

# Tumble Dryers

UniMac

18 Digit Model Numbers with 3 and 5 in 13th Position

Refer to Page 9 for Model Identification

Operation/Maintenance



## 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



## 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.

# Safety Information

## Important Safety Instructions (Tumble Dryer)

	<h3>WARNING</h3>
<p><b>To reduce the risk of fire, electric shock, serious injury or death to persons when using your tumble dryer, follow these basic precautions.</b></p>	
<small>W776R1</small>	

### 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 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 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

## Machine Identification

Information in this manual is applicable to these machines. **Refer to the serial plate.**

25 Series (11 Kg)							
UA025E	UG025D	UG025S	UH025S	UJ025R	UK025R	UT025L	UU025F
UA025F	UG025E	UH025E	UJ025D	UJ025S	UL025E	UT025N	UU025L
UA025L	UG025F	UH025F	UJ025E	UK025E	UL025L	UT025R	UU025N
UA025N	UG025L	UH025L	UJ025F	UK025F	UT025E	UT025S	UU025R
UA025R	UG025N	UH025N	UJ025L	UK025L	UT025F	UU025E	UU025S
UA025S	UG025R	UH025R	UJ025N	UK025N			
RT025E-IA	RT025F-IA	RT025L-IA	RT025N-IA	RT025R-IA	RT025S-IA	RT025T-IA	
RT025E-TA	RT025F-TA	RT025L-TA	RT025N-TA	RT025R-TA	RT025S-TA	RT025T-TA	

30 Series (13 Kg)							
UA030E	UG030D	UG030S	UH030S	UJ030R	UK030R	UT030L	UU030F
UA030F	UG030E	UH030E	UJ030D	UJ030S	UL030E	UT030N	UU030L
UA030L	UG030F	UH030F	UJ030E	UK030E	UL030L	UT030R	UU030N
UA030N	UG030L	UH030L	UJ030F	UK030F	UT030E	UT030S	UU030R
UA030R	UG030N	UH030N	UJ030L	UK030L	UT030F	UU030E	UU030S
UA030S	UG030R	UH030R	UJ030N	UK030N			
RT030E-IA	RT030F-IA	RT030L-IA	RT030N-IA	RT030R-IA	RT030S-IA	RT030T-IA	
RT030E-TA	RT030F-TA	RT030L-TA	RT030N-TA	RT030R-TA	RT030S-TA	RT030T-TA	

T30 Series (13/13 Kg)							
UAT30E	UGT30D	UGT30S	UHT30S	UJT30R	UKT30R	UTT30L	UUT30F
UAT30F	UGT30E	UHT30E	UJT30D	UJT30S	ULT30E	UTT30N	UUT30L
UAT30L	UGT30F	UHT30F	UJT30E	UKT30E	ULT30L	UTT30R	UUT30N
UAT30N	UGT30L	UHT30L	UJT30F	UKT30F	UTT30E	UTT30S	UUT30R
UAT30R	UGT30N	UHT30N	UJT30L	UKT30L	UTT30F	UUT30E	UUT30S
UAT30S	UGT30R	UHT30R	UJT30N	UKT30N			

*Table continues...*

<b>T30 Series (13/13 Kg)</b>							
RTT30E-IA	RTT30F-IA	RTT30L-IA	RTT30N-IA	RTT30R-IA	RTT30S-IA	RTT30T-IA	
RTT30E-TA	RTT30F-TA	RTT30L-TA	RTT30N-TA	RTT30R-TA	RTT30S-TA	RTT30T-TA	

<b>35 Series (16 Kg)</b>							
UA035E	UG035D	UG035S	UH035S	UJ035N	UK035N	UT035L	UU035F
UA035F	UG035E	UH035E	UJ035D	UJ035R	UK035R	UT035M	UU035L
UA035L	UG035F	UH035F	UJ035E	UJ035S	UL035E	UT035N	UU035M
UA035M	UG035L	UH035L	UJ035F	UK035E	UL035L	UT035R	UU035N
UA035N	UG035M	UH035M	UJ035L	UK035F	UT035E	UT035S	UU035R
UA035R	UG035N	UH035N	UJ035M	UK035L	UT035F	UU035E	UU035S
UA035S	UG035R	UH035R					
RT035E-IA	RT035F-IA	RT035L-IA	RT035N-IA	RT035R-IA	RT035S-IA	RT035T-IA	
RT035E-TA	RT035F-TA	RT035L-TA	RT035N-TA	RT035R-TA	RT035S-TA	RT035T-TA	

