Washer-Extractor

Cabinet Freestanding
OPL
Refer to Page 10 for Model Identification

Programming

Original Instructions
Keep These Instructions for Future Reference.
CAUTION: Read the instructions before using the machine.
(If this machine changes ownership, this manual must accompany machine.)

Alliance™ Laundry Systems

www.alliancelaundry.com

Part No. D2576ENR4
September 2022

WARNING

Machine installations must comply with minimum specifications and requirements stated in the applicable Installation Manual, any applicable municipal building codes, water supply requirements, electrical wiring regulations and any other relevant statutory regulations. Due to varied requirements and applicable local codes, this machine must be installed, adjusted, and serviced by qualified maintenance personnel familiar with applicable local codes and 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, property damage, and/or equipment damage, and will void the warranty.

W820

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 machine.

NOTE: The default values written in this manual are set according to the EU market. There is a possibility that default values can differ in other markets settings.

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

Models with Wireless Board Installed

This device is granted for use in Mobile only configurations in which the antennas used for this transmitter must be installed to provide a separation distance of at least 20cm from all person and not be co-located with any other transmitters except in accordance with FCC and Industry Canada multi-transmitter product procedures.

Table of Contents

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

Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.

WARNING

Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.

CAUTION

Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.

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

- Read all instructions before using the washer.
- Install the washer according the INSTALLATION instructions. Refer to the EARTH/GROUND instructions in the INSTALLATION manual for the proper earth/ground connection of the washer. All connections for water, drain, electrical power and earth/ground must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
- Do not install or store the washer where it will be exposed to water and/or weather.
- To prevent fire and explosion, keep the area around machine free from flammable and combustible products. Do not add the following substances or textiles containing traces of the following substances to the wash water: gasoline, kerosene, waxes, cooking oils, vegetable oils, machine oils, dry-cleaning solvents, flammable chemicals, thinners, or other flammable or explosive substances. These substances give off vapors that could ignite, explode or cause the fabric to catch fire by itself.
- 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.
- 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.
- 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 appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance. This is a safety rule for all appliances.
- DO NOT reach and/or climb into the tub or onto the washer, ESPECIALLY if the wash drum is moving. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Never operate the washer with any guards, panels and/or parts removed or broken. DO NOT bypass any safety devices or tamper with the controls.
- Use washer only for its intended purpose, washing textiles. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket or tub.
- Use only low-sudsing, no-foaming types of commercial detergent. Be aware that hazardous chemicals may be present. Wear hand and eye protection when adding detergents and chemicals. 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].

- Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- Always follow the fabric care instructions supplied by the textile manufacturer.
- 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. Do not attempt to open the door until the washer has drained and all moving parts have stopped.
- Be aware that hot water is used to flush the supply dispenser. Avoid opening the dispenser lid while the machine is running.
- Do not attach anything to the supply dispenser's nozzles, if applicable. The air gap must be maintained.
- Do not operate the machine without the water reuse plug or water reuse system in place, if applicable.
- 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.
- 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.
- DANGER: Before inspecting or servicing machine, power supply must be turned OFF. The servicer needs to wait for at least 5 minutes after turning the power OFF and needs to check for residual voltage with a voltage meter. The inverter capacitor or EMC filter remains charged with high voltage for some time after powering OFF. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- 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. ALWAYS disconnect the washer from electrical, power and water supplies before attempting any service.
- Disconnect the power by turning off the circuit breaker or by unplugging the machine. Replace worn power cords.
- Before the washer is removed from service or discarded, remove the door to the washing compartment.
- 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.

WARNING

Machine installations must comply with minimum specifications and requirements stated in the applicable Installation Manual, any applicable municipal building codes, water supply requirements, electrical wiring regulations and any other relevant statutory regulations. Due to varied requirements and applicable local codes, this machine must be installed, adjusted, and serviced by qualified maintenance personnel familiar with applicable local codes and 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, property damage, and/or equipment damage, and will void the warranty.

W820

IMPORTANT: Ensure that the machine is installed on a level floor of sufficient strength. Ensure that the recommended clearances for inspection and maintenance are provided. Never allow the inspection and maintenance space to be blocked.

WARNING

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.

SW014

NOTE: All appliances are produced according the EMC-directive (Electro-Magnetic-Compatibility). They can be used in restricted surroundings only (comply minimally with class A requirements). For safety reasons there must be kept the necessary precaution distances with sensitive electrical or electronic device(s). These machines are not intended for domestic use by private consumers in the home environment.

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.

Use manufacturer-authorized spare parts to avoid safety hazards.

Operator Safety

WARNING

NEVER insert hands or objects into basket until it has completely stopped. Doing so could result in serious injury.

SW012

Machines referred to by model in this manual are intended to be used by the general public in applications such as:

- staff areas in shops, offices, kitchens and other working environments
- by clients in hotels, motels and other residential type environments
- areas for communal use in blocks of flats or in launderettes
- any other similar applications

Installation of these machines must fully conform to the instructions contained in this manual.

The following maintenance checks must be performed daily:

1. Verify that all warning labels are present and legible, replace as necessary.
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.
   b. Close the door without locking it and start the machine. The machine should not start.
   c. Attempt to open the door while a cycle is in progress. The door should not open.

If the door lock and interlock are not functioning properly, disconnect power and 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

Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.

W728

Introduction

Model Identification

Information in this manual is applicable to these models:

PY65_X_CONTROL_FLEX	PYE065V	IY65_EVOLIS	IYE065V
PY80_X_CONTROL_FLEX	PYE080V	IY80_EVOLIS	IYE080V
PY105_X_CONTROL_FLEX	PYE105V	IY105_EVOLIS	IYE105V
PY135_X_CONTROL_FLEX	PYE135V	IY135_EVOLIS	IYE135V
PY180_X_CONTROL_FLEX	PYE180V	IY180_EVOLIS	IYE180V
PY240_X_CONTROL_FLEX	PYE240V	IY240_EVOLIS	IYE240V
PY280_X_CONTROL_FLEX	PYE280V	IY280_EVOLIS	IYE280V
PYC065V	PYX065V	IYC065V	IYX065V
PYC080V	PYX080V	IYC080V	IYX080V
PYC105V	PYX105V	IYC105V	IYX105V
PYC135V	PYX135V	IYC135V	IYX135V
PYC180V	PYX180V	IYC180V	IYX180V
PYC240V	PYX240V	IYC240V	IYX240V
PYC280V	PYX280V	IYC280V	IYX280V
IY65_EVOLIS_ELITE	UYR065V	NYE065V	NY65_GRAPHITRON-IC_TOUCH
IY80_EVOLIS_ELITE	UYR080V	NYE080V	NY80_GRAPHITRON-IC_TOUCH
IY105_EVOLIS_ELITE	UYR105V	NYE105V	NY105_GRAPHITRON-IC_TOUCH
IY135_EVOLIS_ELITE	UYR135V	NYE135V	NY135_GRAPHITRON-IC_TOUCH
IY180_EVOLIS_ELITE	UYR180V	NYE180V	NY180_GRAPHITRON-IC_TOUCH
IY240_EVOLIS_ELITE	UYR240V	NYE240V	NY240_GRAPHITRON-IC_TOUCH
IY280_EVOLIS_ELITE	UYR280V	NYE280V	NY280_GRAPHITRON-IC_TOUCH
UYC065V	UYU065V	NYX065V	SY20_QUANTUM_TOUCH
UYC080V	UYU080V	NYX080V	SY25_QUANTUM_TOUCH
UYC105V	UYU105V	NYX105V	SY30_QUANTUM_TOUCH
UYC135V	UYU135V	NYX135V	SY40_QUANTUM_TOUCH
UYC180V	UYU180V	NYX180V	SY55_QUANTUM_TOUCH

Table continues...

UYC240V	UYU240V	NYX240V	SY70_QUANTUM_TOUCH
UYC280V	UYU280V	NYX280V	SY65_QUANTUM_TOUCH
UYE065V	UY65_PROFORM_TOUCH	NYA065V	SY80_QUANTUM_TOUCH
UYE080V	UY80_PROFORM_TOUCH	NYA080V	SY105_QUANTUM_TOUCH
UYE105V	UY105_PROFORM_TOUCH	NYA105V	SY135_QUANTUM_TOUCH
UYE135V	UY135_PROFORM_TOUCH	NYA135V	SY180_QUANTUM_TOUCH
UYE180V	UY180_PROFORM_TOUCH	NYA180V	SY240_QUANTUM_TOUCH
UYE240V	UY240_PROFORM_TOUCH	NYA240V	SY280_QUANTUM_TOUCH
UYE280V	UY280_PROFORM_TOUCH	NYA280V	SYC065V
UYX065V	PY65_X_CON-TROL_FLEX_PLUS	NYR065V	SYC080V
UYX080V	PY80_X_CON-TROL_FLEX_PLUS	NYR080V	SYC105V
UYX105V	PY105_X_CON-TROL_FLEX_PLUS	NYR105V	SYC135V
UYX135V	PY135_X_CON-TROL_FLEX_PLUS	NYR135V	SYC180V
UYX180V	PY180_X_CON-TROL_FLEX_PLUS	NYR180V	SYC240V
UYX240V	PY240_X_CON-TROL_FLEX_PLUS	NYR240V	SYC280V
UYX280V	PY280_X_CON-TROL_FLEX_PLUS	NYR280V	SYE065V
UYA065V	NYC065V	NYU065V	SYE080V
UYA080V	NYC080V	NYU080V	SYE105V
UYA105V	NYC105V	NYU105V	SYE135V
UYA135V	NYC135V	NYU135V	SYE180V
UYA180V	NYC180V	NYU180V	SYE240V
UYA240V	NYC240V	NYU240V	SYE280V
UYA280V	NYC280V	NYU280V	SYX065V
SYX080V	SYA135V	SYR240V	SYT020V
SYX105V	SYA180V	SYR280V	SYT025V
SYX135V	SYA240V	SYU065V	SYT030V
SYX180V	SYA280V	SYU080V	SYT040V
SYX240V	SYR065V	SYU105V	SYT055V
SYX280V	SYR080V	SYU135V	SYT070V
SYA065V	SYR105V	SYU180V	HYT020V

Table continues...

SYA080V	SYR135V	SYU240V	HYT025V
SYA105V	SYR180V	SYU280V	HYT030V
HYT040V	HYT055V	HYT070V	IYA065V
HY20_GALAXY_TOUCH	HY40_GALAXY_TOUCH	IYA180V	IYA080V
HY25_GALAXY_TOUCH	HY55_GALAXY_TOUCH	IYA240V	IYA105V
HY30_GALAXY_TOUCH	HY70_GALAXY_TOUCH	IYA280V	IYA135V
IYR065V	IYR180V	IYU080V	IYU240V
IYR080V	IYR240V	IYU105V	IYU280V
IYR105V	IYR280V	IYU135V	PYA080V
IYR135V	IYU065V	IYU180V	PYA105V
PYA135V	PYR080V	PYR280V	PYU180V
PYA180V	PYR105V	PYU065V	PYU240V
PYA240V	PYR135V	PYU080V	PYU280V
PYA280V	PYR180V	PYU105V	NYC350V
PYR065V	PYR240V	PYU135V	NYC450V
IYC350V	IYC450V	IYC600V	NYC600V
IYU350V	IYU450V	IYU600V	NYU350V
IYM350V	IYM450V	IYM600V	NYU450V
IYH350V	IYH450V	IYH600V	NYU600V
IYY350V	IYY450V	IYY600V	NYM350V
SYC350V	SYC450V	SYC600V	NYM450V
SYU350V	SYU450V	SYU600V	NYM600V
SYM350V	SYM450V	SYM600V	NYH350V
SYH350V	SYH450V	SYH600V	NYH450V
SYY350V	SYY450V	SYY600V	NYH600V
UYC350V	UYC450V	UYC600V	NYY350V
UYU350V	UYU450V	UYU600V	NYY450V
UYM350V	UYM450V	UYM600V	NYY600V
UYH350V	UYH450V	UYH600V	AF350_GRAPHITRON-IC_TOUCH
UYY350V	UYY450V	UYY600V	AF450_GRAPHITRON-IC_TOUCH
PYC350V	PYC450V	PYC600V	AF600_GRAPHITRON-IC_TOUCH
PYU350V	PYU450V	PYU600V	IYC800V

Table continues...

PYM350V	PYM450V	PYM600V	IYC10XV
PYH350V	PYH450V	PYH600V	IYC12XV
PYY350V	PYY450V	PYY600V	IYU800V
IY350_EVOLIS_ELITE	IY450_EVOLIS_ELITE	IY600_EVOLIS_ELITE	IYU10XV
SY350_QUANTUM_TOUCH	SY450_QUANTUM_TOUCH	SY600_QUANTUM_TOUCH	IYU12XV
UY350_PROFORM_TOUCH	UY450_PROFORM_TOUCH	UY600_PROFORM_TOUCH	IYM800V
FX350_X_CON-TROL_FLEX_PLUS	FX450_X_CON-TROL_FLEX_PLUS	FX600_X_CON-TROL_FLEX_PLUS	IYM10XV
IY800_EVOLIS_ELITE	IY10X_EVOLIS_ELITE	IY12X_EVOLIS_ELITE	IYM12XV
SYC800V	SYC10XV	SYC12XV	SYU800V
SYU10XV	SYU12XV	SYM800V	SYM10XV
SYM12XV	SY800_QUANTUM_TOUCH	SY10X_QUANTUM_TOUCH	SY12X_QUANTUM_TOUCH
UYC800V	UYC10XV	UYC12XV	UYU800V
UYU10XV	UYU12XV	UYM800V	UYM10XV
UYM12XV	UY800_PROFORM_TOUCH	UY10X_PROFORM_TOUCH	UY12X_PROFORM_TOUCH
PYC800V	PYC10XV	PYC12XV	PYU800V
PYU10XV	PYU12XV	PYM800V	PYM10XV
PYM12XV	PY800_XCON-TROL_FLEX_PLUS	PY10X_XCON-ROL_FLEX_PLUS	PY12X_XCON-TROL_FLEX_PLUS
NYC800V	NYC10XV	NYC12XV	NYU800V
NYU10XV	NYU12XV	NYM800V	NYM10XV
NYM12XV	NY800_GRAPHITRON-IC_TOUCH	NY10X_GRAPHITRON-IC_TOUCH	NY12X_GRAPHITRON-IC_TOUCH
FXB180_X_CON-TROL_FLEX_PLUS	FXB240_X_CON-TROL_FLEX_PLUS	FXB280_X_CON-TROL_FLEX_PLUS	IH180_EVOLIS_ELITE
IH240_EVOLIS_ELITE	IH280_EVOLIS_ELITE	SH180_QUANTUM_TOUCH	SH240_QUANTUM_TOUCH
SH280_QUANTUM_TOUCH	UH180_PROFORM_TOUCH	UH240_PROFORM_TOUCH	UH280_PROFORM_TOUCH
IHC180V	IHC240V	IHC280V	IHM180V
IHM240V	IHM280V	IHU180V	IHU240V
IHU280V	IHY180V	IHY240V	IHY280V
PHC180V	PHC240V	PHC280V	PHM180V
PHM240V	PHM280V	PHU180V	PHU240V
PHU280V	PHY180V	PHY240V	PHY280V
SHC180V	SHC240V	SHC280V	SHM180V
SHM240V	SHM280V	SHU180V	SHU240V
SHU280V	SHY180V	SHY240V	SHY280V

Table continues...

UHC180V	UHC240V	UHC280V	UHM180V
UHM240V	UHM280V	UHU180V	UHU240V
UHU280V	UHY180V	UHY240V	UHY280V
AFB180_GRAPHITRON-IC_TOUCH	AFB240_GRAPHITRON-IC_TOUCH	AFB280_GRAPHITRON-IC_TOUCH	NHC180V
NHC240V	NHC280V	NHM180V	NHM240V
NHM280V	NHU180V	NHU240V	NHU280V
NHY180V	NHY240V	NHY280V	IMB360_EVOLIS_ELITE
IMB500_EVOLIS_ELITE	IMB700_EVOLIS_ELITE	MXB360_X_CON-TROL_FLEX_PLUS	MXB500_X_CON-TROL_FLEX_PLUS
MXB700_X_CON-TROL_FLEX_PLUS	SMB360_QUAN-TUM_TOUCH	SMB500_QUAN-TUM_TOUCH	SMB700_QUAN-TUM_TOUCH
UMB360_PRO-FORM_TOUCH	UMB500_PRO-FORM_TOUCH	UMB700_PRO-FORM_TOUCH	IMC360V
IMC500V	IMC700V	IMM360V	IMM500V
IMM700V	IMU360V	IMU500V	IMU700V
IMY360V	IMY500V	IMY700V	PMC360V
PMC500V	PMC700V	PMM360V	PMM500V
PMM700V	PMU360V	PMU500V	PMU700V
PMY360V	PMY500V	PMY700V	SMC360V
SMC500V	SMC700V	SMM360V	SMM500V
SMM700V	SMU360V	SMU500V	SMU700V
SMY360V	SMY500V	SMY700V	UMC360V
UMC500V	UMC700V	UMM360V	UMM500V
UMM700V	UMU360V	UMU500V	UMU700V
UMY360V	UMY500V	UMY700V	AMB360_GRAPHITRON-IC_TOUCH
AMB500_GRAPHITRON-IC_TOUCH	AMB700_GRAPHITRON-IC_TOUCH	NMC360V	NMC500V
NMC700V	NMM360V	NMM500V	NMM700V
NMU360V	NMU500V	NMU700V	NMY360V
NMY500V	NMY700V		

Serial Plate Location

1. From the *System Menu*, select DIAGNOSTICS to enter the *Diagnostics Menu*.
2. From the *Diagnostics Menu*, select MACHINE ID. The MACHINE ID display includes the machine's model and serial number.

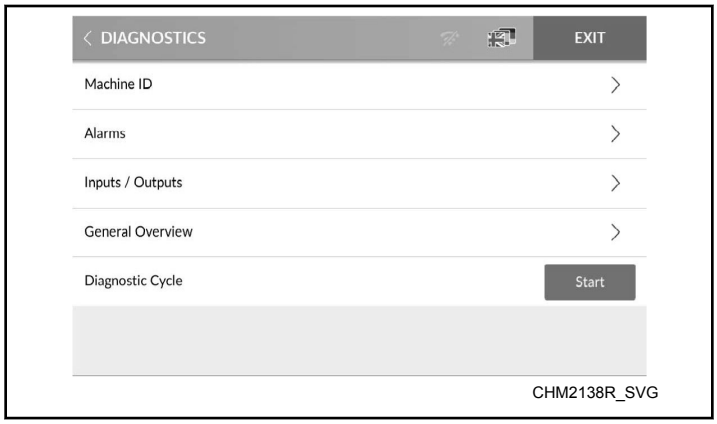


Figure 1

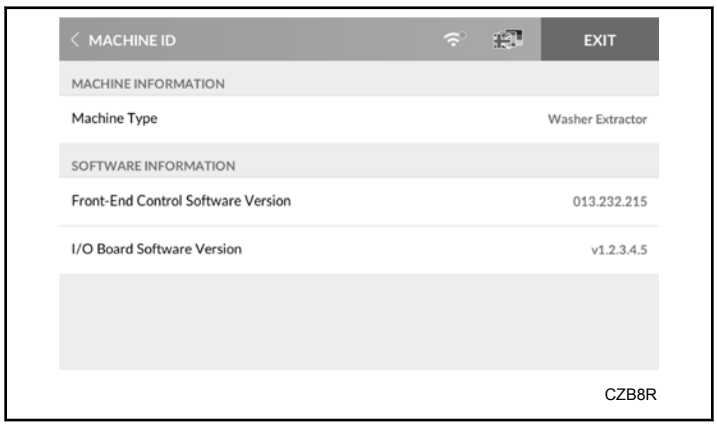
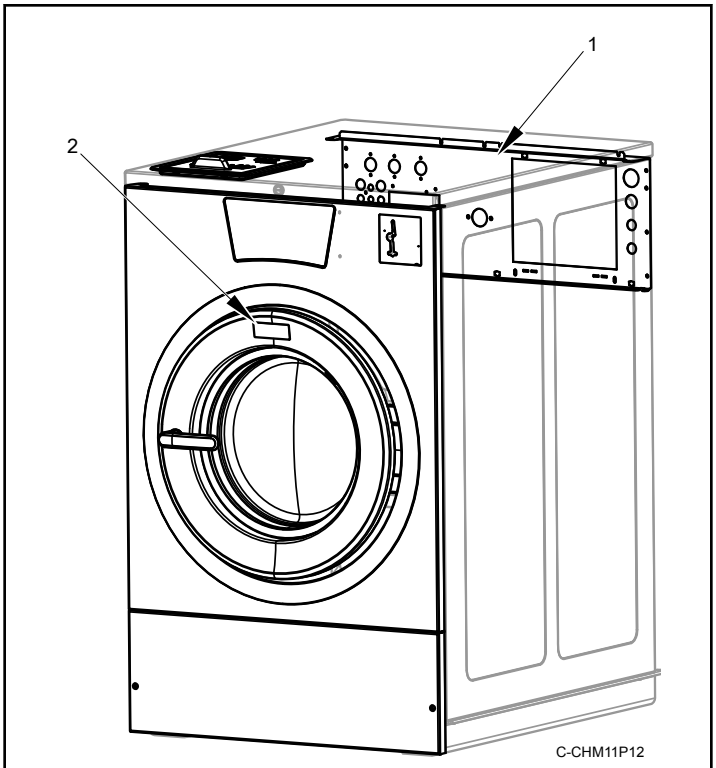


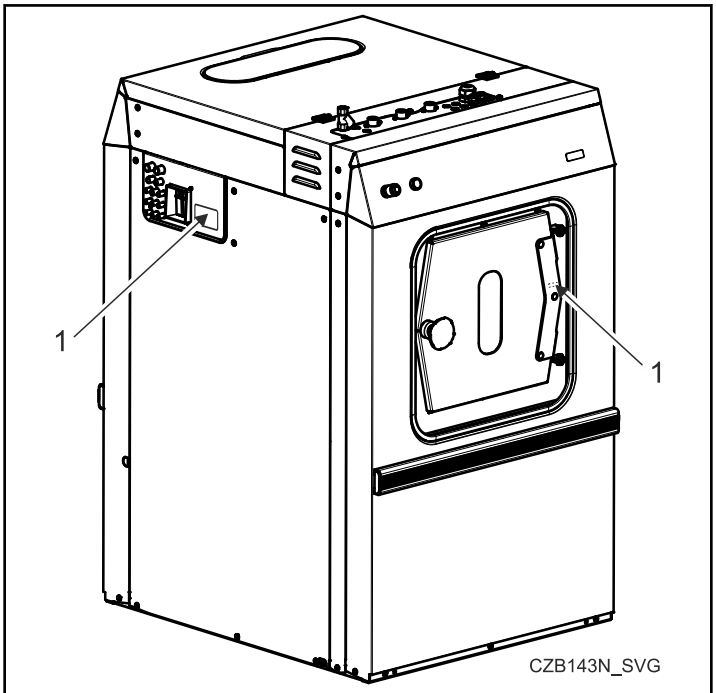
Figure 2

Always provide the machine's serial number and model type and Front-End Control Software Version and I/O Board Software version when ordering parts or when seeking technical assistance. Refer to *Figure3*, *4* and *5*



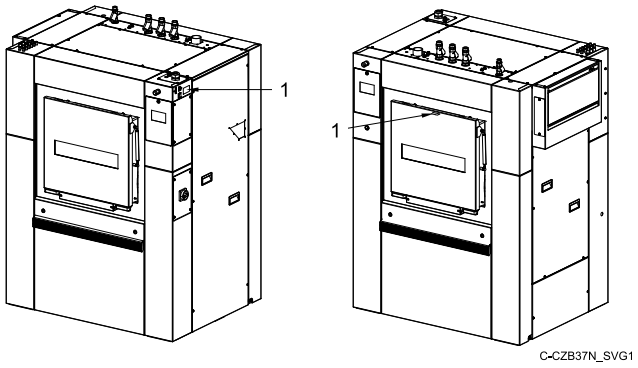
1. Serial Plate on Panel
2. Serial Plate on Door Frame

Figure 3



1. Serial plate

Figure 4



1. Serial plate

Figure 5

Replacement Parts

If literature or replacement parts are required, contact the source from which the machine was purchased or contact Alliance Laundry Systems at +1 (920) 748-3950 for the name and address of the nearest authorized parts distributor.

