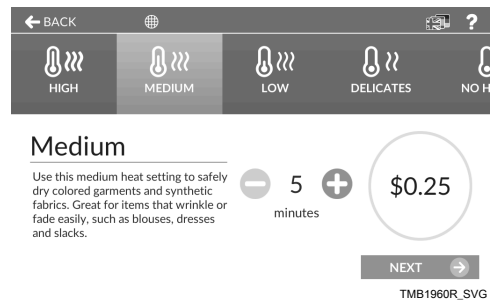


Tumble Dryer

Touch Vend Control

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.)

	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.

Regulatory Statements

PRODUCT COMPLIANCE

Users of this product are cautioned not to make modifications or changes that are not approved by Alliance Laundry Systems, LLC. Doing so may void the compliance of this product with applicable laws and regulatory requirements and may result in the loss of the user's authority to operate the equipment.

UNITED STATES

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions; (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equip-

ment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the radio or television receiving antenna.
- Increase the separation between the computer equipment or receiver.
- Connect the equipment into an outlet on a circuit different from that to which the radio or television receiver is connected.
- Consult the dealer or experienced radio television technician for help.

	CAUTION
To comply with the limits of the Class B device, pursuant to Part 15 of the FCC Rules, this device is to comply with Class B limits. All peripherals must be shielded and grounded. Operation with non-certified peripherals or non-shielded cables is likely to result in interference and reception of the device.	
W1004	

Radiation Exposure Statement : This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. The radio installed in this equipment and is intended to operate with minimum distance 20cm between the radiator and your body.

Limited Channels Fixed For Use In USA : IEEE 802.11b or 802.11g or 802.11n(HT20) operation of this product in the U.S. is firmware-limited to Channel 1 through 11.

CANADA - CAN ICES-3(B)/NMB-3(B)

This device contains license-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's license-exempt RSS(s) standards. Operation is subject to the following two conditions:

- This device may not cause interference.
- This device must accept any interference, including interference that may cause undesired operation of the device.

Radiation Exposure Statement: This equipment complies with Innovation, Science and Economic Development Canada's radiation exposure limits set forth for in RSS-102. The radio installed in this equipment is installed and is intended to operate with minimum distance 20cm between the radiator and your body.

EUROPE

Products bearing the CE mark comply with the following EU directives:

- EMC Directive 2014/30/EU
- Machinery Directive 2006/42/EC

- Gas Appliance Directive 2016/426/EU
- RoHS Directive 2011/65/EU and its amendment directives; Commission Delegated Directive 2015/863 to restrict four phthalates

If the product has telecommunications functionality, it also complies with the requirements of the following EU directive:

- Radio Equipment Directive 2014/53/EU

Compliance with these Directives implies conformity to harmonized European standards that are noted in the EU Declaration of Conformity which is available upon request.

Alliance Laundry Systems products comply with the requirement of Article 12 as it can be operated in at least one Member State as examined and the product is compliant with Article 11 as it has no restrictions on putting into service in all EU member states.

This device contains a 2.4GHz transceiver, intended for indoor use only in all EU member states, EFTA states, and Switzerland. Attention has been given to allowed operational frequencies. For detailed information concerning installations in France, the user should contact the national spectrum authority in France (<http://www.arcep.fr/>)

Be aware that outdoor installations require special attention and will only be handled by trained and qualified installation personnel. No one from the general-public is permitted to install wireless products outdoors when external antennas, power and grounding must be installed for use.

AUSTRALIA/NEW ZEALAND

The radio in this equipment complies with and is certified to the Australian and New Zealand regulatory requirements.

BRAZIL ANATEL

This device is not entitled to protection against harmful interference and may not interfere with duly authorized systems.

CHINA SRRC

The radio device has received certification of conformance in accordance with the People's Republic of China State Radio Regulation Committee (SRRC) certification scheme. Integrations of this radio into a final product does not require additional radio certification provided installation instructions are followed. No changes are authorized to the radio or the antenna of the approved device.

JAPAN

This product is equipped with a certified wireless device pur-

suant to Article 2-1-19 of the Certification Ordinance. No changes are authorized to the radio or the antenna of the approved device.

MEXICO IFETEL

"The operation of this equipment is subject to the following two conditions: (1) it is possible that this equipment or device does not cause harmful interference and (2) this equipment or device must accept any interference, including that which may cause its unwanted operation."

SOUTH KOREA (KC)

The radio device has received certification of conformance in accordance with the Radio Waves Act. Integration of this radio into a final product does not require additional radio certification provided installation instructions are followed. No changes are authorized to the radio or the antenna of the approved device.

TAIWAN

The information in this section applies to products bearing the Taiwan National Communications Commission mark:

This telecom equipment has complied with NCC regulations.

According to "Administrative Regulations of Low Power Radio Waves Radiated Devices":

Article 12 The low-power radio-frequency devices must not be altered by changing the frequency, enhancing emission power, adding external antenna, and modification of original design characteristic as well as function.

Article 14 The operation of the low-power radio-frequency devices is subject to the conditions that no harmful interference is caused. The user must stop operating the device immediately should harmful interference is caused and shall not resume until the condition causing the harmful interference has been corrected.

Moreover, the interference must be accepted that may be caused by the operation of an authorized communications, or ISM equipment. (1) Precautions (marked in the product manual and on outer packaging)

THAILAND

The information in this section applies to products approved by the Thailand National Communications Commission:

These telecommunication and device are compliance with the requirements of National Broadcasting and Telecommunication Commission.

Safety Information

Important Safety Instructions

	WARNING
To reduce the risk of fire, electric shock, serious injury or death to persons when using your tumble dryer, follow these basic precautions.	
W776R1	

Save These Instructions

- Read all instructions before using the tumble dryer.
- Install the tumble dryer according to the INSTALLATION instructions. Refer to the EARTHING (grounding) instructions for the proper earthing (grounding) of the tumble dryer. All connections for electrical power, earthing (grounding) and gas supply 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 tumble dryer where it will be exposed to water and/or weather. The tumble dryer cannot be used in a closed room where the air supply is insufficient. If necessary, ventilation grids must be installed in the doors or the windows.
- This tumble dryer must not be activated without lint screen filter.
- When you perceive a gas odor, immediately shut off the gas supply and ventilate the room. Do not power on electrical appliances and do not pull electrical switches. Do not use matches or lighters. Do not use a phone in the building. Warn the installer, and if so desired, the gas company, as soon as possible.
- To avoid fire and explosion, keep surrounding areas free of flammable and combustible products. Regularly clean the cylinder and exhaust tube should be cleaned periodically by competent maintenance personnel. Daily remove debris from lint screen filter and inside of filter compartment.
- Do not use or store flammable materials near this appliance.
- Do not place into tumble dryer articles that have been previously cleaned in, washed in, soaked in or spotted with gasoline or machine oils, vegetable or cooking oils, cleaning waxes or chemicals, dry-cleaning solvents, thinner or other flammable or explosive substances as they give off vapors that could ignite, explode or cause fabric to catch on fire by itself.
- Do not spray aerosols in the vicinity of this appliance while it is in operation.
- Items such as foam rubber (latex foam), shower caps, waterproof textiles, rubber backed articles and clothes or pillows filled with foam rubber pads should not be dried in the tumble dryer. Do not use the appliance to dry materials with a low melting temperature (PVC, rubber, etc.).
- Do not tumble fiberglass curtains and draperies unless the label says it can be done. If they are dried, wipe out the cylinder with a damp cloth to remove particles of fiberglass.
- Do not allow children to play on or in the dryer. Close supervision of children is necessary when the dryer is used near children. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. This is a safety rule for all appliances.
- Cleaning and user maintenance shall not be made by children without supervision.
- Children less than three years should be kept away unless continuously supervised.
- Models with electronic control: Remove and immediately recycle or dispose of used controls according to local regulations and keep away from children. Do NOT dispose of controls in the trash or incinerate. Do not attempt to remove the batteries. Even used batteries may cause severe injury or death. Call a local poison control center for treatment information. Non-rechargeable batteries are not to be recharged. Do not force discharge, recharge, disassemble, heat above 70°C [158°F] or incinerate. Doing so may result in injury due to venting, leakage or explosion resulting in chemical burns.
- Do not reach into the tumble dryer if the cylinder is revolving.
- Use tumble dryer only for its intended purpose, drying fabrics. Always follow the fabric care instructions supplied by the textile manufacturer and only use the dryer to dry textiles that have been washed in water. Only insert spin-dried linen in the dryer to avoid damage to dryer.
- Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Follow 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.
- Remove laundry immediately after tumble dryer stops.
- DO NOT operate the tumble dryer if it is smoking, grinding or has missing or broken parts or removed guards or panels. DO NOT tamper with the controls or bypass any safety devices.
- Tumble dryer will not operate with the loading door open. DO NOT bypass the door safety switch to permit the tumble dryer to operate with the door open. The tumble dryer will stop rotating when the door is opened. Do not use the tumble dryer if it does not stop rotating when the door is opened or starts tumbling without pressing the START mechanism. Remove the tumble dryer from use and call for service.

- Tumble dryer will not operate with lint panel open. DO NOT bypass lint panel door safety switch to permit the tumble dryer to operate with the lint panel door open.
- Do not alter this tumble dryer from factory construction except as otherwise described in the technical instructions.
- Always clean the lint filter daily. Keep area around the exhaust opening and adjacent surrounding area free from the accumulation of lint, dust and dirt. The interior of the tumble dryer and the exhaust duct should be cleaned periodically by qualified service personnel.
- Solvent vapors from dry-cleaning machines create acids when drawn through the heater of the drying unit. These acids are corrosive to the tumble dryer as well as the laundry load being dried. Be sure make-up air is free of solvent vapors.
- At the end of each working day, close off all main supplies of gas, steam and electricity.

IMPORTANT: For fire suppression equipped tumble dryers, electricity and water should NOT be turned off.

- Do not repair or replace any part of the tumble dryer, 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 and lockout the electrical power to the tumble dryer before servicing. Disconnect power by shutting off appropriate breaker or fuse.
- Activation of the emergency stop switch stops all tumble dryer control circuit functions, but DOES NOT remove all electrical power from tumble dryer.
- Exhaust ductwork should be examined and cleaned annually after installation.
- Before the tumble dryer is removed from service or discarded, remove the door to the drying compartment and the door to the lint compartment.
- Failure to install, maintain, and/or operate this tumble dryer 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. Observe and be aware of other labels and precautions that are located on the machine. They are intended to provide instruction for safe use of the machine. Common sense, caution and care must be exercised when installing, maintaining, or operating the tumble dryer.

Always contact your dealer, distributor, service agent or the

manufacturer about any problems or conditions you do not understand.

NOTE: All appliances are produced according to 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.

Explanation of Safety Instruction 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.

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Introduction

Model Identification

Information in this manual is applicable to these models. **Refer to the machine serial plate for the model number.**

025 Series (11 Kg)							
HA025E	HG025S	HJ025R	HT025F	SA025F	SH025E	SJ025S	ST025F
HA025F	HH025E	HJ025S	HT025L	SA025L	SH025F	SK025E	ST025L
HA025L	HH025F	HK025E	HT025N	SA025N	SH025L	SK025F	ST025N
HA025N	HH025L	HK025F	HT025R	SA025R	SH025N	SK025L	ST025R
HA025R	HH025N	HK025L	HT025S	SA025S	SH025R	SK025N	ST025S
HA025S	HH025R	HK025N	HU025E	SG025D	SH025S	SK025R	SU025E
HG025D	HH025S	HK025R	HU025F	SG025E	SJ025D	SL025E	SU025F
HG025E	HJ025D	HL025E	HU025L	SG025F	SJ025E	SL025L	SU025L
HG025F	HJ025E	HL025L	HU025N	SG025L	SJ025F	SR025E	SU025N
HG025L	HJ025F	HR025E	HU025R	SG025N	SJ025L	SR025S	SU025R
HG025N	HJ025L	HR025S	HU025S	SG025R	SJ025N	ST025E	SU025S
HG025R	HJ025N	HT025E	SA025E	SG025S	SJ025R		

030 Series (13 Kg)							
BA030E	BJ030N	BU030N	HJ030D	HT030S	PJ030S	SA030R	SK030E
BA030F	BJ030R	BU030R	HJ030E	HU030E	PK030E	SA030S	SK030F
BA030L	BJ030S	BU030S	HJ030F	HU030F	PK030L	SG030D	SK030L
BA030N	BK030E	HA030E	HJ030L	HU030L	PK030N	SG030E	SK030N
BA030R	BK030F	HA030F	HJ030N	HU030N	PL030E	SG030F	SK030R
BA030S	BK030L	HA030L	HJ030R	HU030R	PL030L	SG030L	SL030E
BG030D	BK030N	HA030N	HJ030S	HU030S	PR030E	SG030N	SL030L
BG030E	BK030R	HA030R	HK030E	PA030E	PR030S	SG030R	SR030E
BG030F	BL030E	HA030S	HK030F	PA030L	PT030E	SG030S	SR030S
BG030L	BL030L	HG030D	HK030L	PA030N	PT030L	SH030E	ST030D
BG030N	BR030E	HG030E	HK030N	PA030S	PT030N	SH030F	ST030E
BG030R	BR030S	HG030F	HK030R	PG030E	PT030S	SH030L	ST030F
BG030S	BT030D	HG030L	HL030E	PG030L	PU030E	SH030N	ST030L

continues...

030 Series (13 Kg)							
BH030E	BT030E	HG030N	HL030L	PG030N	PU030F	SH030R	ST030N
BH030F	BT030F	HG030R	HR030E	PG030S	PU030L	SH030S	ST030R
BH030L	BT030L	HG030S	HR030S	PH030E	PU030N	SJ030D	ST030S
BH030N	BT030N	HH030E	HT030D	PH030L	PU030R	SJ030E	SU030E
BH030R	BT030R	HH030F	HT030E	PH030N	PU030S	SJ030F	SU030F
BH030S	BT030S	HH030L	HT030F	PH030S	SA030E	SJ030L	SU030L
BJ030D	BU030E	HH030N	HT030L	PJ030E	SA030F	SJ030N	SU030N
BJ030E	BU030F	HH030R	HT030N	PJ030L	SA030L	SJ030R	SU030R
BJ030F	BU030L	HH030S	HT030R	PJ030N	SA030N	SJ030S	SU030S
BJ030L							

S30 Series (13 Kg)							
BAS30E	BLS30L	HAS30L	HLS30L	PAS30E	PLS30L	SAS30L	SLS30L
BAS30L	BRS30E	HAS30N	HRS30E	PAS30L	PRS30E	SAS30N	SRS30E
BAS30N	BRS30S	HAS30S	HRS30S	PAS30N	PRS30S	SAS30S	SRS30S
BAS30S	BTS30D	HJS30D	HTS30D	PAS30S	PTS30E	SJS30D	STS30D
BJS30D	BTS30E	HJS30E	HTS30E	PJS30E	PTS30L	SJS30E	STS30E
BJS30E	BTS30L	HJS30L	HTS30L	PJS30L	PTS30N	SJS30L	STS30L
BJS30L	BTS30N	HJS30N	HTS30N	PJS30N	PTS30S	SJS30N	STS30N
BJS30N	BTS30S	HJS30S	HTS30S	PJS30S	PUS30E	SJS30S	STS30S
BJS30S	BUS30E	HKS30E	HUS30E	PKS30E	PUS30L	SKS30E	SUS30E
BKS30E	BUS30L	HKS30L	HUS30L	PKS30L	PUS30N	SKS30L	SUS30L
BKS30L	BUS30N	HKS30N	HUS30N	PKS30N	PUS30S	SKS30N	SUS30N
BKS30N	BUS30S	HLS30E	HUS30S	PLS30E	SAS30E	SLS30E	SUS30S
BLS30E	HAS30E						

T30 Series (13/13 Kg)							
BAT30E	BJT30N	BUT30N	HJT30D	HTT30S	PJT30S	SAT30R	SKT30E
BAT30F	BJT30R	BUT30R	HJT30E	HUT30E	PKT30E	SAT30S	SKT30F
BAT30L	BJT30S	BUT30S	HJT30F	HUT30F	PKT30L	SGT30D	SKT30L
BAT30N	BKT30E	HAT30E	HJT30L	HUT30L	PKT30N	SGT30E	SKT30N

continues...

T30 Series (13/13 Kg)							
BAT30R	BKT30F	HAT30F	HJT30N	HUT30N	PLT30E	SGT30F	SKT30R
BAT30S	BKT30L	HAT30L	HJT30R	HUT30R	PLT30L	SGT30L	SLT30E
BGT30D	BKT30N	HAT30N	HJT30S	HUT30S	PRT30E	SGT30N	SLT30L
BGT30E	BKT30R	HAT30R	HKT30E	PAT30E	PRT30S	SGT30R	SRT30E
BGT30F	BLT30E	HAT30S	HKT30F	PAT30L	PTT30E	SGT30S	SRT30S
BGT30L	BLT30L	HGT30D	HKT30L	PAT30N	PTT30L	SHT30E	STT30D
BGT30N	BRT30E	HGT30E	HKT30N	PAT30S	PTT30N	SHT30F	STT30E
BGT30R	BRT30S	HGT30F	HKT30R	PGT30E	PTT30S	SHT30L	STT30F
BGT30S	BTT30D	HGT30L	HLT30E	PGT30L	PUT30E	SHT30N	STT30L
BHT30E	BTT30E	HGT30N	HLT30L	PGT30N	PUT30F	SHT30R	STT30N
BHT30F	BTT30F	HGT30R	HRT30E	PGT30S	PUT30L	SHT30S	STT30R
BHT30L	BTT30L	HGT30S	HRT30S	PHT30E	PUT30N	SJT30D	STT30S
BHT30N	BTT30N	HHT30E	HTT30D	PHT30L	PUT30R	SJT30E	SUT30E
BHT30R	BTT30R	HHT30F	HTT30E	PHT30N	PUT30S	SJT30F	SUT30F
BHT30S	BTT30S	HHT30L	HTT30F	PHT30S	SAT30E	SJT30L	SUT30L
BJT30D	BUT30E	HHT30N	HTT30L	PJT30E	SAT30F	SJT30N	SUT30N
BJT30E	BUT30F	HHT30R	HTT30N	PJT30L	SAT30L	SJT30R	SUT30R
BJT30F	BUT30L	HHT30S	HTT30R	PJT30N	SAT30N	SJT30S	SUT30S
BJT30L							

035 Series (16 Kg)							
BA035E	BJ035M	BU035R	HJ035F	HU035L	PJ035S	SA035R	SK035E
BA035F	BJ035N	BU035S	HJ035L	HU035M	PK035E	SA035S	SK035F
BA035L	BJ035R	HA035E	HJ035M	HU035N	PK035L	SG035D	SK035L
BA035M	BJ035S	HA035F	HJ035N	HU035P	PK035N	SG035E	SK035N
BA035N	BK035E	HA035L	HJ035R	HU035R	PL035E	SG035F	SK035R
BA035R	BK035F	HA035M	HJ035S	HU035S	PL035L	SG035L	SL035E
BA035S	BK035L	HA035N	HK035E	PA035E	PR035E	SG035M	SL035L
BG035D	BK035N	HA035R	HK035F	PA035L	PR035S	SG035N	SR035E
BG035E	BK035R	HA035S	HK035L	PA035M	PT035E	SG035R	SR035S
BG035F	BL035E	HG035D	HK035N	PA035N	PT035L	SG035S	ST035D
BG035L	BL035L	HG035E	HK035R	PA035S	PT035M	SH035E	ST035E

continues...

