

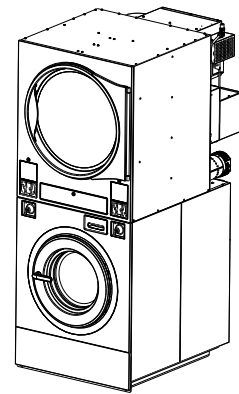
Stacked Washer-Extractor/ Tumble Dryer

Stacked 30 Pound (13/13 Kilogram) Capacity

Stacked 50 Pound (22/22 Kilogram) Capacity

Designs 1 and 2

Refer to Page 9 for Model Identification



STX1C_SVG

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.)

Installation must conform with local codes or, in the absence of local codes, with:

In the U.S.A., installation must conform to the latest edition of the American National Standard Z223.1/ NFPA 54 “National Fuel Gas Code” and Standard ANSI/NFPA 70 “National Electric Code.”

In Canada, installation must comply with Standards CAN/CSA-B149.1 Natural Gas and Propane Installation Code and CSA C22.1, latest edition, Canadian Electric Code, Part I.

In Australia and New Zealand, installation must comply with the Gas Installations Standard AS/NZS 5601 Part 1: General Installations.

In Europe, before installation, check that the local distribution conditions, nature of gas and pressure, and the adjustment of the appliance are compatible.

This equipment has been designed and certified to comply with IEC/EN 60335 electrical safety standards for tumble dryers.



Read all instructions before using tumble dryer.

IMPORTANT: If it is unavoidable that fabrics that contain vegetable or cooking oil or have been contaminated by hair care products be placed in a tumble dryer, they should first be washed in hot water with extra detergent. This will reduce, but not eliminate, the hazard.



WARNING

FOR YOUR SAFETY, the information in this manual must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury or death.

W033



DANGER

Electric shock hazard will result in death or serious injury. Disconnect all electric power to appliance and accessories and wait five (5) minutes before servicing.

W925

Units are IPx4 when enclosed per these instructions.



WARNING

- **Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.**
- **WHAT TO DO IF YOU SMELL GAS:**
 - **Do not try to light any appliance.**
 - **Do not touch any electrical switch; do not use any phone in your building.**
 - **Clear the room, building or area of all occupants.**
 - **Immediately call your gas supplier from a neighbor's phone. Follow the gas supplier's instructions.**
 - **If you cannot reach your gas supplier, call the fire department.**
- **Installation and service must be performed by a qualified installer, service agency or the gas supplier.**

W052

IMPORTANT: Information must be obtained from a local gas supplier on instructions to be followed if the user smells gas. These instructions must be posted in a prominent location. Step-by-step instructions of the above safety information must be posted in a prominent location near the tumble dryer for customer use.

IMPORTANT: Post the following statement in a prominent location

FOR YOUR SAFETY

Do not store or use gasoline or other flammable vapors and liquids in the vicinity of this or any other appliance.

IMPORTANT: The installer must fully test the tumble dryer after installation and demonstrate to the owner how to operate the machine.

IMPORTANT: The machine shall only be installed in a room separated from inhabited rooms, incorporating appropriate ventilation specified in the National Installation Regulations.

IMPORTANT: The tumble dryer is not to be used if industrial chemicals have been used for cleaning.



WARNING

To reduce the risk of electric shock, fire, explosion, serious injury or death:

- Disconnect electric power to the tumble dryer before servicing.
- Close gas shut-off valve to gas tumble dryer before servicing.
- Close steam valve to steam tumble dryer before servicing.
- Never start the tumble dryer with any guards/panels removed.
- Whenever ground wires are removed during servicing, these ground wires must be reconnected to ensure that the tumble dryer is properly grounded.

W002R1



WARNING

- Installation of unit must be performed by a qualified installer.
- Install tumble dryer according to manufacturer's instructions and local codes.
- DO NOT install a tumble dryer with flexible plastic venting materials. If flexible metal (foil type) duct is installed, it must be of a specific type identified by the appliance manufacturer as suitable for use with tumble dryer. Refer to section on connecting exhaust system. Flexible venting materials are known to collapse, be easily crushed, and trap lint. These conditions will obstruct tumble dryer airflow and increase the risk of fire.

W752R1



CAUTION

TO AVOID THE RISK OF FIRE THIS DRYER MUST BE EXHAUSTED OUTDOORS.

W928



WARNING

To reduce the risk of serious injury: Avoid contact with hot surfaces.

W927



WARNING

Electrical shock hazard can cause death or serious injury. To reduce the risk of electric shock, disconnect all electric power to appliance and accessories before servicing.

W929



WARNING

Moving parts hazard can cause serious injury. Disconnect electric power to unit before servicing. Unexpected start of machinery will occur if the unit is equipped with the extended tumble feature.

W937



WARNING

Lint compartment must be cleaned daily

To avoid the risk of fire:

- Use for drying water washed fabrics only.
- DO NOT dry articles containing foam rubber, plastic, or similarly textured rubber like materials.
- DO NOT put articles soiled with cooking oil in dryer as cooking oil may not be removed during washing. Due to the remaining oil the fabric may catch on fire by itself.
- DO NOT put articles soiled with flammable liquids or flammable cleaning solvents in dryer.

W930



CAUTION

- Risk of fire, a clothes dryer produces combustible lint. Exhaust outdoors. Care should be taken to prevent the accumulation of lint around the exhaust opening and in the surrounding area.
- DO NOT reach into the dryer until all moving parts have stopped.
- DO NOT let children play on or in the dryer.

W931

In Australia and New Zealand:



WARNING

- **DO NOT** operate this appliance before reading the instruction booklet.
- **DO NOT** place articles on or against this appliance.
- **DO NOT** store chemicals or flammable materials or spray aerosols near this appliance.
- **DO NOT** operate with panels, covers or guards removed from this appliance.
- **DO NOT** load materials containing flammable solvents into this appliance.
- If repeated ignition reset is required, the dryer should not be used and a service call booked.



Risk of fire/flammable material.

W926

The following information applies to the state of Massachusetts, USA.

- This appliance can only be installed by a Massachusetts licensed plumber or gas fitter.
- This appliance must be installed with a 36 inch [91 cm] long flexible gas connector.
- A “T-Handle” type gas shut-off valve must be installed in the gas supply line to this appliance.
- This appliance must not be installed in a bedroom or bathroom.

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. How-

ever, there is no guarantee that interference will not occur in a particular installation. If this equipment 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 pursuant 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.

Recommended Program For Nominal Load

The wash program recommended in this manual is for a nominal load at rated load capacity. Refer to programming manual for details of wash program.