If literature or replacement parts are required, contact the source from which the machine was purchased or contact the nearest authorized parts distributor.

Customer Service

For technical assistance, contact your local distributor or contact:

Manufacturer/Factory:
Alliance Laundry Systems
Shepard Street
P.O. Box 990
Ripon, WI 54971-0990
U.S.A.
www.alliancelaundry.com
Phone: +1 (920) 748-3121 Ripon, Wisconsin

In Country Representative:
Alliance do Brazil Maquines de Lavanderia Ltda.
Av. Eng. Luiz Carlos Berrini, 1748
Conj. 2104 – Cidade Monções
São Paulo – SP
Brasil 04571-000
Phone: 55 11 5505 2917
CNPJ: 17.658.250/0001-16

For technical assistance, contact your local distributor.

Preliminary Information

About the Control

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

This control allows the owner to program custom cycles, run diagnostic tests and retrieve audit and error information. Limited programmable options can be programmed manually via the *Settings Menu*. Full programmable options can be programmed via *Wi-Fi Communications*.

Machines shipped from the factory have default cycles and wash temperature settings built in. The owner can change the default cycles or any cycle.

IMPORTANT: It is extremely important that the machine has a positive ground and that all mechanical and electrical connections are made before applying power to or operating the machine.

Wi-Fi Communications

The control has the ability to connect with the ALS Wi-Fi Network via an internet connection using the network gateway interface device. Connection with the ALS Wi-Fi Network allows the user to program, collect data, and run diagnostics remotely.

USB Host

The owner can upload custom cycles and machine programming as well as extract audit data by connecting a USB drive to a port on the control.

Audit Information

The control collects and stores audit information which can be accessed through the touch display or Wi-Fi communication. Refer to the *Audit Data Menu* for a list of available audit information.

Using Wi-Fi communication, the user can receive audit and program data from the control and send programming data and diagnostic commands to the control.

Special Features

Cycle Time Display

The *Run Menu* shows the time remaining in the currently running cycle for user convenience.

Cycle Completed Timer

If enabled in programming, a timer begins counting up in the *Cycle Complete Menu* since the cycle ended.

Passcode Security

To disable passcode protection to the System Menu, programming through WiFi or PC communication is required.

Language Selection

The control contains 34 languages. Once a language is selected, all menus and displays will be shown in the chosen language.

Delay Start

The delay start features allows the user to define the start time and postpone the run of the selected wash cycle. Refer to *Delay Start* for more information.

SmartWAVe Weighing System

For IY models only.

- Cabinet Freestanding 6.5 - 7.5 - 10.5 - 13.5 - 18 - 24 - 28 kg / 14-20-25-30-40-55-70 lb / 65-80-105-135-180-240-280 L.
- Cabinet Freestanding 35 - 45 - 60 - 80 - 100 - 120 kg / x - x - x - 180 -230 - 275 lb. / 350 - 450 - 600 - 800 - 1000 - 1200 L.
- Cabinet Hardmount 7.5 - 10.5 - 13.5 - 18 - 24 - 28 - 35 - 52 kg / 20-25-30-40-55-70-80-120 lb / 80-105-135-180-240-280-332-520 L.
- Small Range Barrier Washer 18 - 24 - 28 kg / 40-55-70 lb / 180-240-280 L.
- With the SmartWave function activated the machine automatically adjusts the amount of water according to the amount of loaded linen. If the function is activated it is automatically used for all wash programs.
- However, the user can also deactivate the function at the beginning of each wash program. As soon as a program is started, the "Rapid Advance" graphic button appears.

If the user presses the "Rapid Advance" button, the function is deactivated and no water adjustment/reduction will occur for this particular wash cycle. The option then reappears in the next wash cycle. In case that you want to disable the SmartWAVe function for all programs, deactivate it in the Additional Machine Settings Menu.

Hygienic Cycle

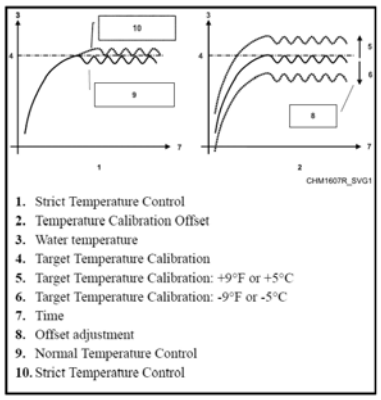


Figure 6

Hygienic Water Level

This option activates the mode of more accurate checks of the required water level during the washing procedure

Strict Temperature Control

In normal operation, the washing machine heating system works with a temperature control hysteresis below the programmed target temperature value. Strict Temperature Control ensures that the fabrics are washed at same value as the programmed target temperature. Some washing machine operators want strict temperature control for hygienic wash cycles. Example: this means when 158°F [70°C] is programmed, the linen must be washed at a temperature that doesn't drop below 158°F [70°C]. This solution is possible by switching on the "Strict Temperature Control" function. In this case the wash computer works with a temperature control with a hysteresis above the programmed temperature value. Strict Temperature Control is not applicable for delicates and woolens, and will not work for a programmed temperature lower than 86°F [30°C].

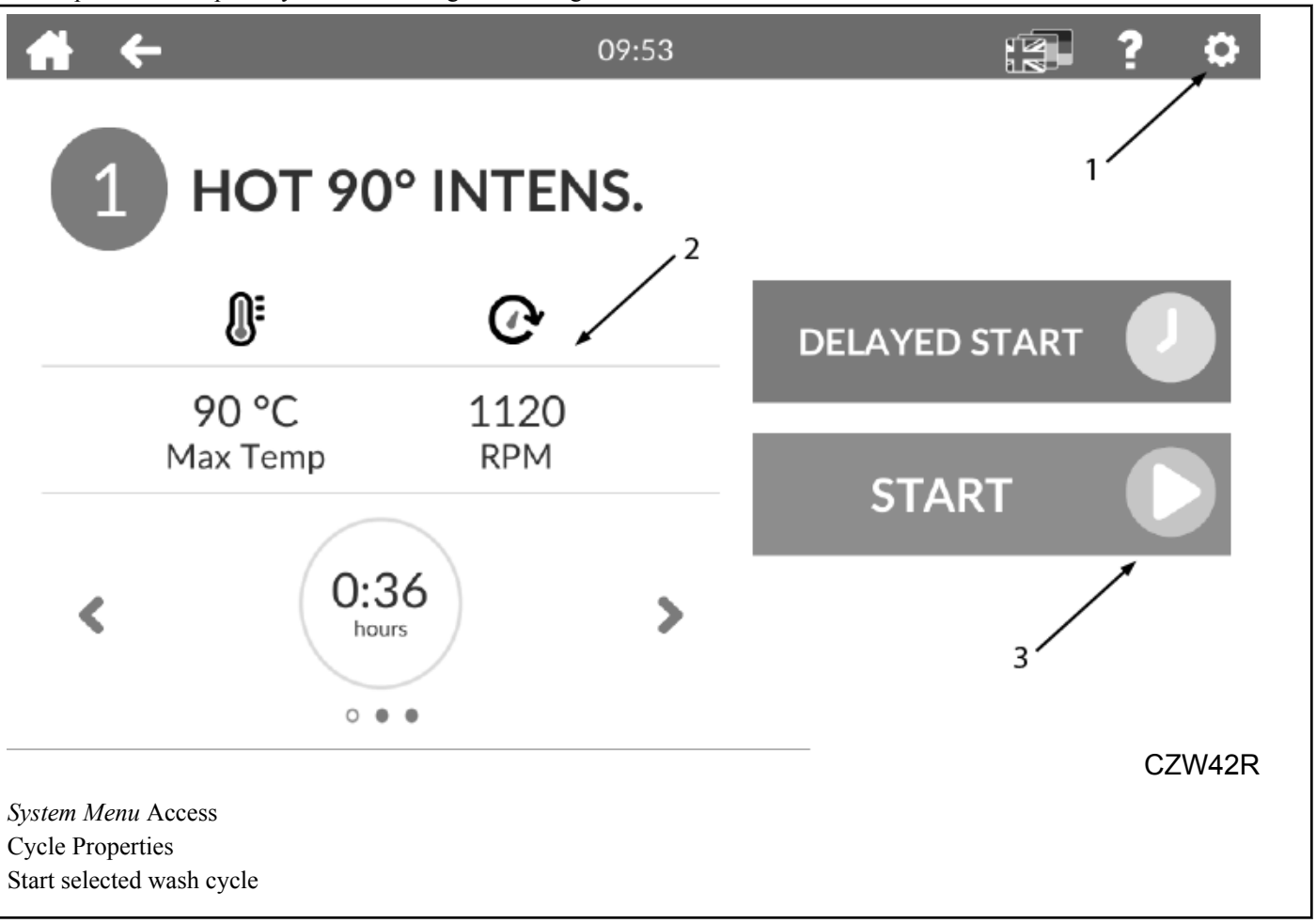
Temperature Calibration Offset

The temperature sensor of the washing machine can be calibrated with an external temperature measurement device as reference. The temperature sensor value can be adjusted in a range of +9°F or +5°C and -9°F or -5°C. For normal washing machine use such calibration is not required.

Control Identification

Operational Touch Display

The control includes a capacitive touch display with text and icons that are available for the operator to control and manage the machine's operation. The primary icons used for general navigation that are available on most menus and displays are shown in *Table 1*. Additional icons and descriptions are described throughout this manual as needed. Sections of certain menu displays can be swiped to scroll through options.



1. *System Menu* Access
2. Cycle Properties
3. Start selected wash cycle

Icon*		Description
Translate		Touch to open the Language Select Panel showing the list of available languages. The default language is at the top of the list. Selecting a different language changes all displays to that language.
Back		Touch to navigate to the previously-displayed menu.

Table 1 *continues...*

Icon*		Description
Help	?	Touch to display the *Help Menu* showing (if programmed in the *Settings Menu*) staff contact phone number, machine operating instructions, soap dispenser icon key and common questions. Touch to display the *Help Menu* showing (if programmed in the *Settings Menu*) staff contact phone number, machine operating instructions and common questions. Touch to display the *Help Menu* showing (if programmed in the *Settings Menu*) programmable contact phone number and maintenance schedule.
Home		Touch to go to initial screen.
System Menu Access		Touch to navigate to the *System Menu*.
Wi-Fi Signal Strength		Shows the connectivity status and signal strength of the Wi-Fi connection. This icon is only shown in the *System Menu*. Touch to access Wi-Fi Settings.
Directional Arrow	⌄	Indicates there is more information than what is visible on the screen.
*Not all icons are shown on every menu or display.		

Table 1

Operation Modes

In each mode of operation, the user may touch the screen or communicate with the control to change the displayed menu.

Ready Mode

The control is ready for operation in Ready Mode. The control displays the *Approach Page*, if enabled. If there is no user input for 4.25 minutes, the display dims.

Machine Error Mode

Figure 7

The control enters this mode when an error is set. The control displays the error and error information. The owner can enable and disable certain errors and error displays as well as access to clear errors in programming.

A notch appears in the header bar when a non-fatal error is set.

Internal Control Failure

If the control detects an error in its software or hardware, all outputs are turned off and the control displays the failure. If this condition persists after an attempt to restart, then the control must be replaced.

Out of Order Mode

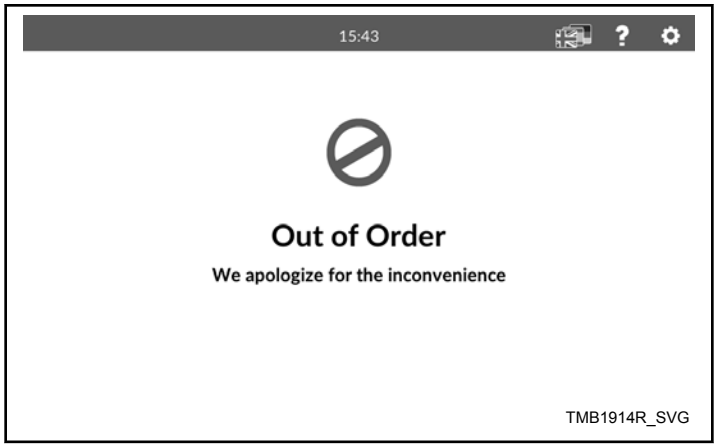


Figure 8

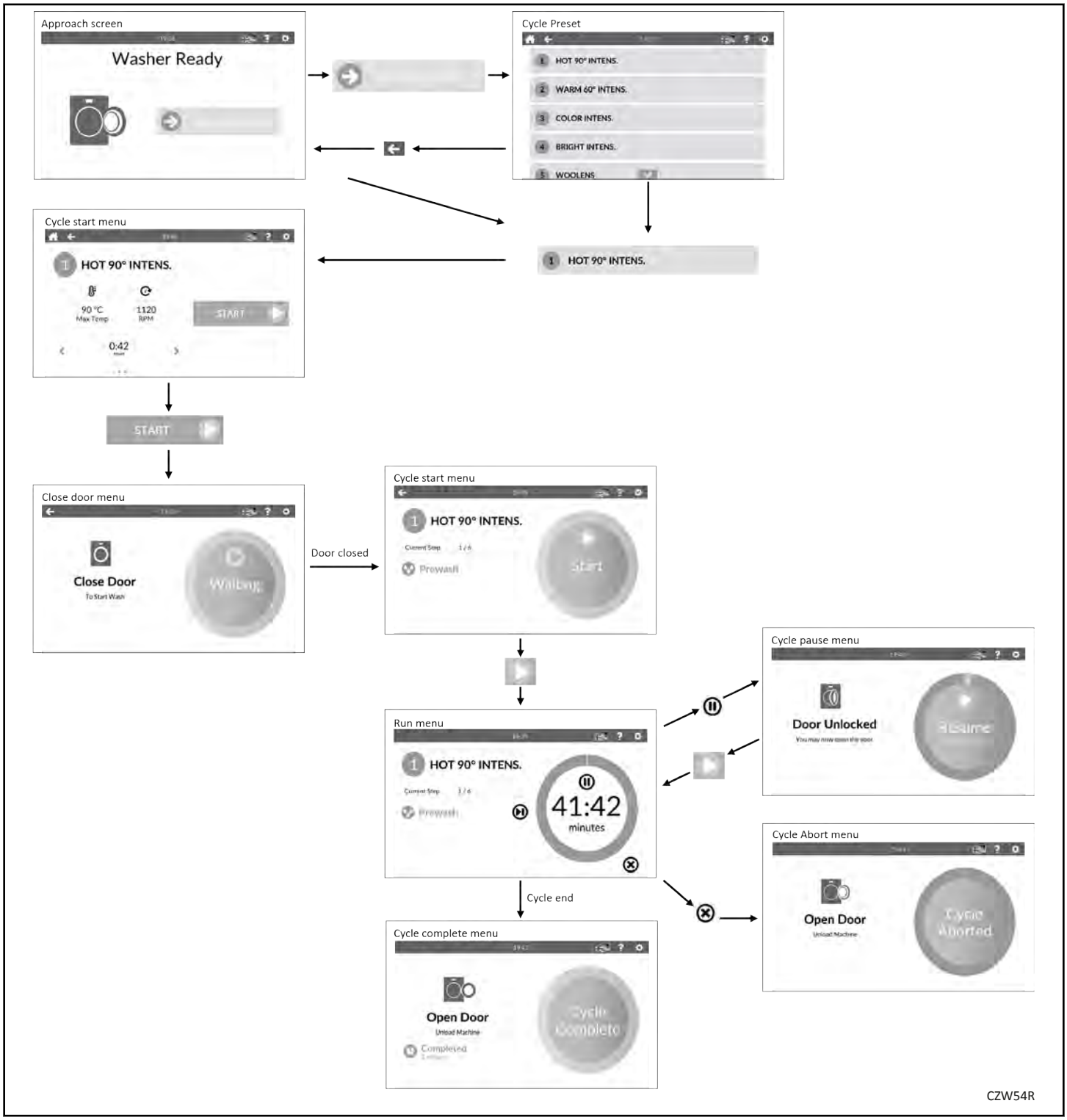
The owner can activate and deactivate Out of Order Mode through the *Settings Menu* from the *Approach Page* and the *Cycle Preset*.

The display shows " Out of Order " and " We apologize for the inconvenience " to show the machine is unavailable. The control does not allow cycles to run in this mode.

While in Out of Order Mode, the *Settings Menu*, *Language Selection Panel* and *Help Menu* are accessible.

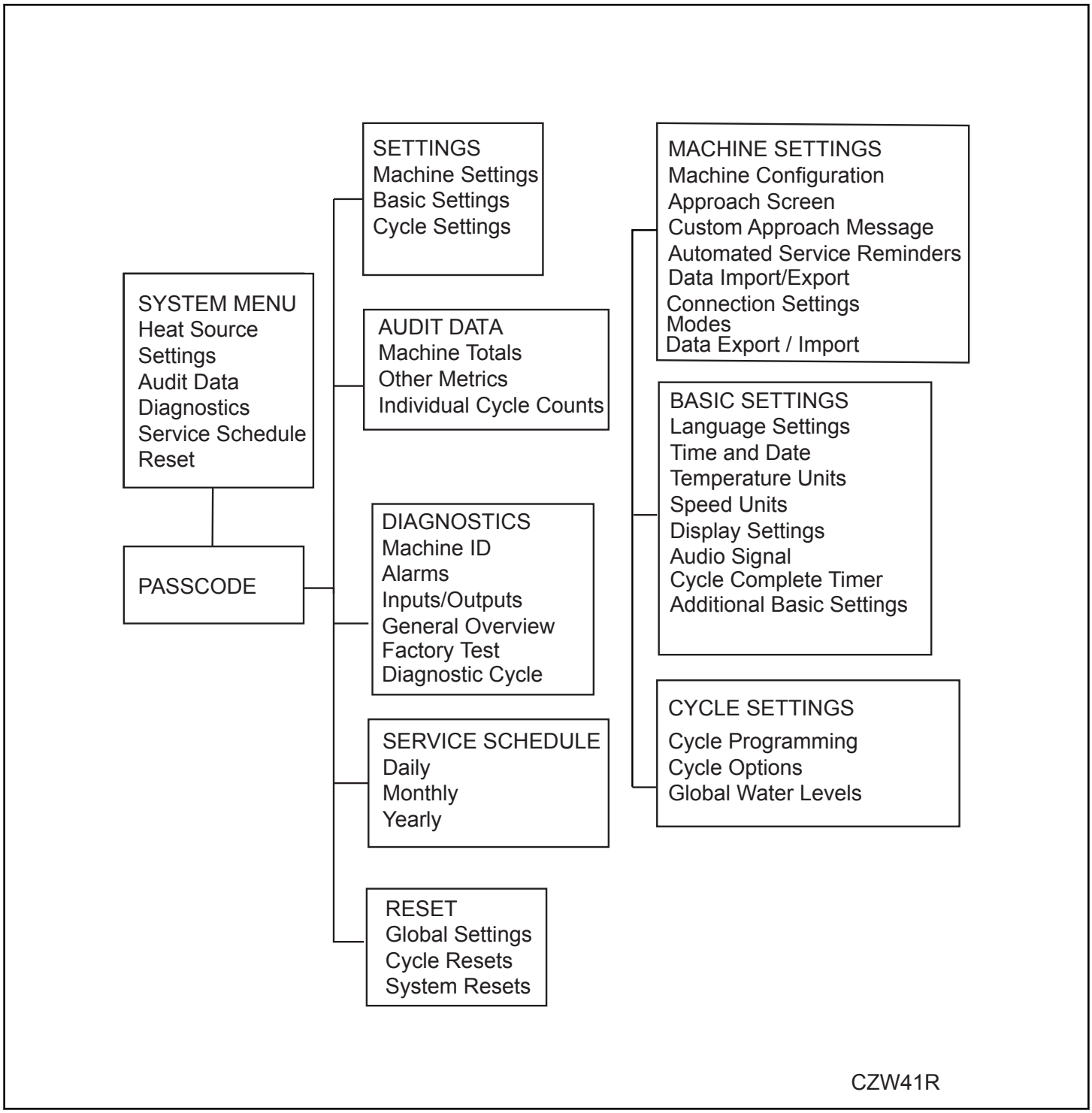
Menu Navigation

Refer to the following charts for maps of the display menus.



System Menu Navigation

NOTE: Refer to a specific menu section for sub-menus and additional information.



Machine Cycle Definition and Operation

The control comes programmed with 20 machine cycles. The owner can modify machine cycles or set them to " Unavailable " by manually editing them in the *Settings Menu*, or through PC connection by downloading a modified machine cycle into the control. Machine cycles can be deleted or made " Unavailable " so that they are not visible from the *Cycle Preset*. New machine cycles can be added and existing cycles can be copied or edited.

Refer to *Page 20* for an overview of menus.

Cycle Preset

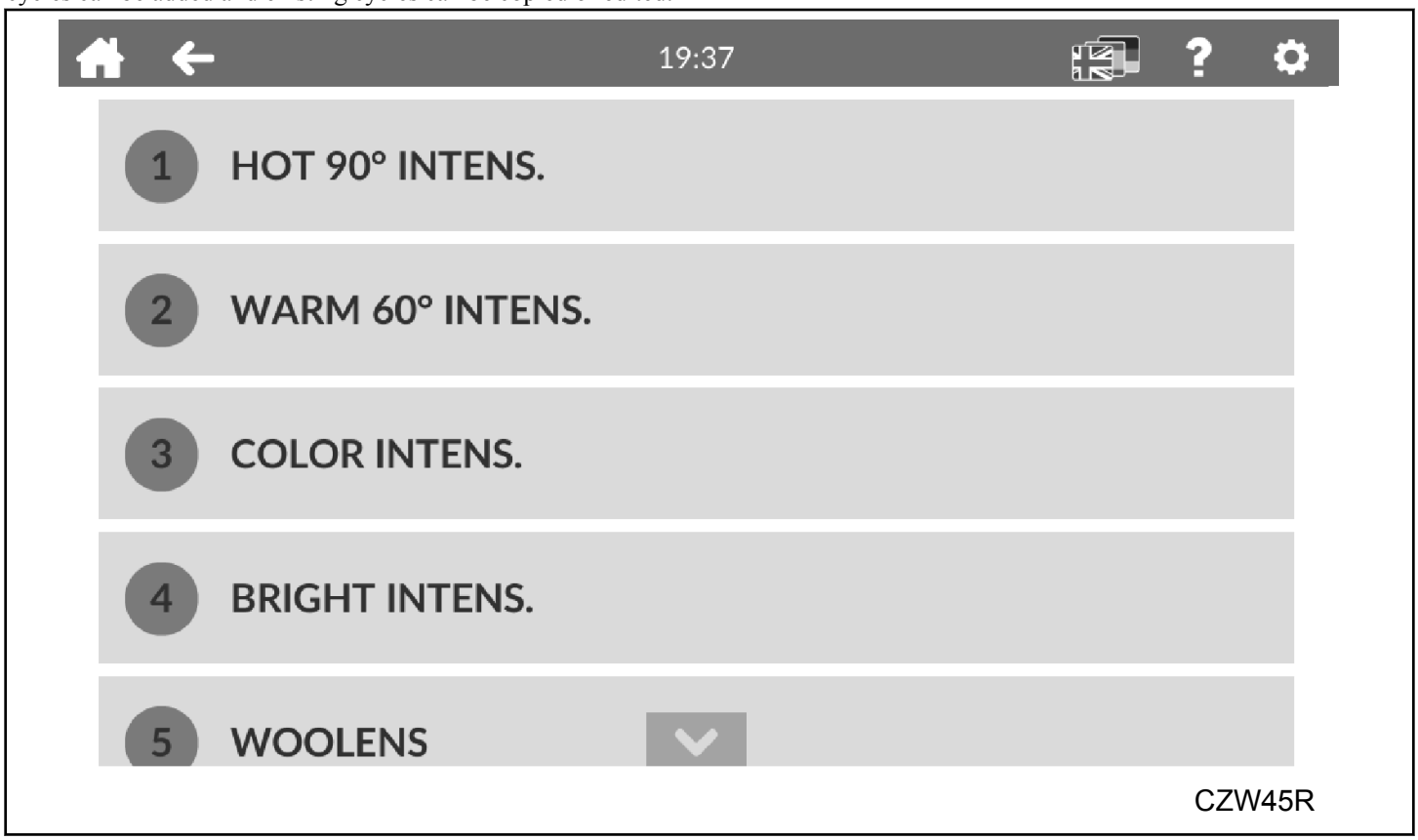


Figure 9

The Cycle Preset allows the user to select a preset wash cycle by touching the cycle row in the preset list. Machine cycles that are programmed to "Unavailable" are not displayed in the Preset list.