035 Series (16 Kg)							
BG035M	BR035E	HG035F	HL035E	PG035E	PT035N	SH035F	ST035F
BG035N	BR035S	HG035L	HL035L	PG035L	PT035S	SH035L	ST035L
BG035R	BT035D	HG035M	HR035E	PG035M	PU035E	SH035M	ST035M
BG035S	BT035E	HG035N	HR035S	PG035N	PU035F	SH035N	ST035N
BH035E	BT035F	HG035R	HT035D	PG035S	PU035L	SH035R	ST035R
BH035F	BT035L	HG035S	HT035E	PH035E	PU035M	SH035S	ST035S
BH035L	BT035M	HH035E	HT035F	PH035L	PU035N	SJ035D	SU035E
BH035M	BT035N	HH035F	HT035L	PH035M	PU035R	SJ035E	SU035F
BH035N	BT035R	HH035L	HT035M	PH035N	PU035S	SJ035F	SU035L
BH035R	BT035S	HH035M	HT035N	PH035S	SA035E	SJ035L	SU035M
BH035S	BU035E	HH035N	HT035R	PJ035E	SA035F	SJ035M	SU035N
BJ035D	BU035F	HH035R	HT035S	PJ035L	SA035L	SJ035N	SU035P
BJ035E	BU035L	HH035S	HU035E	PJ035M	SA035M	SJ035R	SU035R
BJ035F	BU035M	HJ035D	HU035F	PJ035N	SA035N	SJ035S	SU035S
BJ035L	BU035N	HJ035E					

T45 Series (20/20 Kg) * Only available in gas							
BAT45L	BJT45N	BUT45R	HJT45L	HUT45L	PKT45L	SGT45D	SKT45L
BAT45N	BJT45R	HAT45L	HJT45N	HUT45N	PKT45N	SGT45L	SKT45N
BAT45R	BKT45L	HAT45N	HJT45R	HUT45R	PLT45L	SGT45N	SKT45R
BGT45D	BKT45N	HAT45R	HKT45L	PAT45L	PTT45L	SGT45R	SLT45L
BGT45L	BKT45R	HGT45D	HKT45N	PAT45N	PTT45N	SHT45L	STT45D
BGT45N	BLT45L	HGT45L	HKT45R	PGT45L	PUT45L	SHT45N	STT45L
BGT45R	BTT45D	HGT45N	HLT45L	PGT45N	PUT45N	SHT45R	STT45N
BHT45L	BTT45L	HGT45R	HTT45D	PHT45L	PUT45R	SJT45D	STT45R
BHT45N	BTT45N	HHT45L	HTT45L	PHT45N	SAT45L	SJT45L	SUT45L
BHT45R	BTT45R	HHT45N	HTT45N	PJT45L	SAT45N	SJT45N	SUT45N
BJT45D	BUT45L	HHT45R	HTT45R	PJT45N	SAT45R	SJT45R	SUT45R
BJT45L	BUT45N	HJT45D					

050 Series (25 Kg) * Only available in gas and electric							
BA050E	BJ050L	HA050L	HJ050N	HU050N	PJ050N	SA050N	SK050E
BA050L	BJ050N	HA050N	HK050E	PA050E	PK050E	SG050D	SK050L
BA050N	BK050E	HG050D	HK050L	PA050L	PK050L	SG050E	SK050N
BG050D	BK050L	HG050E	HK050N	PA050N	PK050N	SG050L	SL050E
BG050E	BK050N	HG050L	HL050E	PG050E	PL050E	SG050N	SL050L
BG050L	BL050E	HG050N	HL050L	PG050L	PL050L	SH050E	SR050E
BG050N	BL050L	HH050E	HR050E	PG050N	PR050E	SH050L	ST050E
BH050E	BR050E	HH050L	HT050E	PH050E	PU050E	SH050N	ST050L
BH050L	BU050E	HH050N	HT050L	PH050L	PU050L	SJ050D	ST050N
BH050N	BU050L	HJ050D	HT050N	PH050N	PU050N	SJ050E	SU050E
BJ050D	BU050N	HJ050E	HU050E	PJ050E	SA050E	SJ050L	SU050L
BJ050E	HA050E	HJ050L	HU050L	PJ050L	SA050L	SJ050N	SU050N

055 Series (24 Kg) * Only available in gas and electric							
BA055E	BJ055L	BU055L	HJ055D	HT055R	PK055L	SG055D	SK055F
BA055F	BJ055N	BU055N	HJ055E	HU055E	PK055N	SG055E	SK055L
BA055L	BJ055R	BU055R	HJ055F	HU055F	PL055E	SG055F	SK055N
BA055N	BK055E	HA055E	HJ055L	HU055L	PL055L	SG055L	SK055R
BA055R	BK055F	HA055F	HJ055N	HU055N	PR055E	SG055N	SL055E
BG055D	BK055L	HA055L	HJ055R	HU055R	PT055E	SG055R	SL055L
BG055E	BK055N	HA055N	HK055E	PA055E	PT055L	SH055E	SR055E
BG055F	BK055R	HA055R	HK055F	PA055L	PT055N	SH055F	ST055D
BG055L	BL055E	HG055D	HK055L	PA055N	PU055E	SH055L	ST055E
BG055N	BL055L	HG055E	HK055N	PG055E	PU055F	SH055N	ST055F
BG055R	BR055E	HG055F	HK055R	PG055L	PU055L	SH055R	ST055L
BH055E	BT055D	HG055L	HL055E	PG055N	PU055N	SJ055D	ST055N
BH055F	BT055E	HG055N	HL055L	PH055E	PU055R	SJ055E	ST055R
BH055L	BT055F	HG055R	HR055E	PH055L	SA055E	SJ055F	SU055E
BH055N	BT055L	HH055E	HT055D	PH055N	SA055F	SJ055L	SU055F
BH055R	BT055N	HH055F	HT055E	PJ055E	SA055L	SJ055N	SU055L
BJ055D	BT055R	HH055L	HT055F	PJ055L	SA055N	SJ055R	SU055N
BJ055E	BU055E	HH055N	HT055L	PJ055N	SA055R	SK055E	SU055R

continues...

055 Series (24 Kg) * Only available in gas and electric

BJ055F	BU055F	HH055R	HT055N	PK055E			
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T55 Series (24/24 Kg) * Only available in gas

BAT55L	BLT55L	HAT55N	HLT55L	PAT55L	PLT55L	SAT55N	SLT55L
BAT55N	BTT55D	HJT55D	HTT55D	PAT55N	PTT55L	SJT55D	STT55D
BJT55D	BTT55L	HJT55L	HTT55L	PJT55L	PTT55N	SJT55L	STT55L
BJT55L	BTT55N	HJT55N	HTT55N	PJT55N	PUT55L	SJT55N	STT55N
BJT55N	BUT55L	HKT55L	HUT55L	PKT55L	PUT55N	SKT55L	SUT55L
BKT55L	BUT55N	HKT55N	HUT55N	PKT55N	SAT55L	SKT55N	SUT55N
BKT55N	HAT55L						

075 Series (34 Kg) * Only available in gas and electric

BA075E	BJ075L	BU075N	HJ075D	HT075R	PJ075M	SA075R	SK075E
BA075F	BJ075M	BU075R	HJ075E	HU075E	PJ075N	SG075D	SK075F
BA075L	BJ075N	HA075E	HJ075F	HU075F	PK075E	SG075E	SK075L
BA075M	BJ075R	HA075F	HJ075L	HU075L	PK075L	SG075F	SK075N
BA075N	BK075E	HA075L	HJ075M	HU075M	PK075N	SG075L	SK075R
BA075R	BK075F	HA075M	HJ075N	HU075N	PR075E	SG075M	SL075E
BG075D	BK075L	HA075N	HJ075R	HU075R	PT075E	SG075N	SL075L
BG075E	BK075N	HA075R	HK075E	PA075E	PT075L	SG075R	SR075E
BG075F	BK075R	HG075D	HK075F	PA075L	PT075M	SH075E	ST075D
BG075L	BR075E	HG075E	HK075L	PA075M	PT075N	SH075F	ST075E
BG075M	BT075D	HG075F	HK075N	PA075N	PU075E	SH075L	ST075F
BG075N	BT075E	HG075L	HK075R	PG075E	PU075F	SH075M	ST075L
BG075R	BT075F	HG075M	HL075E	PG075L	PU075L	SH075N	ST075M
BH075E	BT075L	HG075N	HL075L	PG075M	PU075M	SH075R	ST075N
BH075F	BT075M	HG075R	HR075E	PG075N	PU075N	SJ075D	ST075R
BH075L	BT075N	HH075E	HT075D	PH075E	PU075R	SJ075E	SU075E
BH075M	BT075R	HH075F	HT075E	PH075L	SA075E	SJ075F	SU075F
BH075N	BU075E	HH075L	HT075F	PH075M	SA075F	SJ075L	SU075L
BH075R	BU075F	HH075M	HT075L	PH075N	SA075L	SJ075M	SU075M

continues...

075 Series (34 Kg) * Only available in gas and electric							
BJ075D	BU075L	HH075N	HT075M	PJ075E	SA075M	SJ075N	SU075N
BJ075E	BU075M	HH075R	HT075N	PJ075L	SA075N	SJ075R	SU075R
BJ075F							

120 Series (55 Kg) * Only available in gas							
HT120L	HT120N	ST120L	ST120N				

030 (13/13 Kg) Stacked Washer-Extractor/Tumble Dryer * Only available in gas and electric							
BSA030E	BSU030N	HSK030L	PSG030L	SS030L-A	SSA030E	SSJ030D	SST030N
BSA030N	HSA030E	HSK030N	PSG030N	SS030N-A	SSA030N	SSK030L	SSU030E
BSG030E	HSA030N	HST030N	PSU030E	SS030E-B	SSD030L	SSK030N	SSU030L
BSG030L	HSG030E	PSA030E	PSU030N	SS030F-B	SSG030E	SST030E	SSU030N
BSG030N	HSG030L	PSA030N	SS030E-A	SS030L-B	SSG030L	SST030L	
BSU030E	HSG030N	PSG030E	SS030F-A	SS030N-B	SSG030N		

050 (22/22 Kg) Stacked Washer-Extractor/Tumble Dryer * Only available in gas							
BSA050E	HSA050E	HSK050N	PSG050L	SS050L-A	SS050N-B	SSG050L	SST050L
BSA050N	HSA050N	HST050N	PSG050N	SS050N-A	SSA050E	SSG050N	SST050N
BSG050L	HSG050L	HSU050E	PSK050N	SS050E-B	SSA050N	SSJ050D	SSU050E
BSG050N	HSG050N	PSA050E	PSU050E	SS050F-B	SSD050E	SSK050L	SSU050N
BSU050E	HSK050L	PSA050N	PSU050N	SS050L-B	SSD050L	SSK050N	
BSU050N							

Heater Digit (Position 6)
D - Liquid Petroleum (L.P.) Gas, Japan
E - Electric
F - Reduced Electric (Eco Line)
L - L.P. Gas
M - Medium Electric
N - Natural Gas

continues...

Heater Digit (Position 6)
P - Low Electric
R - Reduced Gas, Natural Gas (Eco Line)
S - Steam

Vended Control Suffixes		
Control Digit (position 7)	Actuation Digit (position 8)	Example Control Suffix Combination
V - Touch	C - Single Coin Drop D - Dual Coin Drop E - Electronic Coin Drop F - Single Coin Drop + CD Lock and Key H - Electronic Coin Drop + CD Lock and Key L - Prep for Central Pay Q - Dual Coin Drop + CD Lock and Key T - Token Drop V - Token Drop + CD Lock and Key X - Prep for Coin Y - Prep for Card	VC - Touch, Single Coin Drop VX - Touch, Prep for Coin

Design Digit (Position 13)
Tumble Dryer - 4, 5, 6
Stacked Washer-Extractor/Tumble Dryer - 1, 2, 3

Position 16
C - ProCapture TM (Advanced lint collection system)

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** screen includes the machine's model and serial number.

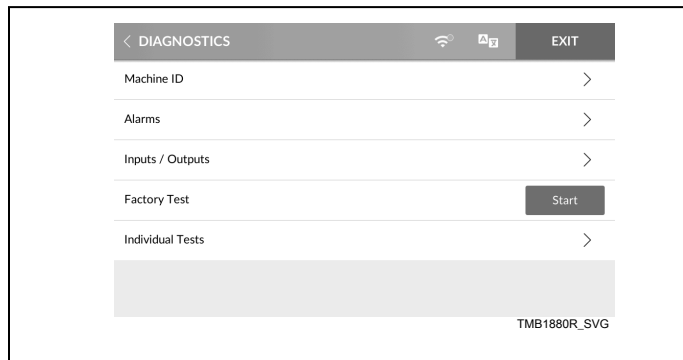


Figure 1

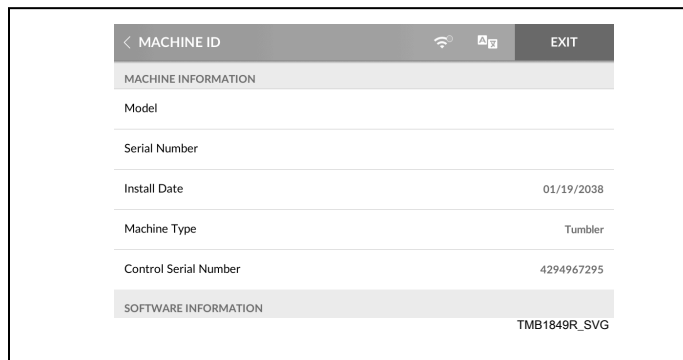


Figure 2

Always provide the machine's serial number and model number when ordering parts or when seeking technical assistance. Refer to *Figure 3* or *Figure 4*.

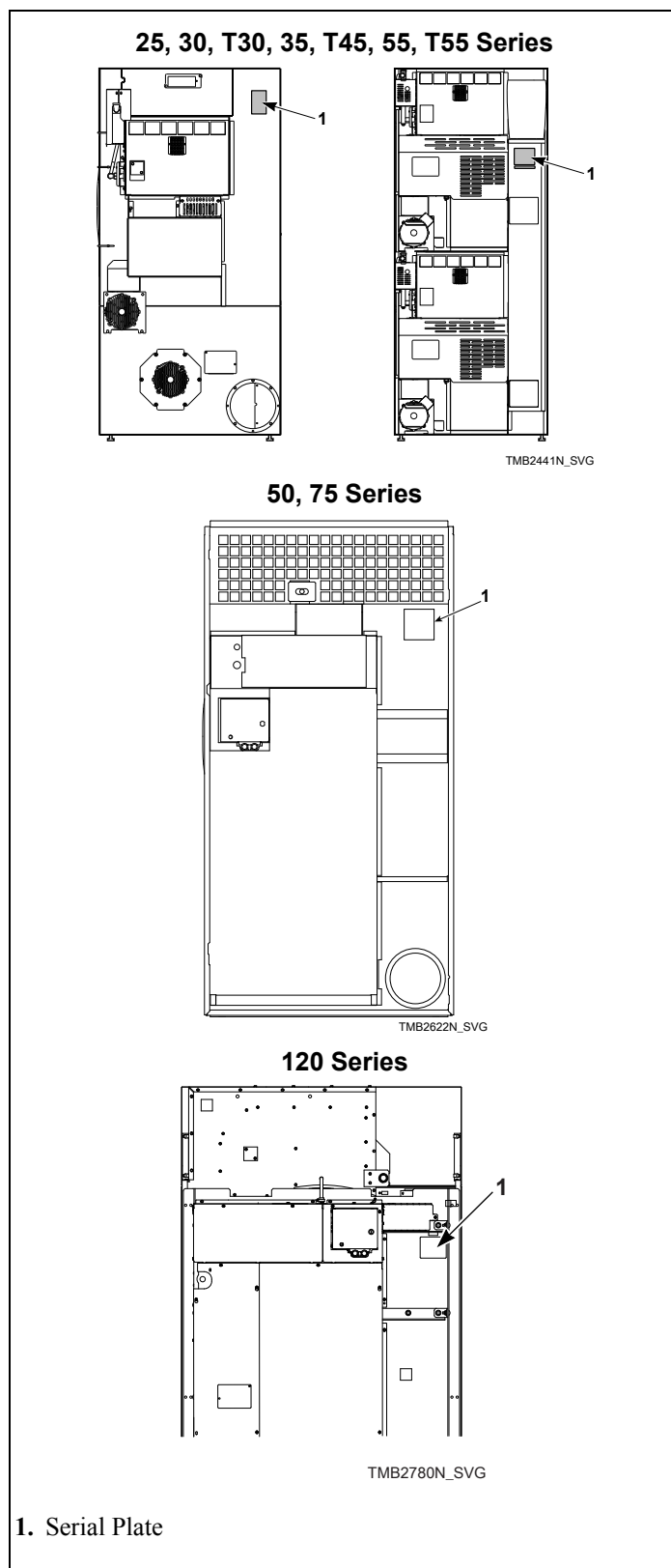
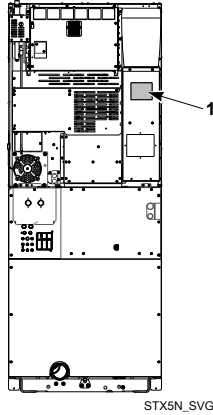


Figure 3

030, 050 Stacked Washer-Extractor/Tumble Dryer

1. Serial Plate

Figure 4

If service or replacement parts are needed, contact the source from where you purchased your unit. If you are unable to locate an authorized service center, navigate to <https://alliance-laundry.com/contact/> for the nearest Alliance Laundry Systems office for assistance.

When calling or writing about your unit, PLEASE GIVE THE MODEL AND SERIAL NUMBERS. The model and serial numbers are located on the serial plate. The serial plate will be in the location shown in *Figure 3*.

Date Purchased _____

Model Number _____

Serial Number _____

Please include a copy of your bill of sale and any service receipts you have.

**WARNING**

To reduce the risk of serious injury or death, DO NOT repair or replace any part of the unit or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that you understand and have the skills to carry out.

W329

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 *IR Communications* and *Wi-Fi Communications*.