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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.**

S30 (13/13 Kg) Stacked Washer-Extractor/Tumble Dryer * Only available in gas and electric							
HSA030N	HSK030L	SS030E-A	SS030N-A	SSG030L	SSK030L	SST030L	UST030E
HSG030E	HSK030N	SS030F-A	SSA030N	SSG030N	SSK030N	SST030N	UST030N
HSG030N	HST030N	SS030L-A	SSG030E	SSJ030D	SST030E		

S50 (22/22 Kg) Stacked Washer-Extractor/Tumble Dryer * Only available in gas							
HSA050N	HSK050L	HST050N	SS050N-A	SSG050L	SSJ050D	SSK050N	SST050N
HSG050N	HSK050N	SS050L-A	SSA050N	SSG050N	SSK050L	SST050L	UST050N

Heater Digit (Position 6)							
E - Electric							
L - L.P. Gas							
N - Natural Gas							

Vended Control Suffixes		
Control Digit (position 7)	Actuation Digit (position 8)	Example Control Suffix Combination
V - Touch Control	C - Single Coin Drop E - Electronic Coin Drop L - Prep for Central Pay Y - Prep for Card	VC - Touch Control, Single Coin Drop VX - Touch Control, Prep for Coin

OPL Control Suffixes		
Control Digit (position 7)	Actuation Digit (position 8)	Example Control Suffix Combination
F - Dual Digital Control	N - OPL	FN- Dual Digital Control, OPL

Contact Information

If service is required, contact the nearest Factory Authorized Service Center.

If you are unable to locate an authorized service center or are unsatisfied with the service performed on your unit, contact the source from which you purchased your unit.

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 1*.

Date Purchased _____

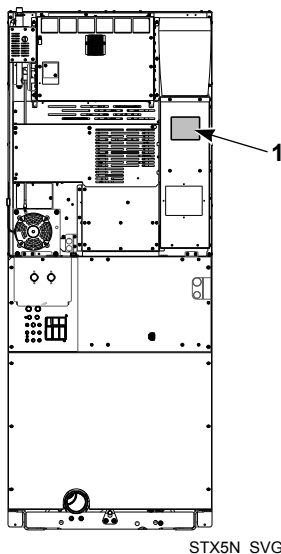
Model Number _____

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
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If replacement parts are required, contact the source from where you purchased your unit.



NOTE: An alternate serial plate is located on the front of the machine on the inside of the loading door hinge.

1. Serial Plate

Figure 1

Replacement Parts

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

Customer Service

For technical assistance, contact your local distributor or contact:
 Alliance Laundry Systems
 Shepard Street

P.O. Box 990
Ripon, WI 54971-0990
U.S.A.
www.alliancelaundry.com
Phone: +1 (920) 748-3121 Ripon, Wisconsin

Manufacturing Date

The manufacturing date for your unit can be found on the serial number. The first two digits indicate the year. The third and fourth digits indicate the month. For example, a unit with serial number 1505000001 was manufactured in May 2015.

Safety Information

Explanation of Safety Messages

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

	DANGER
Indicates an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.	
	WARNING
Indicates a hazardous situation that, if not avoided, could cause severe personal injury or death.	
	CAUTION
Indicates a hazardous situation that, if not avoided, may cause minor or moderate personal injury or property damage.	

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

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

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

Important Safety Instructions (Tumble Dryer)

	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.
- 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.

Important Safety Instructions (Washer-Extractor)



WARNING

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

W023

- Read all instructions before using the washer.
- Install the washer according the INSTALLATION instructions. Refer to the EARTH/GROUND instructions in the INSTALLATION manual for the proper earth/ground connection of the washer. All connections for water, drain, electrical power and earth/ground must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.

- Do not install or store the washer where it will be exposed to water and/or weather.
- To prevent fire and explosion, keep the area around machine free from flammable and combustible products. Do not add the following substances or textiles containing traces of the following substances to the wash water: gasoline, kerosene, waxes, cooking oils, vegetable oils, machine oils, dry-cleaning solvents, flammable chemicals, thinners, or other flammable or explosive substances. These substances give off vapors that could ignite, explode or cause the fabric to catch fire by itself.
- Under certain conditions, hydrogen gas may be produced in a hot water system that has not been used for two weeks or more. **HYDROGEN GAS IS EXPLOSIVE.** If the hot water system has not been used for such a period, before using a washing machine or combination washer-dryer, turn on all hot water faucets and let the water flow from each for several minutes. This will release any accumulated hydrogen gas. The gas is flammable, do not smoke or use an open flame during this time.
- To reduce the risk of an electric shock or fire, **DO NOT** use an extension cord or an adapter to connect the washer to the electrical power source.
- Do not allow children to play on or in the washer. Close supervision of children is necessary when the washer is used near children. This appliance is not intended for use by young children or infirm persons without supervision. Young children should be supervised to ensure that they do not play with the appliance. This is a safety rule for all appliances.
- **DO NOT** reach and/or climb into the tub or onto the washer, **ESPECIALLY** if the wash drum is moving. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Never operate the washer with any guards, panels and/or parts removed or broken. **DO NOT** bypass any safety devices or tamper with the controls.
- Use washer only for its intended purpose, washing textiles. Never wash machine parts or automotive parts in the machine. This could result in serious damage to the basket or tub.
- Use only low-sudsing, no-foaming types of commercial detergent. Be aware that hazardous chemicals may be present. Wear hand and eye protection when adding detergents and chemicals. Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Heed all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times [preferably in a locked cabinet].
- Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- Always follow the fabric care instructions supplied by the textile manufacturer.
- Do not attach anything to the supply dispenser's nozzles, if applicable. The air gap must be maintained.
- Do not operate the machine without the water reuse plug or water reuse system in place, if applicable.
- Be sure water connections have a shut-off valve and that fill hose connections are tight. **CLOSE** the shut-off valves at the end of each wash day.
- Keep washer in good condition. Bumping or dropping the washer can damage safety features. If this occurs, have washer checked by a qualified service person.
- **DANGER:** Before inspecting or servicing machine, power supply must be turned **OFF**. The servicer needs to wait for at least 5 minutes after turning the power **OFF** and needs to check for residual voltage with a voltage meter. The inverter capacitor or EMC filter remains charged with high voltage for some time after powering **OFF**. This is an imminently hazardous situation that, if not avoided, will cause severe personal injury or death.
- Do not repair or replace any part of the washer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out. **ALWAYS** disconnect the washer from electrical, power and water supplies before attempting any service.
- Disconnect the power by turning off the circuit breaker or by unplugging the machine. Replace worn power cords.
- Failure to install, maintain, and/or operate this washer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

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

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



WARNING

Machine installations must comply with minimum specifications and requirements stated in the applicable Installation Manual, any applicable municipal building codes, water supply requirements, electrical wiring regulations and any other relevant statutory regulations. Due to varied requirements and applicable local codes, this machine must be installed, adjusted, and serviced by qualified maintenance personnel familiar with applicable local codes and the construction and operation of this type of machinery. They must also be familiar with the potential hazards involved. Failure to observe this warning may result in personal injury, property damage, and/or equipment damage, and will void the warranty.

W820

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

Safety Decals

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

Use manufacturer-authorized spare parts to avoid safety hazards.