Help Menu

Figure 10 .

To access, touch **?** in the menu header of any end-user screen.

Touch ✕ or the masked area to close the menu.

Language Selection Panel

Figure 11

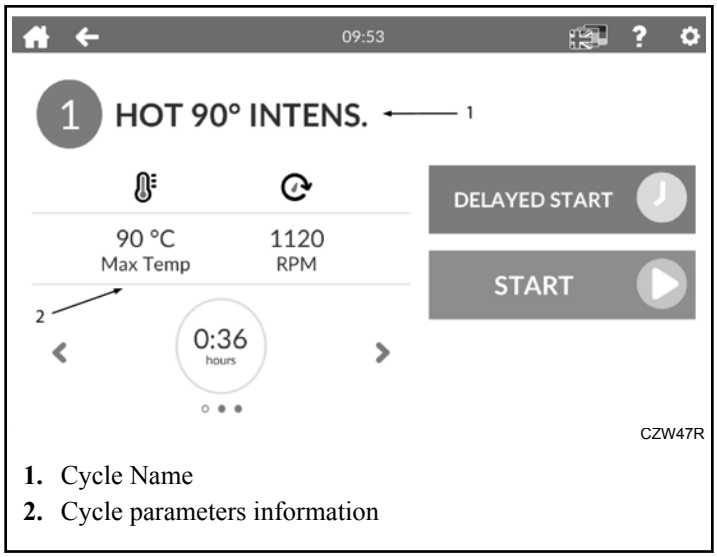
The Language Selection Panel displays over the top of the current menu. This menu allows the user to select a language that will translate all displays, including displays within the *System Menu*. 34 languages are available. All languages are available from the *System Menu*. Only languages programmed in the *Settings Menu* are available when not in *System Menu*.

To access, touch in the menu header of any menu display.

Touch ✕ or the masked area to close the menu.

Start a Cycle

1. Select a cycle from the cycle options menu Cycle Preset. (refer to *Figure 8*)



1. Cycle Name
2. Cycle parameters information

Figure 12

2. Touch START to begin the cycle.
3. The control displays the *Run Menu* until the cycle is complete.

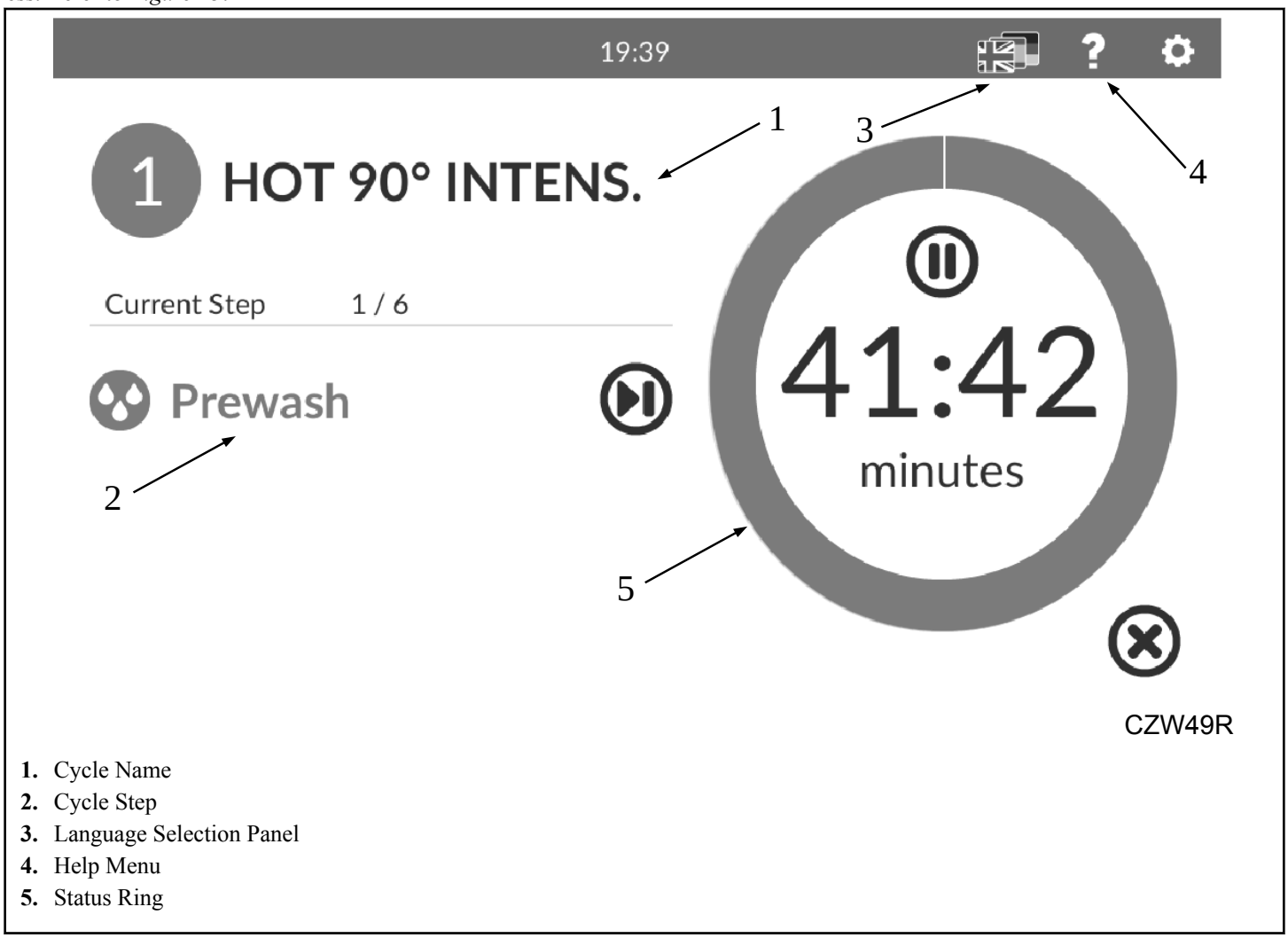
Close Door Menu

Figure 13

The control displays the Close Door Menu when the loading door is open when starting a cycle or while in a hold step. Close the door to start or resume the cycle.

Run Menu

The Run Menu displays the cycle name, status, temperature, cycle step list and remaining cycle time while the cycle is in process. Refer to *Figure 13*.



1. Cycle Name
2. Cycle Step
3. Language Selection Panel
4. Help Menu
5. Status Ring

Figure 14

Touch pause button to pause running wash cycle. The display changes to the Cycle Pause screen.

The display shows the *Cycle Complete Menu* when the cycle is complete.

Cycle Pause Menu

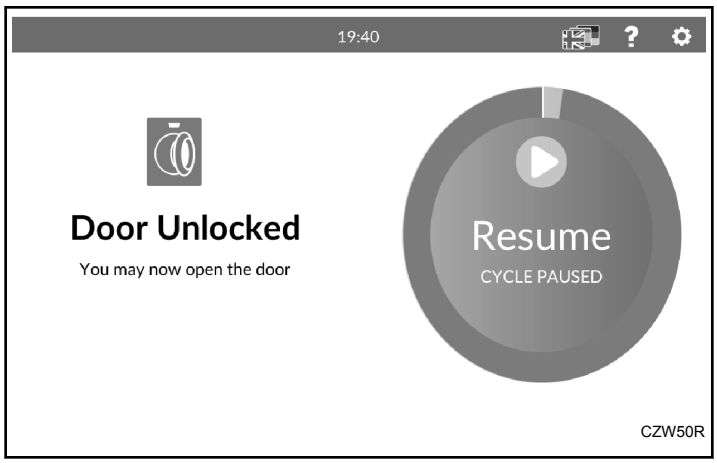


Figure 15

Touch " Resume " to resume the current cycle. The display returns to the *Run Menu*.

Cycle Complete Menu

Figure 16

The Cycle Complete Menu displays when the machine reaches the end of a cycle .

The Cycle Complete Menu shows " Cycle Complete " when a cycle completes. If enabled in programming, the display also shows the time since the cycle completion.

The control returns to Approach page when the user opens the loading door.

Delay Start

The Delay Start feature allows the user to start a cycle at a later time. This function is only available when Delay Start is enabled in the Machine Settings system menu.

To use Delay Start:

1. Select the wash cycle on the Cycle Preset screen.
2. Press Delay Start button on Cycle Selected screen, the Delay Start screen appears. Refer to *Figure 17*. Selecting a different wash cycle deselects Delay Start.

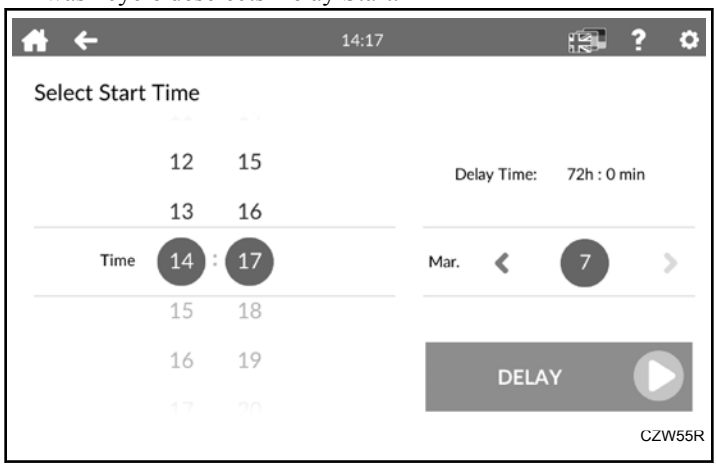


Figure 17

3. Select the delay duration by pressing the ⊕ and ⊖ buttons.
4. Press "Next" to continue to the Additional Options screen.
5. Select additional options.
6. Press "Start". The Run Menu screen will appear and shows "Delay Start" as the first step. Refer to *Figure 18*. Delay Start can be canceled by pressing the "Exit" button. The delay can be skipped and the cycle started immediately by pressing the "Start" button.

Figure 18

7. If no buttons are pressed, the cycle is postponed until the specified time has passed.

Manual Programming

System Menu

Figure 19

The System Menu allows the user access CANCEL CYCLE (*Cancel Cycle*), ERROR PRESENT (*Clear Active Error*), ADVANCED INFO (*Advanced Info Menu*), SETTINGS (*Settings Menu*), AUDIT DATA (*Audit Data Menu*), DIAGNOSTICS (*Diagnostics Menu*), SERVICE SCHEDULE (*Service Schedule Menu*) and RESET (*Reset Menu*).

⌄ indicates there is more content than fits on the screen. Swipe up or down to see all content.

Touch back to return to the previous screen.

Touch EXIT to exit Manual programming.

Passcode Menu

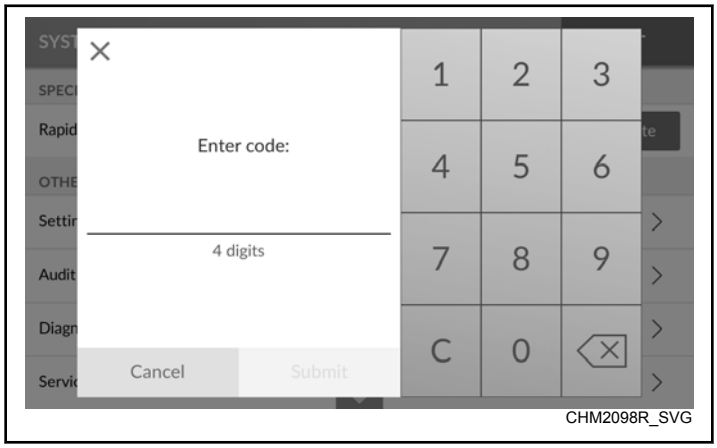


Figure 20

The owner can program the control to require users to enter a passcode to access the *System Menu*.

1. To enter to the System Menu touch the System menu icon on top-right display conner. Enter the four (4) digit passcode by touching the numbers on the display. - "1007"
2. Touch SUBMIT on the touchscreen to access the selected *System Menu* sub-menu.

Save Changes Menu

Figure 21

After modifications are complete, touch EXIT to access the Save Changes Menu.

- Touch SAVE AND EXIT to save changes and exit the current menu.
- Touch EXIT WITHOUT SAVING to discard changes and exit the current menu.
- Touch ✕ to return to the current menu and continue making changes.

Cancel Cycle

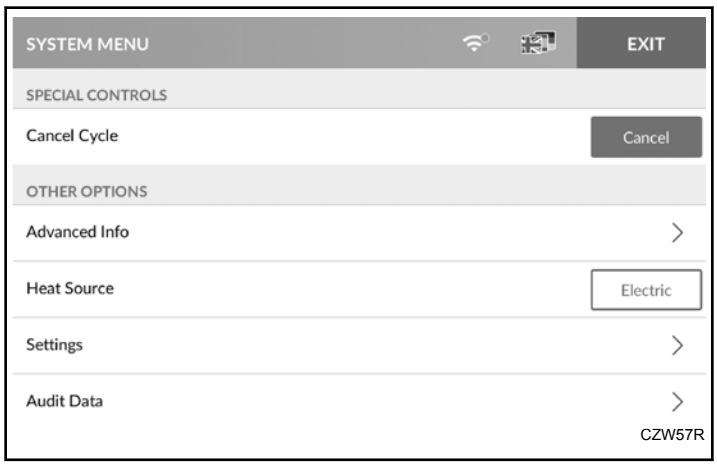


Figure 22

1. To access, touch System Menu button on screen header.
2. Touch CANCEL next to CANCEL CYCLE to end the cycle and hide the option.
3. When finished, touch EXIT to exit the *System Menu*.

Clear Active Error

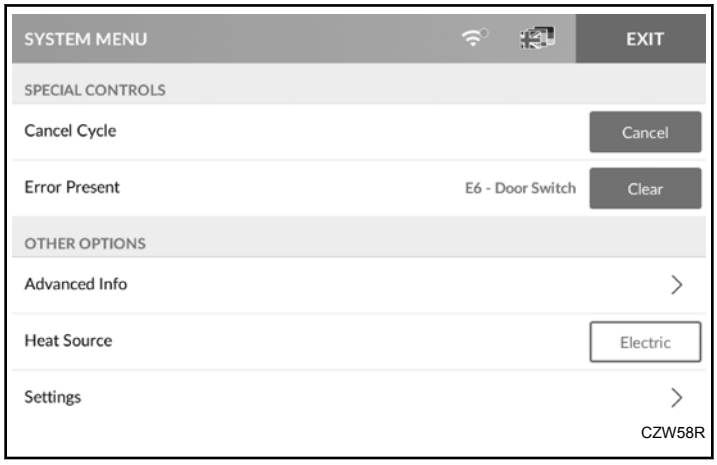


Figure 23

1. To access, touch System Menu button on screen header.
2. Touch Clear next to ERROR PRESENT to clear the error. This option only shows if errors are present.
3. When finished clearing the error, touch EXIT to exit the *System Menu*.

Advanced Info Menu

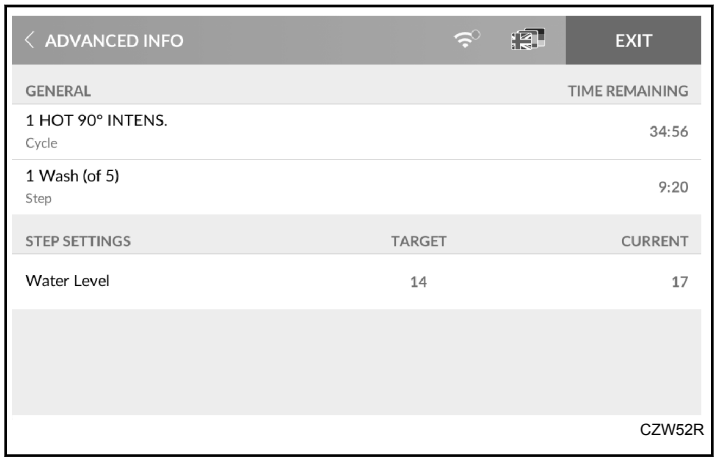


Figure 24

1. To access, touch System Menu button on screen header.
2. Touch ADVANCED INFO from the display to enter the Advanced Info Menu.
3. When finished, touch ADVANCED INFO to return to the *System Menu* or EXIT to exit the *System Menu*.

Audit Data Menu

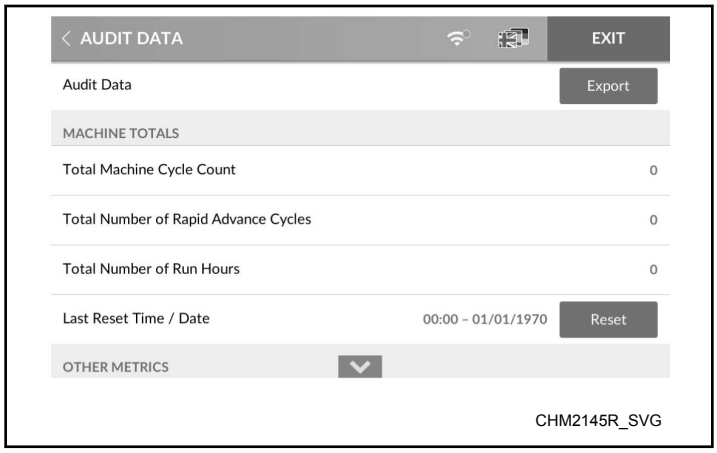


Figure 25

The Audit Menu allows the user to read audit data via the touch display rather than connecting to a PC.

The display will show the following audit parameters:

- Machine Totals
  - Total number of machine cycles
  - Total vend count
  - Total number of Coin 1
  - Total number of Coin 2
  - Total number of start pulses
  - Total number of rapid advance cycles
  - Total number of run hours
- Resettable Counters (touch RESET to reset these counters)
- Other Metrics
- Individual Cycle Counts

1. To access, touch and hold the menu header from the display to enter the *System Menu*.
2. Touch AUDIT DATA from the display to enter the Audit Menu.
3. Swipe to view the information.
4. When finished viewing or running diagnostics, touch AUDIT DATA to return to the *System Menu* or EXIT to exit the *System Menu*.

Diagnostics Menu

Figure 26

The Diagnostics Menu includes MACHINE ID (*Machine ID Menu*), ALARMS (*Alarms Menu*), and INPUTS/OUTPUTS (*Inputs/Outputs Menu*).

1. To access, touch and hold the menu header from the display to enter the *System Menu*.
2. Touch DIAGNOSTICS from the display to enter the Diagnostics Menu.
3. When finished viewing or running diagnostics, touch DIAGNOSTICS to return to the *System Menu* or EXIT to exit the *System Menu*.

Machine ID Menu

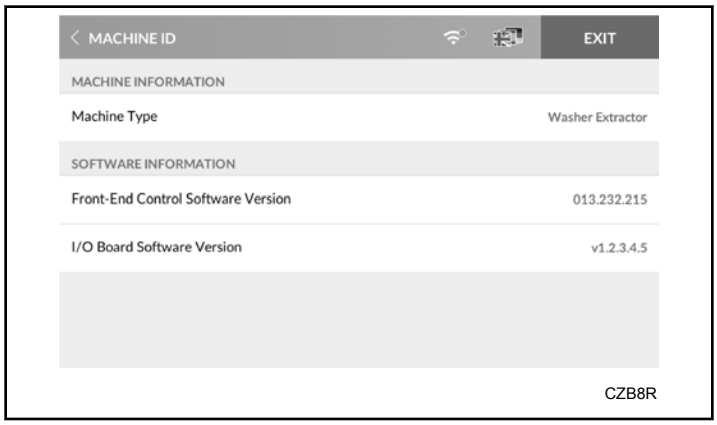


Figure 27

The Machine ID Menu displays the following information.

- Machine Type
- Front-end Control Software Version

1. To access, touch MACHINE ID from the *Diagnostics Menu*.
2. Swipe to scroll through the Machine ID Menu.
3. When finished viewing machine information, touch MACHINE ID to return to the *Diagnostics Menu* or EXIT to exit the *System Menu*.

Alarms Menu

Figure 28

The Alarms Menu allows the owner to view total alarm occurrences, access the Individual Alarm Counts sub-menu, and view the alarm history queue which includes the cycle, step, error type, time and date details for the last 25 alarms.

1. To access, touch ALARMS from the *Diagnostics Menu*.
2. Swipe to scroll through the Alarms Menu.
3. When finished viewing or running diagnostics, touch ALARMS to return to the *Diagnostics Menu* or EXIT to exit the *System Menu*.

Inputs/Outputs Menu

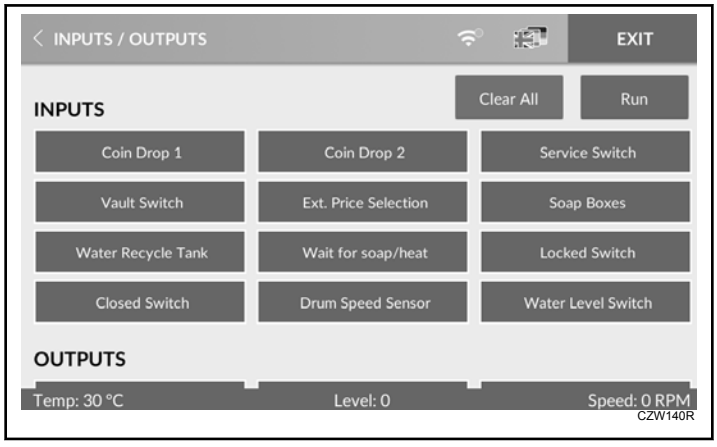


Figure 29

The Inputs/Outputs Menu gives a user the ability to manipulate machine outputs for component testing and monitor the current state of all control inputs. Screen and buttons can vary based on Machine Type.

Selected outputs appear in a white field box. Active inputs and outputs appear in a dark blue filled box.

1. To access, touch INPUTS/OUTPUTS from the *Diagnostics Menu*.
2. Touch desired outputs to include in the test.

   NOTE: Touch CLEAR ALL to deselect all outputs.
3. Touch RUN to begin the outputs test. The test results show in the footer of the display.
4. Touch CANCEL to end the test.
5. When finished viewing or running diagnostics, touch INPUTS/OUTPUTS to return to the *System Menu* or EXIT to exit the *System Menu*.

Machine Errors

Figure 30

The control displays and logs errors as they occur. When the control senses the error condition, the audit counter for that error increases by one (1). The control saves the time and date of the last 25 errors which have occurred.

