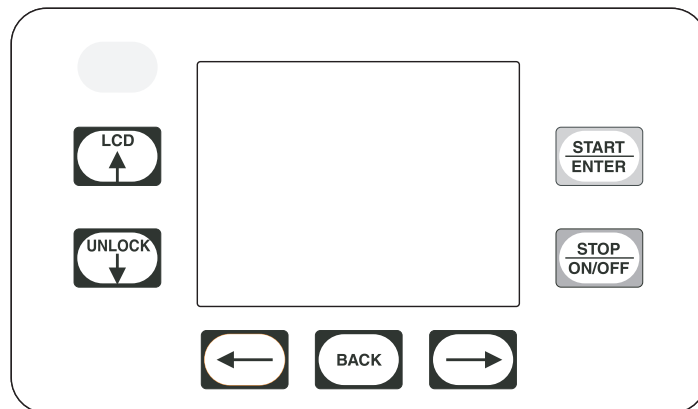


Washer-Extractor

Pocket Hardmount
UniLine Control

Refer to Page 8 for Model Identification



UniLine Control

PHM1401C

Keep These Instructions for Future Reference.

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

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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.


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. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket.
15. ALWAYS disconnect the washer from electrical supply before attempting any service. Disconnect the power cord by grasping the plug, not the cord.
16. 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.
17. 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.
18. Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
19. 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.
20. Replace worn power cords and/or loose plugs.
21. 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.
22. 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.
23. 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).
24. Always follow the fabric care instructions supplied by the textile manufacturer.
25. Never operate the washer with any guards and/or panels removed.
26. DO NOT operate the washer with missing or broken parts.
27. DO NOT bypass any safety devices.
28. 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.
29. Do not attempt to open the door until water has drained and all moving parts have stopped.
30. Do not climb onto or into the washer.
31. Be aware that hazardous chemicals may be present.
32. Be aware that hot water is used to flush the supply dispenser.
33. Wear hand and eye protection when adding detergents and chemicals.
34. Avoid opening the dispenser lid while machine is running.
35. Do not attach anything to the supply dispenser's nozzles. The air gap must be maintained.
36. Use only low-sudsing, no-foaming types of commercial detergent.
37. Do not operate the machine without the water reuse plug or water reuse system in place.


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.

	WARNING
<p>This machine must be installed, adjusted, and serviced by qualified electrical maintenance personnel familiar with the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury and/or equipment damage, and may void the warranty.</p>	
<small>SW004</small>	

	CAUTION
<p>Ensure that the machine is installed on a level floor of sufficient strength and that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.</p>	
<small>SW020</small>	

	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>	
<small>SW025</small>	


	WARNING
<p>Never touch internal or external steam pipes, connections, or components. These surfaces can be extremely hot and will cause severe burns. The steam must be turned off and the pipe, connections, and components allowed to cool before the pipe can be touched.</p>	
<small>SW014</small>	

Safety Decals

Safety decals appear at crucial locations on the machine. Failure to maintain legible safety decals could result in injury to the operator or service technician.

To provide personal safety and keep the machine in proper working order, follow all maintenance and safety procedures presented in this manual. If questions regarding safety arise, contact the manufacturer immediately.

Operator Safety


	WARNING
<p>NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.</p>	
SW012	

To ensure the safety of machine operators, the following maintenance checks must be performed daily:

1. Prior to operating the machine, verify that all warning signs are present and legible. Missing or illegible signs must be replaced immediately. Make certain that spares are available.
2. Check door interlock before starting operation of the machine:
 - a. Attempt to start the machine with the door open. The machine should not start with the door open.
 - b. Close the door without locking it and attempt to start the machine. The machine 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.
3. Do not attempt to operate the machine if any of the following conditions are present:
 - a. The door does not remain securely locked during the entire cycle.
 - b. Excessively high water level is evident.
 - c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

	WARNING
<p>Never operate the machine with a bypassed or disconnected balance system. Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.</p>	
SW039	

Safe Operating Environment

Safe operation requires an appropriate operating environment for both the operator and the machine. If questions regarding safety arise, contact the manufacturer immediately.

Environmental Conditions

- *Ambient Temperature.* Water in the machine will freeze at temperatures of 32°F (0°C) or below.


Temperatures above 120°F (50°C) will result in more frequent motor overheating and, in some cases, malfunction or premature damage to solid state devices that are used in some models. Special cooling devices may be necessary.

Water pressure switches are affected by increases and decreases in temperature. Every 25°F (10°C) change in temperature will have a 1% effect on the water level.

- *Humidity.* Relative humidity above 90% may cause the machine's electronics or motors to malfunction or may trip the ground fault interrupter. Corrosion problems may occur on some metal components in the machine.

If the relative humidity is below 30%, belts and rubber hoses may eventually develop dry rot. This condition can result in hose leaks, which may cause safety hazards external to the machine in conjunction with adjacent electrical equipment.

- *Ventilation.* The need for make-up air openings for such laundry room accessories as dryers, ironers, water heaters, etc., must be evaluated periodically. Louvers, screens, or other separating devices may reduce the available air opening significantly.
- *Radio Frequency Emissions.* A filter is available for machines in installations where floor space is shared with equipment sensitive to radio frequency emissions.
- *Elevation.* If the machine is to be operated at elevations of over 3280 feet (1000 m) above sea level, pay special attention to water levels and electronic settings (particularly temperature) or desired results may not be achieved.
- *Chemicals.* Keep stainless steel surfaces free of chemical residues.


	DANGER
<p>Do not place volatile or flammable fluids in any machine. Do not clean the machine with volatile or flammable fluids such as acetone, lacquer thinners, enamel reducers, carbon tetrachloride, gasoline, benzene, naphtha, etc. Doing so could result in serious personal injury and/or damage to the machine.</p>	
<small>SW002</small>	

- *Water Damage.* Do not spray the machine with water. Short circuiting and serious damage may result. Repair immediately all seepage due to worn or damaged gaskets, etc.

Machine Location

- *Foundation.* The concrete floor must be of sufficient strength and thickness to handle the floor loads generated by the high extract speeds of the machine. Refer to Installation manual.
- *Service/Maintenance Space.* Provide sufficient space to allow comfortable performance of service procedures and routine preventive maintenance.

Consult installation instructions for specific details.


	CAUTION
<p>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.</p>	
<small>SW019</small>	

Input and Output Services

- *Water Pressure.* Best performance will be realized if water is provided at a pressure of 30 – 85 psi (2.0 – 5.7 bar). Although the machine will function properly at lower pressure, increased fill times will occur. Water pressure higher than 100 psi (6.7 bar) may result in damage to machine plumbing. Component failure(s) and personal injury could result.
- *Steam Heat (Optional) Pressure.* Best performance will be realized if steam is provided at a pressure of 30 – 80 psi (2.0 – 5.4 bar). Steam pressure higher than 125 psi (8.5 bar) may result in damage to steam components and may cause personal injury.

For machines equipped with optional steam heat, install piping in accordance with approved commercial steam practices. Failure to install the supplied steam filter may void the warranty.