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

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.

IR Communications

The control has the ability to communicate with a PC with an IrDA device running the control software. Devices such as PCs that are IrDA capable (able to transmit information to machine) that have been tested and approved for use with the control software can be used as a tool for managing the machine.

IR Communications Menu

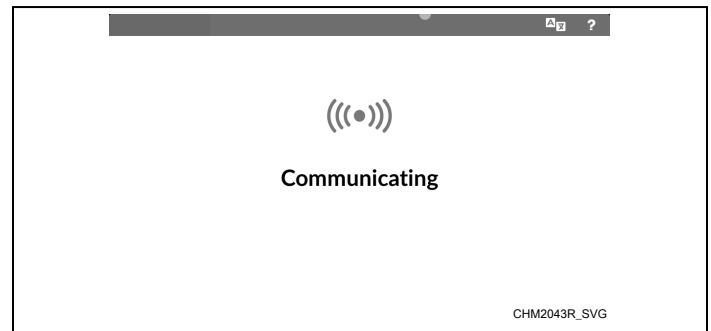


Figure 5

The IR Communications Menu displays while the control is communicating with a PC. The control will return to the previous page when the communication is complete.

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.

Audit Information

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

Using IR communication or 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

Break-In Alarm

The Break-In Alarm allows the owner to program the machine to set a *Break-In Alarm Error* if the Service Door or Coin Vault is opened without first disabling the alarm.

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

If enabled in programming, this option allows the owner to require a passcode to gain access to rapid advance, *Diagnostics Menu*, *Drop Off Mode*, *Lockout Mode*, *Settings Menu* and *Reset Menu*.

To disable passcode protection to the various *System Menu* sub-sections, programming through 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. Cycle names can be programmed individually and therefore do not change automatically when a new language is selected.

Lucky Cycle

The Lucky Cycle option allows the owner to program the machine to provide a free or reduced vend cycle to users after a programmed number of machine cycles have occurred or on certain dates and times. Refer to *Lucky Cycle Mode* for more information.

Special Vend

The Special Vend option allows the owner to set a special vend price or free vend between specific times of day, days of week, dates, months and years. The owner can program the control for up to eight (8) Special Vends periods. The owner can manually program Special Vend 1 and can only enable or disable Special Vends 2-8. Full programming of all Special Vends requires the use of a PC. Refer to the *System Menu* for manual programming.

Reversing

If enabled, the reversing feature will rotate in the forward direction, pause, rotate in the reverse direction and then pause

for programmable times and segments of the cycle. Factory default reversing rotate time is 30 seconds and reversing stop time is 6 seconds for all cycles with reversing enabled.

Anti-Wrinkle

This machine includes an anti-wrinkle tumble feature, which can be disabled. Two minutes after the cycle ends, the machine enters anti-wrinkle and will tumble without heat for 30 seconds every two minutes for up to an hour or until the door is opened.

Screen Saver

If enabled, screen saver promotes display longevity. This feature activates only while control is not being used, running cycles or diagnostics and after 4:15 minutes of idle time. This feature is enabled by default and can be disabled.

Approach Page Custom Message

When set in programming, the Approach Page can display a customized message up to 52 characters in length (including spaces), in place of the text "Dryer Ready". This message will not be translated if the user selects a different language. Must also have Approach Page enabled in programming.

Out of Order Mode

Set control to Out of Order Mode to temporarily restrict/block operator of machine when shutting the machine down is undesired.

Airflow Optimization (ProCapture models only)

The control will regulate the fan speed based on information received from the input/output board. The spin speed will increase or decrease, within a defined range between the maximum and minimum spin speeds, depending how the current temperature reading compares to the previous temperature reading. This feature is only available if the second thermistor is installed and the control is configured for it and only happens in Run Mode for heat cycles during the drying phase. If the thermistor reaches its high limit, the heat will turn off and remain off until the thermistor reaches its low limit. If the control is not able to read a temperature from the input/output board, the control will not use Airflow Optimization and will set the fan to its nominal spin speed.

Is Lint Cleaned User Prompt (ProCapture models only)

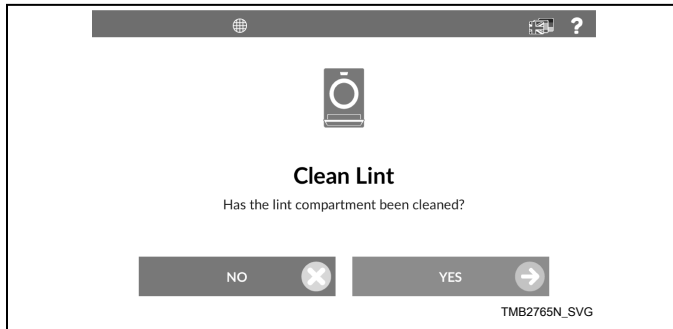


Figure 6

If user opens lint door/drawer (with loading door closed), "Has the lint compartment been cleaned?" screen shows. Press "NO" and display returns to previous "Clean Lint" screen. An error audio signal will sound if user presses "YES" and the lint has not been cleaned. The control will exit Clean Lint Mode once the lint has been cleaned and "YES" is pressed. The control will also clear/reset the Lint Indicator icon and counters associated with displaying the Lint Indicator icon and setting Clean Lint Mode (if lint has been cleaned and "YES" is pressed).

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.

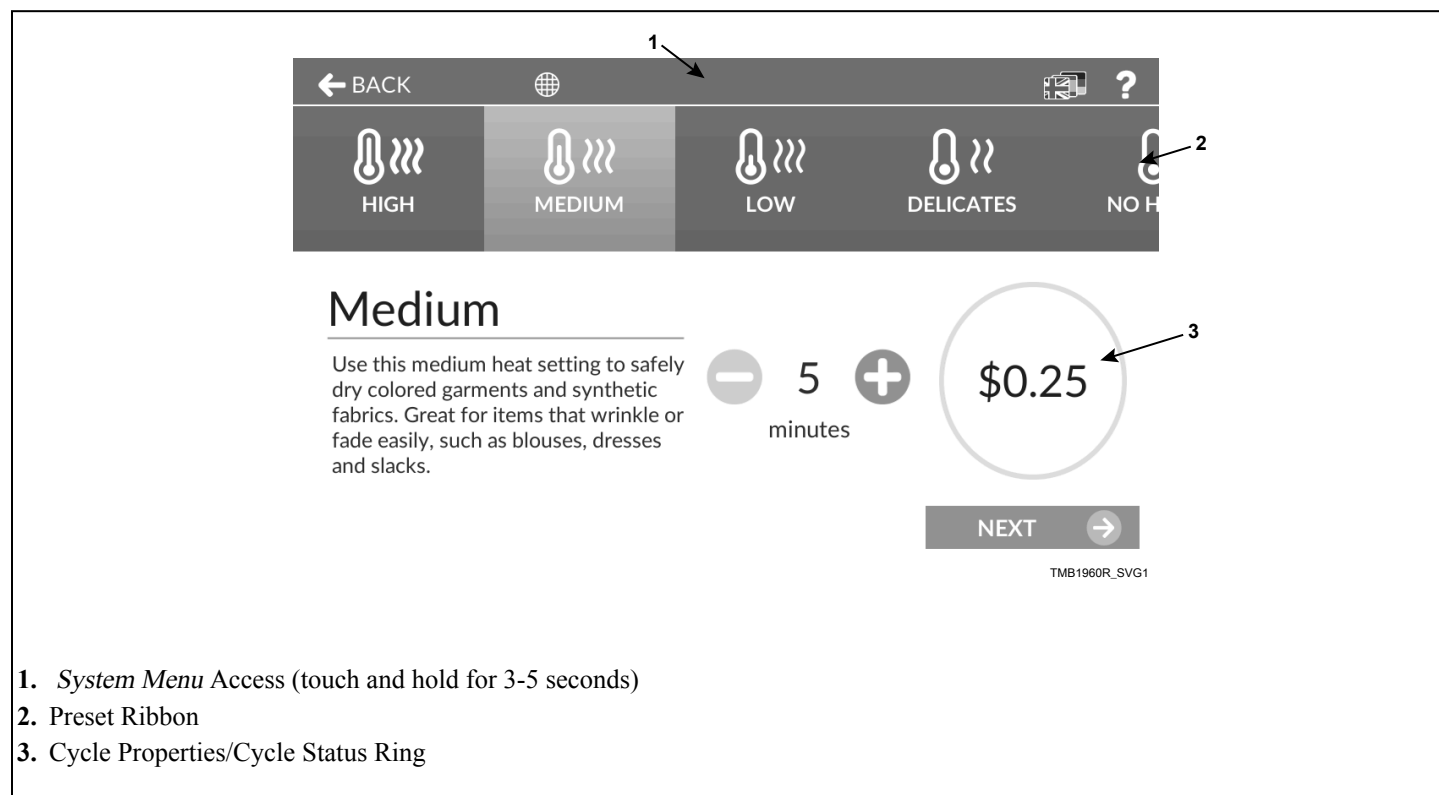


Figure 7

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.
Help	Touch to display the <i>Help Menu</i> showing (if programmed in the <i>Settings Menu</i>) staff contact phone number, machine operating instructions and common questions.
Lint Indicator	Only shows when lint needs to be cleaned. Touch icon to display "Clean Lint" and "Thank You", with a DISMISS button. Dismiss will exit Clean Lint display and return to previous mode display. This icon is not visible in the <i>Settings Menu</i> .

Table 1

continues...

Icon*		Description
Wi-Fi Signal Strength		Shows the connectivity status and signal strength of the Wi-Fi connection. This icon is only shown in the <i>System Menu</i> . 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.

Lockout Mode

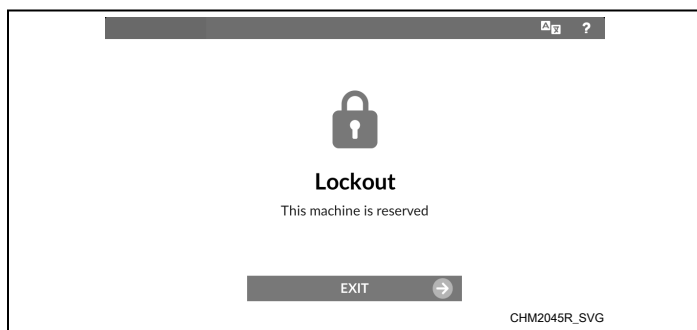


Figure 8

This feature prevents the machine from being used except by a particular user who has reserved the machine in advance. If a user pays or reserves a machine from a kiosk or central pay system, the machine enters Lockout Mode and the user is given a passcode to unlock the reserved machine. This guarantees that the user does not need to wait for an available machine or risk that the selected machine is taken after vend is added.

To access the reserved machine, touch EXIT and enter the passcode. If the passcode is entered correctly, the control displays the *Cycle Preset Page*.

If programmed, the machine enters Lockout Mode when the current time falls within the time period set in the Lockout parameters and the machine has either not received any vend or is configured for free vend. If the lockout time occurs during a cycle, the machine waits until the cycle ends, then enters Lockout Mode if the time is still within the programmed time period. The control automatically exits Lockout Mode when the Lockout Duration time has elapsed.

To exit Lockout, send a command via PC connection, program the Lockout Duration to 0, or enter the Lockout Unlock Pass-

code.

The control limits access to certain features while in Lockout Mode. Audit counters (refer to *Audit Data Menu*), manual programming (refer to *Settings Menu*) and communication via an external device (IR, network, payment system, etc) are available. The control will also display errors as usual. The *Diagnostics Menu* and *Rapid Advance Activation* are not available during Lockout Mode.

Drop Off Mode

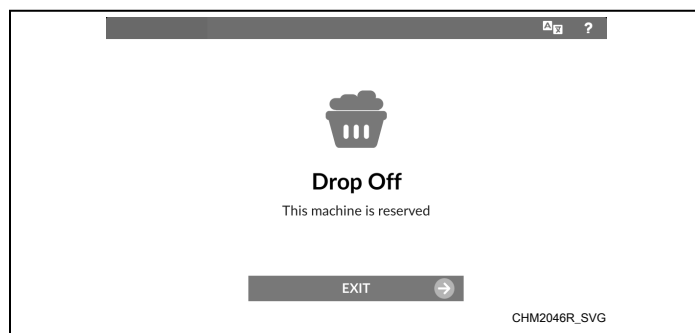


Figure 9

This feature allows the owner to limit machine use to an attendant without requiring vend. The attendant accesses the machine by entering the programmed Drop Off Passcode.

To access the machine in Drop Off Mode, touch EXIT and enter the passcode. If the passcode is entered correctly, the control displays the *Cycle Preset Page*.

The machine enters Drop Off Mode when enabled in programming. To exit, disable Drop Off Mode in programming.

The *Diagnostics Menu* and *Rapid Advance Activation* are not available during Drop Off Mode.

Machine Error Mode

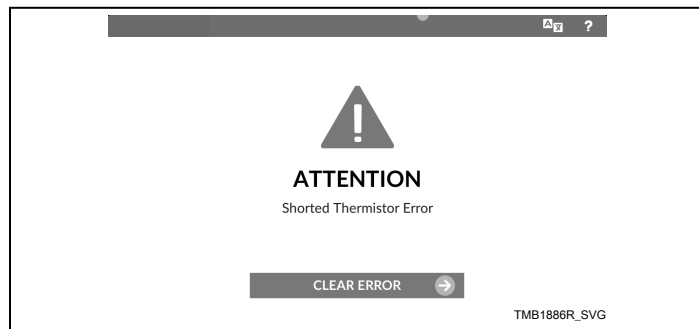


Figure 10

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.

Shutdown Mode

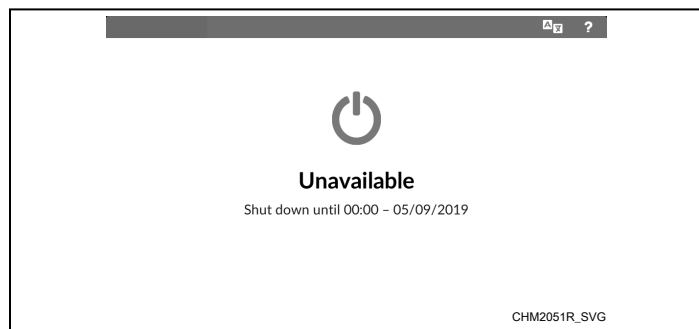


Figure 11

The shutdown option allows the owner to program the machine to enter Shutdown Mode for a certain time and date range. The control displays "Unavailable" and ignores all screen touches and vend additions. The *Language Selection Panel*, *Settings Menu* and *Help Menu* are accessible while in Shutdown Mode.

The control enters Shutdown Mode at the start date and time set in programming and takes priority over other modes of operation. The control remains in Shutdown Mode until the end date and time set in programming.

The control cannot enter Shutdown Mode if running a cycle, in *Lockout Mode* or if vend has been added. The control will enter Shutdown Mode once those conditions are cleared.

Out of Order Mode

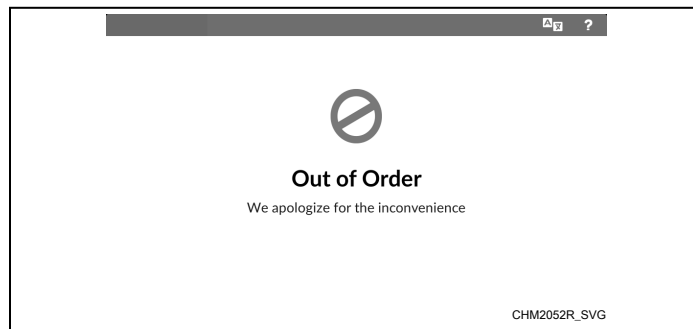


Figure 12

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

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

Rapid Advance Mode

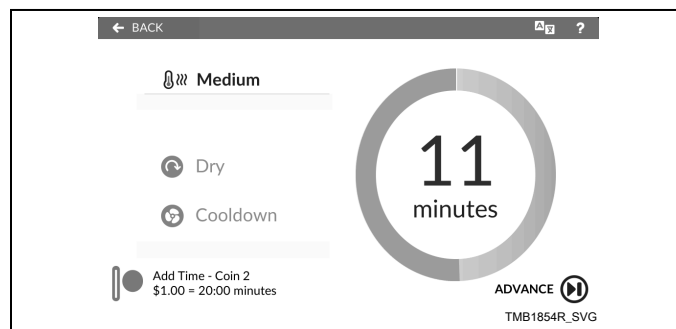


Figure 13

While in Manual Rapid Advance during a running cycle, the remaining cycle time may be reduced by pressing the Rapid Advance Icon. Individual presses of the Rapid Advance Icon will reduce the cycle time by one minute. If the Rapid Advance Icon is pressed and held in, the time remaining will be reduced at a rate of 2 minutes per second for the first 2 seconds. If the Rapid Advance Icon is still held in after that, the time will be reduced at a rate of 10 minutes per second. The user may release the icon to stop advancing through the cycle and the cycle will continue normally from that point on. They may press the icon again to advance further through the cycle as described. Time may be reduced all the way to the end of the cycle using the options described.

Anti-Wrinkle Mode

The cycle will enter Anti-Wrinkle Mode two (2) minutes after the cycle has ended. The display will show "Anti-Wrinkle". Upon entering Anti-Wrinkle Mode, the control will increment the Total Number of Extended Tumble Cycles audit counter. The control will continue to show the End of Cycle Mode display. During the Anti-Wrinkle portion, the control, if enabled

will sound an audio warning prior to turning on the motor for 30 seconds every two (2) minutes.

The dryer will remain in this mode for up to 1 hour, or until the door is opened, a key is pressed, a coin is entered, a vend payment is received (network or payment system), or a start pulse is received. When the Anti-Wrinkle Mode timer expires the control increments the Anti-Wrinkle Exceeded audit counter and enters Extended Tumble Mode. If the door is opened, a key is pressed, a coin is entered, a vend payment is received (network or payment system), or a start pulse is received before Anti-Wrinkle Mode expires, the control will enter Ready Mode, Partial Vend Mode or Start Mode if a free Special Vend is active. Anti-Wrinkle Mode is not included in the Total Operating Minutes counter.

Extended Tumble Mode

Extended Tumble Mode is entered after Anti-Wrinkle Mode has finished. The display will show "Extended Tumble". During the Extended Tumble, the control will turn on the motor for 2 minutes every 1 hour. If the extended tumble audio option is enabled, the control will beep for five seconds and then stay solid for five seconds prior to turning on the motor.

The control will remain in this mode for up to 18 hours, or until the door is opened, a key is pressed, a coin is entered, a vend payment is received (network or payment system), or a start pulse is received. When the Extended Tumble timer expires the control will remain in Extended Tumble Mode. If the door is opened, a key is pressed, a coin is entered, a vend payment is received (network or payment system), or a start pulse is received before Extended Tumble Mode expires, the control will enter Ready Mode, Partial Vend Mode or Start Mode. Extended Tumble Mode is not included in the Total Operating Minutes counter.