Operator Safety

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

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

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

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

The following maintenance checks must be performed daily:

1. Verify that all warning labels are present and legible, replace as necessary.
2. Check door interlock before starting operation of the machine:
 - a. Attempt to start the machine with the door open. The machine should not start.
 - b. Close the door without locking it and start the machine. The machine should not start.
 - c. Attempt to open the door while a cycle is in progress. The door should not open.

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

3. Do not attempt to operate the machine if any of the following conditions are present:
 - a. The door does not remain securely locked during the entire cycle.

- b. Excessively high water level is evident.
- c. Machine is not connected to a properly grounded circuit.

Do not bypass any safety devices in the machine.

	WARNING
Operating the machine with severe out-of-balance loads could result in personal injury and serious equipment damage.	
W728	

Operation - Tumble Dryer

Operating Instructions

	WARNING
To reduce the risk of fire: • DO NOT DRY articles containing foam rubber or similarly textured rubberlike materials. • DO NOT DRY plastics, anything containing wax or chemicals such as mops and cleaning cloths, or anything dry-cleaned at home with a dry-cleaning solvent. • 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.	
W076	

	WARNING
To reduce the risk of serious injury, allow cylinder to stop before cleaning lint screen.	
W412	

	WARNING
To reduce the risk of fire, electric shock, or injury to persons, read the IMPORTANT SAFETY INSTRUCTIONS before operating this appliance.	
W727	

IMPORTANT: This appliance shall not be used to dry off solvents or dry cleaning fluids.

NOTE: Do not dry unwashed items in the tumble dryer.

1. Clean Lint Screen/Compartment

- Remove any accumulated lint from the lint screen and compartment.
- Close panel tightly against tumble dryer frame and lock panel securely, if applicable.

IMPORTANT: Clean lint screen and lint compartment daily. Failure to clean the lint screen daily will result in higher than normal temperatures that may damage laundry.

	WARNING
To reduce the risk of fire and risk of lint collecting in exhaust duct, do not operate dryer without lint filter in place.	
W771	

IMPORTANT: Make sure fresh air ventilation openings are not blocked or sealed.

2. Load Laundry

NOTE: Remove all objects from pockets such as lighters and matches.

IMPORTANT: Oil affected items can ignite spontaneously, especially when exposed to heat sources such as in a tumble dryer. The items become warm, causing an oxidation reaction in the oil. Oxidation creates heat. If the heat cannot escape, the items can become hot enough to catch fire. Piling, stacking or storing oil affected items can prevent heat from escaping and so create a fire hazard.

IMPORTANT: Load must go through a washer extraction cycle to remove excess moisture to avoid damage to tumble dryer.

- Open loading door and load cylinder with laundry. Maximum drying load is:

Model	Pound [Kg]
30	30 [13]
50	50 [23]

DO NOT OVERLOAD.

NOTE: Overloading causes slow drying and wrinkling.

- Close loading door. Tumble dryer will not operate with the door open.

3. Determine Control Type and Temperature Setting

- Refer to the various controls and follow the instructions for the appropriate control type.
- The type of fabric being dried will determine the temperature setting. Consult the fabric care label or fabric manufacturer to determine proper temperature setting.

IMPORTANT: Always follow the fabric care instructions supplied by the garment manufacturer.

4. Remove Laundry

- When the cycle is complete, open door and remove the laundry.

Reversing Operation

Tumble dryers with the reversing option reduce the tangling of large pieces of laundry and minimize wrinkling.

To program reversing on or off, refer to programming manual. In nonreversing mode, the cylinder will always turn clockwise (as viewed from the front of the tumble dryer). If cylinder is rotating counterclockwise when reversing is disabled, the tumble dryer will finish the reversing step, pause, then start in the forward direction. Refer to Programming Manual for more information on reversing.

Control Instructions

Touch Vend Control

VC, VE, VL and VY Control Suffixes

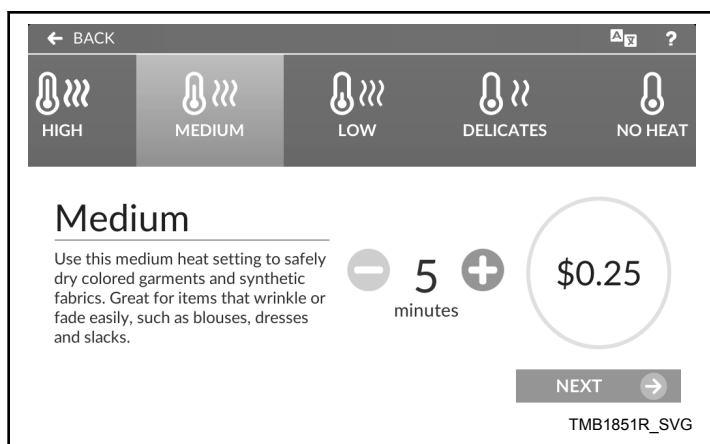
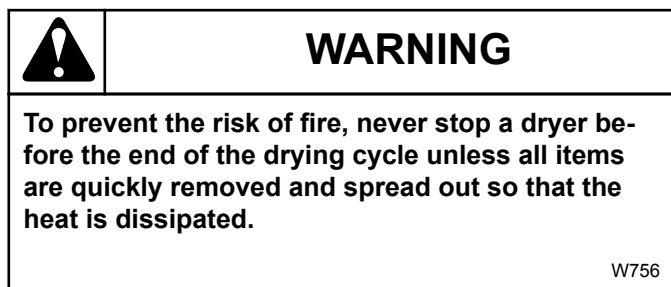


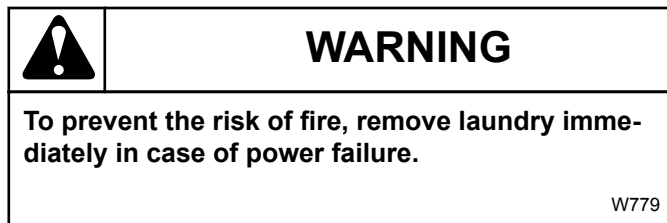
Figure 2

1. Select desired cycle on Cycle Preset screen.
2. Add additional time, if desired. Press Next.
3. Select additional options on Additional Options screen, if desired. Press Next.
4. Satisfy vend.
5. Press START.



IMPORTANT: If the loading door or lint panel door is opened during the cycle, the heating system will shut off and the motor will stop. To restart the cycle, both doors must be closed and Start must be pressed.

6. When the cycle is complete, open door and remove the laundry.



NOTE: This machine includes an anti-wrinkle/extended tumble feature. 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. After an hour, the machine enters extended tumble and will tumble for two minutes every hour for up to 18 hours or until the door is opened.