Clear errors manually (if enabled in programming) by touching CLEAR ERROR (when shown) or cycle power to the machine.

Certain errors trigger a 15 second Machine Error Tone. Touch the display to silence the tone.

Service Schedule Menu

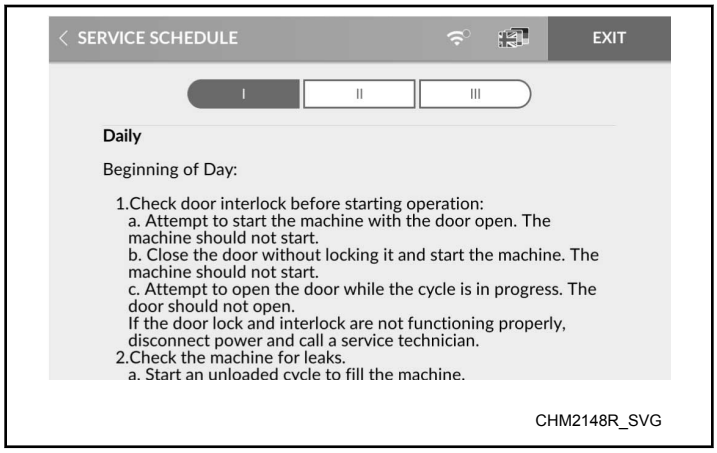


Figure 31

The Service Schedule Menu allows the user to view instructions for daily, monthly, and yearly machine maintenance.

1. To access, touch and hold the menu header from the display to enter the *System Menu*.
2. Touch SERVICE SCHEDULE from the display to enter the Service Schedule Menu.
3. Touch Daily, Monthly or Yearly to view maintenance instructions.
4. Swipe to scroll through the service instructions.
5. When finished viewing instructions, touch SERVICE SCHEDULE to return to the *System Menu* or EXIT to exit the *System Menu*.

Reset Menu

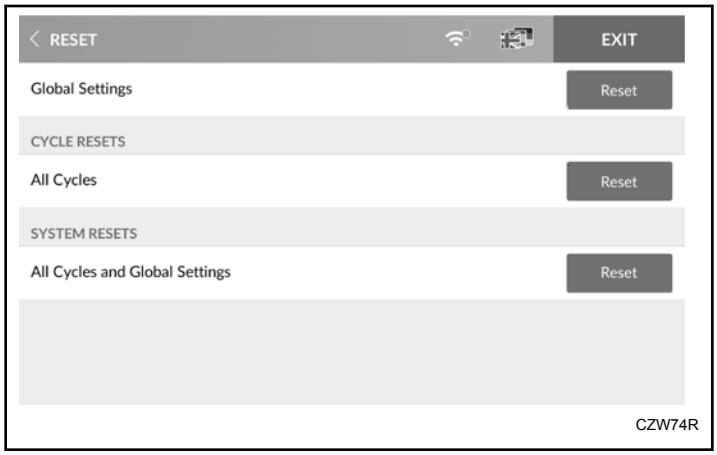


Figure 32

If enabled (refer to *System Menu*), the Reset Menu allows the user to reset the control's global and cycle programming data to the factory default setting.

1. To access, touch and hold the menu header from the display to enter the *System Menu*.
2. Touch RESET from the display to enter the Reset Menu.
3. Swipe to scroll through the list of reset options.
4. Touch RESET next to the item to be reset. The display shows the Reset Confirmation Menu.
5. Touch RESET to reset the list item to the factory default setting or touch CANCEL to return to the Reset Menu.
6. When finished making changes, touch EXIT to return to the *System Menu*.

Settings Menu

Figure 33

1. To access, touch System Menu button on screen header.
2. Touch SETTINGS from the display to enter the Settings Menu.
3. When finished making changes, touch SETTINGS to return to the *System Menu* or EXIT to exit the *System Menu*.

NOTE: Updating of specific parameters can cause automatic removing of all defined wash cycles. The automatic removing of all defined wash cycles is performed when the Total Number of Inlets settings is changed.

In that case the default cycles must be loaded again by Reset menu - All cycles.

Basic Settings

BASIC SETTINGS			
Display		**Description**	**Default**
Language Settings			
	Default Language	Set the language that appears on all displays by default.	

Table 2 *continues...*

BASIC SETTINGS			
Display		**Description**	**Default**
	Select One	English Español (España) Español (Colombia) Français 简体中文 繁體中文 Русский Deutsch 日本語 Italiano Português (Portugal) Português (Brasil) 한국어 Nederlands Čeština Suomi Dansk Svenska Norsk Polsk Slovenščina Română Hrvatski Magyar Latviešu Lietuvių kalba Slovenčina ελληνικά български Türkçe Bahasa Indonesia Bahasa Melayu ภาษาไทย Tiếng Việt	English

Table 2 *continues...*

BASIC SETTINGS			
Display		**Description**	**Default**
	Available Languages	Languages set to "Enable" show in the *Language Selection Panel*.	
	English	Enable/Disable	Enabled
	Español (España)	Enable/Disable	Enabled
	Español (Colombia)	Enable/Disable	Enabled
	Français	Enable/Disable	Enabled
	简体中文	Enable/Disable	Enabled
	繁體中文	Enable/Disable	Enabled
	Русский	Enable/Disable	Enabled
	Deutsch	Enable/Disable	Enabled
	日本語	Enable/Disable	Enabled
	Italiano	Enable/Disable	Enabled
	Português (Portugal)	Enable/Disable	Enabled
	Português (Brasil)	Enable/Disable	Enabled
	한국어	Enable/Disable	Enabled
	Nederlands	Enable/Disable	Enabled
	Čeština	Enable/Disable	Enabled
	Suomi	Enable/Disable	Enabled
	Dansk	Enable/Disable	Enabled
	Svenska	Enable/Disable	Enabled
	Norsk	Enable/Disable	Enabled
	Polsk	Enable/Disable	Enabled
	Slovenščina	Enable/Disable	Enabled
	Română	Enable/Disable	Enabled
	Hrvatski	Enable/Disable	Enabled
	Magyar	Enable/Disable	Enabled
	Latviešu	Enable/Disable	Enabled
	Lietuvių kalba	Enable/Disable	Enabled
	Slovenčina	Enable/Disable	Enabled
	ελληνικά	Enable/Disable	Enabled

Table 2 *continues...*

BASIC SETTINGS			
Display		**Description**	**Default**
	български	Enable/Disable	Enabled
	Türkçe	Enable/Disable	Enabled
	Bahasa Indonesia	Enable/Disable	Enabled
	Bahasa Melayu	Enable/Disable	Enabled
	ภาษาไทย	Enable/Disable	Enabled
	Tiếng Việt	Enable/Disable	Enabled
Time and Date		Set the current time, format and daylight saving options.	
	Current		
	Clock Time	00:01-23:59	Actual UTC Time
	Month	Jan-Dec	Actual UTC Time
	Date	1-31	Actual UTC Time
	Year	2000-2099	Actual UTC Time
	Settings		
	Separator Type	(.), (-), (/)	/
	Date Format	MMDDYYYY DDMMYYYY YYYYMMDD	DDMMYYYY
	Daylight Saving	Enabled / Disabled	N/A
	Start		
	Start Month	January - December	March
	Start Week of Month	1-5	2
	Start Day of Week	Sunday - Saturday	Sunday
	Start Hour	0-24	2
	End		
	End Month	January - December	November
	End Week of Month	1-5	1
	End Day of Week	Sunday - Saturday	Sunday
	End Hour	0-24	2

Table 2 *continues...*

BASIC SETTINGS			
Display		**Description**	**Default**
Temperature Units		˚C/˚F	˚C
Speed Units		G-force/RPM	RPM
Display Settings		Set display backlight options.	
	Screen Saver	Enable/Disable	Disabled
	Backlight Brightness		
	During User Interaction	0-100	75
	While Running	0-100	50
	While Idle	0-100	25
Audio Signal		Set instances when the machine sounds a tone.	
	Button Pressed	Enable/Disable	Disabled
	End of Cycle	Enable/Disable	Disabled
	Duration	1-120 Seconds	1 Second
Cycle Complete Timer		Enable/Disable	Enabled

Table 2

Additional Basic Settings

Additional Basic Settings			
Display		**Description**	**Default**
Additional Basic Settings			
	Reset Service Counts	Reset Button	
	Service Interval	1-9999 cycles	3000
	Buzzer Time	1-99 seconds	5
	Automatic Cooldown	Enable/Disable	Disabled
	Wait for Temperature	Enable/Disable	Disabled
	Temperature Balance	Enable/Disable	Depends on machine type
	Hot Water Heater Temperature	122-176°F [50-80°C]	140°F [60°C]
	Temperature Overshoot Protection	0-30%	0%
	Maximum Heating Time	10-90 minutes	60
	Maximum Water Fill Time	5-99 minutes	10

Table 3 *continues...*

Additional Basic Settings			
Display		**Description**	**Default**
	Overfill Detection	3-25	Depends on machine type
	External Wait Control	No Soap Heating Wait Time	No
	Average Cycle Time	Enable/Disable	Disabled
	Hygienic Water Level	Enable/Disable	Disabled
	Strict Temperature Control	Enable/Disable	Disabled
	Temperature Calibration Offset	'-9 - 9 °F [-5 - 5 °C] in 1° increments	0
	Door Lock Type	Different Lock types	
	Heat Source	Steam Electric Dual None	

Table 3

Machine Settings

Default values marked as * are customized at the factory according to the machine's specific market and model.

Values marked with ** are valid only for Cabinet Freestanding 35 - 45 - 60 / 350 - 450 - 600 L machines.

Machine Settings		
Display	**Description**	**Default**
Machine Configuration	View the configuration parameters of the machine.	

Table 4 *continues...*

Machine Settings				
Display			**Description**	**Default**
	Machine Type		*Y65, ...*Y280	*
	Auto Restart		Enable/Disable	Disabled
	Total Number of Inlets		2 or 3	*
	**Water Recycle Inlets		0 to 3	0
	**Main Water Pressure		Low, Medium, High	High
	Drain Valve 1 Inverted		Enable/Disable	Disabled
	Drain Valve 2		Enable/Disable	Disabled
	Liquid Soap Supply		Enable/Disable	Disabled
	Min. Level Start Sup.		0-10 only visible if liquid soap supply is enabled	0
	Extra Soap Timing		0-30 S	0
	**Supply Signal A		Liquid/Box	Box
	**Supply Signal B		Liquid/Box	Box
	**Supply Signal C		Liquid/Box	Box
	**Supply Signal D		Liquid/Box	Box
	**Supply Signal E		Liquid/Box	Box
	Full Heating		1-100%	1% / 67%
	Inverter Options		View the inverter options of the machine	
		Supply Voltage	3x380-415V+N, 1x220-240V, ...	*
		Load the Inverter Parameters	"Load" button	*
		Brand	Different brands	-
		Vended OPL Mode	Different modes	-
		Region	Different regions	-
		Customer	Different customers	-
Additional Machine Configuration				
Traceability				
	Enabled/Disabled		Enable/Disable	Disabled
	Errors		Enable/Disable	Enabled
	Stored Cycles		% (ReadOnly value)	-
	Stored Cycles Count		(ReadOnly value)	-
	Stored Cycles Count		"Clear" Button	-
Weighing				

Table 4 *continues...*

Machine Settings				
Display			Description	Default
	Weighing System		Availability Defends on machine type: No Auto Manual Ultra Balance Smart WAVe	No
	Units		kg, lb	kg
	Automatic Weighing			
		Weighing Calibration	Enable/Disable	Enable
		Expected Free Weight	0-999 kg	-
		Water Level	Units Liters Liters per kg	Units
		Wash Steps	Enable only when - Liters per kg 1 - 20 1/kg	3
		Rinse Steps	Enable only when - Liters per kg 1 - 20 1/kg	4
		Correct Linen Absorption	Enable/Disable	Disable
		Automatic Level Adjust	Enable/Disable	Disable
		Automatic Soap Adjust	Enable/Disable	Disable
		Scale Stabilization	5-15 s	3
		Calibration Coefficient	80-120%	100
	Manual Weighting			
		Default Weight Entry	Empty Last Used Predefined	Empty
		Predefined Weight Entry	0-999 kg	0
		Predefined Weight Entry	0-999 kg/lb	0
		Automatic Level Adjust	Enable/Disable	Disable
		Automatic Soap Adjust	Enable/Disable	Disable
	Ultra Balance			

Table 4 *continues...*

Machine Settings				
Display			**Description**	**Default**
		Enable Skip	Enable/Disable	Disable
		Automatic Level Adjust	Enable/Disable	Disable
		Automatic Soap Adjust	Enable/Disable	Disable
	SmartWAVe			
		Enable Skip	Enable/Disable	Enable
		Automatic Soap Adjust	Enable/Disable	Disable
Tilting				
	Tilting System		No Front Front Back	no
	Tilting System		10-300 s	30
Batch Entry				
	Enabled / Disabled		Enabled / Disabled	Disable
	Default Batch Entry		Empty Last Used Predefined	Empty
	Predefined Batch Entry		0-9999	
Barrier Model Settings				
	One door model		Enable / Disable	Disabled
	Multiple chambers		No 2 3	No
	IDLC Calibration		Button "Calibration"	
APPROACH SCREEN				
Custom Approach Message			"Edit",Keypad	-
Automated Service Reminders			Enable/Disable	Enabled
ERRORS				
	Water Leak Detection Error		Enabled / Disabled	Depends on machine type
		Enabled / Disabled	Enable/Disable	Depends on machine type

Table 4 *continues...*

Machine Settings					
Display				Description	Default
		Days Enabled		Sunday-Saturday	No weekday enabled
		Number of Cycles Between		0-127	50
		Display Sequence		Enable/Disable	Depends on machine type
	Show Drain Detection Error			Enabled / Disabled	Depends on machine type
		Enabled/Disabled		Enable/Disable	Depends on machine type
		Days Enabled		0-255 s	0
CONNECTION SETTINGS					
Wi-Fi Settings					
	System Connectivity Status			Wi-Fi Off/Wi-Fi On, No Connection to WAP/Wi-Fi On, Connected to WAP/Wi-Fi On, Connected to Server	Wi-Fi Off
	HARDWARE				
	MAC Address			XX-XX-XX-XX-XX-XX	-
	IPv4 Addressing			Current source setting.	Off
		IP Address Source		DHCP/Off/Static	DHCP
		IP Address		XXX.XXX.XXX.XXX	-
		Subnet Mask		XXX.XXX.XXX.XXX	-
		Default Gateway		XXX.XXX.XXX.XXX	-
		DNS Server		XXX.XXX.XXX.XXX	-
	IPv6 Addressing			Current source setting.	Off
		IP Address Source		SLAAC/Off/Static	-
		IP Address		0000:0000:0000:0000:0000:0000:0000:0000	-
		Subnet Prefix Length		/XXX	-
		Default Gateway		0000:0000:0000:0000:0000:0000:0000:0000	-
		DNS Server		0000:0000:0000:0000:0000:0000:0000:0000	-

Table 4 *continues...*

Machine Settings				
Display			Description	Default
		SECURITY / CONNECTION		
		SSID	1-32 characters	-
		Security Key	8-63 characters	-
		Maintain Connected Network	"Disconnect"	
		SIGNAL STATUS		
		Signal Level	-XXXdBm	-
		Signal Level Ratio	XXX/XXX	-
		Signal Noise Level	-XXX	-
		RF Channel	XXX	-
	Network Node Number		1-250	250
	SoapLink		Enable/Disable	Disable
	MODES			
	Delay Start		Enable/Disable	Enable
	Out of Order		Enable/Disable	Disable
	Manual Rapid Advance		Enable/Disable	Enable
Data Export/Import				
	Cycles/Configuration		Button: "Export"	
	Service Data		Button: "Export"	
	Cycles		Button: "Import"	
	Configuration		Button: "Import"	

Table 4

Cycle Settings for Washing Machines with Top Soap Dispenser

Cycle Settings			
Display		Description	Default
Cycle Programming		Edit default cycles and create custom cycles by duplicating and editing existing cycles.	
	<Selected Cycle>	Enable/Disable	-

Table 5 *continues...*

Cycle Settings				
Display			**Description**	**Default**
	Enable/Disable		Enable/Disable	-
	Name (custom cycle only)		Edit, Keypad (custom cycle only)	
	SETTINGS			
	Programmable Cycle Time		cycle	Only available when the Display Programmable Cycle Time option is ON
		Enabled / Disabled	Enable/Disable	
		Time	1-65535 minutes	-
	User Temperature Override		Set selectable options for users to change water temperatures.	
		Default Temperature	**SELECT ONE** Cold Warm Hot No Heat 59F [15C] 86F [30C] 104F [40C] 122F [50C] 140F [60C] 194F [90C]	-

Table 5 *continues...*

Cycle Settings				
Display			**Description**	**Default**
	AVAILABLE TEMPERATURES		Cold Warm Hot No Heat 59F [15C] 86F [30C] 104F [40C] 122F [50C] 140F [60C] 194F [90C]	-
	STEPS		Edit existing steps within a cycle and create custom steps by duplicating and editing existing steps.	
	Step Number Step Name Step Active State Step Label		Edit Copy Paste Insert Delete	-
		Type	**SELECT ONE** Prewash Wash Cool Down Rinse Final Rinse Soak No Wash Tumble	-
		State	**SELECT ONE** Always Enabled Disabled	-
Pre-wash			Set parameters for a prewash step.	

Table 5 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C] / "User Selected"	
	Water Level	Global Low/Global Medium/Global High/Custom (9-29)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (10-60 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	Inlet 4	Enable/Disable	Enabled
	Inlet 5	Enable/Disable	Enabled
	Inlet 6	Enable/Disable	Enabled
	Inlet 7	Enable/Disable	Enabled
	Inlet 8	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	

Table 5 *continues...*

Cycle Settings				
Display			**Description**	**Default**
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
		Valve	**SELECT ONE** 1 2 1 and 2	-
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate, Custom (10-60RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom* * **65 L/80 L Models:** (150-1165 RPM), **105 L/135 L Models:** (150-1075 RPM), **180 L/240 L Models:** (150-980 RPM), **280 L Models:** (150-915 RPM)	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Wash		Set parameters for a wash step.	

Table 5 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C]	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	Inlet 4	Enable/Disable	Enabled
	Inlet 5	Enable/Disable	Enabled
	Inlet 6	Enable/Disable	Enabled
	Inlet 7	Enable/Disable	Enabled
	Inlet 8	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	

Table 5 *continues...*

Cycle Settings				
Display			**Description**	**Default**
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
		Valve	**SELECT ONE** 1 2 1 and 2	-
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/ Custom (10-60RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom* * **65 L/80 L Models:** (150-1165 RPM), **105 L/135 L Models:** (150-1075 RPM), **180 L/240 L Models:** (150-980 RPM), **280 L Models:** (150-915 RPM)	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Rinse		Set parameters for a rinse step.	

Table 5 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C]	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	Inlet 4	Enable/Disable	Enabled
	Inlet 5	Enable/Disable	Enabled
	Inlet 6	Enable/Disable	Enabled
	Inlet 7	Enable/Disable	Enabled
	Inlet 8	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	

Table 5 *continues...*

Cycle Settings				
Display			**Description**	**Default**
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
		Valve	**SELECT ONE** 1 2 1 and 2	-
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/ Custom (10-60RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom* * **65 L/80 L Models:** (150-1165 RPM), **105 L/135 L Models:** (150-1075 RPM), **180 L/240 L Models:** (150-980 RPM), **280 L Models:** (150-915 RPM)	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Final Rinse		Set parameters for a final rinse step.	

Table 5 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C]	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	Inlet 4	Enable/Disable	Enabled
	Inlet 5	Enable/Disable	Enabled
	Inlet 6	Enable/Disable	Enabled
	Inlet 7	Enable/Disable	Enabled
	Inlet 8	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	

Table 5 *continues...*

Cycle Settings				
Display			**Description**	**Default**
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
		Valve	**SELECT ONE** 1 2 1 and 2	-
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agtitate/ Normal Agitate/Custom (10-60RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom* * **65 L/80 L Models:** (150-1165 RPM), **105 L/135 L Models:** (150-1075 RPM), **180 L/240 L Models:** (150-980 RPM), **280 L Models:** (150-915 RPM)	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Soak		Set parameters for a soak step.	

Table 5 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-22.5 hours	
	Temperature	35-194°F [2-90°C]	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	0.1-99.5 minutes	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	Inlet 4	Enable/Disable	Enabled
	Inlet 5	Enable/Disable	Enabled
	Inlet 6	Enable/Disable	Enabled
	Inlet 7	Enable/Disable	Enabled
	Inlet 8	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	

Table 5 *continues...*

Cycle Settings				
Display			**Description**	**Default**
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
		Valve	**SELECT ONE** 1 2 1 and 2	-
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/Custom (10-60 RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom* * **65 L/80 L Models:** (150-1165 RPM), **105 L/135 L Models:** (150-1075 RPM), **180 L/240 L Models:** (150-980 RPM), **280 L Models:** (150-915 RPM)	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Cool Down		Set parameters for a cool down step.	