	WARNING
Disabling this feature may lead to overheating of clothes, which may lead to spontaneous combustion and fire. By disabling this feature, you hereby release and hold harmless Alliance Laundry Systems LLC of any damages caused by fire, including but not limited to, property damage, personal injury or death, and agree to indemnify Alliance Laundry Systems LLC from in any proceeding or cause of action related to such action.	
W960	

Clean Lint Mode (ProCapture models only)

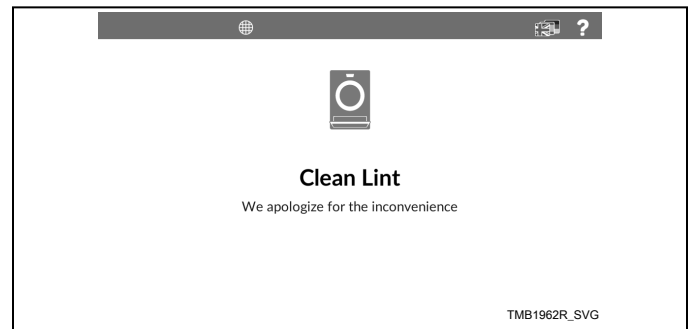


Figure 14

The control enters this mode only from Ready Mode and Start Mode when too many cycles have passed after lint compartment has not been cleaned. The display will show "Clean Lint" and "We Apologize for the Inconvenience" with no Back, Home or User Message page icons. Lint Indicator icon should show but not function. The user can go to Manual Mode and run some diagnostics but will not be able to run a cycle until lint is cleaned and "Has the lint compartment been cleaned?" prompt is confirmed with "YES". Refer to *Is Lint Cleaned User Prompt (ProCapture models only)* section for details on how to clear Clean Lint Mode.

Menu Navigation

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

Cycle Menu Navigation

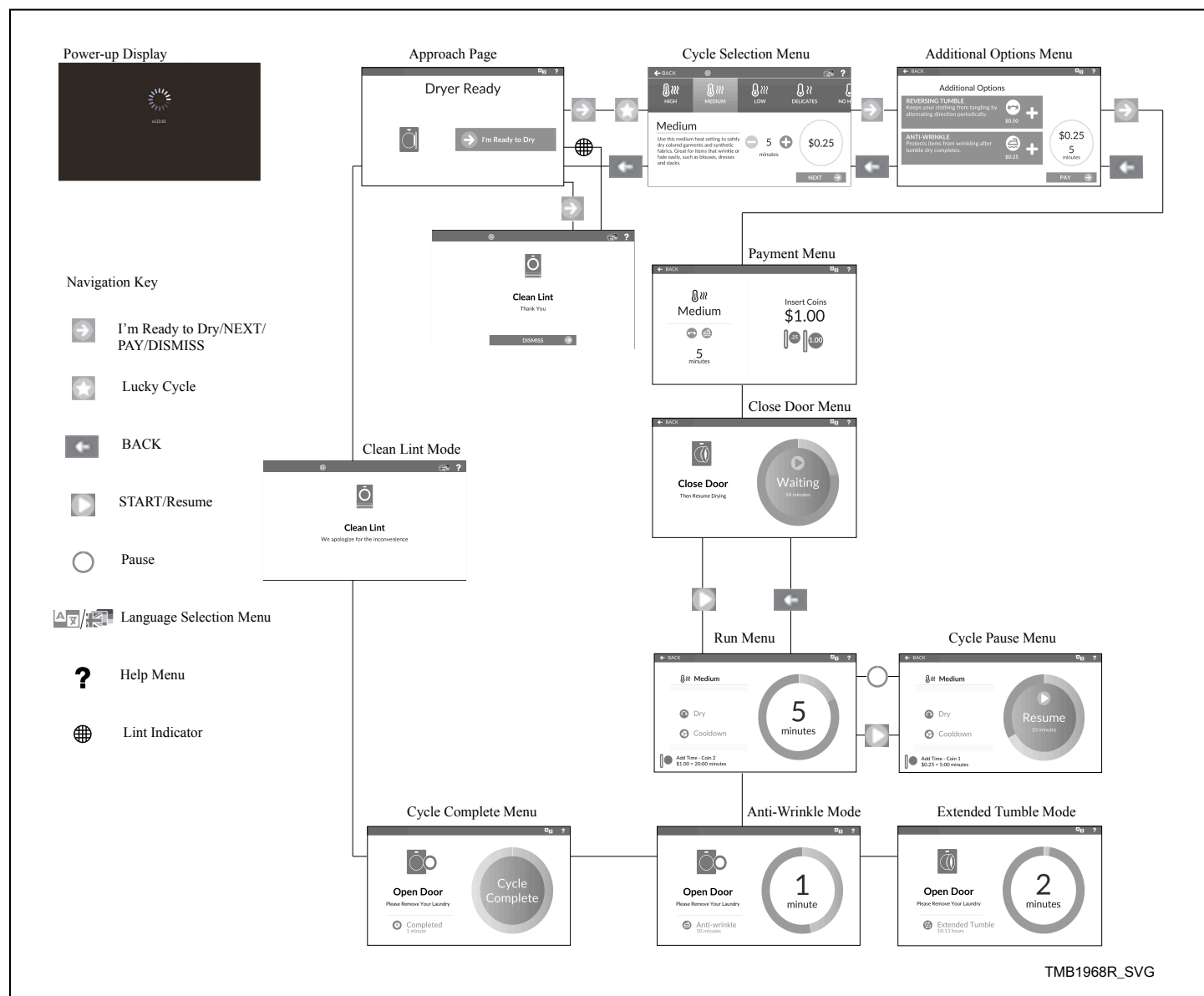


Figure 15

```
graph LR
    subgraph Main_Menu [Main Menu]
        direction TB
        SM[SYSTEM MENU]
        P[*PASSCODE  
(bypassed if dissabled)]
        RA[RAPID ADVANCE]
        CC[CANCEL CYCLE]
        EP[ERROR PRESENT]
        PV[PARTIAL VEND PRESENT]
        AD[AUDIT DATA]
        SS[SERVICE SCHEDULE]
        R[RESET]
    end

    SM --- RA
    SM --- CC
    SM --- EP
    SM --- PV
    SM --- AD
    SM --- SS
    SM --- R

    P --- P_desc["(bypassed if dissabled)"]

    RA --- RA_desc[Activate]
    CC --- CC_desc[Cancel]
    EP --- EP_desc[Clear]
    PV --- PV_desc[Clear]

    AD --- AD_desc["Machine Totals  
Resetable Counters  
Other Metrics  
Individual Cycle Counts"]
    SS --- SS_desc["Daily  
Monthly  
Yearly"]
    R --- R_desc[Global Settings]

    PV --- SETTINGS[SETTINGS]
    SETTINGS --- Vend[Vend Settings]
    SETTINGS --- Basic[Basic Settings]
    SETTINGS --- Machine[MACHINE SETTINGS]
    SETTINGS --- Cycle[Cycle Settings]

    Machine --- Machine_desc["Machine Con-figuration  
Approach Screen  
Custom Ap-proach Mes-sage  
Errors  
Pocket Indica-tor  
Heating Indi-cator  
Connection Settings  
Modes  
Output Signals  
Lint Indicator"]

    Machine --- BASIC[BASIC SET-TINGS]
    BASIC --- BASIC_desc["Language Set-tings  
Time and Date  
Temperature Units  
Display Set-tings  
Audio Signal  
Time Display  
Cycle Com-plete Timer"]

    Machine --- CYCLE[CYCLE SET-TINGS]
    CYCLE --- CYCLE_desc["Default Cycle  
Cycle Time  
Cycle Temper-atures  
Cool Down Times  
Reversing  
Anti-Wrinkle  
Extended Tumble  
Other Settings"]

    PV --- VEND[VEND SET-TINGS]
    VEND --- VEND_desc["Currency  
Payment Set-tings  
Vend Price  
Display Over-ride  
Vend Prices  
Vend Price Modifiers  
Top-Off Set-tings  
Cycle Modifi-er Settings  
Lucky Cycle  
Special Vend"]

    PV --- DIAG[DIAGNOS-TICS]
    DIAG --- DIAG_desc["Machine ID  
Alarms  
Inputs/Outputs  
Factory Test  
Individual Tests"]
```

SYSTEM MENU

- Rapid Advance*
- Cancel Cycle
- Error Present
- Partial Vend Pre-sent
- Settings*
- Audit Data
- Diagnostics*
- Service Sched-ule
- Reset*

***PASSCODE**
(bypassed if dissabled)

RAPID ADVANCE
Activate

CANCEL CY-CLE
Cancel

ERROR PRE-SENT
Clear

PARTIAL VEND PRE-SENT
Clear

AUDIT DATA
Machine Totals
Resetable Counters
Other Metrics
Individual Cycle Counts

SERVICE SCHEDULE
Daily
Monthly
Yearly

RESET
Global Settings

SETTINGS
Vend Settings
Basic Settings
Machine Set-tings
Cycle Settings

MACHINE SETTINGS
Machine Con-figuration
Approach Screen
Custom Ap-proach Mes-sage
Errors
Pocket Indica-tor
Heating Indi-cator
Connection Settings
Modes
Output Signals
Lint Indicator

BASIC SET-TINGS
Language Set-tings
Time and Date
Temperature Units
Display Set-tings
Audio Signal
Time Display
Cycle Com-plete Timer

CYCLE SET-TINGS
Default Cycle
Cycle Time
Cycle Temper-atures
Cool Down Times
Reversing
Anti-Wrinkle
Extended Tumble
Other Settings

VEND SET-TINGS
Currency
Payment Set-tings
Vend Price
Display Over-ride
Vend Prices
Vend Price Modifiers
Top-Off Set-tings
Cycle Modifi-er Settings
Lucky Cycle
Special Vend

DIAGNOS-TICS
Machine ID
Alarms
Inputs/Outputs
Factory Test
Individual Tests

Opening the Service Door

The service door must be opened to manually program the control.

NOTE: If the *Break-In Alarm* is enabled in programming, it must be disabled before opening the top cover. For more information on using the *Break-In Alarm*, refer to the instructions included with the external device.

After opening the service door, the operator has 4 minutes and 15 seconds to begin programming. If the correct passcode is not entered in that time, the control will not accept operator programming. Should this happen, open the service door again to trip the switch and allows access to the programming options.

Stacked Tumble Dryer and Stacked Washer-Extractor/Tumble Dryer

Open service door and disconnect bullet connector located between the "white/black" and "red/blue" wires for one second, then reconnect.

Stand Alone Tumble Dryer

Unlock access panel over control and remove.

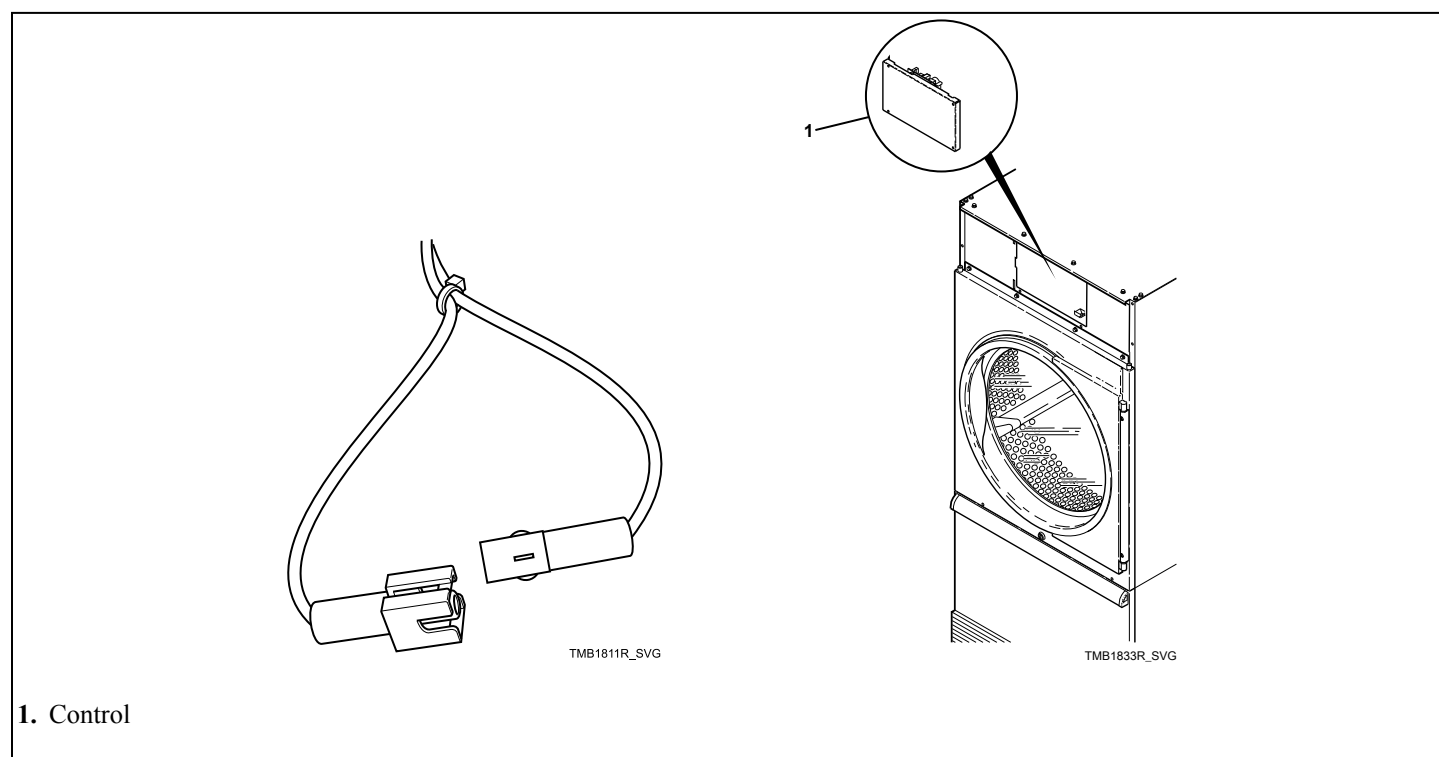


Figure 16

Machine Cycle Definition and Operation

Machine Cycle Operation

For heat cycles, the control will run the cycle with heat until the programmed cool down time. No heat cycles run the programmed no heat cycle time.

Power-Up Display

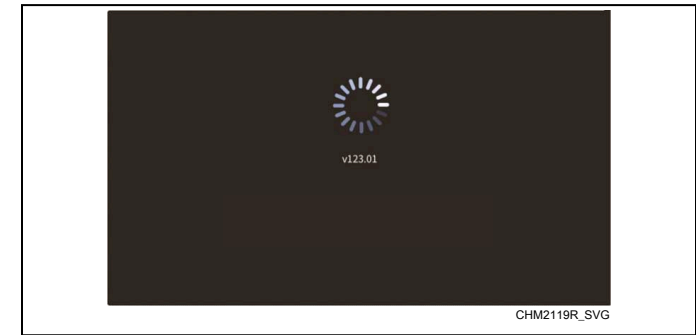


Figure 17

Cycle Selection Options

Approach Page

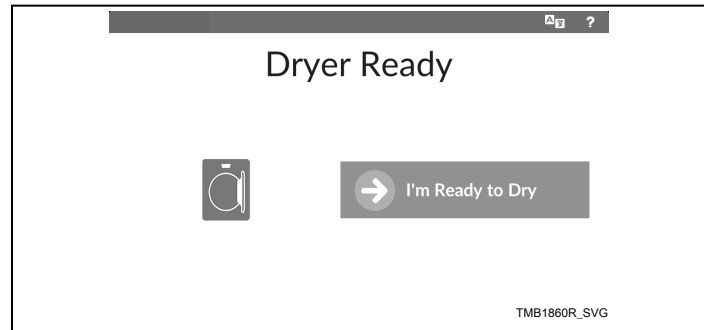


Figure 18

After power-up, the control automatically enters the Approach Page, if enabled. Access to the *Help Menu* (?) and *Language Selection Panel* (A/V /) are available on this and all other cycle selection sub-menus.

Cycle Preset Page

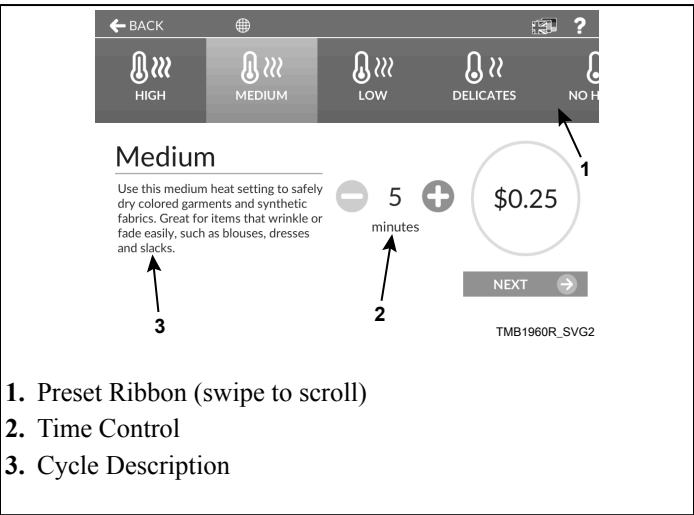


Figure 19

The Cycle Preset Page allows the user to select a preset temperature by touching the icon in the preset ribbon.

The user can change the programmed time setting for any cycle by touching $-$ and $+$ on the Time Control, if enabled. If disabled, $-$ and $+$ will not be shown.

Help Menu

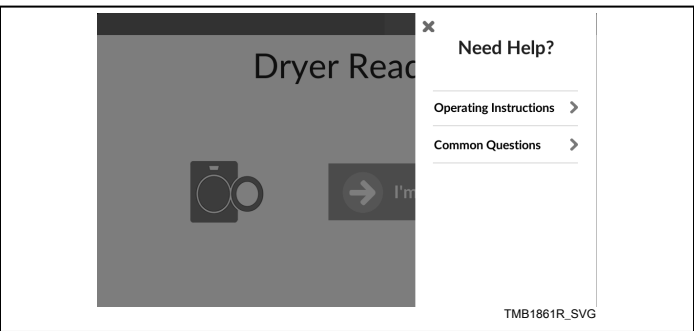


Figure 20

The Help Menu displays over the top of the current menu. If programmed, this menu includes staff contact phone number, machine operating instructions and common questions.

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

Touch $\times$ or the masked area to close the menu.