- *Drainage System.* Provide drain lines or troughs large enough to accommodate the total number of gallons that could be dumped if all machines on the site drained at the same time from the highest attainable level. If troughs are used, they should be covered to support light foot traffic.
- *Power.* For personal safety and for proper operation, the machine must be grounded in accordance with state and local codes. The ground connection must be to a proven earth ground, not to conduit or water pipes. Do not use fuses in place of the circuit breaker. An easy-access cutoff switch should also be provided.

	WARNING
<p>Ensure that a ground wire from a proven earth ground is connected to the ground lug near the input power block on this machine. Without proper grounding, personal injury from electric shock could occur and machine malfunctions may be evident.</p>	
<small>SW008</small>	

Always disconnect power and water supplies before a service technician performs any service procedure. Where applicable, steam and/or compressed air supplies should also be disconnected before service is performed.

AC Inverter Drive

Machines equipped with the AC inverter drive require special attention with regard to the operating environment.

- An especially dusty or linty environment will require more frequent cleaning of the AC inverter drive cooling fan filter and of the AC inverter drive itself.
- Power line fluctuations from sources such as uninterruptible power supplies (UPS) can adversely affect machines equipped with the AC inverter drive. Proper suppression devices should be utilized on the incoming power to the machine to avoid problems.
- A clean power supply free from voltage spikes and surges is absolutely essential for machines equipped with the AC inverter drive. Nonlinear inconsistencies (peaks and valleys) in the power supply can cause the AC inverter drive to generate nuisance errors.
- Sufficient space to perform service procedures and routine preventive maintenance is especially important for machines equipped with the AC inverter drive.

This manual is designed as a guide to operating and maintaining the Pocket Hardmount washer-extractor equipped with the AC inverter drive.

NOTE: All information, illustrations, and specifications contained in this manual are based on the latest product information available at the time of printing. We reserve the right to make changes at any time without notice.

Introduction

Model Identification

Information in this manual is applicable to these models:








UW35TV
UW60TV
UW80TV
UW100TV
UW125TV
UW150TV

Nameplate Location

The nameplate is located on the back of the machine. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1* and *Figure 2*.

Nameplate Location - UniLinc Models

On UniLinc models, nameplate information is also programmed into the control. To access machine ID through the control:

1. Press and hold , then , then  keypads at the same time.
2. Press the  keypad until Diagnostic is highlighted.
3. Press the  keypad.
4. Press the  keypad until machine ID is highlighted.
5. Press the  keypad.

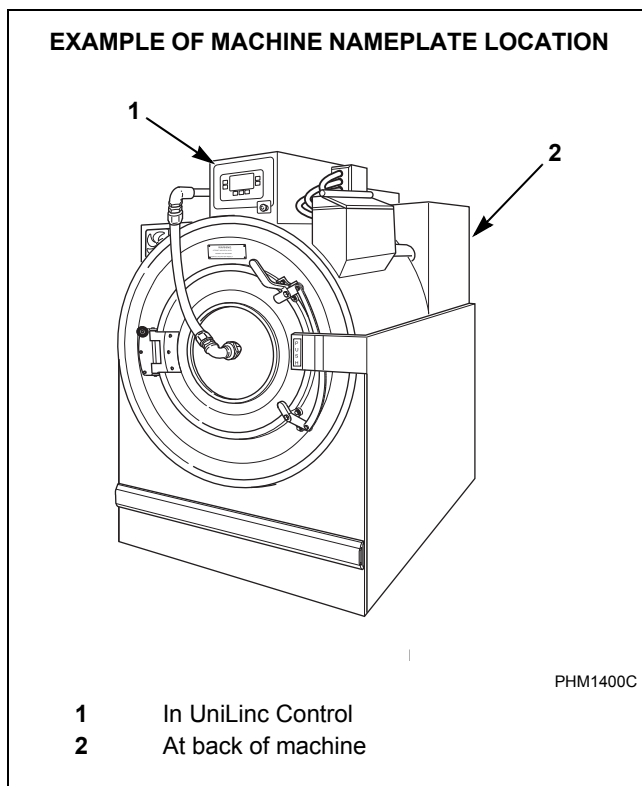


Figure 1

Replacement Parts

If literature or replacement parts are required, contact the source from which the washer-extractor was purchased or contact Alliance Laundry Systems LLC at (920) 748-3950 for the name of the nearest authorized parts distributor. A parts manual may be ordered by returning the reply card provided with each washer-extractor.

Customer Service

For technical assistance, contact your local distributor or call:

(920) 748-3121
Ripon, Wisconsin

A record of each washer-extractor is on file with the manufacturer. Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 1* and *Figure 2*.

Introduction

Model Number Familiarization Guide	
Sample Model Number: UW60TVQU10001	
UW	Model Number Prefix
60	Washer-Extractor Capacity (60 pounds dry weight of laundry)
T	Type of Electrical Control T = UniLine Control
V	Washer-Extractor Speed Capabilities V = 8 Speeds
Q	Electrical Characteristics
U1	Design Series
0001	Option Identification (varies from machine to machine)

Model No. **UW060TVQU10001**

Serial No. **00000000000**

Voltage **200 – 240** Amps **19**

Required Circuit Breaker Amps **30**

Hz **50 – 60** Wire **3** Phase **3**

Max. Load **60** LB **27** KG Max. Speed **720** RPM

Elec. Heating KW Steam Press. PSI BAR

ETL LISTED
CONFORMS TO
ANSI/UL STD. 1555
ANSI/UL STD. 1206

ETL TESTING LABORATORIES, INC.
CORTLAND, NEW YORK 13025

Product No. **500000** Date Code

EXAMPLE OF NAMEPLATE

PHM697N

Figure 2

Operation

Machine Familiarization Guide

The machine familiarization guide in *Figure 3* and *Figure 4* identifies major operational features of the UW washer-extractor.