Dual Digital Control

FN Control Suffix

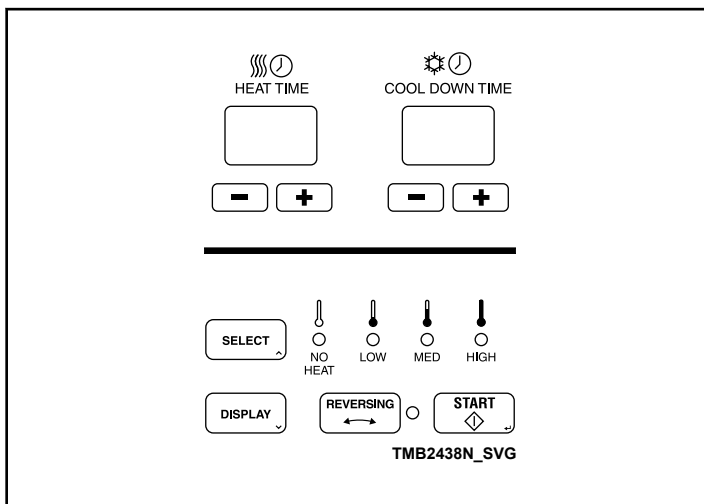


Figure 3

1. If display has gone blank due to sitting idle, press the DISPLAY keypad.
2. Press the SELECT keypad to choose HIGH, MED, LOW or NO HEAT temperature.

HIGH	Temperature 190°F [88°C]
MED	Temperature 170°F [77°C]
LOW	Temperature 120°F [49°C]

3. Press the plus and minus keypads to set HEAT TIME (0 - 99 minutes).
4. Press the plus and minus keypads to set COOL DOWN TIME (maximum of 15 minutes).
5. Press the REVERSING keypad to change the cylinder rotation setting, if applicable.

6. Press the START keypad to start tumble dryer. Display will show minutes remaining before end of cycle.

	WARNING
To prevent the risk of fire, never stop a dryer before the end of the drying cycle unless all items are quickly removed and spread out so that the heat is dissipated.	
W756	

NOTE: One touch drying is available for repetitive loads. If the START keypad is pressed while the machine is in Idle Mode, when the display is dark, the tumble dryer will repeat the last drying cycle. If the cycle time is adjusted before the cycle is started, the time displayed when the start button was pressed will be used for future cycles.

IMPORTANT: To stop the tumble dryer at any time during the cycle, OPEN DOOR. If the loading door or lint panel door is opened during the cycle, the heating system will shut off and the motor will stop. To restart the cycle, both doors must be closed and the START keypad must be pressed.

7. When the cycle is complete, open door and remove the laundry.

	WARNING
To prevent the risk of fire, remove laundry immediately in case of power failure.	
W779	

NOTE: This machine includes an extended tumble feature. After 20 minutes, the machine enters extended tumble and will tumble for two minutes every hour for up to 18 hours or until the door is opened.

Ignition Control Operation and Troubleshooting

	WARNING
70482001 and 70482002 controls cannot be serviced by the user. If any control failures are detected, the controls must be replaced by qualified service personnel. Risk of explosion or fire can result if the control module has been opened or with any attempts to repair it and the warranty is void.	
W899	

Troubleshooting

Before troubleshooting the system, check the following items:

- Verify all mechanical and electrical connections are secure and tight.
- Verify all system wiring is correct.
- Verify there is a proper system ground. The igniter, flame sensor and igniter module must share a common ground with the burner. Nuisance shutdowns are often caused by a poor or erratic ground.
- Verify that the system is powered and that the control is calling for heat.
- If the control proceeds to an error code on the red diagnostic LED, troubleshoot per the Fault conditions table below:

Fault Conditions	
LED Indication	Fault Mode
Off	Normal Operation
1 Flash	At Power Up
2 Flashes	Flame Without Call For Heat
3 Flashes	Ignition Lockout
4 Flashes	Manual Reset Error
Steady On	Internal Control Failure

NOTE: The LED will flash on for 1/4 second, then off for 1/4 second during a fault condition. The pause between fault codes is 3 seconds.

NOTE: Additional diagnostics are available through the control. Refer to appropriate programming manual for more information.

Internal Control Failure

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

Troubleshooting Guide	
Symptom	Probable Cause
Control in Lockout Mode	Manual reset of the control is needed. Reset by pushing start button on front end control with the service door open (single machines) or with manual programming connector open (stack machines), if applicable (120-200 models do not have a service door).
Control does not start, green LED is off	12 VDC present between 12VDC and ground. If not, see machine schematic. 24 VDC present between TH and ground. If not, see machine schematic.
Thermostat on, no spark or valve	- High voltage cable connects to control and electrode. Voltage present at gas valve. - Defective control. Check red LED for steady on or flashing codes.
Valve on, no spark during TFI	- Shorted electrode. - Spark gap not correct. Set to .094-.156 inch. - High voltage cable is faulty or has a poor connection. - Control failure.
Spark on, no flame	- Is gas on? 24 VDC at gas valve. - Defective control. Check voltage between gas valve and GND on control.
Flame okay during TFI, no flame sense after TFI	- Check electrode position and cleanliness. - Check high voltage cable. - Poor ground at burner. - Poor flame, check flame current.
Reset failure	Reset pin is shorted to ground. Verify wiring.

Proper Electrode Location

Proper location of the electrode assembly is important for optimal system performance. The electrode assembly should be located so that the tips are inside the flame envelope and about 1/2 inch [1.2 cm] above the base of the flame. Refer to *Figure 4*.

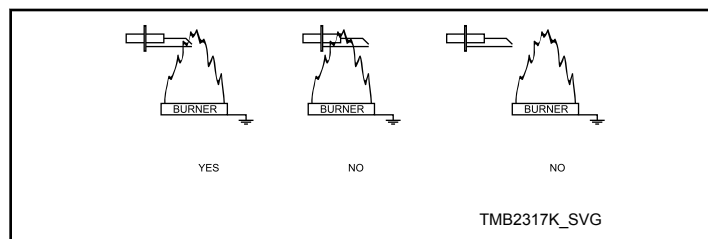


Figure 4

Flame Current Measurement

Flame current is the current that passes through the flame from sensor to ground. To measure flame current, connect a True RMS or analog DC micro-amp meter to the FC+ and the FC- terminals.

Operation - Tumble Dryer

The reading should be 1.0 micro-amps DC or higher. If the meter reads negative or below “0” on the scale, the meter leads are reversed. Re-connect leads with proper polarity.

Alternately, a Digital Voltmeter may be used to measure the DC voltage between the FC+ and FC- terminals. Each micro-amp of flame current produces 1.0 VDC, so a reading of 2.6 VDC would equate to 2.6 micro-amps.

A good burner ground that matches the control ground is critical for reliable flame sensing.

Operation - Washer-Extractor

Basket Rotation

Check that basket rotation is counterclockwise in the extract step.

1. If rotation is not counterclockwise, disconnect power to machine.
2. Have a qualified electrician reverse any two motor leads at the inverter terminal block.