Language Selection Panel

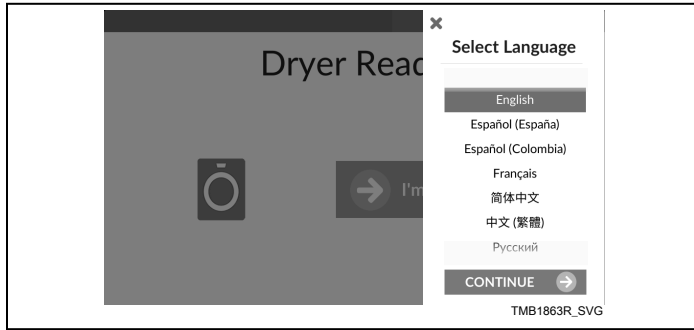


Figure 21

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. From the Approach Page, select "I'm Ready to Dry" (refer to Figure 22).

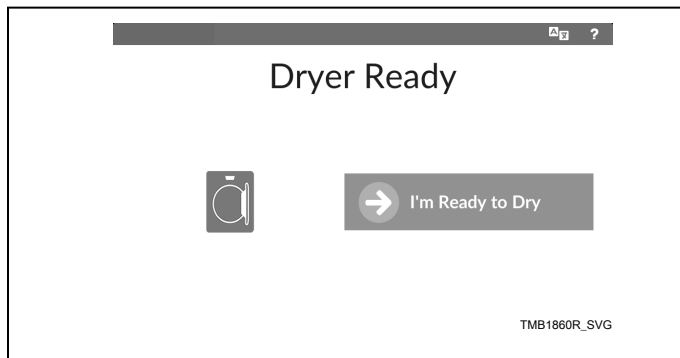


Figure 22

NOTE: Touch  to make additional changes on a previous menu.

2. Select a cycle from the cycle options menu *Cycle Preset Page*. Select the desired time, then touch NEXT (refer to Figure 23).

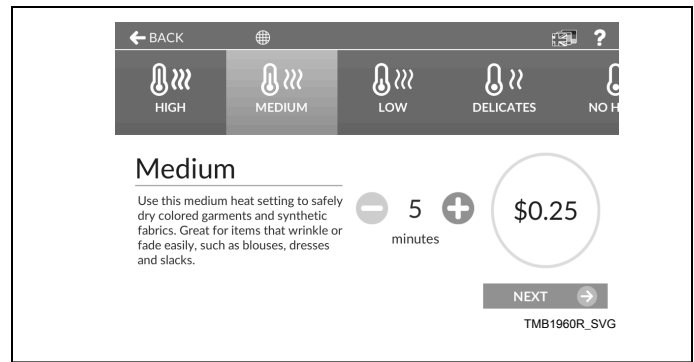


Figure 23

3. If programmed, select desired options from the Additional Options Menu. The vend price and cycle time changes accordingly. When finished adding options, touch PAY (refer to Figure 24).

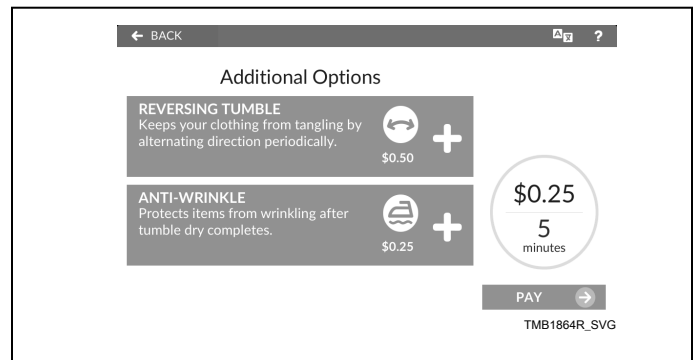


Figure 24

4. The Payment Menu shows the cycle selection summary and vend price total (refer to Figure 25). Once the total vend price is entered, the vend price total changes to show START. Touch START to begin the cycle.

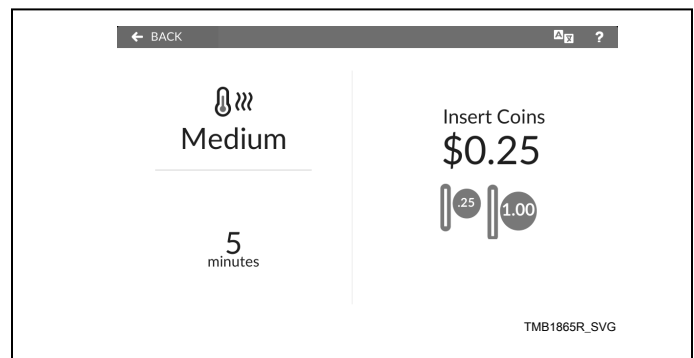


Figure 25

NOTE: If the door is open, the *Close Door Menu* shows until the door is closed.

5. The control displays the *Run Menu* until the cycle is complete.

Close Door Menu

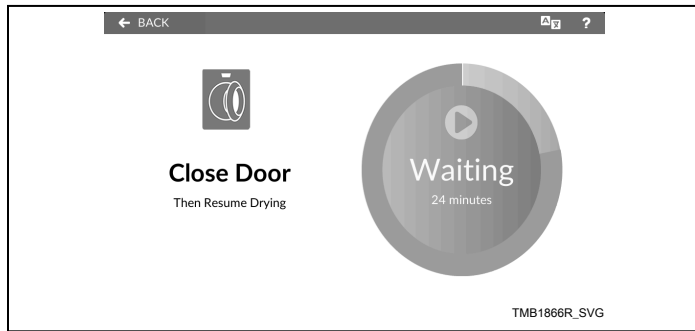


Figure 26

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

Run Menu

The Run Menu displays the cycle name, status, cycle step list and remaining cycle time while the cycle is in process. It also shows top-off time, if enabled. Refer to *Figure 27*.



Figure 27

Touch **▶** to Rapid Advance.

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

Cycle Pause Menu

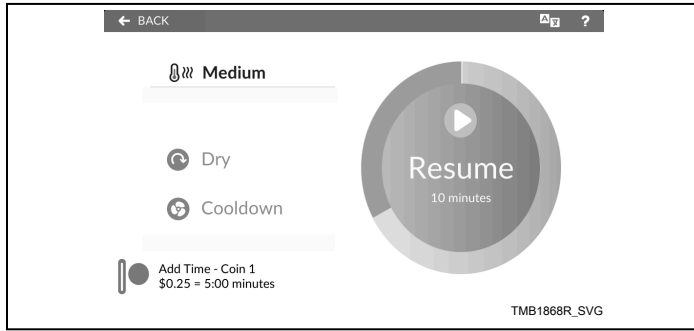


Figure 28

The Cycle Pause Menu displays when a running cycle is paused by opening and closing the door. The time shown below "Resume" is remaining cycle time. This time will count down.

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

Cycle Complete Menu

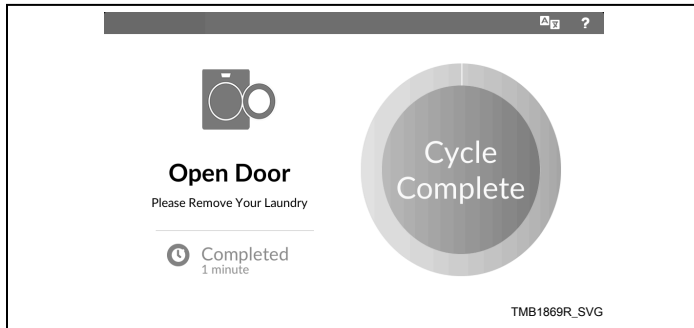


Figure 29

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.

For stack machines, the display shows a stack unit and indicates which pocket is complete.

The control returns to *Approach Page* when the user opens the

loading door.

Anti-Wrinkle Mode

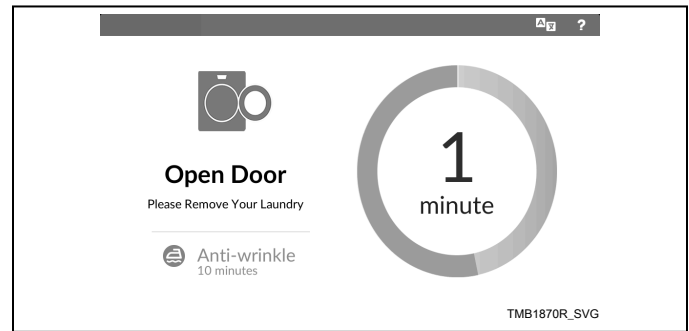


Figure 30

If enabled, the machine alternates between sitting idle and tumbling for short intervals (less than 1 min). When actively tumbling, the progress graphic states how long it will remain in motion before returning to the cycle complete graphic.

When the anti-wrinkle feature expires, the display shows the standard cycle complete. This display only applies when the completed cycle timer is not enabled.

Extended Tumble Mode

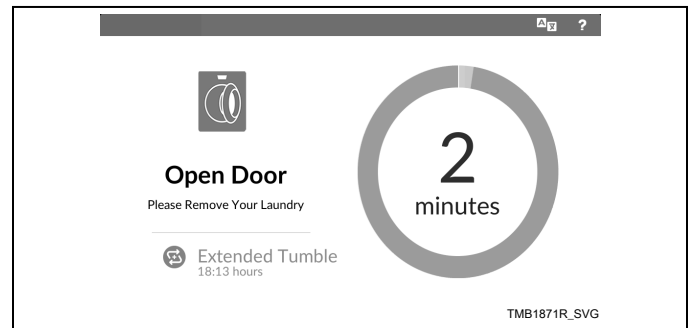


Figure 31

If enabled, Extended Tumble activates when 20 minutes have passed since the cycle completed or anti-wrinkle expires and the door has yet to be opened. The cylinder runs for 2 minutes every hour. Extended tumble will only show while the cylinder is turning. When this timer expires, the screen returns to either Dry Complete or Dry Completed Timer Mode.

Lucky Cycle Mode

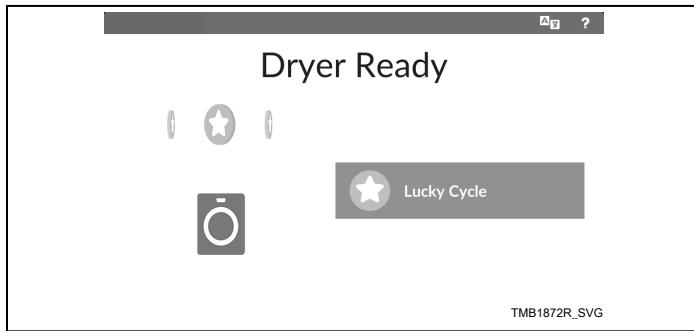


Figure 32

When the control rewards a *Lucky Cycle*, the current *Approach Page* menu displays "Lucky Cycle" and/or the  icon. The winning user can select a cycle, add options and add vend (if the cycle is not programmed to free) as usual.

The control triggers a *Lucky Cycle* and resets the counter once the control runs the programmed number of cycles on a programmed date and time. The control will not reward the winning cycle until either 4.25 minutes have passed since the end of the last cycle or the control displays the winning cycle on the initial vend attempt, depending on programming.

The *Lucky Cycle* takes priority over Special Vends and Standard Vend pricing. If the user selects a different cycle within the allotted time for a cycle change, the control runs the newly selected cycle. If equipped with a serial payment system, it is up to the payment system to honor or ignore the *Lucky Cycle*.

Manual Programming

Refer to *Menu Navigation* for an overview of menus.

System Menu

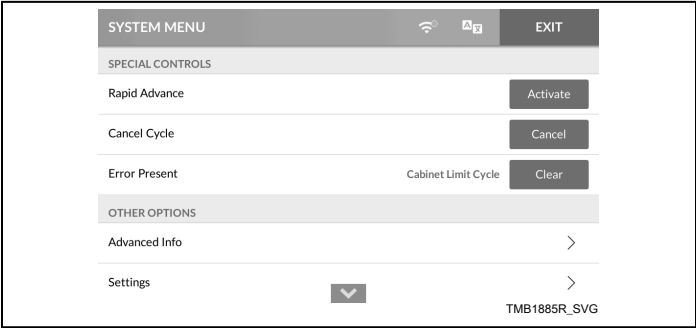


Figure 33

The System Menu allows the user to access RAPID ADVANCE (*Rapid Advance Activation*), CANCEL CYCLE (*Cancel Cycle*), ERROR PRESENT (*Clear Active Error*), PARTIAL VEND PRESENT (*Clear Partial Vend*), 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*).

To access the System Menu, press and hold for 3 seconds on the center of the menu header from the display.

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

Touch EXIT to return to the previous screen.

NOTE: When selecting RAPID ADVANCE, DIAGNOSTICS, RESET or SETTINGS, the *Passcode Menu* will appear first, if programmed to be passcode protected.

Passcode Menu

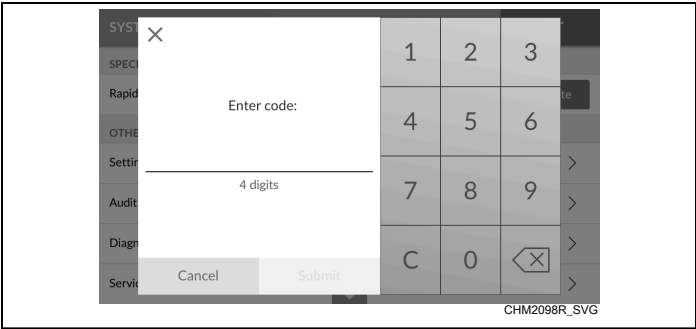


Figure 34

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

displays the Passcode Menu when entering RAPID ADVANCE (*Rapid Advance Activation*), SETTINGS (*Settings Menu*), DIAGNOSTICS (*Diagnostics Menu*) or RESET (*Reset Menu*) sub-menus from the *System Menu* .

1. Enter the four (4) digit passcode by touching the numbers on the display.
2. Touch SUBMIT on the touchscreen to access the selected *System Menu* sub-menu.

Save Changes Menu

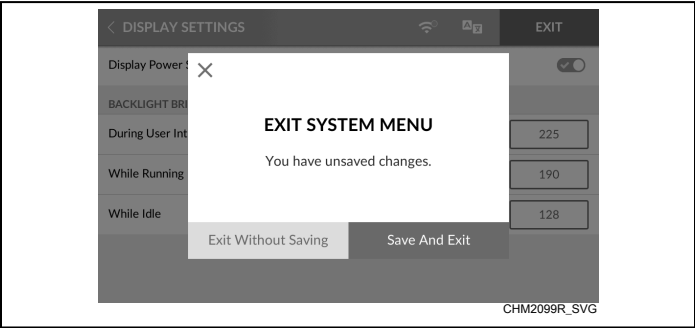


Figure 35

The Save Changes Menu appears after making modifications in the *System Menu* or sub-menus.

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.

Rapid Advance Activation

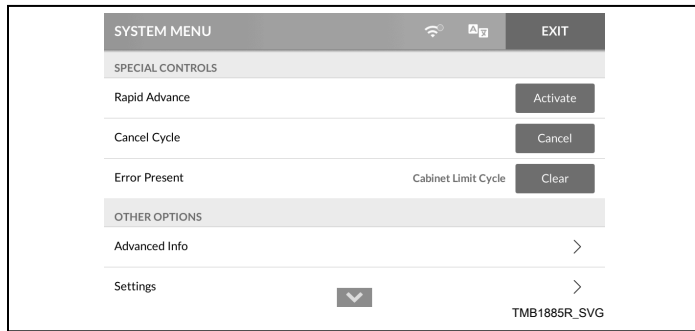


Figure 36

1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters the *System Menu*.
2. Touch Activate next to RAPID ADVANCE.
3. If the option is passcode protected in programming, enter the passcode in the *Passcode Menu*. Activate changes to "Active" to indicate the Rapid Advance option is active.
4. When finished activating Rapid Advance, touch EXIT to exit the *System Menu*.
5. ADVANCE ⏸ shows in the lower right corner of the *Run Menu*. Touch ⏸ to take a minute off dry time or cool down.

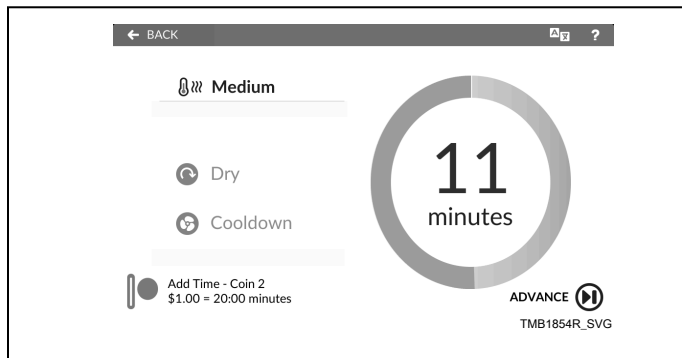


Figure 37

Cancel Cycle

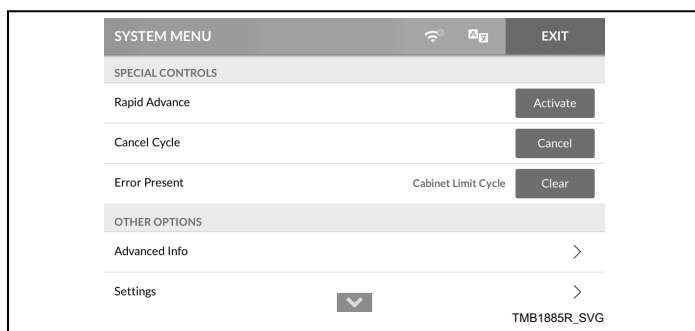


Figure 38

The Cancel Cycle option allows the user to end a running cycle. The option is only visible when a machine runs a cycle in *Drop Off Mode*.

1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters the *System Menu*.
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

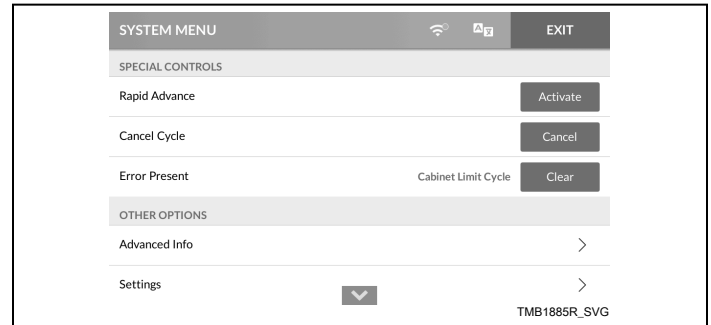


Figure 39

If enabled in programming, the Clear Active Error option allows the owner to clear certain machine errors. The option is only visible if a clearable error exists. The display shows the error name if a clearable error is active.

1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters the *System Menu*.
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*.