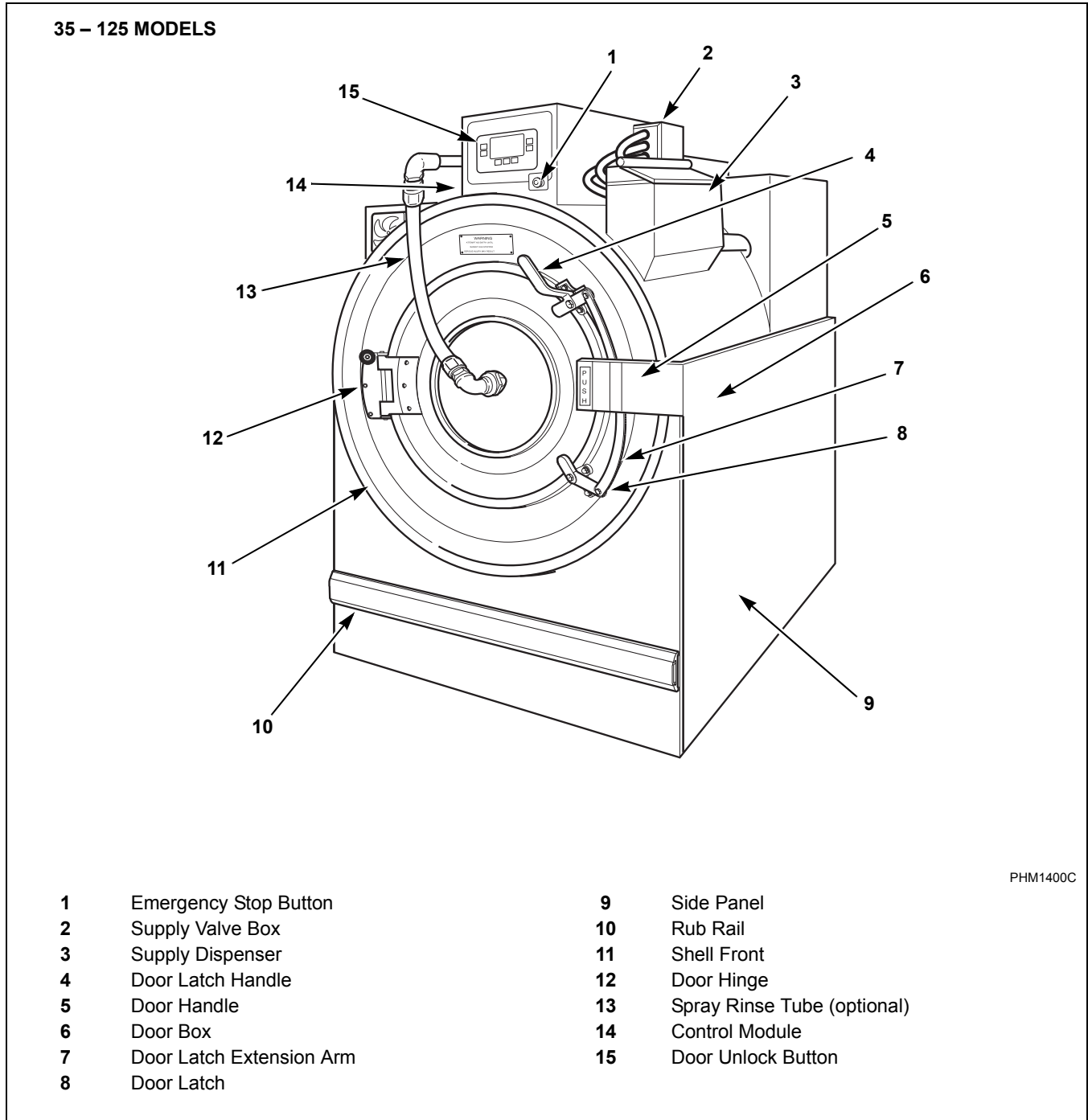


Figure 3

Operation

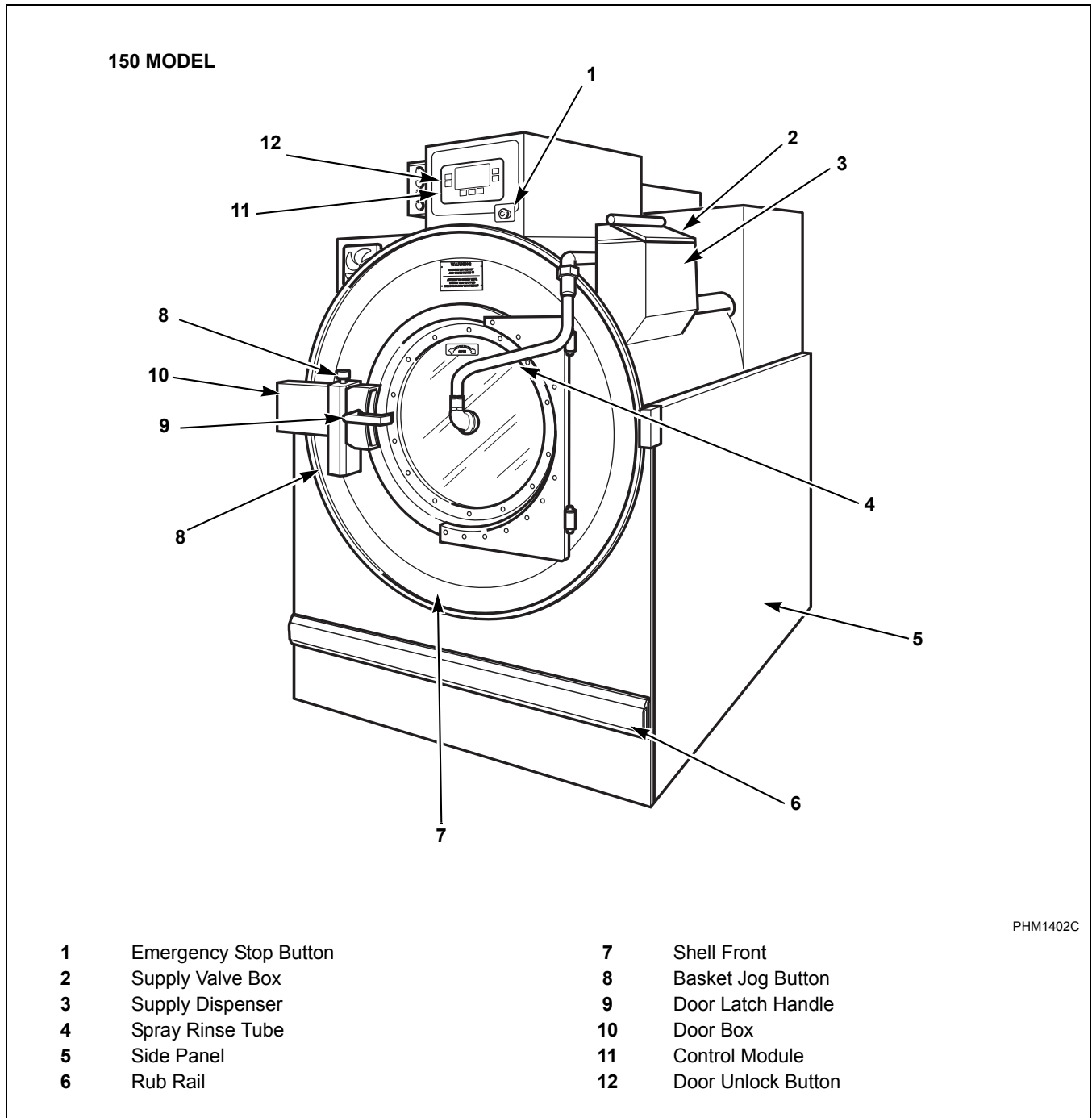


Figure 4

UniLinc Control

About the Control (UniLinc Control)

The UniLinc control on the washer-extractor is an advanced, graphical, programmable computer that lets the owner control most machine features by interacting with the control.

UniLinc allows the owner to program custom cycles, run diagnostic cycles and retrieve audit, error and bearing information. 2

Washer-extractors shipped from the factory have default cycles and wash temperature settings built in. However, the owner can change the default cycle, or any cycle.