<b>T45 Series (20/20 Kg) * Only available in gas</b>							
UAT45L	UGT45D	UGT45R	UHT45R	UJT45N	UKT45N	UTT45L	UUT45L
UAT45N	UGT45L	UHT45L	UJT45D	UJT45R	UKT45R	UTT45N	UUT45N
UAT45R	UGT45N	UHT45N	UJT45L	UKT45L	ULT45L	UTT45R	UUT45R
RTT45L-IA	RTT45N-IA	RTT45R-IA					
RTT45L-TA	RTT45N-TA	RTT45R-TA					

<b>50 Series (25 Kg)</b>							
UA050E	UG050D	UG050S	UH050S	UJ050N	UK050N	UT050E	UU050E
UA050L	UG050E	UH050E	UJ050D	UJ050S	UL050E	UT050L	UU050L
UA050N	UG050L	UH050L	UJ050E	UK050E	UL050L	UT050N	UU050N
UA050S	UG050N	UH050N	UJ050L	UK050L	UT050C	UT050S	UU050S
RT050E-IA	RT050F-IA	RT050L-IA	RT050N-IA	RT050S-IA	RT050T-IA		
RT050E-TA	RT050F-TA	RT050L-TA	RT050N-TA	RT050S-TA	RT050T-TA		

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

UA055E	UG055D	UG055R	UH055R	UJ055N	UK055N	UT055F	UU055F
UA055F	UG055E	UH055E	UJ055D	UJ055R	UK055R	UT055L	UU055L
UA055L	UG055F	UH055F	UJ055E	UK055E	UL055E	UT055N	UU055N
UA055N	UG055L	UH055L	UJ055F	UK055F	UL055L	UT055R	UU055R
UA055R	UG055N	UH055N	UJ055L	UK055L	UT055E	UU055E	
RT055E-IA	RT055F-IA	RT055L-IA	RT055N-IA	RT055R-IA			
RT055E-TA	RT055F-TA	RT055L-TA	RT055N-TA	RT055R-TA			

**75 Series (34 Kg)**

UA075E	UG075D	UG075S	UH075N	UJ075M	UK075N	UT075N	UU075F
UA075F	UG075E	UGF75L	UH075R	UJ075N	UK075R	UT075R	UU075L
UA075L	UG075F	UGF75N	UH075S	UJ075R	UT075C	UT075S	UU075M
UA075M	UG075L	UH075E	UJ075D	UJ075S	UT075E	UTF75L	UU075N
UA075N	UG075M	UH075F	UJ075E	UK075E	UT075F	UTF75N	UU075R
UA075R	UG075N	UH075L	UJ075F	UK075F	UT075L	UU075E	UU075S
UA075S	UG075R	UH075M	UJ075L	UK075L	UT075M		
RT075E-IA	RT075F-IA	RT075L-IA	RT075N-IA	RT075R-IA	RT075S-IA	RT075T-IA	
RT075E-TA	RT075F-TA	RT075L-TA	RT075N-TA	RT075R-TA	RT075S-TA	RT075T-TA	

**120 Series (55 Kg)**

UA120E	UG120E	UH120E	UJ120E	UK120E	UT120C	UT120N	UU120L
UA120L	UG120L	UH120L	UJ120L	UK120L	UT120E	UT120S	UU120N
UA120N	UG120N	UH120N	UJ120N	UK120N	UT120L	UU120E	UU120S
UA120S	UG120S	UH120S	UJ120S				
RT120E-IA	RT120F-IA	RT120L-IA	RT120N-IA	RT120S-IA	RT120T-IA		
RT120E-TA	RT120F-TA	RT120L-TA	RT120N-TA	RT120S-TA	RT120T-TA		

**170 Series (77 Kg) \* Only available in gas and steam**

UA170L	UG170L	UH170L	UJ170L	UK170L	UT170L	UT170S	UU170N
UA170N	UG170N	UH170N	UJ170N	UK170N	UT170N	UU170L	UU170S

Table continues...