Clear Partial Vend

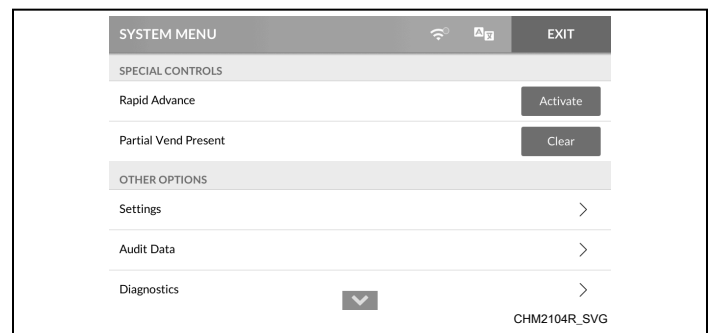


Figure 40

The Clear Partial Vend option allows the owner to clear the entered vend if the vend is insufficient to pay for the selected

cycle.

1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters the *System Menu*.
2. Touch Clear next to PARTIAL VEND PRESENT to clear the entered vend and hide the option.

NOTE: Any cleared vend will be added to the *Audit Data Menu*.

3. When finished clearing the vend, touch EXIT to exit the *System Menu*.

1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters the *System Menu*.
2. Touch SETTINGS, then VEND SETTINGS and navigate to Vend Prices.
3. Touch the vend price next to the desired cycle to change.
4. Touch "C" to clear the current vend price.
5. Enter the new vend price using the keypad. Touch SUBMIT.
6. When finished changing the cycle price, touch EXIT to exit the *System Menu*.
7. Touch SAVE AND EXIT.

Change Vend Price

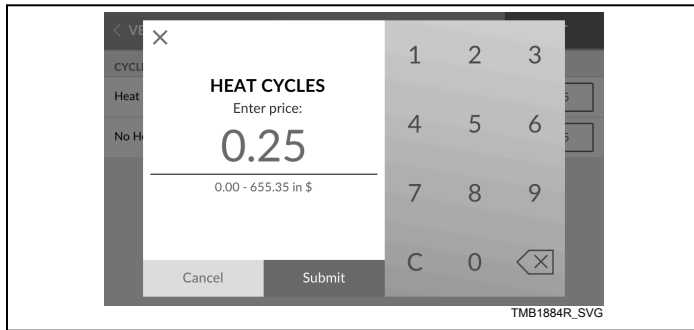


Figure 41

Advanced Info Menu

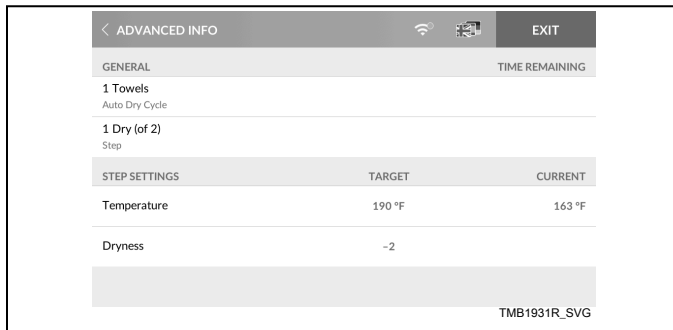


Figure 42

The Advanced Info Menu allows the user access to additional details on a currently running cycle. This menu shows the cycle name, cycle step and the time remaining as well as target and real-time values for temperature and moisture.

1. To access, touch and hold the menu header from the display while a cycle is running, with the service door open and the coin vault closed to enter the *System Menu*.
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*.

Settings Menu

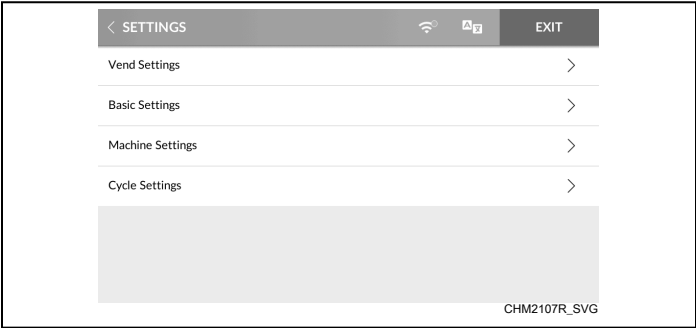


Figure 43

The Settings Menu allows the owner to adjust the global settings of the control. Refer to *Table 2*, *Table 3*, *Table 4* and

Table 5 for setting options in each sub-menu.

- 1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters the *System Menu*.
- 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*.

Vend Settings

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

VEND SETTINGS			
Display		Description	Default
Currency		Set the monetary symbol on the display.	
	MONETARY UNIT 1		
	Symbol		
	SELECT ONE	No Symbol \$ Dollar £ Pound ¥ Yen ₩ Won € Euro ₹ Rupee £ Turkish Lira ₽ Ruble Ft Forint Kč Koruna Kr Krona Kn Kuna R Rand R\$ Real Tk Token Zł Złoty	*
	Symbol Placement	Before/After	*

Table 2

continues...

VEND SETTINGS			
Display		Description	Default
	Vend Price Separator	00000 0000.0 000.00 00.000 0000,0 000,00 00,000	*
	Preview	Preview the currency configuration.	-
Payment Settings		Set the payment method.	
	ENABLE TYPES		
	Coin	Enable/Disable	*
	Coin Options	Single/Dual/Electronic	*
	COIN VALUES		
	Coin 1 Value	1 - 65535	*
	Coin 2 Value	1 - 65535	*
	Electronic Drop(s) Display Configuration		
	DISPLAYED VALUES - CURRENCY 1	If set to 1-4, coins show up as currency. If set to 5, 1-5 show up as tokens.	
	Number of Coins	1-5	*
	Coin 1	0-32767, "Token", blank	*
	Coin 2	0-32767, "Token", blank	*
	Coin 3	0-32767, "Token", blank	*
	Coin 4	0-32767, "Token", blank	*
	Card Reader	Enable/Disable	*
	Kiosk	Enable/Disable, 0-255	*
	Mobile	Enable/Disable	*
	Bill	Enable/Disable	*
	SERIAL / PULSE INTERFACE		
	Serial Payment System	Enable/Disable	*
	Mode	Disabled/Single Pulse/Multiple Pulses	*
	Value	1-65535	*
Vend Price Display Override		Enable/Disable	Disable

continues...

Table 2

VEND SETTINGS			
Display		Description	Default
Vend Prices		Set the vend price for each cycle.	
	CYCLES		
	Heat Cycles	0-65535	25
	No Heat Cycle	0-65535	25
Vend Price Modifiers		Set the vend price for each modifier.	
	INDIVIDUALS		
	Anti-Wrinkle	0-65535	25
	Reversing	0-65535	50
Top-Off Settings		Set the time and price for top-offs.	
	Status	Enable/Disable/ Full Cycle Only	Enable
	Time Adjustment	Enable/Disable/ Full Cycle Only	-
	Display	Enable/Disable	Enable
	TOP-OFF TIMES		
	Coin 1 Top-Off Time	00:10-99:00 (MM:SS)	05:00
	Coin 2 Top-Off Time	00:10-99:00 (MM:SS)	20:00
	PAYMENT SYSTEM TOP-OFF		
	Payment System Top-Off Price	1-65535	25
	Payment System Top-Off Time	00:10-99:00 (MM:SS)	05:00
	REMOTE TOP-OFF		
	Remote Top-Off Price	1-65535	25
	Remote Top-Off Time	00:10-99:00 (MM:SS)	05:00
Cycle Modifier Settings		Set cycle overrides for each modifier.	
	Default Included Modifiers		
	INDIVIDUALS		
	Anti-Wrinkle	Enable/Disable	Enable
	Reversing	Enable/Disable	Enable
	INDIVIDUALS		
	Anti-Wrinkle	Enable/Disable	
	Reversing	Enable/Disable	
Lucky Cycle		Set lucky cycle parameters.	
	Days Enabled	Sunday-Saturday	Disable

continues...

Table 2

VEND SETTINGS			
Display		Description	Default
	Number of Cycles Between	1-255	50
	Display Option	After Input or After Delay	After Input
	ACTIVE TIMES		
	Start Time	00:00-23:59 (Hours and Minutes)	0:00
	Length	1-24 hours	24
	ACTIVE DATES		
	Limited Dates	Enable/Disable	Disable
	Start Month	1-12, Disable	Disable
	Start Date	1-31 (varies by month), Disable	Disable
	End Month	1-12, Disable	Disable
	End Date	1-31 (varies by month), Disable	Disable
	Limited Annually	Enable/Disable	Disable
	Start Year	2000-2099, Disable	Disable
	End Year	2000-2099, Disable	Disable
Special Vend		Set parameters for special vend time slots.	
	Special Vend 1	Enable/Disable, keypad	Disable
	Days Enabled		
	ACTIVE TIMES		
	Start Time	00:00-23:59 (Hours and Minutes)	0:00
	Length	1-24	1
	ACTIVE DATES		
	Limited Dates	Enable/Disable	Disable
	Start Month	Jan-Dec, Disable	Disable
	Start Date	1-31 (varies by month), 0 (Disable)	0
	End Month	Jan-Dec, Disable	Disable
	End Date	1-31 (varies by month), 0 (Disable)	0
	Repeat Annually	Enable/Disable	Disable
	Start Year	0-99	0
	End Year	0-99	0
	SETTINGS		
	Special Vend 1 Prices		

continues...

Table 2

VEND SETTINGS			
Display		Description	Default
		CYCLES	
		Heat Cycles	0-65535
		No Heat Cycle	0-65535
	Special Vend 1 Price Modifiers		
		INDIVIDUALS	
		Anti-Wrinkle	0-65535
		Reversing	0-65535
	Special Vend 1 Top-Off Settings		
		TOP-OFF TIMES	
		Coin 1 Top-Off Time	00:10-99:00 (MM:SS)
		Coin 2 Top-Off Time	00:10-99:00 (MM:SS)
		PAYMENT SYSTEM TOP-OFF	
		Payment System Top-Off Price	1-65535
		Payment System Top-Off Time	00:10-99:00 (MM:SS)
		REMOTE TOP-OFF	
		Remote Top-Off Price	1-65535
		Remote Top-Off Time	00:10-99:00 (MM:SS)
	Special Vend 1 Modifier Settings		
		Special Vend 1 Default Included Modifiers	
		INDIVIDUALS	
		Anti-Wrinkle	Enable/Disable
		Reversing	Enable/Disable
		INDIVIDUALS	
		Anti-Wrinkle	Enable/Disable
		Reversing	Enable/Disable
	CYCLE TIMES		
	Heat Cycles Time		01:00-99:00 (MM:SS)
	No Heat Cycle Time		01:00-99:00 (MM:SS)

continues...

Table 2

VEND SETTINGS			
Display		Description	Default
	Special Vend 2	Enable/Disable	Disable
	Special Vend 3	Enable/Disable	Disable
	Special Vend 4	Enable/Disable	Disable
	Special Vend 5	Enable/Disable	Disable
	Special Vend 6	Enable/Disable	Disable
	Special Vend 7	Enable/Disable	Disable
	Special Vend 8	Enable/Disable	Disable

Table 2

Basic Settings

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

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

Table 3

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 Polski Slovenščina Română Hrvatski Magyar Latviešu Lietuvių kalba Slovenčina ελληνικά български Türkçe Bahasa (Indonesia) Bahasa (Malaysia) ภาษาไทย Tiếng Việt	English
	AVAILABLE LANGUAGES	Languages set to "Enable" show in the <i>Language Selection Panel</i> .	
	English	Enable/Disable	Enable

continues...

Table 3

BASIC SETTINGS			
Display		Description	Default
	Español (España)	Enable/Disable	Enable
	Español (Colombia)	Enable/Disable	Enable
	Français	Enable/Disable	Enable
	简体中文	Enable/Disable	Enable
	繁體中文	Enable/Disable	Enable
	Русский	Enable/Disable	Enable
	Deutsch	Enable/Disable	Enable
	日本語	Enable/Disable	Enable
	Italiano	Enable/Disable	Enable
	Portuguêse (Portugal)	Enable/Disable	Enable
	Portuguêse (Brasil)	Enable/Disable	Enable
	한국어	Enable/Disable	Enable
	Nederlands	Enable/Disable	Enable
	čeština	Enable/Disable	Enable
	Suomi	Enable/Disable	Enable
	Dansk	Enable/Disable	Enable
	Svenska	Enable/Disable	Enable
	Norsk	Enable/Disable	Enable
	Polski	Enable/Disable	Enable
	Slovenščina	Enable/Disable	Enable
	Română	Enable/Disable	Enable
	Hrvatski	Enable/Disable	Enable
	Magyar	Enable/Disable	Enable
	Latviešu	Enable/Disable	Enable
	Lietuvių kalba	Enable/Disable	Enable
	Slovenčina	Enable/Disable	Enable
	ελληνικά	Enable/Disable	Enable
	български	Enable/Disable	Enable
	Türkçe	Enable/Disable	Enable
	Bahasa (Indonesia)	Enable/Disable	Enable

continues...

Table 3

BASIC SETTINGS			
Display		Description	Default
	Bahasa (Malaysia)	Enable/Disable	Enable
	ภาษาไทย	Enable/Disable	Enable
	Tiếng Việt	Enable/Disable	Enable
Time and Date		Set the current time format and daylight savings options.	
	CURRENT		
	Clock Time	00:00-23:59	*
	Month	Jan-Dec	*
	Date	1-31 (varies by month)	*
	Year	2000-2099	*
	SETTINGS		
	Separator Type	(.), (-), (/)	/
	Date Format	MMDDYYYY DDMMYYYY YYYYMMDD	MMDDYYYY
	Daylight Saving		
	Enabled/Disabled	Enable/Disable	Enable
	START		
	Start Month	Jan-Dec	3
	Start Week of Month	1-4	2
	Start Day of Week	Sunday-Saturday	Sunday
	Start Hour	0-23	2
	END		
	End Month	Jan-Dec	11
	End Week of Month	1-4	1
	End Day of Week	Sunday-Saturday	Sunday
	End Hour	0-23	2
Temperature Units		°C/°F	°F
Display Settings		Set display backlight options.	
	Screen Saver	Enable/Disable	Disable
	Display Power Save	Enable/Disable	Enable

continues...

Table 3

BASIC SETTINGS			
Display		Description	Default
	BACKLIGHT BRIGHTNESS		
	During User Interaction	0-255	192
	While Running	0-255	128
	While Idle	0-255	64
Audio Signal		Set instances when the machine sounds a tone.	
	Button Pressed	Enable/Disable	Disable
	Start Mode / Mimic Quantum	Enable/Disable	Disable
	Serial Vend / Network Vend	Enable/Disable	Disable
	Coin Vend / Card Vend / Start Pulse Vend	Enable/Disable	Disable
	End of Cycle	Enable/Disable	Disable
Time Display Format		MM or MM:SS	
Cycle Complete Timer		Enable/Disable	Enable

Table 3

Machine Settings

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

MACHINE SETTINGS			
Display		Description	Default
Machine Configuration		View the configuration parameters of the machine.	
	Supply Voltage 120	Enable/Disable	*
Approach Screen		Enable/Disable	Enable
Custom Approach Message		"Edit", keyboard	Dryer Ready
Errors		Set errors to appear or be hidden on the display.	
	Coin Error	Enable/Disable	
	Enabled / Disabled	Enable/Disable	Enable
	Penalty	Enable/Disable	Disable
	Vend Header Present Error	Enable/Disable	Enable
	Limit Cycles Display	Enable/Disable	
	False Flame Error Display	Enable/Disable	
	Allow Error Clearing	Enable/Disable	Enable
Pocket Indicator		Disable, Upper, Lower	Model dependent
Heating Indicator		Enable/Disable	Disable
CONNECTION SETTINGS			
IR Access		Enable/Disable	Enable
Wi-Fi Settings			
	System Connectivity Status		
	HARDWARE		
	MAC Address	XX-XX-XX-XX-XX-XX-XX-XX	
	IPv4 Addressing	Current source setting	
	IP Address Source	"DHCP", "Off" or "Static"	DCHP
	IP Address	"Update" (Static) / Display Only (DHCP and Off)	0:0:0:0
	Subnet Mask	"Update" (Static) / Display Only (DHCP and Off)	0:0:0:0
	Default Gateway	"Update" (Static) / Display Only (DHCP and Off)	0:0:0:0
	DNS Server	"Update" (Static) / Display Only (DHCP and Off)	0:0:0:0
	IPv6 Addressing	Current source setting	

continues...

Table 4

MACHINE SETTINGS			
Display		Description	Default
	IP Address Source	"SLAAC", "Off" or "Static"	Off
	IP Address	"Update" (Static) / Display Only (SLAAC and Off)	0:0:0:0:0:0:0
	Subnet Prefix Length	"Update" (Static) / Display Only (SLAAC and Off)	0:0:0:0:0:0:0
	Default Gateway	"Update" (Static) / Display Only (SLAAC and Off)	0:0:0:0:0:0:0
	DNS Server	"Update" (Static) / Display Only (SLAAC and Off)	0:0:0:0:0:0:0
	SECURITY / CONNECTION		
	SSID	"Update", keyboard	
	Security Key	"Update", keyboard	
	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
MODES			
Low Power/Auto Shutdown			
	SETTINGS		
	Low Power/Auto Shutdown 1	Enable/Disable	Disable
	Low Power/Auto Shutdown 2	Enable/Disable	Disable
	Low Power/Auto Shutdown 3	Enable/Disable	Disable
	Low Power/Auto Shutdown 4	Enable/Disable	Disable
Power Fail Reset			
	Enabled / Disabled	Enable/Disable	Enable
	Outage Duration Before Reset	0 - 120 minutes	0
Drop Off Mode		Enable/Disable	Disable
Out of Order		Enable/Disable	Disable
Manual Rapid Advance		Enable/Disable	Enable

continues...