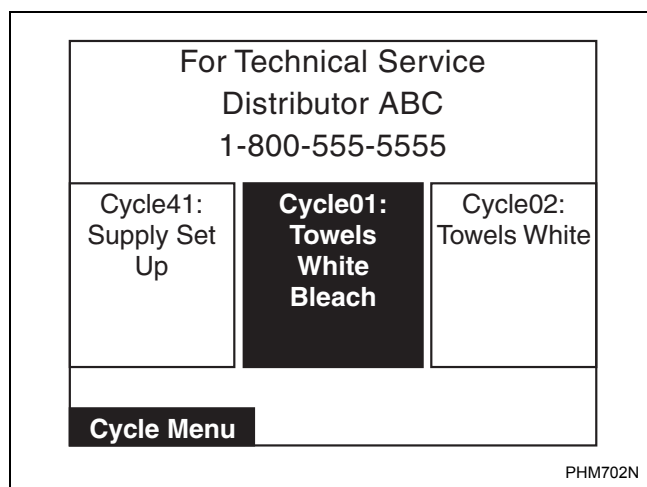
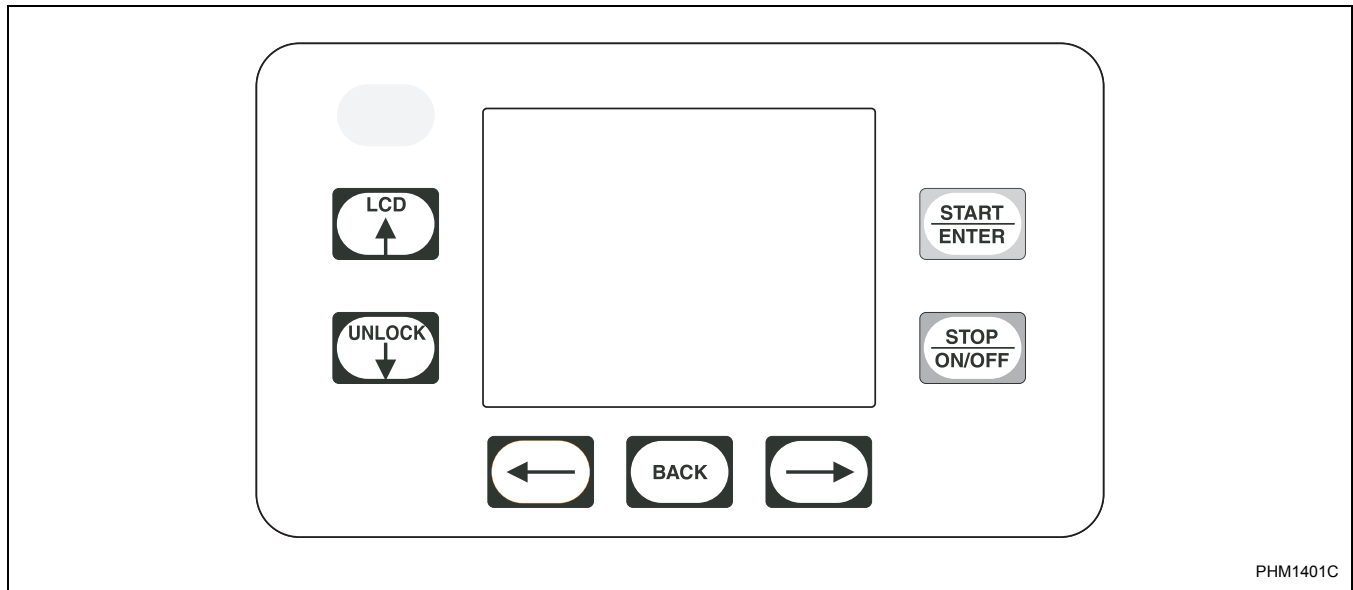


Figure 5

Operational Keypad (UniLinc Control)



PHM1401C

Figure 6

The control includes seven keypads. These functions are available to the operator and are intended to control operation of the washer extractor. Refer to *Figure 6* and *Table 1*.
















Keypad	Description
LCD/UP ARROW 	Press to move the cursor on display to edit programming values. Also, press while in Cycle Menu or Run Menu to change to the Contrast Adjust/Backlight Menu. Also, press with  and  to enter System Menu.
UNLOCK/DOWN ARROW 	Press to move the cursor on display, edit programming values, or unlock door. The door can only be unlocked while the machine is idle.
LEFT ARROW 	Press to move cursor on display.
BACK 	Press to move back to the previous display menu. Also, press with  and  to enter System Menu. Also, back from the Cycle Menu to enter the Service Schedule Menu.
RIGHT ARROW 	Press to move cursor on display. Press while running a cycle to get to Run Diagnostic Menu. Press and hold with  to enter Delayed Start Menu.
STOP/ON/OFF 	Press to stop and abort a machine cycle during Run Mode. Also press with  and  to enter System Menu. Press with  to enter Delayed Start Menu.
START/ENTER 	Press to start or rapid advance a machine cycle during Run Mode. Also, press to save edited programming values when used in programming menus.

Table 1

Cycle Display (UniLinc Control)

