door gasket of all foreign matter.							
3. Clean automatic supply dispenser and lid.							
4. Clean the washer-extractor's top, front, and side panels.							
5. Leave loading door open at the end of each day to allow moisture to evaporate.							
NOTE: Unload the washer-extractor promptly after each completed cycle to prevent moisture buildup. NOTE: Leave loading door open after each completed cycle to allow moisture to evaporate.							

Weekly Preventive Maintenance Checklist

Machine _____	Month _____				
Operator _____	Week Ending:				
Checks	/	/	/	/	/
Observe All Safety Warnings! Disconnect power to the washer-extractor before performing the weekly maintenance procedures.					
1. Check the washer-extractor for leaks:					
a. Start an unloaded cycle to fill the washer-extractor.					
b. Verify that door and door gasket do not leak.					
c. Verify that the drain valve is operating.					
2.					
3.					
4.					
5.					
6.					
7.					

Monthly Preventive Maintenance Checklist

Machine _____ Operator _____	Month			
Checks				
Observe All Safety Warnings! Disconnect power to the washer-extractor before performing the monthly maintenance procedures.				
1. Each month OR after every 200 hours of operation , lubricate bearings.				
2. Clean the AC drive fins.				
3. Determine if belts require replacement or adjustment:				
a. Check belts for uneven wear and frayed edges.				
b. Verify that belts are properly tensioned.				
c. Verify that belts are properly aligned.				
4. Remove back panel and check hoses for leaks.				
5. Check supply dispenser hoses and connections.				
6. Clean inlet hose filter screens. Replace if worn or damaged.				
7. Tighten motor mounting bolt locknuts and bearing bolt locknuts, if necessary.				
8. Use compressed air to clean lint from motor.				
9. Clean interior of washer-extractor, both basket and shell, by wiping with a water-soaked sponge or cloth.				
10. Use compressed air to clean moisture and dust from all electrical components.				
11.				
12.				
13.				
14.				

Quarterly Preventive Maintenance Checklist

Machine _____	Quarter			
Operator _____				
Checks				
Observe All Safety Warnings! Disconnect power to the washer-extractor before performing the quarterly maintenance procedures.				
1. Tighten door hinges and fasteners, if necessary.				
2. Tighten anchor bolts, if necessary.				
3. Verify that the drain motor shield is in place and secure.				
4. Check all painted surfaces for bare metal. Repair, if necessary.				
5. Clean steam filter, if applicable.				
6. Check vibration safety switch gap setting to switch function.				
7.				
8.				
9.				
10.				
11.				

Removal from Service

Decommissioning

In the event that the machine must be decommissioned, follow these steps:

1. Remove the chemical injection supply system, if applicable.
 - a. Have a qualified electrician disconnect power to the chemical injection supply system at its source.
 - b. Using the manufacturer's instructions, carefully remove the chemical injection supply system from the machine. Make certain that no chemical supplies come into contact with skin or clothing.
2. Clean interior of machine, both basket and shell.
 - a. Flush supply dispenser (soap dish) with water.
 - b. Run a short rinse cycle to clean detergent and chemical residues from the interior of the machine.
3. Disconnect electrical power.
 - a. Shut off main power supply at the breaker box or main control panel.
 - b. Do not attempt to disconnect power supply wires from power supply. Have a qualified electrician disconnect power to machine and reuse unit, if applicable, at its source.
4. Disconnect hoses.
 - a. Disconnect drain hose from sump, gutter, or drain.
 - b. Turn off water supply. Disconnect individual hot and cold water inlet hoses from the machine.
 - c. Allow time for residual water in the machine to drain. Then disconnect drain hose from the machine.
5. Disconnect steam hose, if applicable.
 - a. Turn off steam supply and allow time for the valve to cool.
 - b. Disconnect steam hose from machine.
6. Remove the washer-extractor from its foundation pad.
 - a. Keep all panels in place to provide stability when moving the machine.
 - b. Verify that door is closed and secure.
 - c. Loosen and remove anchor bolts holding machine base to floor.
 - d. Break the grout seal at each corner of the machine, using a crowbar.
 - e. Use crowbars at the front corners to lift the machine a few inches so that the forks of a forklift truck can reach under the machine.
 - f. Bolting the base frame to a pallet will facilitate removal to a transport vehicle.