Operating Instructions

1. Turn on main power source (circuit breaker).
2. Turn handle clockwise to open. Refer to *Figure 5*.

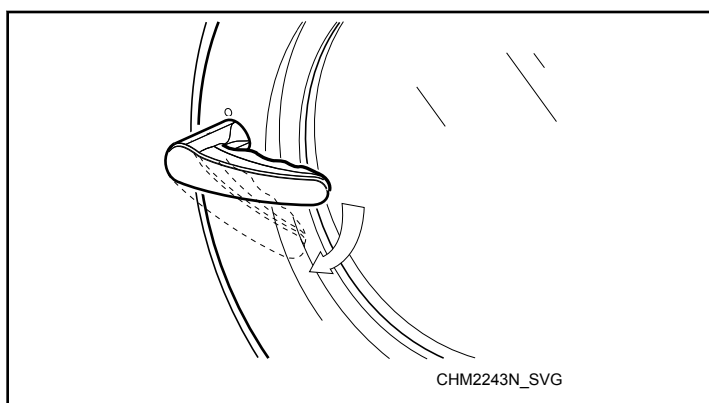


Figure 5

3. Load to capacity whenever possible. DO NOT OVERLOAD. Refer to *Figure 6*.

NOTE: Underloading can cause out-of-balance conditions that can shorten machine life.



CAUTION

Be careful around the open door, particularly when loading from a level below the door. Impact with door edges can cause personal injury.

SW025

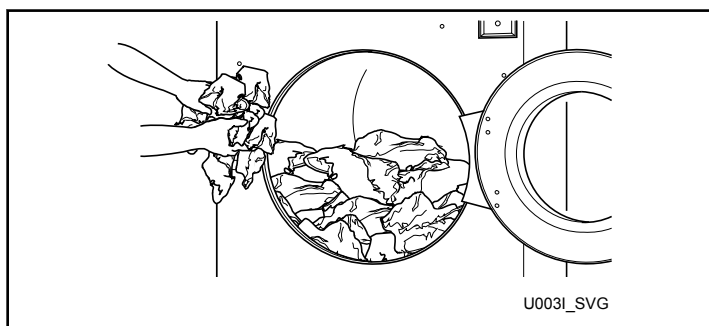


Figure 6

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

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

4. Close the door and turn handle counter clockwise. Refer to *Figure 7*.

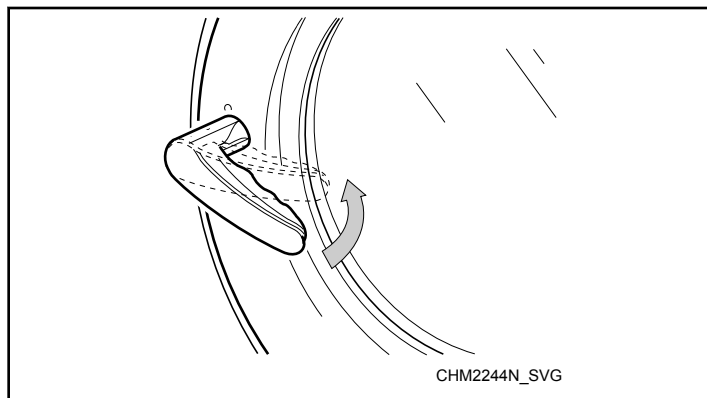


Figure 7

5. Refer to *OPL Control Instructions* to select and start a cycle.



CAUTION

Water cannot be extracted from rubber backed items. To avoid damage to machine from out of balance conditions, do not use a spin (extract) step when washing rubber backed items. Warranty will be voided.

W880



WARNING

To prevent personal injury, avoid contact with inlet water temperatures higher than 125° Fahrenheit [51° Celsius] and hot surfaces.

W748

Vend Models with V Control

1. Select a cycle from the cycle options menu *All Cycles* Page. Select the desired temperature, then touch NEXT (refer to *Figure 8*).

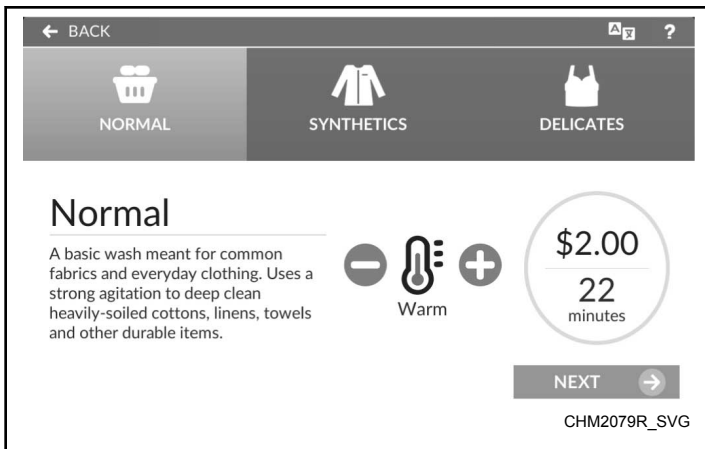


Figure 8

2. If programmed, select desired options from the Additional Options Menu. The vend price and cycle time changes accordingly. When finished adding options, touch PAYSTART (refer to Figure 9). Additional options are not available on Rinse the Machine.



Figure 9

3. The Payment Menu shows the cycle selection summary and vend price total (refer to Figure 10). Once the total vend price is entered, the vend price total changes to show START.

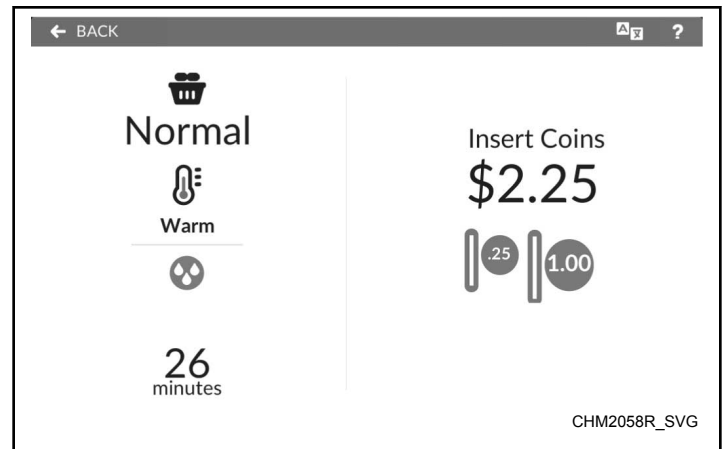


Figure 10

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

4. Add liquid and/or powder supplies to supply dispenser. Refer to Table 1.
5. Touch START to begin the cycle.
6. The control displays the *Run Menu* until the cycle is complete.