**170 Series (77 Kg) \* Only available in gas and steam**

UA170S	UG170S	UH170S	UJ170S	UT170C			
RT170L-IA	RT170N-IA	RT170S-IA	RT170T-IA				
RT170L-TA	RT170N-TA	RT170S-TA	RT170T-TA				

**200 Series (90 Kg)\* Only available in gas and steam**

UA200L	UG200L	UH200L	UJ200L	UK200L	UT200L	UT200S	UU200N
UA200N	UG200N	UH200N	UJ200N	UK200N	UT200N	UU200L	UU200S
UA200S	UG200S	UH200S	UJ200S	UT200C			
RT200L-IA	RT200N-IA	RT200S-IA	RT200T-IA				
RT200L-TA	RT200N-TA	RT200S-TA	RT200T-TA				

**Heater Digit (Position 6)**

C - Steam (CRN)
D - Liquid Petroleum (L.P.) Gas, Japan
E - Electric
F - Reduced Electric (Eco Line)
L - L.P. Gas
M - Medium Electric
N - Natural Gas
R - Reduced Gas, Natural Gas (Eco Line)
S - Steam

**OPL Control Suffixes**

<b>Control Digit (position 7)</b>	<b>Actuation Digit (position 8)</b>	<b>Example Control Suffix Combination</b>
F - Dual Digital Control N - M-Series D - UniLine	N - OPL	FN- Dual Digital Control, OPL DN- UniLine, 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:

**Alliance Laundry Systems**  
**Shepard Street**  
**P.O. Box 990**

Ripon, WI 54971-0990

U.S.A.

[www.alliancelaundry.com](http://www.alliancelaundry.com)

Phone: +1 (920) 748-3121 Ripon, Wisconsin

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

If replacement parts are required, contact the source from where you purchased your unit or call +1 (920) 748-3950 for the name and address of the nearest authorized parts distributor.