Table 5 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C]	
	Drain Valve	**SELECT ONE** 1 2 1 and 2	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	DRAIN	Configure drain settings.	
	Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	
	Valve	**SELECT ONE** 1 2 1 and 2	
	Time	0-15 minutes	
	Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/Custom (10-60 RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom* * **65 L/80 L Models:** (150-1165 RPM), **105 L/135 L Models:** (150-1075 RPM), **180 L/240 L Models:** (150-980 RPM), **280 L Models:** (150-915 RPM)	
	Rotate Time	1-99 seconds (reversing drain only)	
	Pause Time	1-99 seconds (reversing drain only)	

Table 5 *continues...*

Cycle Settings				
Display			**Description**	**Default**
	No Wash		Set parameters for a no wash step.	
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	
		Valve	**SELECT ONE** 1 2 1 and 2	
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/Custom (10-60 RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom* * **65 L/80 L Models:** (150-1165 RPM), **105 L/135 L Models:** (150-1075 RPM), **180 L/240 L Models:** (150-980 RPM), **280 L Models:** (150-915 RPM)	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Tumble		Set parameters for a tumble step.	
		PROPERTIES		
		Duration	0.5-10 minutes	
		Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
		Rotate Time	1-99 seconds	
		Pause Time	1-99 seconds	
		CYCLE PROGRAMMING		

Table 5 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	Cycles		
	Predefined cycle list		
	Up to 99 cycles		
CYCLE OPTIONS			
Cycle Pause Resume		Enable/Disable	Enable
Display Programmable Cycle Time		Enable/Disable	
GLOBAL WATER LEVELS (refer to *Table 6* for default water levels by machine type)			
Low		9 - 29	
Medium		1 - 30	
High		1 - 30	

Table 5

Global Default Water Levels						
Machine Type	**Minimum**	**Maximum**	**Low**	**High**	**Eco Low**	**Eco High**
6.5kg / 14lb / 65L	9	29	13	14	11	12
7.5kg / 20lb / 75L	9	29	14	15	12	13
10.5kg / 25lb / 105L	9	30	14	15	12	13
13.5kg / 30lb / 135L	9	30	15	16	13	14
18kg / 40lb / 180L	7	30	18	19	16	17
24kg / 55lb / 240L	7	30	18	19	16	17
28kg / 70lb / 280L	7	30	18	19	16	17

Table 6

Global Default Water Levels Barrier Models						
Machine Type	**Minimum**	**Maximum**	**Low**	**High**	**Eco Low**	**Eco High**
18kg / 40lb / 180L	9	30	17	20	13	13
24kg / 55lb / 240L	9	30	17	20	13	13
28kg / 70lb / 280L	9	30	17	20	13	13
36kg / XXlb / 500L	22	60	33	36	26	29
50kg / XXlb / 500L	20	60	32	35	27	30
70kg / XXXlb / 700L	19	60	32	35	26	29

Table 7

Cycle Settings for Washing Machines with Front Soap Dispenser

Cycle Settings				
Display			**Description**	**Default**
Cycle Programming			Edit default cycles and create custom cycles by duplicating and editing existing cycles.	
<Selected Cycle>			Enable/Disable	-
	Enable/Disable		Enable/Disable	-
	Name (custom cycle only)		Edit, Keypad (custom cycle only)	
	SETTINGS			
	Programmable Cycle Time		cycle	Only available when the Display Programmable Cycle Time option is ON
		Enabled / Disabled	Enable/Disable	
		Time	1-65535 minutes	-
	User Temperature Override		Set selectable options for users to change water temperatures.	
		Default Temperature	**SELECT ONE** Cold Warm Hot No Heat 59F [15C] 86F [30C] 104F [40C] 122F [50C] 140F [60C] 194F [90C]	-

Table 8 *continues...*

Cycle Settings				
Display			**Description**	**Default**
	AVAILABLE TEMPERATURES		Cold Warm Hot No Heat 59F [15C] 86F [30C] 104F [40C] 122F [50C] 140F [60C] 194F [90C]	-
	STEPS		Edit existing steps within a cycle and create custom steps by duplicating and editing existing steps.	
	Step Number Step Name Step Active State Step Label		Edit Copy Paste Insert Delete	-
		Type	**SELECT ONE** Wash Cool Down Rinse Soak No Wash Tumble	-
		State	**SELECT ONE** Always Enabled Disabled	-

Table 8 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C] / "User Selected"	
	Water Level	Global Low/Global Medium/Global High/Custom (9-29)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (10-60 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Box A	Enable/Disable, 0-99 seconds	Enabled, 30 seconds
	Box B	Enable/Disable, 0-99 seconds	
	Box C	Enable/Disable, 0-99 seconds	
	Box D	Enable/Disable, 0-99 seconds	
	Box E	Enable/Disable, 0-99 seconds	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	
	Supply 9	Enable/Disable, 0-99 seconds	
	Supply 10	Enable/Disable, 0-99 seconds	

Table 8 *continues...*

Cycle Settings				
Display			**Description**	**Default**
		Supply 11	Enable/Disable, 0-99 seconds	
		Supply 12	Enable/Disable, 0-99 seconds	
		Supply 13	Enable/Disable, 0-99 seconds	
		Supply 14	Enable/Disable, 0-99 seconds	
		Supply 15	Enable/Disable, 0-99 seconds	
		Supply 16	Enable/Disable, 0-99 seconds	
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
		Valve	**SELECT ONE** 1 2 1 and 2	-
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate, Custom (10-60RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom*	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Wash		Set parameters for a wash step.	

Table 8 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C]	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Box A	Enable/Disable, 0-99 seconds	Enabled, 30 seconds
	Box B	Enable/Disable, 0-99 seconds	
	Box C	Enable/Disable, 0-99 seconds	
	Box D	Enable/Disable, 0-99 seconds	
	Box E	Enable/Disable, 0-99 seconds	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	
	Supply 9	Enable/Disable, 0-99 seconds	
	Supply 10	Enable/Disable, 0-99 seconds	

Table 8 *continues...*

Cycle Settings				
Display			**Description**	**Default**
		Supply 11	Enable/Disable, 0-99 seconds	
		Supply 12	Enable/Disable, 0-99 seconds	
		Supply 13	Enable/Disable, 0-99 seconds	
		Supply 14	Enable/Disable, 0-99 seconds	
		Supply 15	Enable/Disable, 0-99 seconds	
		Supply 16	Enable/Disable, 0-99 seconds	
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
		Valve	**SELECT ONE** 1 2 1 and 2	-
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/ Custom (10-60RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom*	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Rinse		Set parameters for a rinse step.	

Table 8 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C]	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Box A	Enable/Disable, 0-99 seconds	Enabled, 30 seconds
	Box B	Enable/Disable, 0-99 seconds	
	Box C	Enable/Disable, 0-99 seconds	
	Box D	Enable/Disable, 0-99 seconds	
	Box E	Enable/Disable, 0-99 seconds	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	
	Supply 9	Enable/Disable, 0-99 seconds	
	Supply 10	Enable/Disable, 0-99 seconds	

Table 8 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	Supply 11	Enable/Disable, 0-99 seconds	
	Supply 12	Enable/Disable, 0-99 seconds	
	Supply 13	Enable/Disable, 0-99 seconds	
	Supply 14	Enable/Disable, 0-99 seconds	
	Supply 15	Enable/Disable, 0-99 seconds	
	Supply 16	Enable/Disable, 0-99 seconds	
	DRAIN	Configure drain settings.	
	Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
	Valve	**SELECT ONE** 1 2 1 and 2	-
	Time	0-15 minutes	
	Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/ Custom (10-60RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom*	
	Rotate Time	1-99 seconds (reversing drain only)	
	Pause Time	1-99 seconds (reversing drain only)	

Table 8 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C]	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Box A	Enable/Disable, 0-99 seconds	Enabled, 30 seconds
	Box B	Enable/Disable, 0-99 seconds	
	Box C	Enable/Disable, 0-99 seconds	
	Box D	Enable/Disable, 0-99 seconds	
	Box E	Enable/Disable, 0-99 seconds	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	
	Supply 9	Enable/Disable, 0-99 seconds	
	Supply 10	Enable/Disable, 0-99 seconds	

Table 8 *continues...*

Cycle Settings				
Display			**Description**	**Default**
		Supply 11	Enable/Disable, 0-99 seconds	
		Supply 12	Enable/Disable, 0-99 seconds	
		Supply 13	Enable/Disable, 0-99 seconds	
		Supply 14	Enable/Disable, 0-99 seconds	
		Supply 15	Enable/Disable, 0-99 seconds	
		Supply 16	Enable/Disable, 0-99 seconds	
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
		Valve	**SELECT ONE** 1 2 1 and 2	-
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agtitate/ Normal Agitate/Custom (10-60RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom*	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Soak		Set parameters for a soak step.	

Table 8 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-22.5 hours	
	Temperature	35-194°F [2-90°C]	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	0.1-99.5 minutes	
	Step End Pause	Enable/Disable	
	INLETS	Set which inlets are used.	
	Inlet 1	Enable/Disable	Disabled
	Inlet 2	Enable/Disable	Enabled
	Inlet 3	Enable/Disable	Enabled
	DETERGENTS	Set which supplies are used.	
	Box A	Enable/Disable, 0-99 seconds	Enabled, 30 seconds
	Box B	Enable/Disable, 0-99 seconds	
	Box C	Enable/Disable, 0-99 seconds	
	Box D	Enable/Disable, 0-99 seconds	
	Box E	Enable/Disable, 0-99 seconds	
	Supply 1	Enable/Disable, 0-99 seconds	
	Supply 2	Enable/Disable, 0-99 seconds	
	Supply 3	Enable/Disable, 0-99 seconds	
	Supply 4	Enable/Disable, 0-99 seconds	
	Supply 5	Enable/Disable, 0-99 seconds	
	Supply 6	Enable/Disable, 0-99 seconds	
	Supply 7	Enable/Disable, 0-99 seconds	
	Supply 8	Enable/Disable, 0-99 seconds	
	Supply 9	Enable/Disable, 0-99 seconds	
	Supply 10	Enable/Disable, 0-99 seconds	

Table 8 *continues...*

Cycle Settings				
Display			**Description**	**Default**
		Supply 11	Enable/Disable, 0-99 seconds	
		Supply 12	Enable/Disable, 0-99 seconds	
		Supply 13	Enable/Disable, 0-99 seconds	
		Supply 14	Enable/Disable, 0-99 seconds	
		Supply 15	Enable/Disable, 0-99 seconds	
		Supply 16	Enable/Disable, 0-99 seconds	
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	-
		Valve	**SELECT ONE** 1 2 1 and 2	-
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/Custom (10-60 RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom*	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Cool Down		Set parameters for a cool down step.	

Table 8 *continues...*

Cycle Settings			
Display		**Description**	**Default**
	PROPERTIES		
	Duration	0-99.5 minutes	
	Temperature	35-194°F [2-90°C]	
	Drain Valve	**SELECT ONE** 1 2 1 and 2	
	Water Level	Global Low/Global Medium/Global High/Custom (1-30)	
	Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
	Rotate Time	1-99 seconds	
	Pause Time	1-99 seconds	
	Step End Pause	Enable/Disable	
	DRAIN	Configure drain settings.	
	Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	
	Valve	**SELECT ONE** 1 2 1 and 2	
	Time	0-15 minutes	
	Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/Custom (10-60 RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom*	
	Rotate Time	1-99 seconds (reversing drain only)	
	Pause Time	1-99 seconds (reversing drain only)	

Table 8 *continues...*

Cycle Settings				
Display			**Description**	**Default**
	No Wash		Set parameters for a no wash step.	
		DRAIN	Configure drain settings.	
		Type	**SELECT ONE** Spin Drain No Drain Static Drain Reversing Drain	
		Valve	**SELECT ONE** 1 2 1 and 2	
		Time	0-15 minutes	
		Speed	Reversing Drain: No Rotation/Low Agitate/ Normal Agitate/Custom (10-60 RPM) Spin: Very Low/ Low/Medium/High/Very High/ Ultra High/Custom*	
		Rotate Time	1-99 seconds (reversing drain only)	
		Pause Time	1-99 seconds (reversing drain only)	
	Tumble		Set parameters for a tumble step.	
		PROPERTIES		
		Duration	0.5-10 minutes	
		Speed	No Rotation/Low Agitate/Normal Agitate/ Custom (0-50 RPM)	
		Rotate Time	1-99 seconds	
		Pause Time	1-99 seconds	
		CYCLE PROGRAMMING		
	Cycles			
	Predefined cycle list			
	Up to 99 cycles			
CYCLE OPTIONS				

Table 8 *continues...*

Cycle Settings		
Display	**Description**	**Default**
Cycle Pause Resume	Enable/Disable	Enable
Display Programmable Cycle Time	Enable/Disable	
GLOBAL WATER LEVELS (refer to *Table 6* for default water levels by machine type)		
Low	9 - 29	
Medium	1 - 30	
High	1 - 30	

Table 8

Default Cycles

Spin speeds depend on machine size. Refer to *Table 9*.

Speed of Machines with Frequency Inverter

Speed of Machines with Frequency Inverter								
Machine Type	Wash Speed			Spin Speed				Low Spin Speed
	Default RPM	Minimum RPM	Maximum RPM	Default RPM	Minimum RPM	Locking RPM	Maximum RPM	Default RPM
Cabinet Freestanding								
6.5 kg / 14 lb / 65 L (G-factor 400)	50	10	60	1120	150	91-149	1165	250
7.5 kg / 20 lb / 80 L (G-factor 400)	50	10	60	1120	150	91-149	1165	250
10.5 kg / 25 lb / 105 L (G-factor 400)	46	10	60	1035	150	91-149	1075	250
13.5 kg / 30 lb / 135 L (G-factor 400)	46	10	60	1035	150	91-149	1075	250
18 kg / 40 lb / 180 L (G-factor 400)	42	10	60	940	150	91-149	980	250
24 kg / 55 lb / 240 L (G-factor 400)	42	10	60	940	150	91-149	980	250
28 kg / 70 lb / 280 L (G-factor 350)	42	10	55	875	150	91-149	915	250
35 kg / 350 L (G-factor 360)	38	10	45	790	75	131-299	839	550
45 kg / 450 L (G-factor 360)	38	10	45	790	75	131-299	839	550
60 kg / 600 L (G-factor 360)	36	10	42	745	75	131-299	788	520
80 kg / 180 lb / 800 L (G-factor 350)	36	10	45	720	75	351-449	750	550
100 kg / 230 lb / 1000 L (G-factor 350)	33	10	45	690	75	351-449	722	550
120 kg / 275 lb / 1200 L (G-factor 350)	32	10	45	660	75	351-449	695	550

Table 9

Speed of Machines with Frequency Inverter								
Machine Type	**Wash Speed**			**Spin Speed**				**Low Spin Speed**
	Default RPM	**Minimum RPM**	**Maximum RPM**	**Default RPM**	**Minimum RPM**	**Locking RPM**	**Maximum RPM**	**Default RPM**
Barrier models								
18 kg / 40 lb / 180 L (G-factor 400)	42	10	55	900	150	91-149	939	370
24 kg / 55 lb / 240 L (G-factor 400)	42	10	55	900	150	91-149	939	370
28 kg / 70 lb / 280 L (G-factor 350)	42	10	55	870	150	91-149	914	370
36 kg / 360 L (G-factor 360)	41	10	50	866	80	160-190	900	550
50 kg / 500 L (G-factor 360)	41	10	50	866	80	100-160	900	550
70 kg / 700 L (G-factor 360)	41	10	50	866	80	100-160	900	520

Table 10

Global water levels depend on machine size. Refer to *Table 7* in *Cycle Settings for Washing Machines with Front Soap Dispenser*.

Wash Programs for Washing Machines with Top Soap Dispenser for PY, UY, SY, NY models

	Wash Program 1: HOT 90° [194°F] INTENS.							
Step		**Wash Information**			**Drain Information**			
1	Prewash	Type	Prewash		Type	Spin		
		Duration	300	Sec	Valve	1		
		Water Level	Normal High		Duration	60	Sec	
		Temperature	86	°F	Speed	LS	RPM	
					Rotate Time	12	Sec	
		Speed	RA	RPM	Pause Time	3	Sec	
		Rotate Time	12	Sec				
		Pause Time	3	Sec				
		Step End Pause	OFF					
		2 Inlets Option	1, 5					
		3 Inlets Option	1, 5, 7					
		Wash Soap Valves	-					
		Wash Drain Valves	-					

Table 11 *continues...*

	Wash Program 1: HOT 90° [194°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
2	Wash	Type	Wash		Type	Drain	
		Duration	600	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	194	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 11 *continues...*

	Wash Program 1: HOT 90° [194°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
4	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					

Table 11 *continues...*

	Wash Program 1: HOT 90° [194°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 11

	Wash Program 2: WARM 60° [140°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	300	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	86	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 5				
		3 Inlets Option	1, 5, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Wash	Type	Wash		Type	Drain	
		Duration	600	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	140	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 12 *continues...*

	Wash Program 2: WARM 60° [140°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 12 *continues...*

	Wash Program 2: WARM 60° [140°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 12

	Wash Program 3: COLOR INTENS.						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	300	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	86	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 5				
		3 Inlets Option	1, 5, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Wash	Type	Wash		Type	Drain	
		Duration	600	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	104	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 13 *continues...*

	Wash Program 3: COLOR INTENS.						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 13 *continues...*

	Wash Program 3: COLOR INTENS.						
Step		**Wash Information**			**Drain Information**		
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 13

	Wash Program 4: BRIGHT INTENS.						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	600	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	86	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 14 *continues...*

	Wash Program 4: BRIGHT INTENS.						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 14 *continues...*

	Wash Program 4: BRIGHT INTENS.						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 14

	Wash Program 5: WOOLENS						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	360	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	59	°F	Speed	0	RPM
					Rotate Time	3	Sec
		Speed	RA	RPM	Pause Time	12	Sec
		Rotate Time	3	Sec			
		Pause Time	12	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5				
		3 Inlets Option	1, 2, 3, 5				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Drain	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	3	Sec
		Speed	RA	RPM	Pause Time	12	Sec
		Rotate Time	3	Sec			
		Pause Time	12	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 15 *continues...*

	Wash Program 5: WOOLENS						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Drain	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	3	Sec
		Speed	RA	RPM	Pause Time	12	Sec
		Rotate Time	3	Sec			
		Pause Time	12	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal High		Duration	150	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	3	Sec
		Speed	RA	RPM	Pause Time	12	Sec
		Rotate Time	3	Sec			
		Pause Time	12	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 15 *continues...*

	Wash Program 5: WOOLENS						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 15

	Wash Program 6: HOT 90° [194°F] WASH						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	1200	Sec	Valve	1	
		Water Level	Normal Low		Duration	30	Sec
		Temperature	194	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	EcoHigh		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 16 *continues...*

	Wash Program 6: HOT 90° [194°F] WASH						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Eco HIgh		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 16 *continues...*

	Wash Program 6: HOT 90° [194°F] WASH							
Step		**Wash Information**			**Drain Information**			
5	Tumble	Type	Tumble		Type	No Drain		
		Duration	30	Sec	Valve	-		
		Water Level	Normal Low		Duration	-	Sec	
		Temperature	35	°F	Speed	-	RPM	
					Rotate Time	-	Sec	
		Speed	RA	RPM	Pause Time	-	Sec	
		Rotate Time	5	Sec				
		Pause Time	5	Sec				
		Step End Pause	OFF					
		2 Inlets Option	-					
		3 Inlets Option	-					
		Wash Soap Valves	-					
		Wash Drain Valves	1					

Table 16

	Wash Program 7: WARM 60° [140°F] WASH						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	1200	Sec	Valve	1	
		Water Level	Normal Low		Duration	30	Sec
		Temperature	140	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 17 *continues...*

	Wash Program 7: WARM 60° [140°F] WASH						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Eco High		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 17 *continues...*

	Wash Program 7: WARM 60° [140°F] WASH						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 17

	Wash Program 8: COLOR WASH						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	1200	Sec	Valve	1	
		Water Level	Normal Low		Duration	30	Sec
		Temperature	104	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 18 *continues...*

	Wash Program 8: COLOR WASH						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Eco High		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 18 *continues...*

	Wash Program 8: COLOR WASH						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 18

	Wash Program 9: BRIGHT WASH						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	1200	Sec	Valve	1	
		Water Level	Normal Low		Duration	30	Sec
		Temperature	86	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 19 *continues...*

	Wash Program 9: BRIGHT WASH						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Eco High		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 19 *continues...*

	Wash Program 9: BRIGHT WASH						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 19

	Wash Program 10: ECO HOT 90° [194°F]						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Spin	
		Duration	840	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	185	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 20 *continues...*

	Wash Program 10: ECO HOT 90° [194°F]						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	540	Sec
		Temperature	35	°F	Speed	MS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 20

	Wash Program 11: ECO WARM 60° [140°F]						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Spin	
		Duration	840	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	131	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 21 *continues...*

	Wash Program 11: ECO WARM 60° [140°F]						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	540	Sec
		Temperature	35	°F	Speed	MS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 21

	Wash Program 12: ECO COLOR						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Spin	
		Duration	840	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	104	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 22 *continues...*

	Wash Program 12: ECO COLOR						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	540	Sec
		Temperature	35	°F	Speed	MS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 22

	Wash Program 13: ECO BRIGHT						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	840	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	86	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	60	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 23 *continues...*

	Wash Program 13: ECO BRIGHT						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	540	Sec
		Temperature	35	°F	Speed	MS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 23

	Wash Program 14: LOW SPIN						
Step		**Wash Information**			**Drain Information**		
1	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal High		Duration	330	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

	Wash Program 15: HIGH SPIN							
Step		**Wash Information**			**Drain Information**			
1	Final Rinse	Type	Final Rinse		Type	Spin		
		Duration	180	Sec	Valve	1		
		Water Level	Normal High		Duration	720	Sec	
		Temperature	35	°F	Speed	MS	RPM	
					Rotate Time	12	Sec	
		Speed	RA	RPM	Pause Time	3	Sec	
		Rotate Time	12	Sec				
		Pause Time	3	Sec				
		Step End Pause	OFF					
		2 Inlets Options	1, 4					
		3 Inlets Options	1, 4, 7					
		Wash Soap Valves	-					
		Wash Drain Valves	-					
2	Tumble	Type	Tumble		Type	No Drain		
		Duration	30	Sec	Valve	-		
		Water Level	Normal Low		Duration	-	Sec	
		Temperature	35	°F	Speed	-	RPM	
					Rotate Time	-	Sec	
		Speed	RA	RPM	Pause Time	-	Sec	
		Rotate Time	5	Sec				
		Pause Time	5	Sec				
		Step End Pause	OFF					
		2 Inlets Option	-					
		3 Inlets Option	-					
		Wash Soap Valves	-					
		Wash Drain Valves	1					

	Wash Program 16: SPORT						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	129	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 24 *continues...*

	Wash Program 16: SPORT						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal Low		Duration	360	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 24 *continues...*

	Wash Program 16: SPORT						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 24

	Wash Program 17: MOPS						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 5				
		3 Inlets Option	1, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Wash	Type	Wash		Type	Spin	
		Duration	600	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	140	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 25 *continues...*

	Wash Program 17: MOPS						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 25 *continues...*

	Wash Program 17: MOPS						
Step		**Wash Information**			**Drain Information**		
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal Low		Duration	360	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 25

	Wash Program 18: HORSE BLANKETS						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	82	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 5				
		3 Inlets Option	1, 5,7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Wash	Type	Wash		Type	Drain	
		Duration	360	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	95	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 26 *continues...*

	Wash Program 18: HORSE BLANKETS						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 26 *continues...*

	Wash Program 18: HORSE BLANKETS						
Step		**Wash Information**			**Drain Information**		
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal Low		Duration	240	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 26

	Wash Program 19: JEANS						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	480	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	125	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 27 *continues...*

	Wash Program 19: JEANS						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal High		Duration	360	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 27

	Wash Program 20: SEPAR.STARCH						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	360	Sec
		Temperature	82	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 5				
		3 Inlets Options	1, 5, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table continues...