Models with F Control

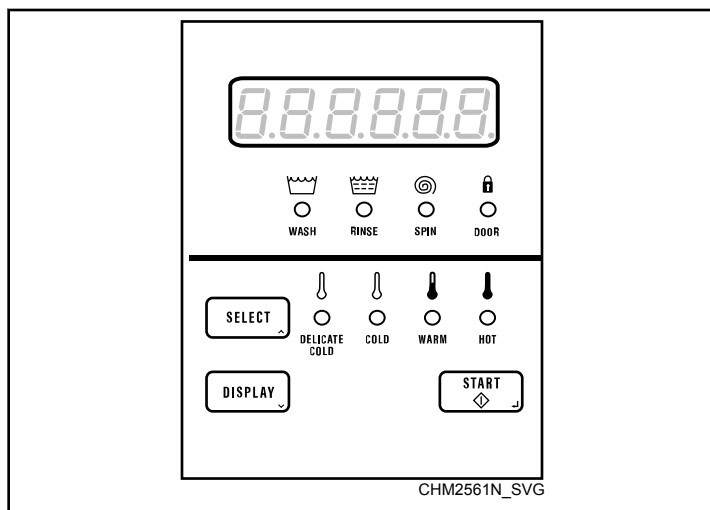


Figure 11

1. If display has gone blank due to sitting idle, press the keypad.
 2. Press the keypad to choose , , or . The corresponding LED indicates the selection.
 3. Add liquid and/or powder supplies to supply dispenser. Refer to *Table 1*.
 - a. Detergent:
 - Liquid - Compartment 1 (prewash) + Compartment 3
 - Powder - Compartment 1 (prewash) + Compartment 2
 - b. Bleach:
 - Liquid - Compartment 3
 - Powder - Compartment 2
 - c. Softener:
 - Liquid - Compartment 4
 4. Press the START keypad to select.
- NOTE: Cycles can be changed anytime during the first Fill Step. After the first Fill Step, all cycle keypad presses are ignored.**
5. When a cycle is complete, the control displays **00**.

Adding Supplies

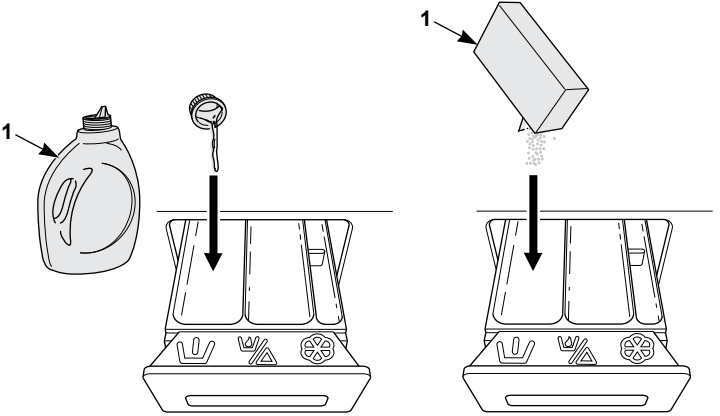
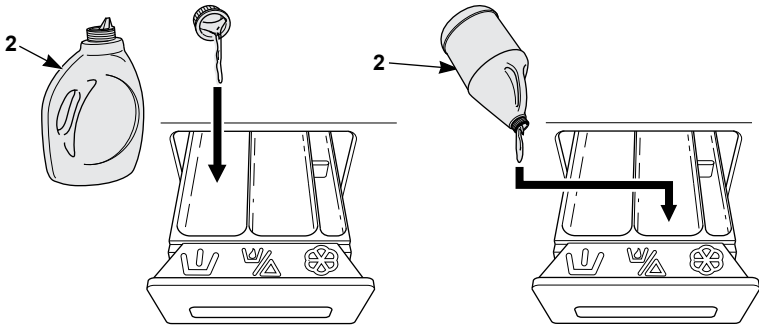
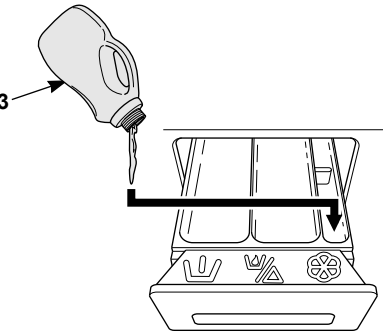
a. DETERGENT	 CHM2652N_SVG 1. Liquid or Powder Detergent
b. BLEACH	 CHM2653N_SVG 2. Liquid Detergent or Bleach
c. SOFTENER	 CHM2654N_SVG 3. Liquid Softener

Table 1

Maintenance - Tumble Dryer

Daily

1. Beginning of day:
 - a. Inspect gas supply line for gas leaks.
 - b. Keep machine area clear and free from combustible materials, gasoline and other flammable vapors and liquids.
 - c. Inspect door switch and door catch before starting operation.
 1. Attempt to start machine with door open. Machine should not start with door open.
 2. Close door and start a cycle. Verify that door stays closed.
 3. Open door. Door should open with no more than 15 pounds [1.03 bar] of applied force to the door handle. Cylinder should stop turning when door is opened.
 - d. Inspect outside weather hood to make sure dampers move freely and are not obstructed by any internal or external objects at the exhaust.
 - e. Ensure all guards and panels are properly installed.
2. End of day:
 - a. Clean lint filter to maintain proper airflow and avoid overheating.

	WARNING
To reduce the risk of serious injury, do not open the lint panel while the tumble dryer is in operation. Before cleaning the lint screen, open tumble dryer door and allow cylinder to completely stop.	
W410R1	

- b. Inspect cylinder for foreign objects to avoid damage to clothing and equipment.
- c. Clean dryer drum with an all-purpose cleaner and a damp cloth. **DO NOT LEAVE CLOTHING IN THE TUMBLE DRYER OVERNIGHT.**
- d. Clean machine's exposed surfaces with all-purpose cleaner. **DO NOT** use ammonia-based or vinegar-based cleaners on overlays.

Monthly

1. Inspect electrical connections for looseness. Tighten as required after disconnecting power.
2. Clean electronic controls and coin acceptor of debris, if applicable, and verify ease of operation.
3. Remove lint filter and thoroughly vacuum exhaust duct.

4. Inspect fan, removing any accumulated lint or debris from fan to maintain proper airflow, avoid overheating and prevent vibration.
5. Wash lint screen with hot water and mild detergent to remove fabric softener residue.
6. Inspect door assembly for loose or missing components. Inspect door seal.
7. Inspect steam coil air intake filter, if applicable. Replace if dirty or damaged.
8. **Models equipped with a fire suppression system:** Inspect all inlet hoses for any visible signs of deterioration. Perform the fire suppression system maintenance test by pressing the test button in the control box. Refer to *Fire Suppression System (Optional Equipment) Maintenance Test* for full instructions.