Table 4

MACHINE SETTINGS			
Display		Description	Default
Manual Diagnostics		Enable/Disable	Enable
Factory Test Cycle		Enable/Disable	
OUTPUT SIGNALS			
Programmable Output 1 - 3			
	SELECT ONE	Available Available with Start Available with End of Cycle Available with Start and End of Cycle Vend is not Satisfied Vend is not Satisfied with End of Cycle Available with Vend Available with Vend and End of Cycle In Use Cycle is Complete Lucky Cycle is Triggered Break-in Alarm is Triggered End of Cycle is Entered Motor is On	Available
Lint Indicator			
	Number of Cycles Between	1-70	16 (S30, 55, T55, 75), 9 (T30)
	Maximum Number of Cycles After	1-6	3

Table 4

Cycle Setting

CYCLE SETTINGS		
Display		Description
		Default
Default Cycle		Set the default dry cycle.
	SELECT ONE	High Medium Low Delicates No Heat
		Medium
CYCLE TIME		Set cycle times.
Heat Cycles Time		01:00-99:00
No Heat Cycle Time		01:00-99:00
CYCLE TEMPERATURES		Set temperatures for each cycle.
High		100-190°F [38-88°C] , 5°F increments (varies by machine type and capacity)
		190°F [88°C] (30, T30, T45, 55, T55, 50, 75) 185°F [85°C] (120)
Medium		100-190°F [38-88°C] , 5°F increments (varies by machine type and capacity)
		180°F [82°C]
Low		100-190°F [38-88°C] , 5°F increments (varies by machine type and capacity)
		160°F [71°C]
Delicates		100-190°F [38-88°C] , 5°F increments (varies by machine type and capacity)
		130°F [54°C]
COOL DOWN TIMES		Set cool down times for each cycle.
High		1-15 Minutes
		2
Medium		1-15 Minutes
		2
Low		1-15 Minutes
		2
Delicates		1-15 Minutes
		2
REVERSING		Set time for reversing.
Enable/Disable		Enable/Disable
		Enable
Rotate Time		30-540 Seconds
		30
Pause Time (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)		6-10 Seconds (25-75 Models), 10-14 Seconds (120-200 Models)
		6, 10

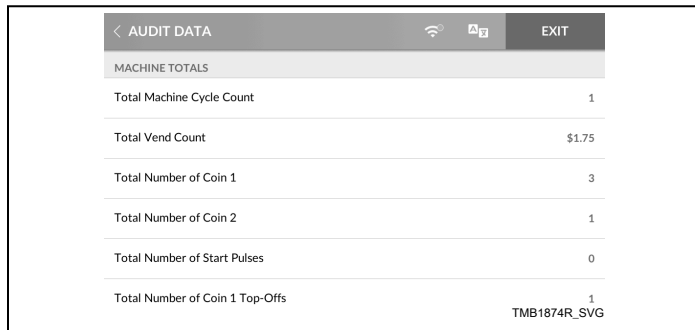
continues...

Table 5

CYCLE SETTINGS		
Display	Description	Default
Pause Time (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	3-7 Seconds (30, T30, T45, 55, T55) 6-10 Seconds (50,75) 8-12 Seconds (120)	3 (30, T30,T45, 55, T55) 6 (50, 75) 8 (120)
ANTI-WRINKLE	Set parameters for anti-wrinkle.	
Enable/Disable	Enable/Disable	Enable
Duration	5-60 Minutes	10
Audio Notification	Enable/Disable	Enable
EXTENDED TUMBLE	Set parameters for extended tumble.	
Enable/Disable	Enable/Disable	Enable
Audio Notification	Enable/Disable	Enable
OTHER SETTINGS		
Auto-Ignite Retry Attempts Allowed	0-255	3

Table 5

Audit Data Menu



< AUDIT DATA		EXIT
MACHINE TOTALS		
Total Machine Cycle Count	1	
Total Vend Count	\$1.75	
Total Number of Coin 1	3	
Total Number of Coin 2	1	
Total Number of Start Pulses	0	
Total Number of Coin 1 Top-Offs	1	TMB1874R_SVG

Figure 44

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 start pulses
- Total number of rapid advance cycles
- Total number of run hours
- Resettable Counters
- Other Metrics
- Individual Cycle Counts

1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters 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

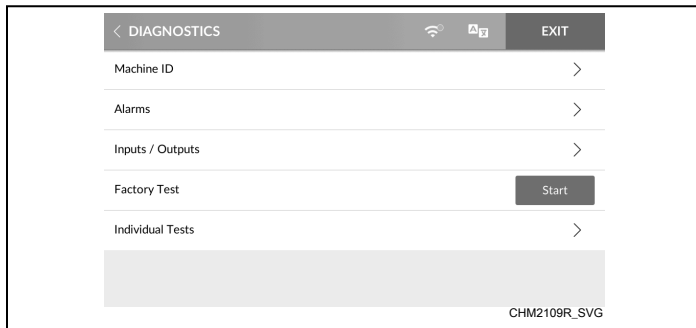


Figure 45

The Diagnostics Menu includes MACHINE ID (*Machine ID Menu*), ALARMS (*Alarms Menu*), INPUTS/OUTPUTS (*Inputs/Outputs Menu*), FACTORY TEST (*Factory Test Menu*) and INDIVIDUAL TESTS (*Individual Tests Menu*).

1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters 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

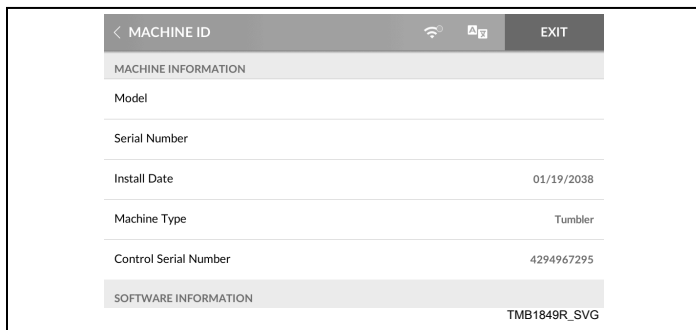


Figure 46

The Machine ID Menu displays the following information.

- Model

- Serial Number
- Install Date
- Machine Type
- Control Serial Number
- Network Node
- Front-end Control Software Version
- Display Software Version
- I/O Board Software Version
- Drive Board Software Version
- Fan Board Software Version
- Ignition Control Software Version

1. To access, touch MACHINE ID from the *Diagnostics Menu*.
2. 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

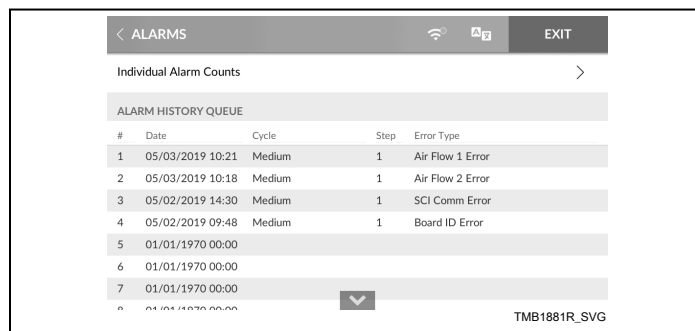


Figure 47

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

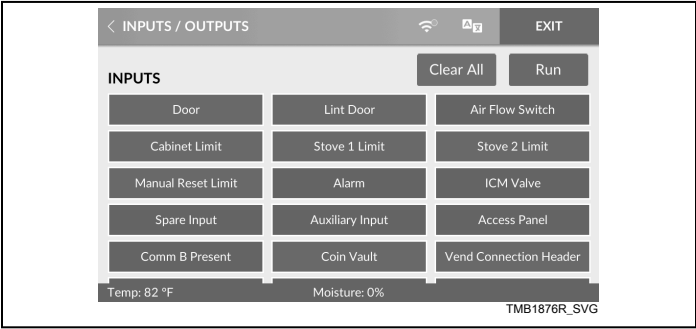


Figure 48

Factory Test Menu

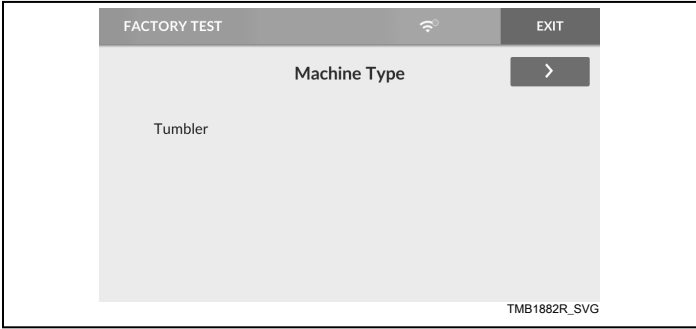


Figure 49

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.

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*.

If enabled in programming, the Factory Test Menu allows the user to run a diagnostic test cycle.

At the start of the factory test cycle, the control enters Factory Test Mode. The command message at the bottom of the Factory Test Menu display will show the remaining step time or prompt the user for input throughout the test cycle. Refer to *Table 6* for test sequence.

- 1. To access, touch FACTORY TEST from the *Diagnostics Menu*.
- 2. Touch START to begin the factory test cycle.
- 3. Touch EXIT to terminate the factory test cycle.
- 4. Touch < and > to navigate between factory test steps.
- 5. The display returns to *System Menu* once the last test step is complete.

Factory Tests		
Test Name	Display	Description
Machine Type	Tumbler	Tumbler
Control Software Version	XXX.YYY.ZZZ	XXX is the control software version number, YYY is the internal release target and ZZZ is the internal development version.
Display Software Version	XXX.YYY.ZZZ	XXX is the control software version number, YYY is the internal release target and ZZZ is the internal development version.
I/O Board Software Version	XXX.YY	XXX is the I/O board version number and YY is the I/O board software subversion number.
Drive Software Version	Drive: XX Fan: YY	XX is the drive motor software version number. YY is the fan motor software version number.
ICM Software Version (gas only)	XX	XX is the ICM software version number.

Table 6

continues...

Factory Tests		
Test Name	Display	Description
Control Level	1	Touch
Capacity	YXXX	XXX is the capacity in pounds. Y is the machine type identifier (T=stacks, F=fast dry, no character is everything else).
Touch Screen Test	Touch START to begin	The display instructs the operator to touch various display locations.
Display Test	This test will display a sequence of patterns.	Audio will sound after start is touched. Touching the screen will advance to the next.
Service Door Switch Test	"Open" or "Closed"	Displays the state of the service door switch.
Coin Vault Switch Test	"Open" or "Closed"	Displays the state of the coin vault switch.
Coin Drop Test	Coin Drop Test Coin 1: X Coin 2: Y	X and Y are the number of pulses received for drop #1 and drop #2.
Door Switch Test	"Open" or "Closed"	The display will show the switch state, "Open" or "Closed".
Lint Door Test	"Open" or "Closed"	The display will show the switch state, "Open" or "Closed".
Lint Sensor Test (skipped if non-ProCapture model)	"Open" or "Closed"	The display will show the sensor state, "Open" or "Closed". When closed, an audio signal will sound.
Cylinder Input Sensor Test (skipped if non-ProCapture model)	Temperature: XXY (temperature displayed is thermistor 2)	XX is the temperature and Y is the units (Celsius or Fahrenheit).
Heat Configuration	"Heat Configuration" and "Electric Heat", "Steam Heat", "Gas Domestic" or "Gas EU" Temperature: XXY	XX is the temperature and Y is the units (Celsius or Fahrenheit).

continues...

Table 6

Factory Tests		
Test Name	Display	Description
10 Minute Test Cycle	"Temp Setpoint", "Time: M:SS", "Temperature: XXXY" (temperature displayed is Cylinder Output [Thermistor 1])	Determines if tumble dryer can function in a cycle for 10 minutes. The control will prompt the user to press Start to run the cycle. While this 10 Minute Test Cycle is running, the Start button may be used to decrement the remaining cycle time. If power to the control is turned off before this test cycle has ended, the cycle is cleared. When the control is powered back up, it will be reset to Ready Mode. Display shows "Temperature: XXXY", where XX is the temperature and Y is the units (Celsius or Fahrenheit). Pressing the "Temp Select" button will cycle through different temperature setpoints. Pressing the next step button will decrement the time by one minute per press. If airflow optimization is enabled, the fan will run at maximum speed during the drying stage and nominal speed during the cool down stage.

Table 6

Individual Tests Menu

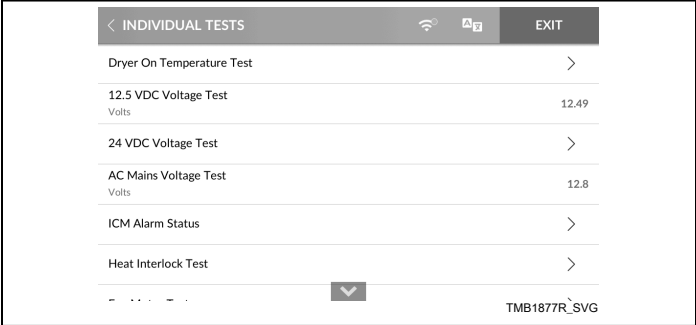


Figure 50

The Individual Tests Menu allows the user to preform individual manual diagnostic tests on machine components. Refer to *Table 7*.

1. To access, touch INDIVIDUAL TESTS from the *Diagnostics Menu*.
2. Swipe to scroll through the list of individual tests.
3. Touch the desired individual test.
4. Touch START to begin each individual test.
NOTE: The time remaining in the test step displays while the step is in process. The control indicates the test results when the test step is complete.
5. Touch STOP to terminate the individual test.
6. Touch another test step name from the list to navigates between test steps.
7. When finished running the individual tests, touch INDIVIDUAL TESTS to return to the *System Menu* or EXIT to exit the *System Menu*.

Individual Diagnostic Tests		
Test Name	Display	Description
Dryer On Temp Test	"Close Door" and "Waiting" "Close Lint Door" and "Waiting" "Cooling" and "Time Remaining" and "MM:SS" "Close Door, Ready, Running"; Target Temperature: XXXF or XXXC; Actual: XXXF or XXXC	If the door is open, the display will show Close Door. Once the door is closed, Start will become active and can be pressed to start the test. After the test is started, Start will change to Stop. Pressing Stop will stop the test. Opening either the loading door or lint door will also stop and exit the test. The test will run until the target temperature is reached or 99 minutes have expired. Once the heating portion of the test finishes, the machine will transition to cool down and will run cool down for one (1) minute.
12.5VDC Voltage Test	XX.XXV	XXX.XX is the value of the 12.5VDC supply. "V" is volts.
24VDC Voltage Test	"Close Door" and "Waiting" "Close Lint Door" and "Waiting" XX.XXV	XXX.XX is the value of the 24VDC supply. "V" is volts.
AC Mains Voltage Test	XXX	XXX is the current AC Mains Voltage.
ICM Alarm Status (gas models)	"Locked", "Ready" or "Resetting"	When the ICM alarm status test is selected, the control will display the appropriate status of the ICM alarm signal. If the ICM alarm is active for at least one second, the control will show "Locked". If the ICM alarm is not active for one second, the control will show "Ready". If the status is locked, the reset button will be active and if the reset button is pressed, the control will show "Resetting" and the button will become inactive again.
Heat Interlock Test	"Close Door" and "Waiting" "Close Lint Door" and "Waiting" "Ready" and "Waiting" "Running"; "Air Flow Switch", "Cabinet Limit", "Stove Limit 1", "Stove Limit 2", "Manual Reset Limit"; Status: Open or Closed	When the test is first entered, if the door is closed, start will be active and the control will show "Ready". If the door is open, start will be inactive and the control will show "Close Door". When the door is closed and start is pressed, the control will turn on the drive motor, fan motor, heater outputs, and show the name of each interlock and it's status of open or closed. Each interlock is shown for two (2) seconds in an endless loop for as long as the test is running. The test can be exited by pressing stop or after 5 minutes have expired. Opening either the loading door or lint door will also stop and exit the test.

continues...

Table 7

Individual Diagnostic Tests		
Test Name	Display	Description
Fan Motor Test	"Close Door" and "Waiting" "Close Lint Door" and "Waiting" "Ready" and "Waiting" "Running"	When the test is first entered, the display will show "Ready" if the door is closed and the test is ready to run. If the door is open, the display will show "Close Door". With the door closed, if start is pressed, the control will display "Running" and send a command to the I/O board to turn on the fan motor. The test can be exited by pressing stop or after 5 minutes have expired. Opening either the loading door or lint door will also stop and exit the test.
Damper Motor Test (steam models)	"Close Door" and "Waiting" "Close Lint Door" and "Waiting" "Ready" and "Waiting" "Running"	When the test is first entered, the display will show "Ready" if the door is closed and the test is ready to run. If the door is open, the display will show "Close Door". With the door closed, if start is pressed, the control will display "Running" and send a command to the I/O board to turn on the damper motor. The test can be exited by pressing stop or after 5 minutes have expired. Opening either the loading door or lint door will also stop and exit the test.
Motor Test	"Close Door" and "Waiting" "Close Lint Door" and "Waiting" "Ready" and "Waiting" "Running"	When the test is first entered, the display will show "Ready" if the door is closed and the test is ready to run. If the door is open, the display will show "Close Door". With the door closed, if start is pressed, the control will display "Running" and send a command to the I/O board to turn on the cylinder motor. The test can be exited by pressing stop or after 5 minutes have expired. Opening either the loading door or lint door will also stop and exit the test.

Table 7

Machine Errors

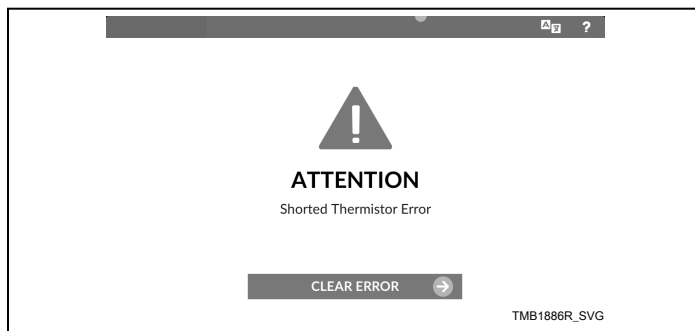


Figure 51

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.

Certain errors can be cleared if they are non-fatal. Those can be cleared by pressing the "CLEAR ERROR" button independent of the programming parameter. Fatal errors can be cleared in the *System Menu*, if the clear error parameter is enabled.

Clear errors manually (if enabled in programming) by touching CLEAR ERROR (when shown), send the clear fatal error command using a PC or cycle power to the machine.

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

Air Flow Switch 1 Error

This error indicates the air flow switch failed to open while the machine was in a stopped state. If an air flow switch is sensed closed for thirty (30) consecutive seconds, thirty (30) seconds after powering up, pausing a cycle, or ending a cycle, the control will show the Message Page with "Air Flow 1 Error" until the air flow switch opens or power is cycled to the machine.

When this error occurs, all user input will be ignored. If the error does clear, the control will go back to its previous mode of operation. Cycling power to the machine will clear the error but if the error condition still exists, the error will be set again.

Air Flow Switch 2 Error

This error indicates the air flow switch fails to close 5 seconds after a cycle has started or resumed 3 times. To account for delays, the control will wait until the fan motor is running before checking for this error. After each time the air flow switch fails to close, the cycle will be halted and the control will display "Air Flow 2 Error". The machine will remain paused for 30 seconds before the user can clear the error condition by pressing the clear error button. At this time the user can attempt to resume the cycle. If the air flow switch does not close after three (3) attempts, the control will again set the error and this time treat it as a cool down error.

Air Flow Switch Bounce Error

This error will be treated as a cool down error. A bounce is when the air flow switch is open for 1 second, then closed for 5 seconds. Each bounce increments the air flow switch bounce counter. As soon as the air flow switch is opened, the heat will be turned off. The error is set if the air flow switch bounces 5 times within a 5 minute period. When this error is set, the heat will be turned off and the remainder of the cycle will be run without heat. Once the cycle is completed, the control will display "Air Flow Error".