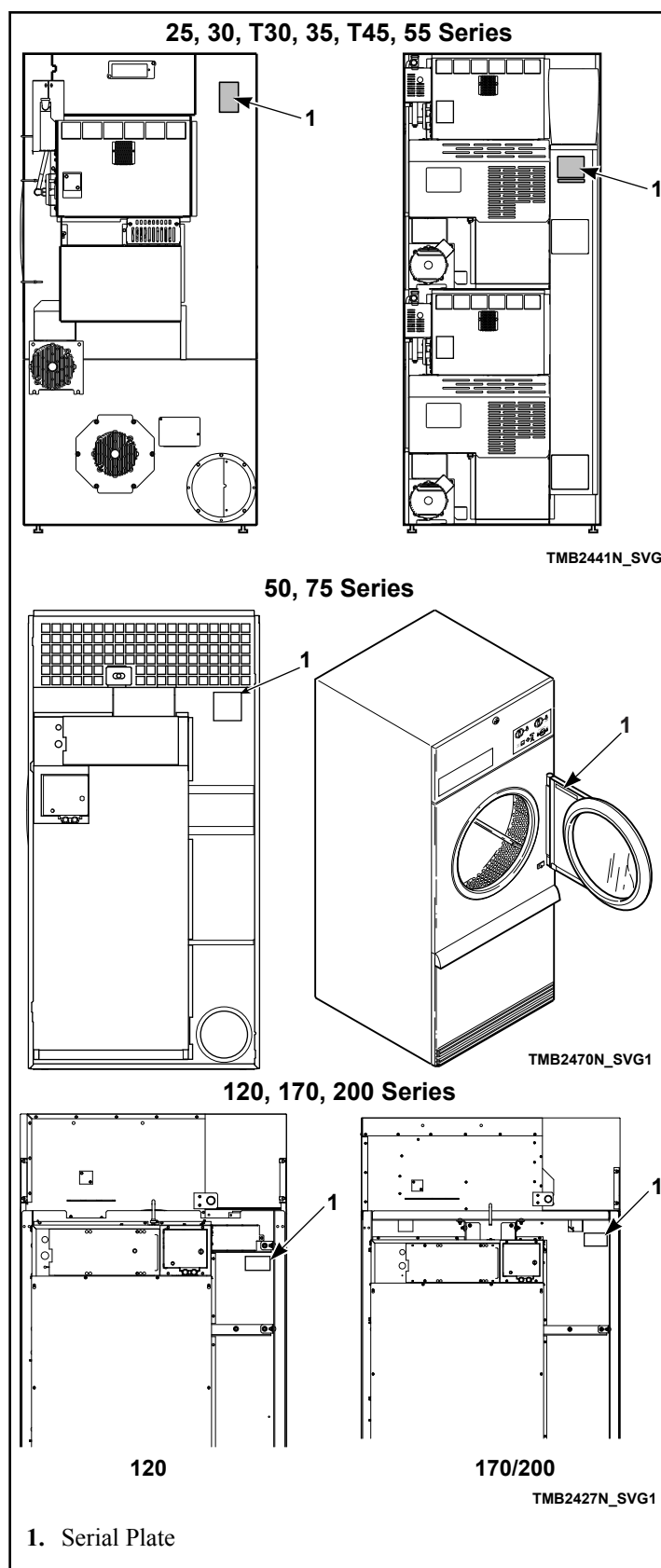


Figure 1

# Operating Instructions

## 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

## Emergency Stop Button

All tumble dryers are factory equipped with an emergency stop button located on the front panel. Refer to *Figure 2*.

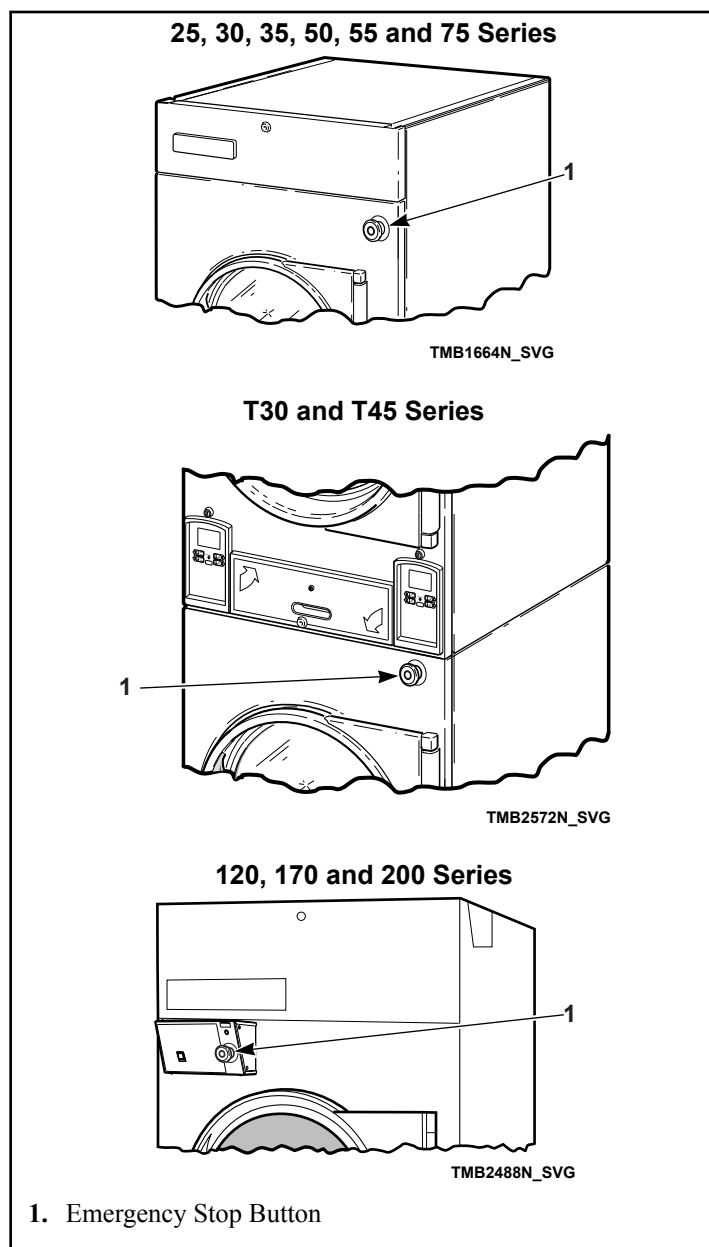



Figure 2

To operate emergency stop button:

- Press red emergency stop button to stop all action.
- To restart machine, pull red emergency stop button out and press START pad or button.