Yearly

1. Remove front panel(s) and cylinder. Remove any accumulated lint from all interior surfaces and cylinder baffles.
2. Inspect seals, rollers, bearings, idler assembly, drive pulley and belt for wear or damage. Replace worn or cracked belts or damaged components as necessary.
3. Remove any accumulated lint or debris from thermistor, cabinet high limit thermostat, stove high limit thermostat(s), including perforated cover, if present. Lint buildup will act as an insulator, causing machine to overheat.
4. Remove any accumulated lint or debris from drive and blower motors.
5. Remove any accumulated lint or debris from burner tubes and orifice area. Remove burner tubes and clean using water and a brush.
6. **Machines equipped with steam coils and/or heat exchanger kit:** Clean the inlet and outlet with a soft brush or clean by using hot water and, if needed, a mild detergent.
7. Remove any accumulated lint or debris from exhaust duct interior to maintain proper airflow to avoid overheating.
 - a. Disconnect external duct and duct access covers, if present.
 - b. Clean inside of duct and make sure all dampers operate freely.
 - c. Reconnect duct and all access covers before returning tumble dryer to operation.
8. **Gas models only:** Inspect burner for soft, uniform blue flame.
 - a. A lazy yellow tipped flame indicates a lack of air.
 - b. A harsh, roaring, very blue flame indicates too much air.
 - c. Adjust air shutter, if present, as necessary.
9. Inspect hardware for any loose nuts, bolts, screws.
10. Ensure all guards and panels are properly installed.

Maintenance - Tumble Dryer

11. Inspect all painted surfaces for bare metal. Replace or repaint if necessary.
12. Run factory test (reference programming manual for procedure details and components tested).
13. Every five years replace belts and fire suppression water inlet hoses (if applicable).

Maintenance - Washer-Extractor

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

	WARNING
Sharp edges can cause personal injury. Wear safety glasses and gloves, use proper tools and provide lighting when handling sheet metal parts.	
W366R1	

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

Follow local codes for proper advise on laundering infected garments.

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

Daily

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

	WARNING
Do not spray the machine with water. Short circuiting and serious damage may result.	
W782	

IMPORTANT: Door lock should be checked daily to ensure proper operation. Also check that all safety and instruction stickers are on the machine. Any missing or illegible safety instructions stickers should be replaced immediately.

Beginning of Day

1. Inspect the door interlock before starting operation.
 - a. Attempt to start the machine with the door open. The machine should not start.
 - b. Close the door without locking it and start the machine. The machine should not start.

- c. Attempt to open the door while the cycle is in progress. The door should not open.

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

2. Check the machine for leaks.
 - a. Start an unloaded cycle to fill the machine.
 - b. Verify that door and door gasket do not leak.
 - c. Verify that the drain valve is operating and that the drain system is free from obstruction. If water does not leak out during the first wash segment, the drain valve is closed and functioning properly.
3. Inspect the water inlet valve hose connections on the back of the machine for leaks.
4. Inspect the chemical connections for machines equipped with an automatic chemical supply system by inspecting all connections and chemical hoses for leaks or cracks.

	WARNING
To reduce the risk of electrical shock, serious injury or death, disconnect the electrical power to washer-extractor before examining the wiring.	
W636	

5. If applicable, inspect the steam hose connections for leaks.
6. Ensure all panels and guards are properly installed.

End of Day

1. Clean the wash drum, door glass, and door gasket of residual detergent and all foreign matter.
2. Clean the chemical dispenser, flushing with clean water.
3. Clean the machine's exposed surfaces with all-purpose cleaner.

IMPORTANT: Use only isopropyl alcohol to clean graphic overlays. DO NOT use ammonia based or vinegar-based cleans on overlays.

NOTE: Unload the machine promptly after each completed cycle to prevent moisture buildup. Leave loading door and dispenser lid open at the end of each completed cycle to allow moisture to evaporate.

4. Leave the loading door and dispenser lid open to allow moisture to evaporate.

NOTE: Unload the machine promptly after each completed cycle to prevent moisture buildup.

5. Shut off water supply.

Monthly



WARNING

To reduce the risk of electrical shock, serious injury or death, disconnect the electrical power to washer-extractor before examining the wiring.

W636

1. Inspect the electrical connections for looseness. Tighten as required after disconnecting power.
 - a. Verify that insulation is intact on all external wires and that all connections are secure. If bare wire is evident, call a service technician.
2. Clean inlet hose filter screens.
 - a. Turn water off and allow valve and water line to cool, if necessary.
 - b. Unscrew inlet hose from the faucet and remove filter screen.
 - c. Clean with soapy water and reinstall. Replace if worn or damaged.
 - d. Repeat procedure with the filter located inside the valve at the back of the machine.

NOTE: All filter screens should be replaced every five years.

Yearly

NOTE: Disconnect power to the machine at its source before performing maintenance procedures.

1. Remove the front panel(s) and rear access panels and inspect all hose, drain, and overflow connections/clamps for leaks. Inspect all hoses for visible signs of deterioration. Replace as necessary.
2. Inspect the belt for unusual wear, frayed edges, and improper belt tension, replacing belts and/or adjusting tensioning elements as necessary.

NOTE: Belts must not be twisted and must be properly seated on pulleys. Belt must be centered on basket pulley within .04 inches [1 mm].

- a. Use the following procedures to determine if belt(s) require replacement or adjustment. Call a qualified service technician in either case.

NOTE: Basket pulley must be rotated three (3) full turns before assessing belt tension after every adjustment.

- **Frequency Gauge.** Tighten eyebolt top nut until the correct frequency (refer to *Table 3*) is obtained mid-span. Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 12*.

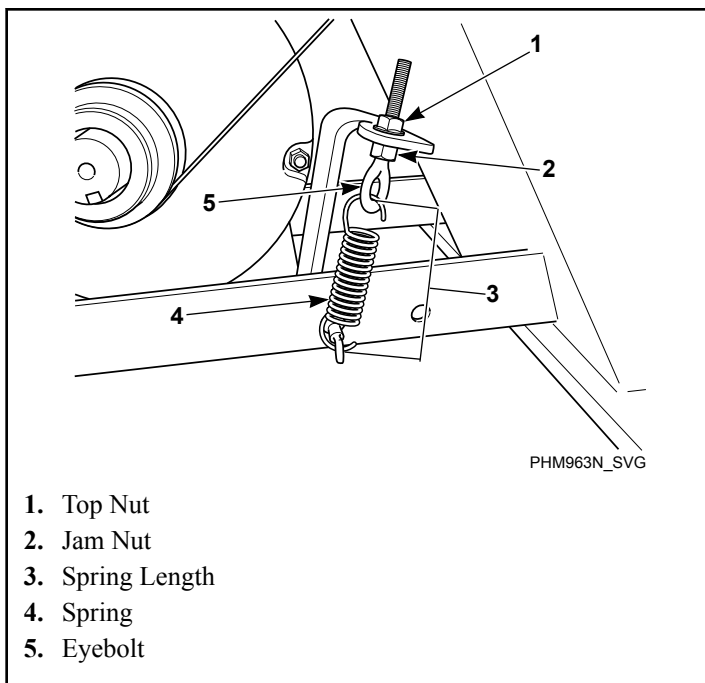


Figure 12

- **Tension Gauge.** Tighten eyebolt top nut until the proper belt gauge (refer to *Table 3*) is obtained mid-span. Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 12*.
- **Spring Length.** Tighten eyebolt top nut until the spring measures the correct distance between the hooks. Refer to *Table 2*. Torque jam nut to spring bracket to 20.6 ± 2 ft.-lbs. Refer to *Figure 12*.