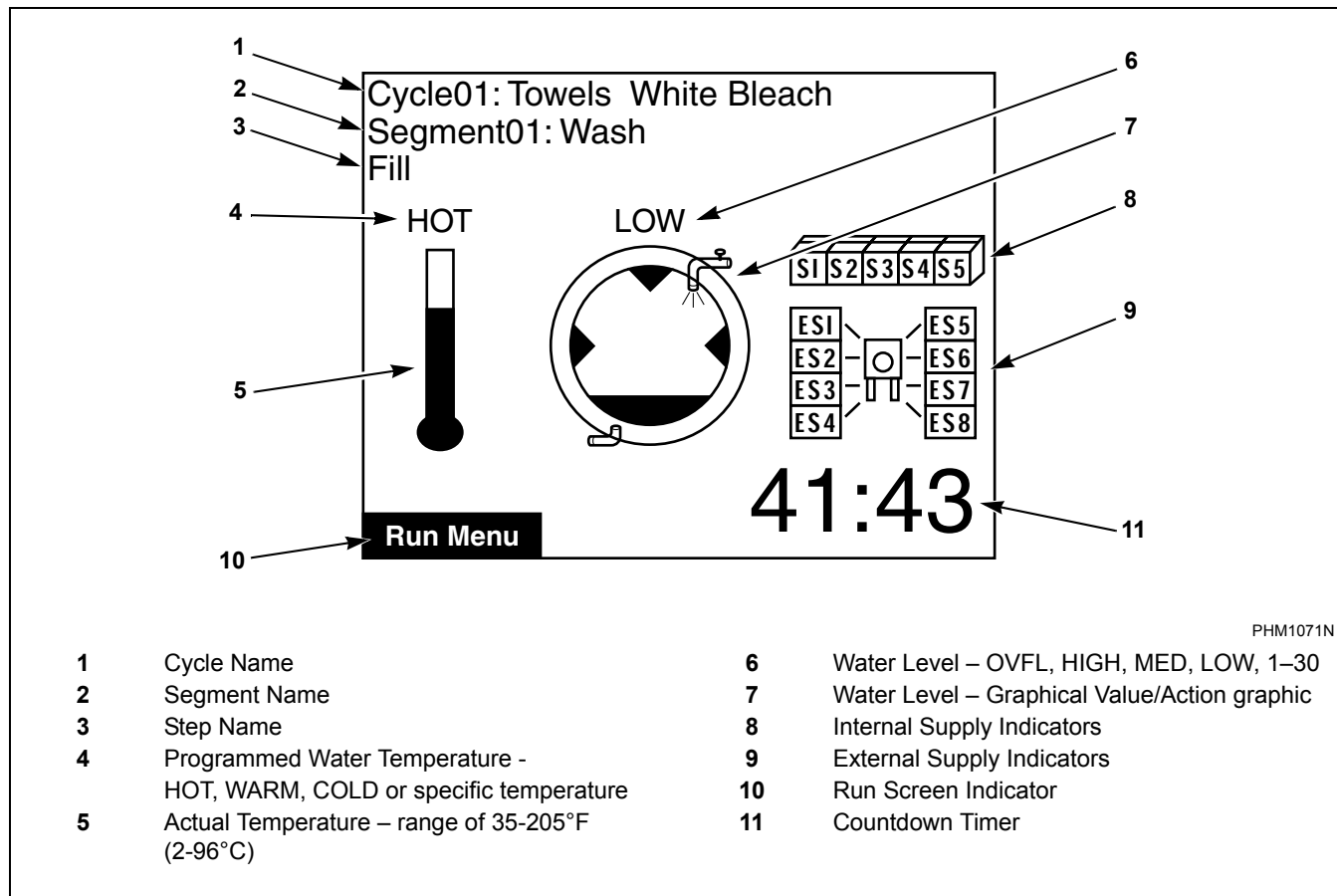


Figure 7

Operation

Operating Instructions (UniLinc Control)

1. When display shows the Cycle Menu Screen washer-extractor is ready to be loaded with laundry.
2. Press the door unlock button located on the lower left front on the control. Refer to *Figure 8*.

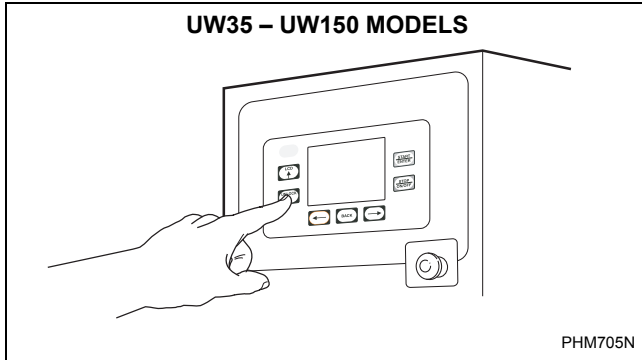


Figure 8

3. Open door within five seconds of pressing the door unlock keypad.
4. On 35 – 125 models, turn door handle clockwise and swing the door left to open. Door must be opened within 5 seconds of pressing the door unlock button. Refer to *Figure 9*.

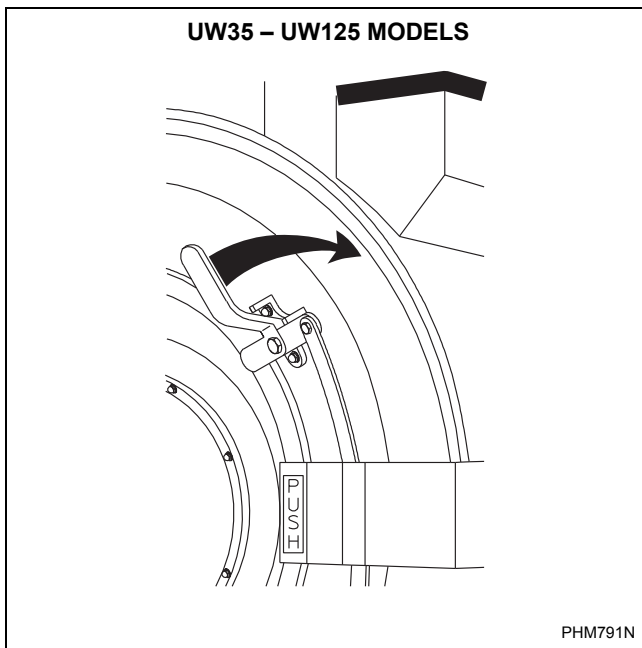


Figure 9

5. On 150 models, turn handle counterclockwise and swing the door right to open. Door must be opened within 5 seconds of pressing the door unlock button. Refer to *Figure 10*.

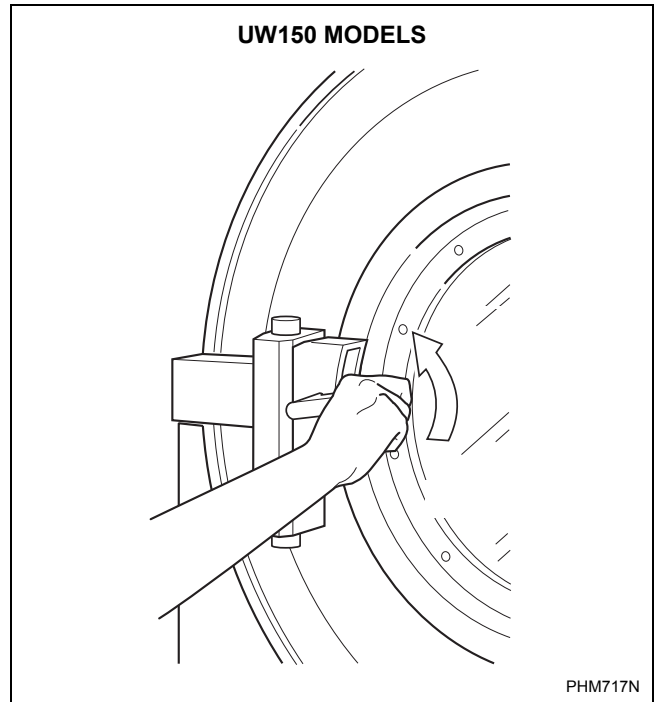


Figure 10

6. 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.

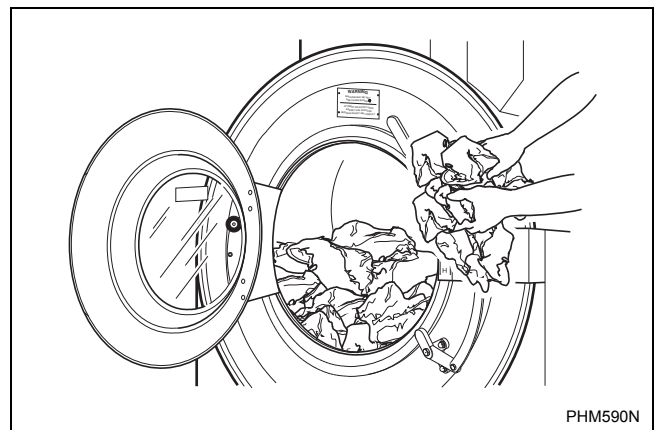



Figure 11

	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.