To protect the heat contactors on electric models, a switch bounce will be determined differently. The alarm input on the I/O board will be used to determine if the air flow switch has opened. Instead of waiting for 1 second before recognizing the air flow switch as open, the air flow switch will be observed as open if the alarm input detects it open for 0.25 seconds.

Break-In Alarm Error

If enabled in programming, the user has (30) seconds to enter the bypass passcode after opening the Service Door and/or Coin Vault. If thirty (30) seconds expire or an incorrect passcode is entered, the control triggers the a Break-In Alarm.

The control signals a network alarm, cause a machine alarm or shut down the machine. The date and time of the break-in is recorded.

The owner can program an alarm to sound (if the passcode is not correctly entered) upon Coin Vault Opening, Service Door Opening or both. The error is non-fatal will clear by itself after 15 seconds.

The owner can also program the machine to shut down (if the

passcode is not correctly entered) upon Coin Vault Opening, Service Door Opening or both. The error is fatal and the control will shut down the machine at the end of a cycle, if one is in process.

The hour, date and error code of the event are saved in audit. The error display takes priority over any other error that is already set.

To avoid the alarm during coin collections, the alarm must be turned off or temporarily disabled

Board ID Error (Fatal)

This error occurs when an incorrect board is connected for the machine type and configuration.

The control checks that the connected drive or output board is the correct board. The control also checks that the correct drive and auxiliary output board is connected. The control sets the Board ID Error if the wrong drive motor or auxiliary board is connected for the machine configuration. The display shows "Output Board ID Error", "Drive Board ID Error", "Fan Board ID Error" or "ICM Board ID Error" according to the error.

For ProCapture, the drive software needs to be updated to version 02 or later.

Brownout/Voltage Configuration Error

This error occurs if the control senses input voltage that does not match the machine configuration. The display shows "Voltage Configuration Error". To clear the error, correct the the input voltage or the voltage configuration parameter (refer to *Settings Menu*), then cycle power to the machine power.

Cabinet Limit Cycle Error

This error is an end of cycle error. While there is a call for heat, if the cabinet temperature causes the cabinet limit to open, the heater will be turned off and the control will continue the cycle with no heat until the limit thermostat resets. At the end of the cycle the control will show the Message Page with "Cabinet Limit Cycle" if the Display Limit Cycles programming parameter is enabled. The control will continue displaying the error message until the error is cleared. Extended tumble will be allowed while the error is present after the cycle has completed.

The control will increment the cabinet limit cycle audit counter only once per cycle.

Coin Drop Error

If enabled in programming, a Coin Drop Error occurs if a coin input pulse is too short, if the input is too long or if the input is too close to the previous input. The control displays "Coin Error" and turn on the Machine Error Tone for five (5) seconds, after which the error terminates. The coin error #1 or #2 audit counters will be incremented. Any valid coins are accepted normally and will terminate the error condition.

If the coin error penalty parameter is enabled and the coin error is enabled in programming, when a coin error occurs all vend progress is lost and the control returns to the *Approach Page*.

Communication B Errors

Communication B Errors occur when the control cannot properly communicate with an external device, indicating a problem with the USB Serial Communication. These errors not displayed, but are recorded in *Audit Data Menu*. Refer to *Table 8* for the error codes.

Error Code	Descriptions
3	Invalid Command
4	Unexpected Data
5	Out of Range Data
6	No Data Received
7	Invalid Data Length
8	Invalid Command Length

Table 8

Drive and Fan Communication Errors

If the I/O board ever fails to communicate with the fan or drive, the I/O board will set a communication error and send the error code to the control. The control will allow the I/O board to retry communications 3 times. If retries remain when the error is received, the error will be treated as a communication error where the error is displayed until communication is re-established. The control will pause all operation for 1 minute while allowing the fan or drive to fully power down before retrying. During this 1 minute delay, the control will display "Drive Comm Error" for drive communication errors or "Fan Comm Error" for fan communication errors. Once 1 minute has expired, the control will power up the drive and fan and attempt to re-establish communications. If the I/O board is unable to establish communication after 3 retry attempts, the control will then treat this error as a fatal error.

General Drive Errors

The handling of this error will be determined by the error code received. Regardless of which error code is received, when this error is set, the control will terminate the cycle if a cycle was running and display "Drive Motor Error XXX" where "XXX" represents the error code. Refer to *Table 9*.

Error Code	Descriptions	Number of Retries
1	Communication Error	Unlimited
2	High DC Bus Error	4

Table 9

continues...

Error Code	Descriptions	Number of Retries
3 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Motor Not Connected Error	3
4	Stall Error	4
5 (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)	Coherence Check Error	4
5 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Back EMF Error	4
6	IPM Overtemp Error	0
7 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Drive Enable Error	255
8 (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)	Current Limit Reached Error	4
9 (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)	460V Drive Overcurrent Error	4
10	Low DC Bus Error	9
11	Motor Overload Error	1
12 (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)	Microcontroller Fault Error	1

Table 9

continues...

Error Code	Descriptions	Number of Re-tries
12 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Motor System Fail	0
13 (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)	Hall Sensor Error	3
13 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Setup Compatibility Failure	0
14 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Power Fail Dangerous Error	255
15 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Open Phase Error	0
16 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Power Fail NO Dangerous Error	255
18 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Fatal IPM Over Current Shunt Error	0
19 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Fatal Hardware I2T Over Current Error	0
21 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Speed Limitation Error	0

Table 9

continues...

Error Code	Descriptions	Number of Re-tries
22 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Inrush Pin Hardware On/Off Fail	0
23 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Fatal IPM Temperature Acquisition Error (NTC is in short circuit or open)	0
24 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	ADC Current Acquisition Fail	0
25 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	VBUS Acquisition Fail	0
26 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Fault IPM Circuit Fail	0

Table 9

General Fan Errors

When this error is set, the control will terminate the cycle and either enter Machine Error Mode or remain in End of Cycle Mode while displaying an error code on the display. If Machine Error Mode was entered, the control will turn on the Machine Error Tone. The display will show the Message Menu with "FAN MOTOR ERROR XXX" where "XXX" is the specific error code. Refer to *Table 10*.

Error Code	Descriptions	Number of Re-tries
1	Communication Error	Unlimited
2	High DC Bus Error	4
3 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Motor Not Connected Error	3

Table 10

continues...

Error Code	Descriptions	Number of Re-tries
4	Stall Error	4
5 (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)	Coherence Check Error	4
5 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Back EMF Error	4
6	IPM Overtemp Error	0
7 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Drive Enable Error	255
8 (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)	Current Limit Reached Error	4
9 (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)	460V Drive Over-current Error	4
10	Low DC Bus Error	9
11	Motor Overload Error	1
12 (Tumble Dryer Designs 4 and 5, Stacked Washer-Extractor/Tumble Dryer Designs 1 and 2)	Microcontroller Fault Error	1
12 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Motor System Fail	0

Table 10

continues...

Error Code	Descriptions	Number of Re-tries
13 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Setup Compatibility Failure	0
14 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Power Fail Dangerous Error	255
15 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Open Phase Error	0
16 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Power Fail NO Dangerous Error	255
18 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Fatal IPM Over Current Shunt Error	0
19 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Fatal Hardware I2T Over Current Error	0
21 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Speed Limitation Error	0
22 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Inrush Pin Hardware On/Off Fail	0
23 (Tumble Dryer Design 6, Stacked Washer-Extractor/Tumble Dryer Design 3)	Fatal IPM Temperature Acquisition Error (NTC is in short circuit or open)	0

Table 10

continues...

Error Code	Descriptions	Number of Retries
24 (Tumble Dryer Design 6, Stacked Washer-Extractor/ Tumble Dryer Design 3)	ADC Current Acquisition Fail	0
25 (Tumble Dryer Design 6, Stacked Washer-Extractor/ Tumble Dryer Design 3)	VBUS Acquisition Fail	0
26 (Tumble Dryer Design 6, Stacked Washer-Extractor/ Tumble Dryer Design 3)	Fault IPM Circuit Fail	0

Table 10

General ICM Errors

This error is set when the Ignition Control Module (ICM) communicates an error code to the I/O board. If the error received is a Lockout Error, an Auto-Ignite Retry Error will be set. If a different error code is received, the control will handle the error as described below. When one of these errors is displayed, the display will show the message page "ICM Error X" where "X" represents the error code. Refer to *Table 11*.

Descriptions	Error Code
False Flame Error	1
Reset Shorted Error	2
Hardware Fault Error	3

Table 11

If the False Flame Error is received, the control will turn off the heat for fifteen (15) seconds and the error will be treated as an end of cycle error. The error will be displayed if the False Flame Programmable Display Option is enabled. If the error occurs multiple times in one cycle, the error audit counter will be incremented only once per cycle. The control will continue displaying the error message until the error is cleared.

When the Reset Shorted Error code is received, the error will be treated as a fatal error. This error indicates that the alarm reset signal to the ICM has been detected.

When the Hardware Fault Error code is received, the error will be treated as a fatal error. This error indicates that the ICM has detected an internal control failure. When this error is set, the control will terminate operation and display the error.

Heat Error

Gas Models

Each gas machine is equipped with an Ignition Control Module (ICM) that is responsible for opening the gas valve and igniting the gas to heat the machine. When there is a call for heat, the gas valve is opened and the ICM attempts to ignite the gas to heat the machine. If the ICM fails to ignite the gas, the ICM will send an ICM Lockout Alarm to the control. When the control receives the ICM Lockout Alarm, the control will increment the Auto-Ignite Retries Error audit counter. The lockout alarm can be reset if retries remain. The amount of retries the control allows is programmable.

When this error is set on IEC machines, the error will be treated as a fatal error. These machines are equipped with an ICM that needs to be manually reset. When the control receives the ICM lockout alarm, the control will show the Message Page with "ICM Error 4". In order to reset the alarm, the service door switch must be opened. Once the service door is opened, the display will prompt the user to reset the ICM. When the ICM is reset, the control will remove the error message and prompt the user to resume the cycle. The user can continue to reset the ICM until there are no more programmable retry attempts or the gas ignites. If the ICM fails to ignite the gas on the last attempt, the control will pause the cycle once more while displaying "ICM Error 4". Once the alarm is reset, the control will terminate the cycle and display "Heat Error".

On machines equipped with an ICM that does not need to be manually reset, the control will automatically clear the ICM lockout alarm and continue to try and ignite the gas until there are no more programmable retry attempts or the gas ignites. If the ICM fails to ignite the gas on the last attempt, the error will be set and treated as a cool down error. When the cycle is completed, the control will display "Heat Error".

Electric Models

If the control determines that the electric heat contactor is stuck closed, the control will terminate the cycle and set the error. In this condition, the error will be treated as a fatal error displaying "Heat Error".

IR Communications Error

This error occurs if there is a problem with communication between the control and an IR device. The control displays "IR Comm Error (XXX)" where "XXX" indicates the error code value. Refer to *Table 12*.

Error Code	Description
01	Error detected when sending data
02	Time-Out Error
03	Invalid Command Code

continues...

Table 12

Error Code	Description
05	Invalid or Out of Range Data
09	CRC-16 Error
0A	Framing Error
0C	Time-Out Exceeding While Getting Packet
0E	Encryption Error
0F	IR Disabled in Control Programming

Table 12

Machine ID Chip Error

This error occurs if the control detects either a communication error with the machine ID chip or a control configuration error. The control displays "Machine ID Chip Error (XXX)". "XXX" indicates an error code value. Refer to *Table 13*.

Error Code	Description	Type
05	Read Error	Notification
06	Write Error	Notification
31	Product byte 1 mismatch	Power Up
32	Product byte 2 mismatch	Power Up
33	Product byte 3 mismatch	Power Up
39	CRC error with un-configured control	Power Up
FF	No ID chip connected and no configuration in control	Power Up

Table 13

Notification errors occur when communication between the control and ID chip has failed. When the error is set, the hour, date and error code of the event are saved in *Audit Information*.

Power Up errors occur when the control is not configured and cannot get configuration data from the Machine ID chip. The error clears once the control is successfully configured.

Manual Reset Limit Error

This error will be set if there is a call for heat and the cabinet temperature caused the manual reset limit to open. Instead of immediately ending the cycle, the heater will be turned off and

the control will advance to cool down with the cool down time set to fifteen (15) minutes. This is to make sure that the machine has adequate time to cool down prior to stopping since this error indicates an unsafe temperature. While cool down is running, the error status indicator will be shown. Once the cool down time expires, the control will display "Manual Reset Limit Error". While running the factory test cycle, the test cycle will end and the error display message will be shown immediately.

Network Communications Error

This error occurs if communication fail between the control and the ALS Wi-Fi board. When the error sets, the control displays "Network Error". The error code is not shown, but it is recorded in audit data. Refer to *Table 14*.

Error Code	Description
02	Time-Out Error
03	Invalid Command Code
05	Invalid or Out of Range Data
06	Invalid Data Code
09	CRC-16 Error
19	No Communication

Table 14

Open Thermistor Error 1 (Cylinder Output)

This error will be set when the I/O board senses a temperature less than 0°F [-18°C] and the heater has been active for at least three (3) minutes. Once the cycle has ended and the error is active, the error will not be allowed to be cleared until the temperature reading is greater than 0°F [-18°C]. When this error occurs, the display will show "Open Thermistor Error". If this error occurs during a cycle, the machine will go to cool down.

Open Thermistor Error 2 (Cylinder Input)

This error will be set when the I/O board senses a temperature less than 10°F [-12°C] and the heater has been active for at least three (3) minutes. Once the cycle has ended and the error is active, the error will not be allowed to be cleared until the temperature reading is greater than 10°F [-12°C]. When this error occurs, the display will show "Open Thermistor Error". If this error occurs during a cycle, the machine will go to cool down.

Output Board Errors

This error occurs if the control receives error code from the Output Board. The control turns off all outputs, sounds the Machine Error Tone for 15 seconds, and displays "Output Board Error (XXX)" where "XXX" is the specific error code (refer to *Table 15*). When an Output Error occurs, the specific error is counted in *Audit Data Menu*.

Output Board Errors	
"XX"	Description
5	24VDC Over Voltage
6	24VDC Under Voltage
7	Heat Output Shorted
32	MOSFET Enable Shorted

Table 15

Payment System Communications Error

These errors may occur during communication with the Serial Payment System. The display shows "No Payment System initialization performed", "Loss of communication" or "No initialization and no communication", according to the error. Once communications are restored, the control returns to the previous state. The hour, date and error code of the event are saved.

SCI Communication Error (Fatal)

This error occurs if communication fails between the control and the drive or output board. SCI Communications Errors can also be caused by drive or output board detecting a *System Integrity Error*. The control displays "SCI Comm Error".

Shorted Output Error

This error is caused by one of the 7 MOSFET controlled outputs on the I/O board being detected as a short. This error will be treated as a fatal error and will display "Output Board Error XXX" where "XXX" is the specific error code. Refer to *Table 16*.

Shorted Output	Error Code
Optional Heat Output	11
Motor Enable Relay Output (KM1)	12
Spare Enable Relay Output (KM2)	13
Auxiliary Relay 1 Output (KA1)	14
Auxiliary Relay 2 Output (KA2)	15
Gas Valve 1 Output (GV1)	16
Gas Valve 2 Output (GV2)	17

Table 16

Shorted Thermistor Error 1 (Cylinder Output)

This error will be set when the I/O board senses a temperature greater than 210°F [99°C] and the motor is active. Once the cycle has ended and the error is active, the error will not be allowed to be cleared until the temperature reading is less than 210°F [99°C]. When this error occurs, the display will show "Shorted Thermistor Error". If this error occurs during a cycle, the machine will go to cool down.

Shorted Thermistor Error 2 (Cylinder Input)

This error will be set when the I/O board senses a temperature greater than 563°F [295°C] and the motor is active. Once the cycle has ended and the error is active, the error will not be allowed to be cleared until the temperature reading is less than 563°F [295°C]. When this error occurs, the display will show "Shorted Thermistor Error". If this error occurs during a cycle, the machine will go to cool down.

Stove Limit Cycles

Depending on the configuration, machines either have 1 or 2 limit thermostats monitoring the stove temperature. If at any point during the cycle, the stove temperature exceeds the limit temperature and one of these limits opens, the heat will be turned off until the limit is reset. If the Display Limit Cycles parameter is enabled, an error will be set. These errors will be treated as end of cycle errors. If the first limit opens causing an error, the display will show "Stove Limit 1 Cycle", while the second limit opening will display "Stove Limit 2 Cycle".

The control will increment the individual audit counter only once per cycle. The error will only be displayed for the two (2) minute pause between cycles.

System Integrity Error

This error occurs if a *SCI Communication Error (Fatal)* happens on the drive or output board. When the error sets, drive or output board stops communication with the control. The output board displays the error by flashing LEDs on and off. The machine must be powered down to clear the error.

Error Description	Number of LED Flashes
CPU Error	1
SFR Error	2
ROM Error	3
RAM Error	4
Stack Error	5
RAM Buffer and Empty Error	6
Software Watchdog Error	7
Slow Monitoring Error	8

Service Schedule Menu

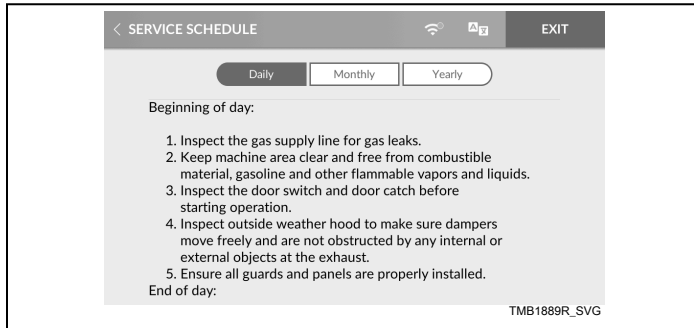


Figure 52

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

1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters 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

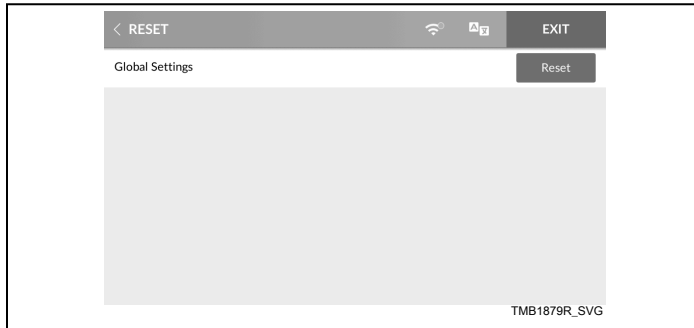


Figure 53

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

1. To access, touch and hold the center of the menu header on the display with the service door open and, for coin models, the coin vault closed. The control enters 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 to reset the list item to the factory default setting or touch CANCEL to return to the Reset Menu.
5. When finished making changes, touch EXIT to return to the *System Menu*.