	Wash Program 20: SEPAR.STARCH						
Step		**Wash Information**			**Drain Information**		
2	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Wash Programs for Washing Machines with Top Soap Dispenser for IY models

	Wash Program 1: BRIGHT INTENS.						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	600	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	86	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 28 *continues...*

	Wash Program 1: BRIGHT INTENS.						
Step		**Wash Information**			**Drain Information**		
2	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
3	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 28 *continues...*

	Wash Program 1: BRIGHT INTENS.						
Step		**Wash Information**			**Drain Information**		
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 28

	Wash Program 2: COLOR INTENS.						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	300	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	86	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 5				
		3 Inlets Option	1, 5, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Wash	Type	Wash		Type	Drain	
		Duration	600	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	104	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 29 *continues...*

	Wash Program 2: COLOR INTENS.						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 29 *continues...*

	Wash Program 2: COLOR INTENS.						
Step		**Wash Information**			**Drain Information**		
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 29

	Wash Program 3: WARM 60° [140°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	300	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	86	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 5				
		3 Inlets Option	1, 5, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Wash	Type	Wash		Type	Drain	
		Duration	600	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	140	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 30 *continues...*

	Wash Program 3: WARM 60° [140°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 30 *continues...*

	Wash Program 3: WARM 60° [140°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 30

	Wash Program 4: HOT 90° [194°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	300	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	86	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 5				
		3 Inlets Option	1, 5, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Wash	Type	Wash		Type	Drain	
		Duration	600	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	194	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 31 *continues...*

	Wash Program 4: HOT 90° [194°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 31 *continues...*

	Wash Program 4: HOT 90° [194°F] INTENS.						
Step		**Wash Information**			**Drain Information**		
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 31

	Wash Program 5: BRIGHT WASH						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	1200	Sec	Valve	1	
		Water Level	Normal Low		Duration	30	Sec
		Temperature	86	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 32 *continues...*

	Wash Program 5: BRIGHT WASH						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Eco High		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 32 *continues...*

	Wash Program 5: BRIGHT WASH						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 32

	Wash Program 6: COLOR WASH						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	1200	Sec	Valve	1	
		Water Level	Normal Low		Duration	30	Sec
		Temperature	104	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 33 *continues...*

	Wash Program 6: COLOR WASH						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Eco High		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 33 *continues...*

	Wash Program 6: COLOR WASH						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 33

	Wash Program 7: WARM 60° [140°F] WASH						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	1200	Sec	Valve	1	
		Water Level	Normal Low		Duration	30	Sec
		Temperature	140	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 34 *continues...*

	Wash Program 7: WARM 60° [140°F] WASH						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Eco High		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 34 *continues...*

	Wash Program 7: WARM 60° [140°F] WASH						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 34

	Wash Program 8: WOOLENS						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	360	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	59	°F	Speed	0	RPM
					Rotate Time	3	Sec
		Speed	RA	RPM	Pause Time	12	Sec
		Rotate Time	3	Sec			
		Pause Time	12	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5				
		3 Inlets Option	1, 2, 3, 5				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Drain	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	3	Sec
		Speed	RA	RPM	Pause Time	12	Sec
		Rotate Time	3	Sec			
		Pause Time	12	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 35 *continues...*

	Wash Program 8: WOOLENS						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Drain	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	30	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	3	Sec
		Speed	RA	RPM	Pause Time	12	Sec
		Rotate Time	3	Sec			
		Pause Time	12	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal High		Duration	150	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	3	Sec
		Speed	RA	RPM	Pause Time	12	Sec
		Rotate Time	3	Sec			
		Pause Time	12	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 35 *continues...*

	Wash Program 8: WOOLENS						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 35

	Wash Program 9: LOW SPIN						
Step		**Wash Information**			**Drain Information**		
1	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal High		Duration	330	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

	Wash Program 10: HIGH SPIN						
Step		**Wash Information**			**Drain Information**		
1	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal High		Duration	720	Sec
		Temperature	35	°F	Speed	MS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

	Wash Program 11: ECO BRIGHT						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	840	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	86	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Drain	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	60	Sec
		Temperature	35	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 36 *continues...*

	Wash Program 11: ECO BRIGHT						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	540	Sec
		Temperature	35	°F	Speed	MS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 36

	Wash Program 12: ECO COLOR						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Spin	
		Duration	840	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	104	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 37 *continues...*

	Wash Program 12: ECO COLOR						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	540	Sec
		Temperature	35	°F	Speed	MS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 37

	Wash Program 13: ECO WARM 60° [140°F]						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Spin	
		Duration	840	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	131	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 38 *continues...*

	Wash Program 13: ECO WARM 60° [140°F]						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	540	Sec
		Temperature	35	°F	Speed	MS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 38

	Wash Program 14: ECO HOT 90° [194°F]						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Spin	
		Duration	840	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	185	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 39 *continues...*

	Wash Program 14: ECO HOT 90° [194°F]						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco Low		Duration	540	Sec
		Temperature	35	°F	Speed	MS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 39

	Wash Program 15: HOT 90° [194°F] WASH						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	1200	Sec	Valve	1	
		Water Level	Normal Low		Duration	30	Sec
		Temperature	194	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	EcoHigh		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 40 *continues...*

	Wash Program 15: HOT 90° [194°F] WASH						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Eco High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Eco HIgh		Duration	540	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 40 *continues...*

	Wash Program 15: HOT 90° [194°F] WASH						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 40

	Wash Program 16: SPORT						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Spin	
		Duration	360	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	129	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 41 *continues...*

	Wash Program 16: SPORT						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal Low		Duration	360	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 41 *continues...*

	Wash Program 16: SPORT						
Step		**Wash Information**			**Drain Information**		
5	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 41

	Wash Program 17: MOPS						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 5				
		3 Inlets Option	1, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Wash	Type	Wash		Type	Spin	
		Duration	600	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	140	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 42 *continues...*

	Wash Program 17: MOPS						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 42 *continues...*

	Wash Program 17: MOPS						
Step		**Wash Information**			**Drain Information**		
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal Low		Duration	360	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 42

	Wash Program 18: HORSE BLANKETS						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	82	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 5				
		3 Inlets Option	1, 5,7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Wash	Type	Wash		Type	Drain	
		Duration	360	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	95	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 43 *continues...*

	Wash Program 18: HORSE BLANKETS						
Step		**Wash Information**			**Drain Information**		
3	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Rinse	Type	Rinse		Type	Spin	
		Duration	120	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 2				
		3 Inlets Options	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 43 *continues...*

	Wash Program 18: HORSE BLANKETS						
Step		**Wash Information**			**Drain Information**		
5	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal Low		Duration	240	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 4				
		3 Inlets Option	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves					
6	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
		Speed	RA	RPM			
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 43

	Wash Program 19: JEANS						
Step		**Wash Information**			**Drain Information**		
1	Wash	Type	Wash		Type	Drain	
		Duration	480	Sec	Valve	1	
		Water Level	Normal Low		Duration	60	Sec
		Temperature	125	°F	Speed	0	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2, 3, 5, 6, 8				
		3 Inlets Option	1, 2, 3, 5, 6, 8				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
2	Rinse	Type	Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal High		Duration	60	Sec
		Temperature	35	°F	Speed	LS	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Option	1, 2				
		3 Inlets Option	1, 2, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table 44 *continues...*

	Wash Program 19: JEANS						
Step		**Wash Information**			**Drain Information**		
3	Final Rinse	Type	Final Rinse		Type	Spin	
		Duration	180	Sec	Valve	1	
		Water Level	Normal High		Duration	360	Sec
		Temperature	35	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 4				
		3 Inlets Options	1, 4, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				
4	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Table 44

	Wash Program 20: SEPAR.STARCH						
Step		**Wash Information**			**Drain Information**		
1	Prewash	Type	Prewash		Type	Spin	
		Duration	240	Sec	Valve	1	
		Water Level	Normal Low		Duration	360	Sec
		Temperature	82	°F	Speed	UH	RPM
					Rotate Time	12	Sec
		Speed	RA	RPM	Pause Time	3	Sec
		Rotate Time	12	Sec			
		Pause Time	3	Sec			
		Step End Pause	OFF				
		2 Inlets Options	1, 5				
		3 Inlets Options	1, 5, 7				
		Wash Soap Valves	-				
		Wash Drain Valves	-				

Table continues...

	Wash Program 20: SEPAR.STARCH						
Step		**Wash Information**			**Drain Information**		
2	Tumble	Type	Tumble		Type	No Drain	
		Duration	30	Sec	Valve	-	
		Water Level	Normal Low		Duration	-	Sec
		Temperature	35	°F	Speed	-	RPM
					Rotate Time	-	Sec
		Speed	RA	RPM	Pause Time	-	Sec
		Rotate Time	5	Sec			
		Pause Time	5	Sec			
		Step End Pause	OFF				
		2 Inlets Option	-				
		3 Inlets Option	-				
		Wash Soap Valves	-				
		Wash Drain Valves	1				

Wash Programs for Washing Machines with Front Soap Dispenser for PY, UY, SY, NY models

The Inlet value in brackets is inlet value for 2-water inlet washing machine.

HOT 90° [194°F] INTENS.

Wash Program 1: HOT 90° [194°F] INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2-3	86°F [30°C]	NL	5 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 2	Wash	2-3	194°F [90°C]	NL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 3	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-

Table 45 *continues...*

Wash Program 1: HOT 90° [194°F] INTENS.							
	Sequence	Inlet	Tempera-ture	Level	Time	R.P.M (x)	Soap Sup-ply
Step 4	Rinse 2	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 45

WARM 60° [140°F] INTENS.

Wash Program 2: WARM 60° [140°F] INTENS.							
	Sequence	Inlet	Tempera-ture	Level	Time	R.P.M (x)	Soap Sup-ply
Step 1	Wash	2-3	86°F [30°C]	NL	5 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 2	Wash	2-3	140°F [60°C]	NL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	-
Step 3	Rinse 1	2	-	NH	2 minute	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 4	Rinse 2	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-

Table 46 *continues...*

Wash Program 2: WARM 60° [140°F] INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 46

COLOR INTENS.

Wash Program 3: COLOR INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2-3	86°F [30°C]	NL	5 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 2	Wash	2-3	104°F [40°C]	NL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 3	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 4	Rinse 2	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 47

BRIGHT INTENS.

Wash Program 4: BRIGHT INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2-3	86°F [30°C]	NL	8 minutes	W (normal)	B=30 seconds
	Drain		-	-	30 seconds	D	
Step 2	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Drain	-	-	-	30 seconds	D	-
Step 3	Rinse 2	2	-	NH	2 minutes	W (normal)	-
	Drain	-	-	-	30 seconds	D	-
Step 4	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	D=30 seconds
	Spin		-	-	4 minute	H	-
	Slowdown		-	-	N/A	-	-
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 48

WOOLENS

Wash Program 5: WOOLENS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2	59°F [15°C]	NH	6 minutes	W (gentle)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 2	Rinse 1	2	-	NH	2 minutes	W (gentle)	-
	Drain	-	-	-	30 seconds	D	-
Step 3	Rinse 2	2	-	NH	2 minutes	W (gentle)	-
	Drain		-	-	30 seconds	D	-

Table 49 *continues...*

Wash Program 5: WOOLENS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 4	Rinse 3	1(2)	-	NH	3 minutes	W (gentle)	D=30 seconds
	Spin	-	-	-	2.5 minutes	L	-
	Slowdown		-	-	N/A	-	-
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (gentle)	-

Table 49

HOT 90° [194°F] WASH

Wash Program 6: HOT 90° [194°F] WASH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	194°F [90°C]	EL	25 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 2	Rinse 1	2	-	EH	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	4 minutes	W (normal)	-
	Drain		-	-	1 minute	D	-
Step 4	Rinse 3	1(2)	-	EH	6 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown		-	-	N/A	-	-
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 50

WARM 60° [140°F] WASH

Wash Program 7: WARM 60° [140°F] WASH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	140°F [60°C]	EL	20 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	-
Step 2	Rinse 1	2	-	EH	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	4 minutes	W (normal)	-
	Drain		-	-	1 minute	D	-
Step 4	Rinse 3	1(2)	-	EH	6 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown		-	-	N/A	-	-
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 51

COLOR WASH

Wash Program 8: COLOR WASH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	109°F [43°C]	EL	20 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	-
Step 2	Rinse 1	2	-	EH	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	4 minutes	W (normal)	-
	Drain		-	-	1 minute	D	-

Table 52 *continues...*

Wash Program 8: COLOR WASH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 4	Rinse 3	1(2)	-	EH	6 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown		-	-	N/A	-	-
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 52

BRIGHT WASH

Wash Program 9: BRIGHT WASH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	93°F [34°C]	EL	20 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 2	Rinse 1	2	-	EH	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 4	Rinse 3	1(2)	-	EH	6 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	4 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 53

ECO HOT 90° [194°F]

Wash Program 10: ECO HOT 90° [194°F]							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	194°F [90°C]	EL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	
Step 2	Rinse 1	2	-	EH	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	1(2)	-	EH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5seconds)	-

Table 54

ECO WARM 60° [140°F]

Wash Program 11: ECO WARM 60° [140°F]							
	Sequence	**Inlet**	**Temp.**	**Level**	**Time**	**R.P.M (x)**	**Soap sup-ply**
No Prewash							
Step 1	Wash	2 - 3	140°F [60°C]	EL	10 minutes	W (normal)	B=30 seconds
	Spin	-	-	-	1 minute	L	
Step 2	Rinse 1	2	-	EH	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	1(2)	-	EH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-

Table 55 *continues...*

Wash Program 11: ECO WARM 60° [140°F]							
	Sequence	**Inlet**	**Temp.**	**Level**	**Time**	**R.P.M (x)**	**Soap sup-ply**
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 55

ECO COLOR

Wash Program 12: ECO COLOR							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	104°F [40°C]	EL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	
Step 2	Rinse 1	2	-	EH	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	1(2)	-	EH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 56

ECO BRIGHT

Wash Program 13: ECO BRIGHT							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	86°F [30°C]	EL	8 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	
Step 2	Rinse 1	2	-	EH	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	1(2)	-	EH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	4 minute	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 57

LOW SPIN

Wash Program 14: LOW SPIN							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Rinse	1(2)	-	NH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	L	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (normal)	-

Table 58

HIGH SPIN

Wash Program 15: HIGH SPIN							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Rinse	1(2)	-	NH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (normal)	-

Table 59

SPORT

Wash Program 16: SPORT							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	129°F [54°C]	NL	6 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	
Step 2	Rinse 1	2	-	NL	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 4	Rinse 3	1(2)	-	NL	2 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	6 minute	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 60

MOPS

Wash Program 17: MOPS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2	33°F [1°C]	NH	2 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	
Step 2	Wash	2 - 3	140°F [60°C]	NL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 4	Rinse 2	1(2)	-	NH	2 minutes	W (normal)	C=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	-
	Spin	-	-	-	6 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 61

HORSE BLANKETS

Wash Program 18: HORSE BLANKETS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2 -3	82°F [28°C]	NH	4 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	
Step 2	Wash	2 - 3	95°F [35°C]	NH	6 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	-
Step 3	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-

Table 62 *continues...*

Wash Program 18: HORSE BLANKETS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 4	Rinse 2	2	-	NH	2 minutes	W (normal)	C=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	-
	Spin	-	-	-	4 minutes	L	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 62

JEANS

Wash Program 19: JEANS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	125°F [52°C]	NL	8 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	-
Step 2	Rinse 1	2	-	NH	3 minutes	W (normal)	C=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 3	Rinse 2	1(2)	-	NH	3 minutes	W (normal)	-
	Spin	-	-	-	6 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 63

SEPAR. STARCH

Wash Program 20: SEPAR. STARCH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2 - 3	82°F [28°C]	NL	4 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	6 minutes	H	
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 64

Wash Programs for Washing Machines with Front Soap Dispenser for IY models

The Inlet value in brackets is inlet value for 2-water inlet washing machine.

BRIGHT INTENS.

Wash Program 1: BRIGHT INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2-3	86°F [30°C]	NL	8 minutes	W (normal)	B=30 seconds
	Drain		-	-	30 seconds	D	
Step 2	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Drain	-	-	-	30 seconds	D	-
Step 3	Rinse 2	2	-	NH	2 minutes	W (normal)	-
	Drain	-	-	-	30 seconds	D	-
Step 4	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	D=30 seconds
	Spin		-	-	4 minute	H	-
	Slowdown		-	-	N/A	-	-

Table 65 *continues...*

Wash Program 1: BRIGHT INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 65

COLOR INTENS.

Wash Program 2: COLOR INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2-3	86°F [30°C]	NL	5 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 2	Wash	2-3	104°F [40°C]	NL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 3	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 4	Rinse 2	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 66

WARM 60° [140°F] INTENS.

Wash Program 3: WARM 60° [140°F] INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2-3	86°F [30°C]	NL	5 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 2	Wash	2-3	140°F [60°C]	NL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	-
Step 3	Rinse 1	2	-	NH	2 minute	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 4	Rinse 2	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 67

HOT 90° [194°F] INTENS.

Wash Program 4: HOT 90° [194°F] INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2-3	86°F [30°C]	NL	5 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 2	Wash	2-3	194°F [90°C]	NL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 3	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-

Table 68 *continues...*

Wash Program 4: HOT 90° [194°F] INTENS.							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 4	Rinse 2	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 68

BRIGHT WASH

Wash Program 5: BRIGHT WASH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	93°F [34°C]	EL	20 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 2	Rinse 1	2	-	EH	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 4	Rinse 3	1(2)	-	EH	6 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	4 minutes	H	-
	Slowdown	-	-	-	N/A	-	-

Table 69 *continues...*

Wash Program 5: BRIGHT WASH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 69

COLOR WASH

Wash Program 6: COLOR WASH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	109°F [43°C]	EL	20 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	-
Step 2	Rinse 1	2	-	EH	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	4 minutes	W (normal)	-
	Drain		-	-	1 minute	D	-
Step 4	Rinse 3	1(2)	-	EH	6 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown		-	-	N/A	-	-
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 70

WARM 60° [140°F] WASH

Wash Program 7: WARM 60° [140°F] WASH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	140°F [60°C]	EL	20 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	-
Step 2	Rinse 1	2	-	EH	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	4 minutes	W (normal)	-
	Drain		-	-	1 minute	D	-
Step 4	Rinse 3	1(2)	-	EH	6 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown		-	-	N/A	-	-
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 71

WOOLENS

Wash Program 8: WOOLENS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2	59°F [15°C]	NH	6 minutes	W (gentle)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 2	Rinse 1	2	-	NH	2 minutes	W (gentle)	-
	Drain	-	-	-	30 seconds	D	-
Step 3	Rinse 2	2	-	NH	2 minutes	W (gentle)	-
	Drain		-	-	30 seconds	D	-

Table 72 *continues...*

Wash Program 8: WOOLENS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 4	Rinse 3	1(2)	-	NH	3 minutes	W (gentle)	D=30 seconds
	Spin	-	-	-	2.5 minutes	L	-
	Slowdown		-	-	N/A	-	-
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (gentle)	-

Table 72

LOW SPIN

Wash Program 9: LOW SPIN							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Rinse	1(2)	-	NH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	L	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (normal)	-

Table 73

HIGH SPIN

Wash Program 10: HIGH SPIN							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Rinse	1(2)	-	NH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (normal)	-

Table 74

ECO BRIGHT

Wash Program 11: ECO BRIGHT							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	86°F [30°C]	EL	8 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	
Step 2	Rinse 1	2	-	EH	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	1(2)	-	EH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	4 minute	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 75

ECO COLOR

Wash Program 12: ECO COLOR							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	104°F [40°C]	EL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	
Step 2	Rinse 1	2	-	EH	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	1(2)	-	EH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 76

ECO WARM 60° [140°F]

Wash Program 13: ECO WARM 60° [140°F]							
	Sequence	**Inlet**	**Temp.**	**Level**	**Time**	**R.P.M (x)**	**Soap sup-ply**
No Prewash							
Step 1	Wash	2 - 3	140°F [60°C]	EL	10 minutes	W (normal)	B=30 seconds
	Spin	-	-	-	1 minute	L	
Step 2	Rinse 1	2	-	EH	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	1(2)	-	EH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-

Table 77 *continues...*

Wash Program 13: ECO WARM 60° [140°F]							
	Sequence	**Inlet**	**Temp.**	**Level**	**Time**	**R.P.M (x)**	**Soap sup-ply**
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 77

ECO HOT 90° [194°F]

Wash Program 14: ECO HOT 90° [194°F]							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	194°F [90°C]	EL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	
Step 2	Rinse 1	2	-	EH	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	1(2)	-	EH	3 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5seconds)	-

Table 78

HOT 90° [194°F] WASH

Wash Program 15: HOT 90° [194°F] WASH							
	Sequence	Inlet	Tempera-ture	Level	Time	R.P.M (x)	Soap Sup-ply
No Prewash							
Step 1	Wash	2 - 3	194°F [90°C]	EL	25 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	
Step 2	Rinse 1	2	-	EH	4 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	4 minutes	W (normal)	-
	Drain		-	-	1 minute	D	-
Step 4	Rinse 3	1(2)	-	EH	6 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	5.5 minutes	H	-
	Slowdown		-	-	N/A	-	-
	Tumble		-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 79

SPORT

Wash Program 16: SPORT							
	Sequence	Inlet	Tempera-ture	Level	Time	R.P.M (x)	Soap Sup-ply
No Prewash							
Step 1	Wash	2 - 3	129°F [54°C]	NL	6 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	
Step 2	Rinse 1	2	-	NL	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 2	2	-	NL	2 minutes	W (normal)	-
	Drain	-	-	-	1 minute	D	-

Table 80 *continues...*

Wash Program 16: SPORT							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 4	Rinse 3	1(2)	-	NL	2 minutes	W (normal)	D=30 seconds
	Spin	-	-	-	6 minute	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 80

MOPS

Wash Program 17: MOPS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2	33°F [1°C]	NH	2 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	
Step 2	Wash	2 - 3	140°F [60°C]	NL	10 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	-
Step 3	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 4	Rinse 2	1(2)	-	NH	2 minutes	W (normal)	C=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	-
	Spin	-	-	-	6 minutes	H	-
	Slowdown	-	-	-	N/A	-	-

Table 81 *continues...*

Wash Program 17: MOPS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 81

HORSE BLANKETS

Wash Program 18: HORSE BLANKETS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2 -3	82°F [28°C]	NH	4 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	1 minute	L	
Step 2	Wash	2 - 3	95°F [35°C]	NH	6 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	30 seconds	D	-
Step 3	Rinse 1	2	-	NH	2 minutes	W (normal)	-
	Spin	-	-	-	1 minute	L	-
Step 4	Rinse 2	2	-	NH	2 minutes	W (normal)	C=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 5	Rinse 3	1(2)	-	NL	3 minutes	W (normal)	-
	Spin	-	-	-	4 minutes	L	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 82

JEANS

Wash Program 19: JEANS							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
No Prewash							
Step 1	Wash	2 - 3	125°F [52°C]	NL	8 minutes	W (normal)	B=30 seconds
	Drain	-	-	-	1 minute	D	-
Step 2	Rinse 1	2	-	NH	3 minutes	W (normal)	C=30 seconds
	Spin	-	-	-	1 minute	L	-
Step 3	Rinse 2	1(2)	-	NH	3 minutes	W (normal)	-
	Spin	-	-	-	6 minutes	H	-
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 83

SEPAR. STARCH

Wash Program 20: SEPAR. STARCH							
	Sequence	**Inlet**	**Tempera-ture**	**Level**	**Time**	**R.P.M (x)**	**Soap Sup-ply**
Step 1	Wash	2 - 3	82°F [28°C]	NL	4 minutes	W (normal)	A=30 seconds
	Spin	-	-	-	6 minutes	H	
	Slowdown	-	-	-	N/A	-	-
	Tumble	-	-	-	30 seconds (Models with-out pump drain) 5 minutes (Models with pump drain)	W (5 seconds / 5 seconds)	-

Table 84

Troubleshooting

Error Description

Number	Failure Message	Failure	Action	Fault Occurence
E2	Drain failure	Drain failure	Full stop + tumble	Draining sequence
E3	Safety Switch, Low RPM	Safety switch activated	Full stop + tumble	Whole cycle, revolutions under the distribution revolutions level.
E4	Safety Switch, Distribution	Safety switch activated during the transition from distribution	Skip + continue	Spin
E5	Safety Switch, Spin	Safety switch: high spin	Full stop + safety time	>500 or 750 RM
E6	Door Not Closed	Door switch failure	Full stop + safety time	Whole cycle
E7	Door Not Locked	Door lock failure	Full stop + safety time	Whole cycle
E8	Locking Failed	Door close check at start failure	Error message displayed: Don't start	At start up
E9	Unlocking Failed	Door lock switch closed failure	Error message displayed: Don't start	End cycle
E10	Temperature Not Reached	Target temperature not reached	Full stop + tumble	Wash step
E11	No Fill	Fill failure	Full stop + request for continue	While filling
E12	OverFill	Overfill failure	Full stop + tumble	While filling
E13	Heating Failure	Heating failure	Full stop + tumble	While heating
E14	Max. Heating Time Exceeded	Heating time failure	Full stop + request for continue	While heating
E15	Too Hot	Too Hot	Full stop + tumble	While heating
E16	Coin 1	Coin meter failure	N/A	Before start up
E17	Coin 2	Coin meter failure	N/A	Before start up
E21	OverFlow	Overflow failure	Full stop + tumble	Wash step
E24	Level Sens	Defective level sensor	At power up: error displayed, cycle start not allowed Running cycle: full stop + tumble	At power up Running cycle

Table continues...