7. When loading is complete, ensure that all fabric is inside the basket. Then close and lock the door.
8. Add dry supplies are 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.

9. Press  and  keypads to select desired wash cycle from the programmed cycle charts in the Programming section of this manual.


For Technical Service Distributor ABC 1-800-555-5555		
Cycle41: Supply Set Up	Cycle01: Towels White Bleach	Cycle02: Towels White
Cycle Menu		

PHM702N

Figure 12

10. Press  to start the selected cycle.

As the cycle proceeds, the display will show a summary of the cycle occurring. Refer to *Figure 7*.

To begin the cycle at any step other than the first step, press the  keypad to advance through the cycle to the desired starting point. (The Rapid Advance feature keypad is enabled at the factory and can be disabled.) Refer to *Programming Manual* for information to disable Rapid Advance.

If the door is not closed and locked, the display will indicate that the door needs to closed and locked. Refer to *Figure 13*.

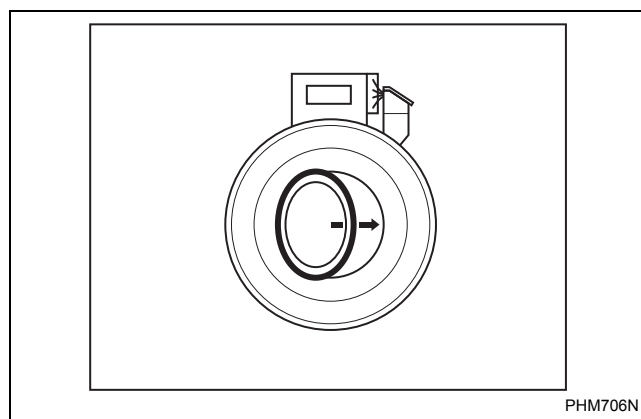



Figure 13

Close door to start cycle or press  keypad to return to Cycle Menu.

11. The cycle will continue until its completion. Then the display will show the door is ready to be unlocked and opened.

NOTE: The Drain Step that occurs before an Extract Step or a Spray Rinse Extract Step cannot be skipped using Rapid Advance. The machine **MUST** drain and balance during the Drain Step before it can extract.

Shakeout Routine (UniLinc Control)

	WARNING
NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.	
<small>SW012</small>	

A Shakeout agitation step is programmed at the end of every cycle

The Shakeout Step will help prevent tangling of the load.

The Shakeout time is set at the factory to agitate for 40 seconds. Refer to *Programming Manual* to disable or change the time of the Shakeout.

Basket Jog Feature (150 Model Only) (UniLinc Control)

150 models are equipped with a basket jog feature. This feature allows the basket to rotate very slowly while the door is open for easy clothes removal. To operate the jog feature:

1. With the door open and the control in Cycle Menu, press and HOLD both jog buttons. A series of loud beeps will occur, indicating the jog feature is about to start.

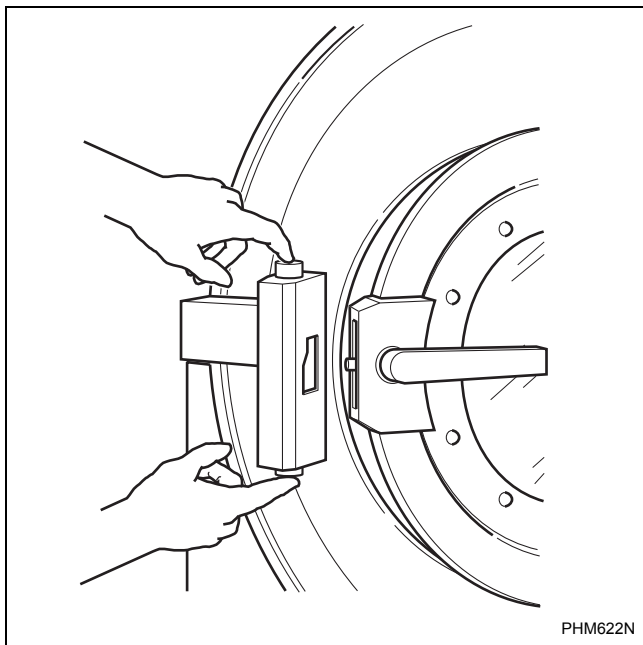



Figure 14

The jog feature is deactivated when the loading door is closed and the jog buttons are not pressed.

	WARNING
To avoid personal injury, do NOT reach into the basket while it is rotating. Keep all personnel at a safe distance from the machine while using the Basket Jog Feature.	
<small>W641</small>	

Error Recovery Routine (UniLinc Control)

When the control detects an error, it will either stop running the current step and display a message to indicate what type of error was found or it will continue to run and log the error. Refer to *Machine Errors* section in *Programming Manual*.

Non-Recoverable Error Conditions:

- Door Lock Error
- Door Open Error
- Drive Balance Switch Error
- Frame Balance Switch Error
- Open Temperature Sensor Error
- Shorted Temperature Sensor Error
- SPI Error
- Water Level Sensor Error

Recoverable Error Conditions:

- Drain Alarm Error
- Drive Fault Error
- Fill Alarm Error
- Rotation Sensor Error
- Unbalance Error
- Heat Alarm Error
- PDA Communication Error

Models Equipped with Both Steam and Electric Heating

1. To switch between the heating type, locate the switch on the left side of control module. Refer to *Figure 15*.
2. To select **steam heat**, make sure the switch is in the **down** position.
OR
To select **electric heat**, make sure the switch is in the **up** position.

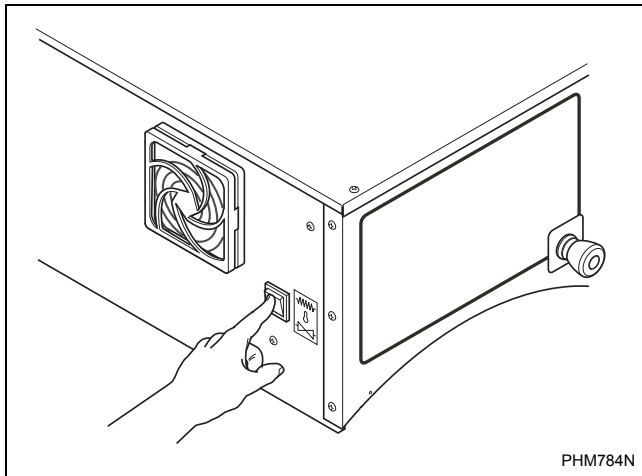




Figure 15


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
<p>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.</p>	
SW035	

	CAUTION
<p>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.</p>	
SW019	

Daily, weekly, monthly and quarterly checklists are provided at the end of this section. Laminate the checklist to preserve them for repeated copy. 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.