Spring Length, in. [mm]	
Model	Distance Between Hooks
30	4-1/2 [114]
50	4-5/8 [117]

Table 2

- **Maintain Tension During Belt Removal.** If proper tension is achieved, tape the jam nut in place and loosen eyebolt top nut to release the belt. Replace belt and retighten eyebolt top nut back to jam nut position. Refer to *Figure 12*.

IMPORTANT: All torque joints must remain dry (non-lubricated).

- b. Verify the belt is centered on the basket pulley with in one (1) rib.

Belt Tension by Frequency or Belt Tension Gauge			
Model	Frequency (Hz)	Belt Tension (lbs.)	Tension Gauge (N)
30	84 ± 2	63.2 ± 6.3	281 ± 28
50	75 ± 2	88.6 ± 8.8	394 ± 39

Table 3

3. Remove any accumulated debris on or near the motor and motor variable frequency drive heat sinks, if applicable.
4. If applicable, unlock or unscrew the top cover and inspect the supply dispenser hoses and hose connections for visible signs of deterioration. Replace hoses if worn or damaged.

NOTE: Hoses and other natural rubber parts deteriorate after extended use. Hoses may develop cracks, blisters or material wear from the temperature and constant high pressure they are subjected to.

5. Remove any dust from all electrical components, including coin acceptors if applicable, with compressed air.
6. Inspect hardware for any loose nuts, bolts, screws.
 - a. Check the tightness of the motor spring and motor pulley hardware. Also check that the eyebolt is tightened properly.
 - b. Tighten motor mounting bolt locknuts and bearing bolt locknuts, if necessary.
 - c. Check the bearing mounting bolts to make sure they are torqued properly. Refer to *Table 4*.

Torque, ft.-lbs.		
Model	Bearing	Torque
30/50	All	101

Table 4

- d. Tighten door hinges and fasteners, if necessary.
7. Place a large magnet over the normally-closed ball switch to verify the stability switch operation.
8. Ensure all panels and guards are properly reinstalled.
 - a. Verify that the drain motor shield is in place and secure, if so equipped.
9. Run factory test, reference programming manual for procedure details and components tested.

NOTE: Refer to the Programming Manual for procedure details and components tested.
10. Inspect all painted surfaces for exposed metal. Replace or repaint if necessary.
 - If bare metal is showing, paint with primer or solvent-based paint.
 - If rust appears, remove it with sandpaper or by chemical means. Repaint with primer or solvent-based paint.
11. Torque anchor bolts and inspect grout for cracking.

NOTE: Refer to the Installation Manual for anchor bolt specifications.

IMPORTANT: All torque joints must remain dry (non-lubricated).
12. Every 5 years replace inlet hoses, hose screens, belt, and fan filter (if applicable).

Care of Stainless Steel

- Remove dirt and grease with detergent and water. Thoroughly rinse and dry after washing.
- Avoid contact with dissimilar metals to prevent galvanic corrosion when salty or acidic solutions are present.
- Do not allow salty or acidic solutions to evaporate and dry on stainless steel. Wipe clean of any residues.
- Rub in the direction of the polish lines or “grain” of the stainless steel to avoid scratch marks when using abrasive cleaners. Use stainless steel wool or soft, non-metal bristle brushes. Do not use ordinary steel wool or steel brushes.
- If the stainless steel appears to be rusting, the source of the rust may be an iron or steel part not made of stainless steel, such as a nail or screw.
- Remove discoloration or heat tint from overheating by scouring with a powder or by employing special chemical solutions.
- Do not leave sterilizing solutions on stainless steel equipment for prolonged periods of time.

- When an external chemical supply is used, ensure no siphoning of chemicals occurs when the machine is not in use. Highly concentrated chemicals can cause severe damage to stainless steel and other components within the machine. Damage of this kind is not covered by the manufacturer's warranty. Locate the pump and tubing below the machine's injection point to prevent siphoning of chemicals into the machine.

Before You Call for Service

Won't Start	Won't Heat	Clothes Not Dry	Possible Reason – Corrective Actions
•			Insert correct coin(s) or valid card if applicable.
•			Close the loading door tightly.
•			Close lint panel tightly.
•			Press the PUSH-TO-START or START pad/button.
•			Be sure power cord is plugged all the way into the electrical outlet and hard or direct wire connections are tight.
•			Check the main fuse and circuit breaker.
•			Check fuses located in the machine.
	•		Insufficient airflow.
	•		Gas shut-off valve in OFF position.
	•		Are controls properly set?
	•		Broken drive belt. Call the service person.
	•	•	Tumble dryer is in Cool Down Mode.
	•	•	Lint screen clogged. Clean lint screen.
	•	•	Exhaust duct to outside is blocked. Clean out.

Removing Machine from Service

If the machine is to be removed from service, perform the following steps where applicable:

1. Turn off electrical supply external to machine.
2. Turn off electrical disconnect on machine.
3. Turn off gas supply external to machine.
4. Turn off manual gas shut-off valve on machine.
5. Turn off steam supply external to machine.
6. Remove all electric, gas and steam connections.

Disposal of Unit

This appliance is marked according to the European directive 2002/96/EC on Waste Electrical and Electronic Equipment (WEEE).

This symbol on the product or on its packaging indicates that this product shall not be treated as household waste. Refer to *Figure 13*. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. Ensuring this product is disposed of correctly will help prevent potential negative consequences for the environment and human health which could otherwise be caused by inappropriate waste handling of this product. The recycling of materials will help to conserve natural resources. For more detailed information about recycling of this product, please contact the local city office, household waste disposal service, or the source from which the product was purchased.

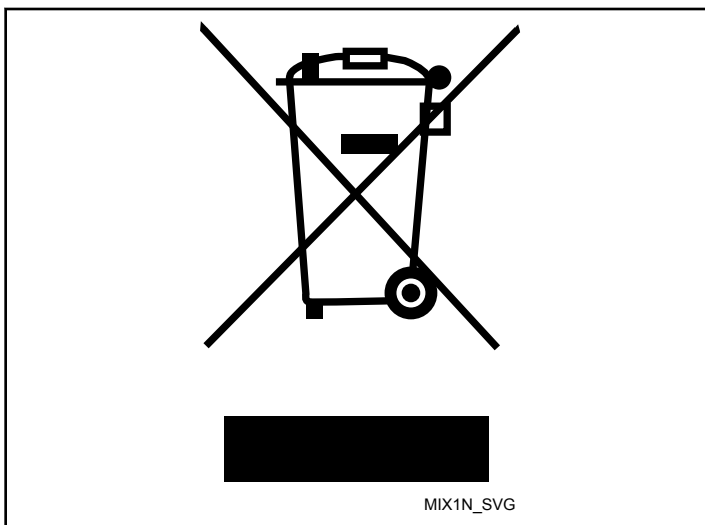


Figure 13