Number	Failure Message	Failure	Action	Fault Occurence
E25	Temp Sensor	Defective temperature sensor	At power up: error displayed, cycle start not allowed Running cycle: full stop + tumble	At power up Running cycle
E26	Mitsub. Code	Undefined frequency inverter error code	Full stop + tumble	Whole cycle
E27	Inverter Communication Error	Communication fault inverter	Full stop + safety time	Whole cycle
E28	THT time	THT time out / E.OL	Full stop + safety time	At spin sequence
E29	OV3 time/OP time	OV3 time out / E. OP	Full stop + safety time	At spin sequence
E31	Loading Invetert Parameters Failed	Initialization fault inverter	Don't start	At initialization
E32	Verifying Invetert Parametrs Failed	Verification fault inverter	Don't start	At loading parameters
E36	Imbalance	Safety switch	Reduction of spinning sequence revolutions. For information only	Spinning sequence
E39	Out of Soap	The soap supplies are running out of soap	For information only	Wash step
E41	Service Due	Service Due Warning	For information only. Open door to reset.	End cycle
E45	Speed Sensor	The drum rotation sensor is not working	Full stop + tumble	Before spin sequence
E54	Leak Detection (Fill)	Leak of water from inlet valves to drum during wash cycle.	Display error message after the end of wash cycle when door is opened or after "unload mode" on the barrier machines.	Running cycle
E55	Rise Check	Water level rise check fails. Little to no increase in drum water level	Full stop + safety time	Whole cycle
E60	Inner Door Not Closed	Error is generated if during wash cycle door check system detects that drum door is not correctly locked.	Full stop	During locking process
E61	Inner door lock calibration			During Inner Door Lock Calibration process
E63	Mits Safety	Inverter safety output	Full stop + tumble	Whole cycle

Table continues...

Number	Failure Message	Failure	Action	Fault Occurence
E64	Soap Door Not Closed	The soap boxes door is not closed during wash cycle.	Stop running cycle. Display error message.	Running cycle
E65	Temperature Not Maintained	The step target temperature was not continuously maintained in Wash or in Prewash cycle steps.	Display error message.	On the end of wash cycle.
E66	Leak Detection (Drain)	Leak of water from drum during wash cycle.	Display error message after the end of wash cycle when door is opened or after "unload mode" on the barrier machines.	Running cycle
E67	Slow Drain	The drain time is greater than the amount specified for the certain machine size and type.	Display error message after the end of wash cycle when door is opened or after "unload mode" on the barrier machines.	Running cycle
E68	Tilt Switches Error	Machine not in good tilting position.		Anytime except cycle running.
E77	Heat Blocking Timeout	Heating on Hold signal failure	Full stop + tumble	Wash step
E80	Soap Timeout	On Hold signal failure soap dispensing system	Full stop + tumble	Whole cycle
E90	IO Board Communication Failure		Out of Order	Anytime
E92	IO Board Not Responding		Out of Order	Anytime
E93	Drum is Rotating	Drum not stopped rotating	Generate alarm	Power up End of cycle
E94	IO Board Version Conflict		Out of Order	Anytime
E95	Safety Inputs Failure		Out of Order	Anytime
E96	Remote Control		Generate alarm	Anytime during wash cycle
E97	Drum is Not Locked in Position	Not secured inner drum after power failure	Generate alarm	Power up, End of cycle
E98	Safety Switch		Out of Order	At the end of cycle
E100	Weighing Communication Error	CPU control lost communication with weighing device	Display error message. Machine in out of order	Anytime

Table continues...

Number	Failure Message	Failure	Action	Fault Occurence
E101	Weight Too Low	The measured weight of machine is too low to calibrated machine weight.	Display error message.	Anytime, except cycle running.
E102	Weight Too High	The measured weight of machine is too High to calibrated machine weight.	Display error message.	Anytime, except cycle running.
E103	Weighing Sensors Unbalance	The measured weight of machine is out of balance. One or more of 4 weight units are overloaded or underloaded.	Display error message.	Any time.
E104	Weighing Dynamic Unbalance	During running of spin wash cycle step. At least one of measuring units measured weight is higher than ¾ of measuring unit capacity.	Log error, not display error message.	Cycle running spin cycle step.
E130	SDL2 failure	SDL2 switch is opened after blocking process finished.	Full stop, Err displayed, Out of Order	During drum positionng action
E134	Drum Position Reading Failure	Machine is not able read signal from neither switch SD5 nor SD6 as closed - within time frame 8s since beginning of signal reading during drum secure process	Full stop, Err displayed, Out of Order	During drum positioning action
E135	Drum position Locking Failed	at the end of procedure there is read signal of switch SDL2 as closed	Full stop, Err displayed, Out of Order	During drum positioning action
E137	SDL3 failure	SDL3 switchis closed after blocking process finished.	Full stop, Err displayed, Out of Order	During drum positioning action
E140	Drum Position Lock Reset Failed	during reset procedure machine is reading signal from switch SDL2 as closed and SDL3 as open within time frame 5s since beginning of signal reading	Full stop, Err displayed, out of Order	During drum positioning action

Table continues...

Number	Failure Message	Failure	Action	Fault Occurence
E141	Drum Position Unlocking Failed	at the end of RESET procedure machine is reading signal SDL2 as open and SDL3 as open within time frame 5s since beginning of signal reading	Full stop, Err displayed, Out of Order	During drum positioning action
E146	Door Not Closed Unloading Side	Fail of switch detecting closed door on unloading side	Full stop, Err displayed, Out of Order	Whole cycle
E147	Door Not Locked, Unloading Side	Fail of switch detecting locked door on unloading side	Full stop, Err displayed, Out of Order	Whole cycle
E148	Locking Failed, Unloading Side	Fail to lock on Unloading side	Full stop, Err displayed, Out of Order	Whole cycle
E149	Fail to unlock, Unloading side	Fail to unlock on loading side	Full stop, Err displayed, Out of Order	Whole cycle
E156	Door Not Closed, Loading Side	Fail of switch detecting closed door on loading side	Full stop, Err displayed, Out of Order	Whole cycle
E157	Door Not Closed, Loading Side	Fail of switch detecting closed door on loading side	Full stop, Err displayed, Out of Order	Whole cycle
E158	Locking Failed, Loading Side	Fail to lock on loading side	Full stop, Err displayed, Out of Order	Whole cycle
E159	Fail to unlock, Loading Side	Fail to unlock on loading side	Full stop, Err displayed, Out of Order	Whole cycle
E300-E353	Mits Error	Specific Mitsubishi inverter alarm	Full stop + safety time	Whole cycle
E500-E549*	Memory Error	Memory Error	Full stop + safety time	Any time
E550-E599*	USB Errors	Errors in communication with USB flash disk	For information only. Only in Advanced Menu data	Export/Import
E600-E699*	Softw. Err	Software Error	Full stop + safety time	Any time
E700	Too Hot to Open Door Error	Water temperature >75°C at end of cycle	For information only.	End of Cycle
E701	Water in the Drum Error	Water level exceeds the allowed level at machine startup or end of cycle	Full stop + safety time	End of Cycle
E702	Temperature Out of Bounds at End of Cycle	Water temperature ≥ 109°C or ≤ 0°C	Error displayed	End of Cycle

Table continues...

Number	Failure Message	Failure	Action	Fault Occurence
E703-E729, E744	Database Initialization Errors	Database Errors	Can cause firmware downgrade	Firmware Initialization
E721-E743*	Database Run Errors	Database Errors	Full stop + tumble	Any time
E747, E748, E800-E804*	Initialization Errors	Initialization Errors	Can cause firmware downgrade	Firmware Initialization
*If these errors occur, contact After Sales for information. Further information is not provided in this manual.				

Errors Message description

E2: Drain failure

This error occurs when the electronic timer detects that the water is not drained after 150 seconds (normal drain) or 300 seconds (pump drain) in a drain or spin sequence. The failure message is displayed at the end of the cycle.

Diagnosing Failure 2	
1. Check the drain tube of the washing machine	If the drain tube is blocked: repair the drain tube
2. Check the drain valve	If the drain valve is defective: replace the drain valve
3. Check the wiring: When the drain valve is switched Off, the drain valve should be open. (normal open)	If the wiring is damaged: repair the wiring

Table 85

E3: Safety Switch, Low RPM

This error occurs when the safety switch gets activated at revolutions lower than the distribution level. I.e. in the wash, rinse, soak sequence etc., but not during the extract sequence. The error is generated when the safety switch is switched more than 10 times (for a short period of time) or for a period over 20 seconds.

Diagnosing Failure 3	
1. Check if the safety switch is broken. (Make sure shipping braces are removed)	If the safety switch is broken: replace the safety switch
2. Check the position of the safety switch.	If the safety switch is not correctly mounted: install the safety switch properly.

Table 86 *continues...*

Diagnosing Failure 3	
3. Check the wiring, the contact of the safety switch is normally closed. Check connector pins for loose connections	If there is no continuity: repair the wiring.
4. Check whether the washer is not overloaded by the filled-in linen	Do not exceed the specified machine capacity.
5. Check the springs.	If damaged, replace them.

Table 86

E4: Safety Switch, Distribution

This error occurs when the linen is incorrectly distributed in the machine when it switches from distribution revolutions into high revolutions or during the spinning sequence at low revolutions. If the safety switch is activated, the machine first attempts five times to redistribute the linen in the drum and carry out the spinning sequence. If the safety switch gets activated 5 times, the spinning sequence will be skipped. This function will protect the machine against overload and assures the normal lifetime of the washing machine.

Diagnosing Failure 4	
1. Check the position of the safety switch.	If the safety switch is not correctly mounted, install the out of balance switch properly.
2. If this failure occurs often.	Use a fully loaded drum. A completely filled drum produces less unbalance than a drum that is only filled for 1/3.
3. Check the wiring if there is no bad connection. The safety switch is a NC contact.	If there is a bad connection: repair the wiring.
4. Check whether the washer is not overloaded by the filled-in linen.	Do not exceed the specified machine capacity.
5. Check the springs.	Check the springs.

Table 87

E5: Safety Switch, Spin

This error occurs when the safety switch is activated during high spin. This failure indicates that there is probably a mechanical defect.

Diagnosing Failure 5	
1. Check the position of the safety switch.	If the safety switch is not correctly mounted, install the out of balance switch properly
2. Check the springs and the other mechanical parts that fix the drum.	If you see a broken mechanical part: replace the broken part
3. Check the wiring if there is a bad connection.	If there is a bad connection: repair the wiring

Table 88 *continues...*

Diagnosing Failure 5	
4. Check that the washing machine is installed correctly and stable.	Adjust the supports at the bottom of the washing machine.

Table 88

E6: Door Not Closed

While a wash cycle is running the internal door lock systems are scanned constantly. This error will occur if the wash computer detects that the door-closed switch is not closed during the wash cycle. If this occurs, the machine will immediately stop all functions. The door will stay locked.

Diagnosing Failure 6	
1. Check the good functioning of the I/O board input 20 - "closed switch" in the inputs/ outputs menu.	If the input is not functional replace the I/O board.
2. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring
3. Check the well functioning of the door close switch. The switch is a normal open contact.	If the switch is broken or malfunctions replace the door switch.

Table 89

E7: Door Not Locked

While a wash cycle is running the internal door lock systems are scanned constantly. This error will occur if the wash computer detects that any of door-locked switches are not closed during the wash cycle. If this occurs, the machine will immediately stop all functions. The door will stay locked.

Diagnosing Failure 7	
1. Check the good functioning of the I/O board input 19 - "locked switch" in the inputs/ outputs menu.	If the input is not functional replace I/O board.
2. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring.
3. Check the well-functioning of the door locked switch. The switch is a normal open contact.	If the switch is broken or malfunctions replace the switch.

Table 90

E8: Locking Failed

The washing machine will not start a cycle when the door is not locked correctly after pressing the Start button. Failure message will be generated each time the door locking sequence fails.

Diagnosing Failure 8	
1. Check the good functioning of the door lock coil.	If the coil is malfunctioning, replace the coil.
2. Check the good functioning of the I/O board input 19 - "locked switch unload side" in the inputs/outputs menu.	If the input is not functional, replace I/O board.
3. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring.
4. Check the well-functioning of the door locked switch. The switch is a normal open contact.	If the switch is broken or malfunctions, replace the switch.

Table 91

E9: Unlocking Failed

At the end of the cycle or after chambers repositioning, the door lock coil is switched off and the door lock switch must open. This error occurs if the door does not unlock within 30 seconds. If the door successfully unlocks, the error message will be cleared, and the machine will be ready for use again.

Diagnosing Failure 9	
1. Check the good functioning of the door unlock coil.	If the coil is malfunctioning, replace the coil.
2. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring.
3. Check the well-functioning of the door locked switch. The switch is a normal open contact.	If the switch is broken or malfunctions, replace the switch.

Table 92

E10: Temperature Not Reached

This error occurs when the requested target temperature is not reached during the wash step.

Diagnosing Failure 10	
1. Check if the heating contactor is activated	If the heating contactor is not activated: repair the wiring or replace the contactor.
2. Check if the heating elements are heating.	If the heating elements are not heating: Repair the wiring or replace the defective heater elements.
3. Check if the temperature sensor is functioning.	If the temperature sensor is defective: replace the temperature sensor.
4. Check the output relay that powers the heating contactor.	If the relay is broken, replace the wash computer.

Table 93

E11: No Fill Error

This error occurs when the water level has not reached its target level within the programmed maximum fill time. This value can be programmed in *Additional Basic Settings*.

Diagnosing Failure 11	
1. Check if the programmed maximum fill time in the Initialization menu is acceptable.	If the water flow is very slow, increase the value for the maximum fill time. The default value is 10 minutes.
2. Check if the external water valves are open.	If the water valves are closed: open the water inlet valves.
3. Check if the water inlet valves are not blocked by dirt.	If the water inlet valves are blocked by dirt: clean the water inlet valves or replace the water inlet valves.
4. Check the coil of the water inlet valves.	If the coil of the water inlet valve is electric open: replace the coil or the complete water inlet valve.
5. Check the drain valve.	If the drain valve is defective: replace the drain valve.
6. Check if the rubber hose (for measuring the water level) is well mounted on the electronic level sensor and on the drain valve.	If the hose is not well mounted: install the rubber hose properly.
7. Check if the hose on the electronic sensor is air tight.	If the air hose is not air tight: replace the air tube.

Table 94 *continues...*

Diagnosing Failure 11	
8. Check if the hose doesn't contain water. (siphon)	If the air tube contains water: remove the water and fix the hose so that it doesn't work as a siphon.
9. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring.
10. Check the output relay that powers inlet valves and the drain valve.	If the relay receives a command signal but is not closed, replace the wash computer.

Table 94

E12: Overfill

This error occurs if the water level exceeds the programmable maximum overfill level. This value can be programmed in *Additional Basic Settings*. This error will not be generated when the user is advancing from a sequence with a high water level to a sequence with a low water level.

Diagnosing Failure 12	
1. Check if the water inlet valves are broken.	If the water inlet valves are broken: clean or replace the water inlet valve diaphragms.
2. Check if the water pressure is too high.	Lower the water pressure.
3. Check the output relay that powers the inlet valve.	If the relay stays closed and the relay is broken, replace the wash computer.

Table 95

E13: Heating Failure

This error occur and failure message 13 will be displayed if heating elements are not functioning. This is defined as the temperature not rising 37.4°F [3°C] in 10 minutes.

Diagnosing Failure 13	
1. Check if the heating contactor is activated.	If the heating contactor is not activated: repair the wiring or replace the contactor.
2. Check if the heating elements are heating.	If the heating elements are not heating: Repair the wiring or replace the defective heater elements.

Table 96 *continues...*

Diagnosing Failure 13	
3. Check if the temperature sensor is functioning.	If the temperature sensor is defective: replace the temperature sensor.
4. Check the output relay that powers the heating contactor.	If the relay is broken, replace the wash computer.

Table 96

E14: Max. heating Time Exceeded

This error will only occur on machines set to wait for heat. This error will occur when the target temperature has not been reached after the programmed maximum heating time. This value can be programmed in *Additional Basic Settings*.

Diagnosing Failure 14	
1. Check if the programmed Maximum Heating time in the Initialization menu is acceptable.	If the machine has a small heating capacity, increase the value of the Maximum heating time. The default is 60 seconds (for machines with big heating capacity).
2. Check if the heating resistors are heating.	If the heating resistors are not heating: Repair the wiring or replace the defective heater elements.
3. Check the water temperature.	If the hot water supply temperature is too low: increase the temperature of the hot water.
4. Check if the temperature sensor is functioning.	If the temperature sensor is defective: replace the temperature sensor.

Table 97

E15: Too Hot Error

This error will occur when the water temperature is 59°F [15°C] above the target temperature.

Diagnosing Failure 15	
1. Check if correct water inlet valves have been programmed. If only hot water inlet valves have been programmed, and if the hot water supply has a temperature value above the programmed wash sequence value then the temperature of the wash bath will be too high.	Choose the correct water inlet valves for the wash sequence when you create or adjust the parameters of the wash program. Don't program only hot water inlet valves but also cold ones!
2. Check if the correct water inlet valves are Functional. If the cold water inlet valves are not functional or if the main cold water supply is not available (and only hot water inlet valves are open), and if the hot water supply has a temperature value above the programmed wash sequence value then the temperature of the wash bath will be too high.	Refer to *E11: No Fill Error*
3. Check the water temperature.	If the temperature of the supplied hot water is too high: decrease the temperature of the hot water.
4. Check if the temperature sensor is functioning.	If the temperature sensor is defective: replace the temperature sensor.
5. Check if the heating contactor stays closed. (check voltage to contactor coil.)	If the heating contactor stays closed : Replace the heating contactor.
6. Check the output relay that powers the heating contactor.	If the relay stays closed and the relay is broken, replace the power board.
7. Check the output relay that powers the heating contactor.	If the relay is not broken, but receives a not allowed signal from the wash computer, replace the wash computer.

Table 98

E16: Coin 1 Error

Failure message E16 will be displayed when the input for coin drop 1 is blocked for more than 5 seconds. If the payment mode is set to external, failure message E16 will be displayed if the external start release signal is high for more than 10 seconds when the door has been opened at the end of the cycle.

Diagnosing Failure 16	
1. Check correct functioning of coin drop 1.	If the coin drop micro contact or optocoupler is not functioning 100% : replace the coin drop.
2. Check the continuity of the wiring.	If the wiring is not continuous : repair the wiring.

Table 99

E17: Coin 2 Error

Failure message E17 will be displayed when the input for coin drop 2 is blocked for more than 5 seconds.

Diagnosing Failure 17	
1. Check correct functioning of coin drop 2.	If the coin drop micro contact or optocoupler is not functioning 100%: replace the coin drop.
2. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring.

Table 100

E21: Overflow Error

This error occurs when the water level rises above the hole of the overflow tube.

Diagnosing Failure 21	
1. Check that the overflow hole and tube isn’t blocked.	If the overflow tube is blocked: repair the tube.
2. Check that the drain tube isn’t blocked.	If the drain tube is blocked: repair the drain tube.
3. Check the water inlet valves.	If the water inlet valves are broken: replace the water inlet valves.
4. Check the output relay that powers the water inlet valve.	If the relay stays closed and the relay is broken, replace the wash computer.

Table 101

E25: Temperature Sensor Error

This error occurs when the temperature sensor is broken. The error is only generated when teh machine is in standby mode and no wash cycle is running. The error can only be cleared by cycle power to the machine. If the error conditions are still met when

the power is turned back on, failure message E25 will be displayed again.

Diagnosing Failure 25	
1. Check if the temperature sensor is connected on the PCB Board.	The Female connector must be connected with the Male connector T of the PCB board.
2. Check the temperature sensor.	If the temperature sensor is broken: replace the temperature sensor.
3. Measure the resistance of the sensor.	If the resistance is not OK: replace the temperature sensor.
4. Check if the earth wire is at the middle position of the connector.	If the earth wire is not at the middle position: put the earth wire in the middle position of connector T.
5. Check the PCB board visually.	If you see some damage : replace the wash computer.
6. If the fault is persistent.	Replace the wash computer. Be sure that the problem is related to the PCB board and not to a defective temperature sensor.

Table 102

E26: Mitsub Code Error

This error occurs if the inverter sends an error message that is not recognized by the wash computer.

E27: Inverter Communication Error

This error occurs when there is no communication between the wash computer and the inverter. The wash computer sends requests to the inverter and the inverter sends answers to the wash computer. If the wash computer does not recieve the answers within 5 seconds, then E27 will be displayed.

Diagnosing Failure 27	
1. For a new inverter or wash computer : Check if the right machine type and Washing machine power supply have been selected.	When the Inverter parameters are loaded at the Configuration menu, make sure that you have selected the right machine type and washing machine power supply.

Table 103 *continues...*

Diagnosing Failure 27	
2. Check if the door is closed and locked.	If the door is not closed then the inverter can not be powered. Close the door. If the door lock is broken, repair the door lock system.
3. Check if the inverter is energized. If the inverter power LED is not illuminated, measure if there is supply voltage at the inverter input terminals.	Repair the power supply. If the supply voltage is OK and the power LED is not illuminated, replace the inverter.
4. Check if the fuses are still operational.	If the fuses are blown up : replace the fuses.
5. Check if the safety inverter contactor is activated.	If the safety contactor is broken: replace the contactor.
6. Check if the connectors on both sides of the communication cable are still connected.	Connect the connectors on the wash computer and the inverter.
7. Check the wiring for continuity.	Repair the wiring.
8. Check if the output relays that activates the safety inverter contactor is functional.	If the relay is broken, replace the wash computer.
9. On machines with a backup UPS, the cause can be a power supply interruption.	Restore the power supply and restart the machine by means of the emergency stop button on the control panel.

Table 103

E28: THT Time Error

This error occurs when the wash computer cannot handle the THT (Mitsubishi) fault of the frequency inverter. This fault is a specific fault of the frequency inverter caused by an overcurrent.

Diagnosing Failure 28	
1. Check if the correct machine type is selected at the Configuration Menu.	If the wrong machine type is selected, enter the right machine type.
2. Check if the dedicated inverter parameters have been loaded by the wash computer.	Load the correct Inverter parameters.
3. Check if the power supply is sufficient high and stable during extraction with load.	Repair the power supply.

Table 104 *continues...*

Diagnosing Failure 28	
4. Check if the drum rotates normally by hand.	Repair / clean what is necessary.
5. Check if the fault is persistent.	If the fault is persistent, contact the manufacturer.

Table 104

E29: OV3 Error

This error occurs when the wash computer cannot handle the OV3 (Mitsubishi). This fault is a specific fault of the frequency inverter caused by an overvoltage.

Diagnosing Failure 29	
1. Check if the correct machine type is selected at the Configuration menu.	If the wrong machine type is selected, enter the right machine type.
2. Check if the dedicated inverter parameters have been loaded by the wash computer.	Load the correct Inverter parameters.
3. Check if there was a high unbalance during extraction, which can be caused by putting only half loads in the machine.	Put always a full load in the machine drum. Do not put other material than textile linen (fabrics) in the machine.
4. Check if the fault is persistent.	If the fault is persistent, contact the manufacturer.

Table 105

E31: Loading Invetert Parameters Failed

This error occurs when something goes wrong while the wash computer is writing the dedicated inverter parameters into the inverter EEPROM memory. This failure message means that not all of the dedicated inverter parameters have been loaded. As a result, the inverter will not work correctly.

Diagnosing Failure 31	
1. Check if the door is closed and locked.	If the door is not closed, close the door. If the door is not locked, repair the door lock system.
2. Check if the inverter is energized.	If the inverter is not energized, check the power to the inverter. Refer to *E27: Inverter Communication Error*.

Table 106 *continues...*

Diagnosing Failure 31	
3. Write the parameters once more into the inverter.	If the fault is persistent, contact the manufacturer.

Table 106

E32: Verifying Invetert Parameters Failed

This error occurs if a wrong parameter is detected during the verifcation of the inverter parameters. After the inverter parameters are written in the inverter, the parameters are verified one by one to ensure that they have been correctly loaded. This error message means that at least one of the dedicateed inverter parameters is wrong. As a result, the inverter will not work correctly.