On UniLinc Control models, maintenance checklists are also displayed on the control. Press  to enter Service Schedule Menu. Refer to *Figure 16*

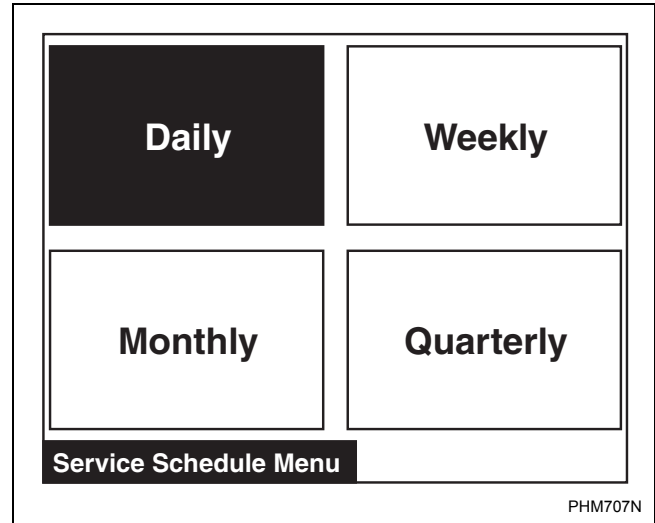








Figure 16

Press  from Cycle Menu to enter Service Menu. The Service Menu provides a user with a time based service reminder list. The list is broken up into “DAILY”, “WEEKLY”, “MONTHLY” and “QUARTERLY”. Press  and the  or  keypad to navigate to a menu item. Press the  keypad when menu is selected. Press the  keypad to return to Cycle Menu.

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

Daily (UniLinc Control)

Beginning of Day

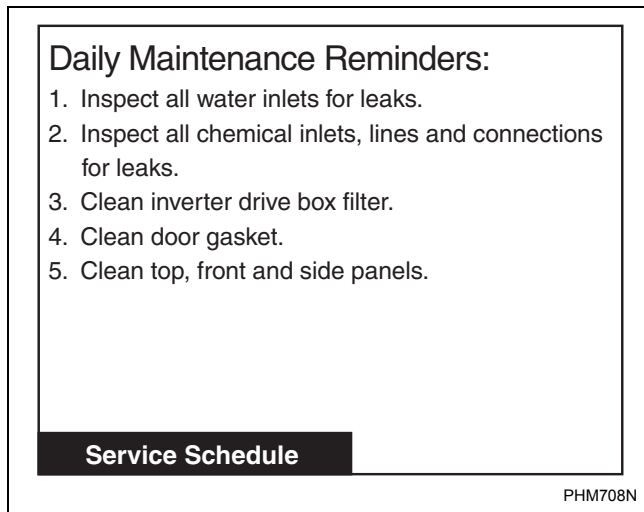

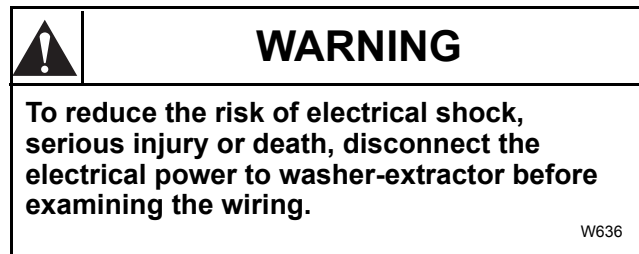


Figure 17

The Daily Menu contains all daily service reminders that need to be performed. Press the  keypad to return to the Service Menu.



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 (UniLinc Control)

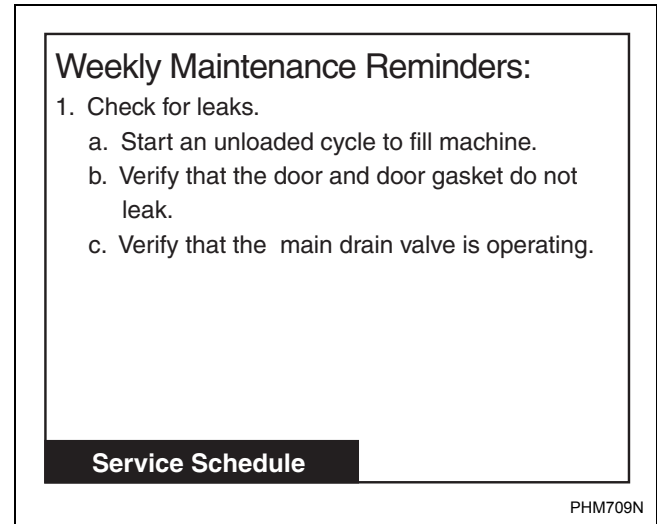



Figure 18

The Weekly Menu contains all weekly service reminders that need to be performed. Press  keypad to return to the Service Menu.

Monthly (UniLinc Control)

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

Monthly Maintenance Reminders:

1. Clean the inverter drive fins.
2. Inspect V belts for replacement or adjustment.
 - a. Check for uneven wear and frayed edges.
 - b. Verify belt tension.
 - c. Verify belt alignment.
3. Remove back panel and check hoses for leaks.
4. Check supply dispenser hoses and connections.
5. Clean inlet hose filter screens. Replace if worn or damaged.
6. Inspect and tighten all bolts if required.

Service Schedule (1 of 2)

PHM710N

Monthly Maintenance Reminders:

7. Use compressed air to clean lint from motor.
8. Use compressed air to clean all electrical components.

Service Schedule (2 of 2)

PHM712N

Figure 19

1. Each month OR after every 200 hours of operation, lubricate bearings. Control will display Lubricate Bearings Menu when service procedure needs to be performed. (Locate the bearing lubrication decal at the rear of the right side of the machine, as viewed from the front of the washer-extractor.)

The grease must have the following characteristics:

- NLGI Grade 2
- Lithium-based
- Water-insoluble
- 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 2 strokes.

2. V-belts
 - a. Check V-belts for uneven wear and frayed edges.
 - **Tension Gauge.** Loosen motor mounting bolts and slide motor along motor plate to change belt span length. The belt tension on 35 – 125 models should be between 70 and 90 pounds (± 5 pounds). The belt tension on the 150 model should be between 130 and 150 pounds (± 5 pounds). (Set initial tension toward the high end of this range.) The 150 model uses a swing mount motor with an adjustable spring used for tensioning.

- Deflection.** Refer to *Figure 20*. 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 span length, the belt should deflect 1/64 inch (0.40 mm). Thus, a belt with span length of 50 inches should deflect 50/64 inch (19.84 mm). An initial (run-in) force of 5.25 pounds should be used to set the belt tension. An operating (normal) force of 3.5 pounds should be used after the washer-extractor has been operated for a few hours.