Diagnosing Failure 32	
1. Check if the correct machine type is selected in the Configuration Menu.	If the wrong machine type is selected, enter the right machine type.
2. Check if the door is closed and locked.	If the door is not closed, close the door. If the door is not locked, repair the door lock system.
3. Check if the inverter is energized.	If the inverter is not energized, check the power to the inverter. Refer to *E27: Inverter Communication Error*.
4. Write the parameters once more into the inverter.	If the fault is persistent, contact the manufacturer.

Table 107

E35: Wrong Software Error

This error occurs when new software that isn't backward compatible with previous software versions is loaded. If incompatible new software is loaded, the software will detect that. The wash computer must be reconfigured to clear this error.

E36: Imbalance Error

This error occurs before the start of the spinning sequence. This error occurs when the linen is incorrectly distributed in the washer during the distribution stage (before the transition from distribution revolutions into high revolutions). If the Safety switch is activated, the machine attempts to redistribute the linen better. If the load remains unbalanced, the machine lowers the revolutions of the spinning sequence based on the unbalance magnitude.

Diagnosing Failure 36	
1. Unbalance may be caused by inserting only half the linen load into the machine.	Always fill in the machine with a full load of linen. Do not insert any other materials than textile materials (fabrics).

Table 108

E39: Out of Soap Error

This error occurs when the electronic timer detects that the soap reservoir is empty. A warning is given when the liquid soap reservoir is almost empty to help avoid completly running out of soap.

Diagnosing Failure 39	
1. Check if the Liquid Soap Supply is empty.	Add Soap to the Liquid Soap Supply System.

Table 109

E41: Service Due Error

This error occurs when the cycle counter of the electronic timer has reached the programmed value for service due. The error message will be cleared by opening the door. If service is not performed and the cycle counter is not reset, the message will appear again at the end of the next wash cycle.

Diagnosing Failure 41	
1. Check the cycle counter in the Service Information.	You can reset the cycle counter in the Service Menu.

Table 110

E44: Model Type Error

This error occurs when the operator selects the freestanding machine option (machine with a safety switch) on a rigid mount machine (machine without a safety switch).

Diagnosing Failure 44	
1. Check the machine name plate placed on the back of the machine.	Select the right machine type in the Configuration Menu.

Table 111

E45: Speed Sensor Error

This error occurs when the programmer device is not receiving information about drum rotation from the rotation speed sensor. The rotation speed sensor check is performed during the wash cycle before the spinning sequence.

Diagnosing Failure 45	
1. Check whether the drum rotation sensor is installed at the drum pulley, correctly set and connected to the programmer.	Perform correct installation of the drum rotation sensor.
2. Check correct function of the sensor. If a metal object is brought close to the sensor, an indicator light situated on the sensor must light up.	If the sensor is not working correctly, replace it.
3. In Service menu, check correct function of the rotation sensor when a metal object is brought near it.	In case that the programmer device does not respond to the signal sent from the rotation sensor, replace the programmer device.

Table 112

E54: Leak Detection (Fill)

This error will occur when machine control detects leak of water from water inlet or detergent inlet or soap box inlet during wash cycle when valve, the detection is done automatically.

Diagnosing Failure 54	
1. Check all inlet valves of the washing machine	If the inlet valve is leaking then repair or replace valve

Table 113

E55: Rise Check Error

This error occurs during a running cycle when the water in the wash drum is rising too slowly or is not rising at all. If this error occurs:

- Make sure that the valve is switching on during step 4 of the HOT cycle.
- Check the water supply.
- Check the water pressure.

E60: Inner Door Not Closed

Only high spin hygienic barrier machines 18-24-28 kg / 40-55-70 lb / 180-240-280 L and 18-24-28-36-50-70 kg / 40-55-70 lb / 360-500-700 L

Error is generated if during wash cycle door check system detects that drum door is not correctly locked.

Diagnosing Failure 60	
1. Check position of drum lock lever.	Set lock lever in lock position .

Table 114 *continues...*

Diagnosing Failure 60	
2. Calibrate drum door check system.	Set calibration procedure in Service menu / Toolbox / Door System Calibration to On. Leave the Menu. Select wash program 1 and press the "START" button. Calibration procedure will start.
3. Check mechanical functionality of drum door.	Replace drum door.
4. Check drum rotation direction.	The drum must start rotating upwards after pressing the Start button, except for 36 and 50 kg models with Pullman drum, where it must start rotating downwards.

Table 114

E61: Inner Door Lock Calibration

Only high spin hygienic barrier machines 18-24-28 kg / 40-55-70 lb / 180-240-280 L and 18-24-28-36-50-70 kg / 40-55-70-XX-XX-XXX lb / 360-500-700 L

Error is generated if calibration procedure of drum door is not functional.

Diagnosing Failure 61	
1. Check position of drum lock lever.	Check the correct position of the lock lever of the inner door (must be locked properly), or check that the door itself is locked properly. Check correct interconnection of the IDLC module and the Programmer, IDLC module and the sensor which is mounted from the top in the middle of the outer drum of the washing machine. Switch off the washing machine. While watching the red LED diode on the IDLC module, switch on the washing machine again. The diode should come on for a short time. If the diode fails to come on, the IDLC module is faulty and must be replaced with a new one and it is necessary to carry out calibration again. Loosen the screws fixing the base of the IDLC module sensor from the top on the outer drum and move the base 1mm towards the IDLC module. Fix it and calibrate again. If calibration is not successful, the IDLC module sensor is faulty and must be replaced.

Table 115

E63: Mitsubishi Safety Error

This error occurs when the Mitsubishi inverter evaluates inputs S1, S2, and SC as in an error state during a running cycle.

1. Check that the safety cable from the IO board to the inverter is in good condition and that the connection is good.
2. Replace the IO board.
3. Replace the Mitsubishi inverter.

E64: Soap Door Not Closed

This error will occur if machine control detects that the soap box door switch is indicating that door is open during running wash cycle.

Diagnosing Failure 64	
1. Check if the Soap box door is closed	If it is opened - close it.
2. Check if the Soap box door switch wiring	If the wiring is not continuous: repair the wiring.
3. Check the good functioning of the soap box door switch.	If the switch is broken or malfunctions replace switch.

Table 116

E65: Temperature Not Maintained

This error will occur on the end of wash cycle if the Temperature-Time verification feature is enabled and if the step target temperature was not continuously maintained in Wash or in Prewash cycle steps.

Diagnosing Failure 65	
1. Check the heating element wiring if present. Check the steam heating wiring if present.	If the wiring is not continuous: repair the wiring.
2. Check IO board heating output wiring	If the wiring is not continuous: repair the wiring.
3. Check the heating element, if present.	If heating element is damaged, then replace the heating element.
4. Check IO board.	If the IO board is damage, then replace the IO board.

Table 117

E66: Leak Detection (Drain)

This error will occur if machine control detects leak of water from drum during wash cycle, the detection is done automatically.

Diagnosing Failure 66	
1. Check the drain tube of the washing machine	If the drain tube is leaking: repair the drain tube.
2. Check the drain valve	If the drain valve is defective: replace the drain valve.
3. Check the outer shell of the wash drum.	If the shell is defective: replace / repair it.

Table 118

E67: Slow Drain

This error will occur if machine control detects draining time greater than the amount specified for the certain machine size and type, the detection is done automatically.

Diagnosing Failure 67	
1. Check if the drain tube is blocked	If the drain tube is blocked: remove plug.

Table 119

E68: Tilt Switches Error

Machine with front tilting:

This error will occur if the machine tilting front base and front above switches are in states indicating that machine is in front base position and in front above position in same time.

Machine with front-back tilting:

This error will occur if the machine tilting front base and front above switches are in states indicating that machine is in front base position and in front above position in same time or This error will occur if the machine tilting back base and back above switches are in statesindicating that machine is in back base position and in back above position in same time.

Diagnosing Failure 68	
1. Machine with front tilting or front-back tilting: Check the good functioning of the front base position switch. Check the good functioning of the front above position switch.	If the switch is broken or malfunctions replace switch.
2. Machine with front tilting or front-back tilting: Check the front base position switch wiring. Check the front above position switch wiring. Wire damage or wire connected to wrong input.	If the wiring is not continuous: repair the wiring.

Table 120 *continues...*

Diagnosing Failure 68	
3. Machine with front-back tilting: Check the good functioning of the back base position switch. Check the good functioning of the back above position switch.	If the switch is broken or malfunctions replace switch.
4. Machine with front-back tilting:: Check the back base position switch wiring. Check the back above position switch wiring. Wire damage or wire connected to wrong input.	If the wiring is not continuous: repair the wiring.

Table 120

E77: Heat Blocking Timeout

This error occurs when External Wait Control (refer toAdditional Basic Settings) is set to Heating and the external blocking signal stays high for more than 1 hour.

Diagnosing Failure 77	
1. Check if the external blocking system operates correctly.	Repair external blocking System in case of failure.
2. Check if the wiring of the input signal "On Hold" is not damaged.	If the wiring is damaged: repair the wiring.
3. Check the wash computer. (Inputs can be checked one by one in the Service Menu).	If the input of the wash computer is not functional, replace the wash computer.

Table 121

E90: IO Board Communication failure

This ERR shows when I/O board not communicating with CPU. Check connection wiring or change I/O board, CPU board or update firmware

E92: IO Board Not Responding

This ERR shows when I/O board failed. Change I/O board or update firmware.

E93: Drum Is Rotating

If the drum still rotate wait until it stops and press button "Clear Error". Otherwise verify speed sensor and cables.

E94: IO Board Version Conflict

This ERR shows when I/O board firmware is not matching required version. Change I/O board.

E95: Safety Inputs Failure

Special safety ERR. Inputs 12 or 15 or 18 are energized unexpectedly. Change IO board.

E96: Remote Control Conflict

This ERR shows activated remote control for tilting when not allowed. Check buttons functionality on remote controller.

E97: Drum Is Not Locked in Position

This Error is generated when drum is not locked in position after power failure and door is open. Close door. Machine will lock drum in position. Then open door again.

E98: Safety Switch

Fail safety switch. For troubleshooting refer to *E4: Safety Switch, Distribution*.

E100: Weighing Communication Error

This error will occur if machine control detects lost communication with Automatic weighing device (Optiload). Machine can work without Weighing feature. The Weighing option can be se to NO.

Diagnosing Failure 100	
1. Check the wiring of weighing device.	If the wiring is not continuous: repair the wiring.
2. Check weighing device for damage.	If the Weighing device is broken or malfunctions, then replace Weighing device.
3. Check CPU control.	If the CPU control is damage, then Replace the CPU board.

Table 122

E101: Weigh Low

This error will occur if Automatic weighing (Optiload) is enabled and measured machine weight is lower than 80% of calibrated machine weight.

Diagnosing Failure 101	
1. Check all weighing units.	If the unit is damage, then replace it.
2. Check all weighing units wiring	If the wiring is not continuous: repair the wiring.
3. Check weighing device for damage.	If the weighing device is broken or malfunctions, then replace weighing device.
4. Check the horizontal base for the location of the washing machine.	If the base is not horizontal, then fix this issue.
5. Check CPU control.	If the CPU control is damaged, then Replace the CPU board.

Table 123

E102: Weigh High

This error will occur if Automatic weighing is enabled and measured machine weight is higher than 120% of calibrated machine weight.

Diagnosing Failure 102	
1. Check if the machine is not loaded by external influences	If yes – remove external load.
2. Check all weighing units	If the unit is damaged, then replace it.
3. Check all weighing units wiring.	If the wiring is not continuous: repair the wiring.
4. Check weighing device for damage.	If the weighing device is broken or malfunctions, then replace weighing device.
5. Check the horizontal base for the location of the washing machine.	If the base is not horizontal, then fix this issue.
6. Check CPU control.	If the CPU control is damaged, then Replace the CPU board.

Table 124

E103: Weighing Sensors Unbalance

This error will occur if the measured weight of machine is out of balance and tilting feature is disabled. One or more of 4 weight units are overloaded or underloaded.

Diagnosing Failure 103	
1. Check if the machine is not loaded by external influences	If yes – remove external load.
2. Check all weighing units.	If the unit is damaged, then replace it.
3. Check all weighing units wiring.	If the wiring is not continuous: repair the wiring.
4. Check weighing device for damage.	If the weighing device is broken or malfunctions, then replace weighing device.
5. Check CPU control	If the CPU control is damaged, then Replace the CPU board.

Table 125

E104: Weighing Dynamic Unbalance

This error will occur if the measured weight of machine is out of balance and tilting feature is disabled. One or more of 4 weight units are overloaded or underloaded. This error will occur during running of spin wash cycle step when at least one of measuring units measured weight is higher than ¾ of measuring unit capacity

Diagnosing Failure 104	
1. Check if the machine is not loaded by external influences	If yes – remove external load.
2. Check all weighing units	If the unit is damaged, then replace it.
3. Check all weighing units wiring.	If the wiring is not continuous: repair the wiring.
4. Check weighing device for damage.	If the weighing device is broken or malfunctions, then replace weighing device.
5. Check CPU control	If the CPU control is damage, then Replace the CPU board.
6. Check the horizontal base for the location of the washing machine.	If the base is not horizontal, then fix this issue.
7. Check CPU control.	If the CPU control is damaged, then Replace the CPU board.

Table 126

E130-141

Diagnosing Failure 130	
1. Check the SDL2 switch	Microswitch SDL2 is signaling locked drum but washing drum has been unlocked.
2. Replace the SDL2 switch	If SDL2 switch doesn't work properly, replace SDL2. After replacement, check the positioning system.

Table 127

Diagnosing Failure 134	
1. Check proximity sensor SD6 or wiring from proximity sensor to electronic board	System cannot read the drum position.
2. Check distance between SD6 proximity sensor and positioning plate mounted on pulley	Proximity sensor has a maximum distance of 2 mm. Ideal distance between sensor and positioning plate is 1 mm. Set sensor to correct position (1 mm gap).

Table 128

Diagnosing Failure 135	
1. Check locking element	Check locking pin. The locking pin could be stuck in the unlock position.
2. Check the SDL2 and SDL3 switches	SDL3 and SDL2 could be sending incorrect signals (SDL3: unlocked position; SDL2: locked position).
3. Check DC electric motor	Check wiring and power supply to DC motor. There must be 12V DC power.
4. Check wiring	Check that all signals and contacts are correct and that the power supply of the DC motor is correct.

Table 129

Diagnosing Failure 137	
1. Check the SDL3 switch	Microswitch SDL3 is signaling unlocked drum, but washing drum has been locked.

Table 130 *continues...*

Diagnosing Failure 137	
2. Replace the SDL3 switch	If SDL3 switch does not work properly, replace SDL3. After replacement, check the positioning system.

Table 130

Diagnosing Failure 140	
1. Check position of locking element	Check the position of locking element. Turn off the machine and try to move with locking element to unlocked position. In the unlocked position, SDL3 is switched.
2. Check the SDL3 switch	If SDL3 switch does not work properly, replace SDL3.

Table 131

Diagnosing Failure 141	
1. Check position of locking element	Check the position of locking element. Turn off the machine and try to move with locking element to unlocked position. In the unlocked position, SDL3 is switched.
2. Check DC electric motor	Check wiring and power supply to DC motor. Power supply must be 12V DC.

Table 132

E146: Door Not Closed, Unloading Side

While a wash cycle is running the internal door lock systems are scanned constantly. This error will occur if the wash computer detects that the door-closed switch is not closed on unloading side during the wash cycle. If this occurs, the machine will immediately stop all functions. The door will stay locked.

Diagnosing Failure 146	
1. Check the good functioning of the door switch at the inputs menu.	If the input is not functional replace the wash computer.
2. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring

Table 133 *continues...*

Diagnosing Failure 146	
3. Check the well functioning of the door switch. The door switch is a normal open contact.	If the door switch is broken or malfunctions replace the door switch.

Table 133

E147: Door Not Locked, Unloading Side

While a wash cycle is running the internal door lock systems are scanned constantly. This error will occur if the wash computer detects that the door lock switch on unloading side is not closed during the wash cycle. If this occurs, the machine will immediately stop all functions. The door will stay locked.

Diagnosing Failure 147	
1. Check the door lock wiring.	If the wiring is not continuous: repair the wiring
2. Check (in the programmer device) the correct function of door locking and unlocking outputs and also of the input into the switch for locking the door.	Replace the switch or the programmer device - based on the result of output/input inspection above.

Table 134

E148: Locking Failed, Unloading Side

The washing machine will not start a cycle when the door is not locked correctly after pressing the Start button. Failure message will be generated each time the door locking sequence fails.

Diagnosing Failure 148	
1. Check the good functioning of the door lock coil on unloading side.	If the coil is malfunctioning, replace the coil.
2. Check the good functioning of the I/O board input 19 - "locked switch unload side" in the inputs/outputs menu.	If the input is not functional replace I/O board..
3. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring
4. Check the well-functioning of the door locked switch on loading side. The switch is a normal open contact.	If the switch is broken or malfunctions replace the switch.

Table 135

E149: Unlocking Failed, Unloading Side

At the end of the cycle or after chambers repositioning, the door lock coil is switched off and the door lock switch must open. This error occurs if the door does not unlock within 30 seconds. If the door successfully unlocks, the error message will be cleared, and the machine will be ready for use again.

Diagnosing Failure 149	
1. Check the good functioning of the door unlock coil on unloading side.	If the coil is malfunctioning, replace the coil.
2. Check the continuity of the wiring	If the wiring is not continuous: repair the wiring
3. Check the well-functioning of the door locked switch on unloading side. The switch is a normal open contact	If the switch is broken or malfunctions replace the switch.

Table 136

E156: Door Not Closed, Loading Side

While a wash cycle is running the internal door lock systems are scanned constantly. This error will occur if the wash computer detects that the door-closed switch is not closed on loading side during the wash cycle. If this occurs, the machine will immediately stop all functions. The door will stay locked.

Diagnosing Failure 156	
1. Check the good functioning of the I/O board input 20 - "closed switch load side" in the inputs/outputs menu.	If the input is not functional replace I/O board.
2. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring
3. Check the well-functioning of the door close switch on loading side. The switch is a normal open contact.	If the switch is broken or malfunctions replace the switch.

Table 137

E157: Door Not Locked, Loading Side

While a wash cycle is running the internal door lock systems are scanned constantly. This error will occur if the wash computer detects that the door lock switch on loading side is not closed during the wash cycle. If this occurs, the machine will immediately stop all functions. The door will stay locked.

Diagnosing Failure 157	
1. Check the good functioning of the I/O board input 24 - "locked switch load side" in the inputs/outputs menu.	If the input is not functional replace I/O board.
2. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring
3. Check the well-functioning of the door locked switch on loading side. The switch is a normal open contact.	If the switch is broken or malfunctions replace the switch.

Table 138

E158: Locking Failed, Loading Side

The washing machine will not start a cycle when the door is not locked correctly after pressing the Start button. Failure message will be generated each time the door locking sequence fails.

Diagnosing Failure 158	
1. Check the good functioning of the door lock coil on loading side.	If the coil is malfunctioning, replace the coil.
2. Check the good functioning of the I/O board input 24 - "locked switch unload side" in the inputs/outputs menu.	If the input is not functional replace I/O board.
3. Check the continuity of the wiring	If the wiring is not continuous: repair the wiring
4. Check the well-functioning of the door locked switch on loading side. The switch is a normal open contact.	If the switch is broken or malfunctions replace the switch.

Table 139

E159: Unlocking Failed, Loading Side

At the end of the cycle or after chambers repositioning, the door lock coil is switched off and the door lock switch must open. This error occurs if the door does not unlock within 30 seconds. If the door successfully unlocks, the error message will be cleared, and the machine will be ready for use again.

Diagnosing Failure 159	
1. Check the good functioning of the door unlock coil on loading side.	If the coil is malfunctioning, replace the coil.

Table 140 *continues...*

Diagnosing Failure 159	
2. Check the continuity of the wiring.	If the wiring is not continuous: repair the wiring
3. Check the well-functioning of the door locked switch on loading side. The switch is a normal open contact.	If the switch is broken or malfunctions replace the switch.

Table 140

E300-353: Mits Error

Detects that the door switch on unloading side is not closed during the wash cycle. If this occurs, the machine will immediately stop all functions. The door will stay locked.

Specific inverter errors. Refer to *Table 2*

Error Number	Failure	Failure Name
300	Err OC1	Overcurrent
301	Err OC2	Overcurrent
302	Err OC3	Overcurrent
303	Err OV1	Overcurrent
304	Err OV2	Overcurrent
305	Err OV3	Overcurrent
306	Err THT	Inverter overload
307	Err THM	Motor overload
308	Err FAN	Fan stopped
309	Err OLT	Stall prevention
310	Err BE	Brake transistor
311	Err GF	Ground Fault
312	Err OHT*	Ext thermal relay
313	Err OPT	Option
314	Err PE	Corrupt memory
315	Err PUE	PU leave out
316	Err Ret*	Retry no over
317	Err CPU	CPU Fault
318	Err E.6	CPU Fault 6
319	Err E.7	CPU Fault 7
320	Err IPF	Instantaneous power failure

Table 141 *continues...*

Error Number	Failure	Failure Name
321	Err UVT	Under voltage
322	Err LF	Output phase failure
323	Err OP1*	Option slot 1
324	Err OP2*	Option slot 2
325	Err OP3*	Option slot 3
326	Err CTE	PU short circuit
327	Err P24	24VDC short circuit
328	Err MB1*	Brake sequence error 1
329	Err MB2*	Brake sequence error 2
330	Err MB3*	Brake sequence error 3
331	Err MB4*	Brake sequence error 4
332	Err MB5*	Brake sequence error 5
333	Err MB6*	Brake sequence error 6
334	Err MB7*	Brake sequence error 7
335	Err FIN	Heatsink overheat
336	Err OSD*	Speed deviation excess
337	Err ECT*	Encoder signal loss
338	Err E.1*	Option alarm (connector 1)
339	Err E.2*	Option alarm (connector 2)
340	Err E.3*	Option alarm (connector 3)
341	Err ILF*	Input phase failure
342	Err PTC	PTC thermistor operation
343	Err PE2	Parameter storage error
344	Err CDO*	Output current detection
345	Err IOH	Inrush overheat
346	Err SER*	Communication error
347	Err AIE*	Analog input error
348	Err USB*	USB communication error
349	Err OS*	Overspeed
350	Err OD*	Position error
351	Err EP*	Encoder phase error
352	Err E.11*	Opposite rotation deceleration
353	Err E.13	Internal circuit error
*Error not used. If this error message appears, parameters must be reloaded. If this does not clear the error message, then the inverter must be replaced.		

Table 141

E615: Inverter safety Error

This error occurs when lost of safety signal from inverter to IO board. Check if the cable from inverter outputs SC, S1 and S2 is properly connected on both ends. Check if the cable from inverter outputs SC, S1 and S2 is not damaged.

E700: Too Hot to Open Door Error

This error occurs when the water temperature is greater than or equal to 75°C. At this temperature the load is too hot to open the door.

E701: Water in the Drum Error

This error occurs when the water level is too high at machine startup or end of cycle.

E702: Temperature Out of Bounds at End of Cycle Error

This error occurs when the water temperature at the end of a cycle is greater than or equal to 109°C or less than or equal to 0°C.

E703-E729, E744: Database Initialization Errors

Immediate downgrade errors (703, 705, 706, 708, 716, 717, 718, 719, 726, 727)

- If the previous firmware version is available, revert to it. If reversion does not occur, the firmware will remain in the error state and service intervention is required.

Errors that must occur twice before downgrade

- Reboot.
- If the same error occurs again and the previous firmware version is available, revert to it. If reversion does not occur, the firmware will remain in the error state and service intervention is required.

E721-E743: Database Run Errors

These errors occur when database operations fail.

E747, E748, E800-E804: Initialization Errors

These errors occur when firmware initialization fails.