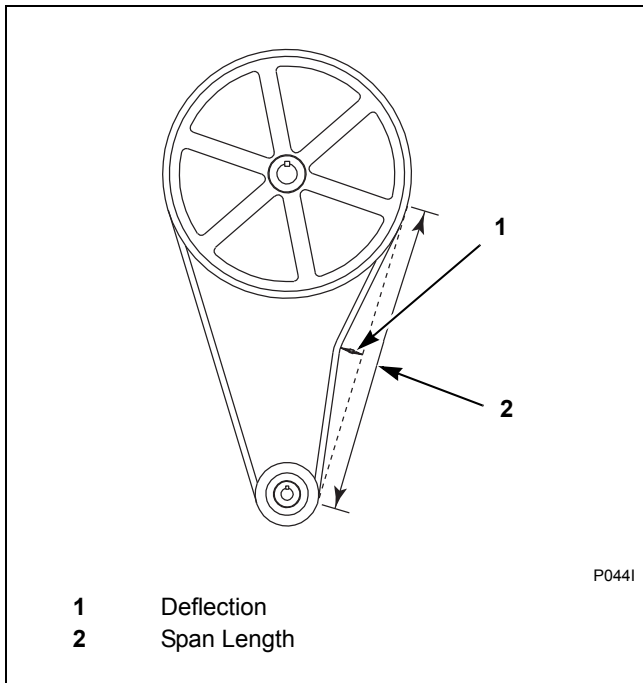


Figure 20

- b. Verify that V-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 21*.

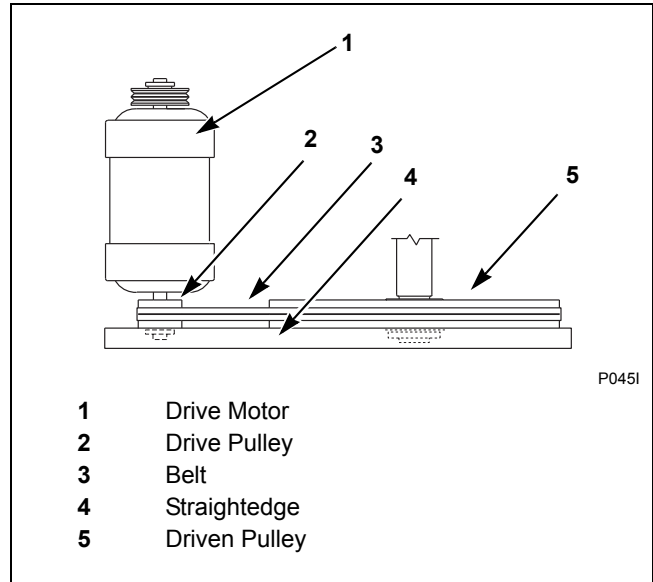


Figure 21

Quarterly (UniLinc Control)

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

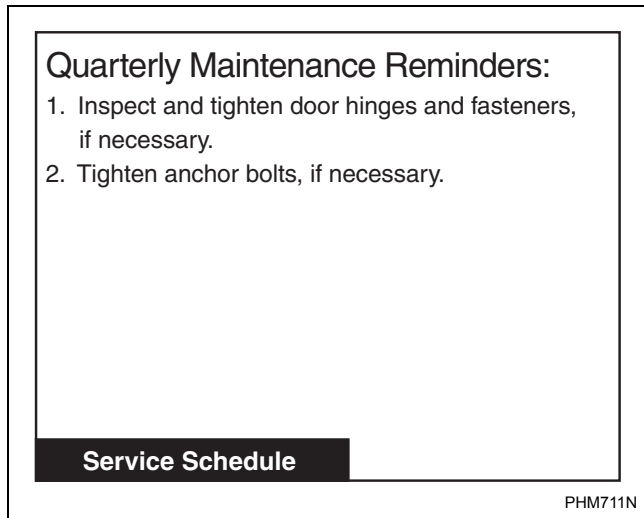



Figure 22

The Quarterly Menu contains all quarterly service reminders that need to be performed. Press the  keypad to return to Service Menu.

Verify Vibration Switch Gap

1. Insert the 0.010 inch feeler gauge (supplied with machine) between the adjustment bolt and the vibration switch.
2. If alarm is active: Slowly loosen adjustment bolt until the alarm stops.
3. Very slowly tighten the adjustment bolt until the alarm activates. The adjustment bolt must be tightened very slowly to prevent over adjustment.
4. Remove the feeler gauge.
5. Verify the Frame Switch setting.

To adjust the vibration switch gap on the 150 models, move the vibration switch by adjusting the jam nuts on the vibration switch.

To return to the Cycle Menu press BACK key several times until Cycle Menu is displayed.

Care of Stainless Steel

- Remove dirt and grease with detergent and water. Thoroughly rinse and dry after washing.
 - Avoid contact with dissimilar metals to prevent galvanic corrosion when salty or acidic solutions are present.
 - Do not allow salty or acidic solutions to evaporate and dry on stainless steel. Wipe clean of any residues.
 - Rub in the direction of the polish lines or “grain” of the stainless steel to avoid scratch marks when using abrasive cleaners. Use stainless steel wool or soft, non-metal bristle brushes. Do not use ordinary steel wool or steel brushes.
 - Remove discoloration or heat tint from overheating by scouring with a powder or by employing special chemical solutions.
- Do not leave sanitizers or sterilizing solutions on stainless steel equipment for prolonged periods of time.
 - When an external chemical supply is used, ensure 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 with the machine. 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 machine.
 - 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. Tip: Paint all carbon steel parts with a heavy protective coating. Stainless steel fasteners should be used whenever possible.

Maintenance

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 machine 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. Inspect door lock and interlock before starting operation:							
a. Attempt to start the washer with door open.							
b. Close the door without locking it and attempt to start the washer.							
c. Close and lock the door, start a cycle, and attempt to open the door while the cycle is in progress.							
5. Inspect all water recirculation pipe connections, if applicable.							
End of Day							
1. Clean the AC drive box filter(s) (where applicable).							
2. Clean the door gasket of all foreign matter.							
3. Clean automatic supply dispenser and lid (where applicable).							
4. Clean the washer's top, front, and side panels.							
5. Leave loading door open at the end of each day to allow moisture to evaporate.							
6. Clean water recirculation filter (where applicable).							
NOTE: Unload the machine promptly <i>after each completed cycle</i> to prevent moisture buildup. 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 machine before performing the weekly maintenance procedures.					
1. Check the washer-extractor for leaks:					
a. Start an unloaded cycle to fill the machine.					
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 machine before performing the monthly maintenance procedures.				
1. Each month OR every 200 hours of operation , lubricate bearings.				
2. Clean the AC drive fins (where applicable).				
3. Determine if V-belts require replacement or adjustment:				
a. Check V-belts for uneven wear and frayed edges.				
b. Verify that V-belts are properly tensioned.				
c. Verify that V-belts are properly aligned.				
4. Remove back panel and check hoses for leaks.				
5. Check supply dispenser hoses and connections (where applicable).				
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. Remove chemical supply components (where applicable) and check for residual chemicals. Clean as necessary and replace.				
12.				
13.				
14.				

Quarterly Preventive Maintenance Checklist

Machine _____ Operator _____	Quarter			
Checks				
Observe All Safety Warnings! Disconnect power to the machine 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 (where applicable).				
6. Verify vibration switch gap.				
7.				
8.				
9.				
10.				
11.				