**NOTE: Activation of the emergency stop button stops all machine control circuit functions, but DOES NOT remove all electrical power from machine.**

## Operating Instructions


	<b>WARNING</b>
<p>To reduce the risk of fire, electric shock, or injury to persons, read the <b>IMPORTANT SAFETY INSTRUCTIONS</b> before operating this appliance.</p>	
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
  - a. Remove any accumulated lint from the lint screen and compartment.
  - b. 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.

	<b>WARNING</b>
<p>To reduce the risk of fire and risk of lint collecting in exhaust duct, do not operate dryer without lint filter in place.</p>	
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.

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

Model	Pound [Kg]
025	25 [11]

*Table continues...*

Model	Pound [Kg]
030	30 [13]
T30 (per cylinder)	30 [13]
035	35 [16]
T45 (per cylinder)	45 [20]
050	50 [25]
055	55 [24]
075	75 [34]
F75	75 [34]
120	120 [55]
170	170 [77]
200	200 [90]

DO NOT OVERLOAD.

**NOTE:** Overloading causes slow drying and wrinkling.

- b. Close loading door. Tumble dryer will not operate with the door open.
3. Determine Control Type and Temperature Setting
    - a. Refer to the various controls and follow the instructions for the appropriate control type.
    - b. 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
    - a. 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

### Dual Digital Control

FN Control Suffix

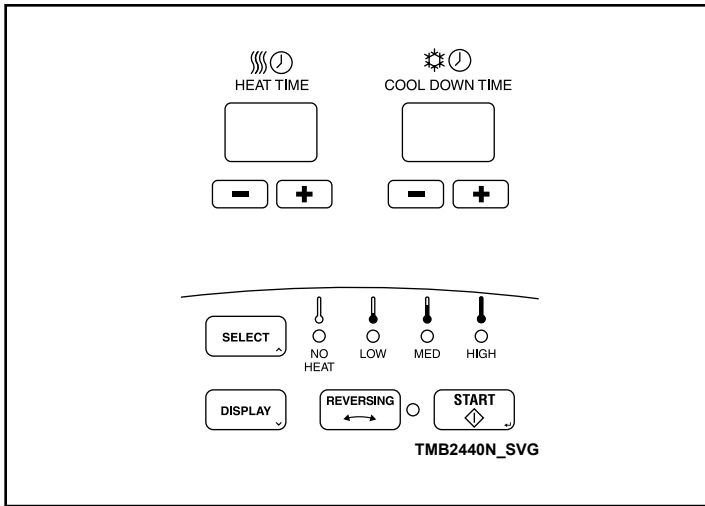


Figure 3

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.

### M-Series

NN Control Suffix

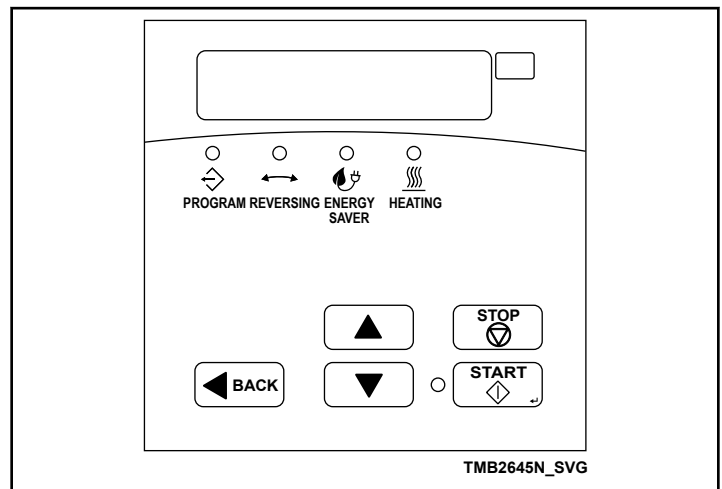



Figure 4


1. Press the Up or Down keypad to change cycles.
2. Press START to start selected cycle.



	<b>WARNING</b>
<p>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.</p>	
W756	

**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 the **START** pad must be pressed.

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

	<b>WARNING</b>
<p>To prevent the risk of fire, remove laundry immediately in case of power failure.</p>	
W779	

**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.

## UniLinc

DN Control Suffix

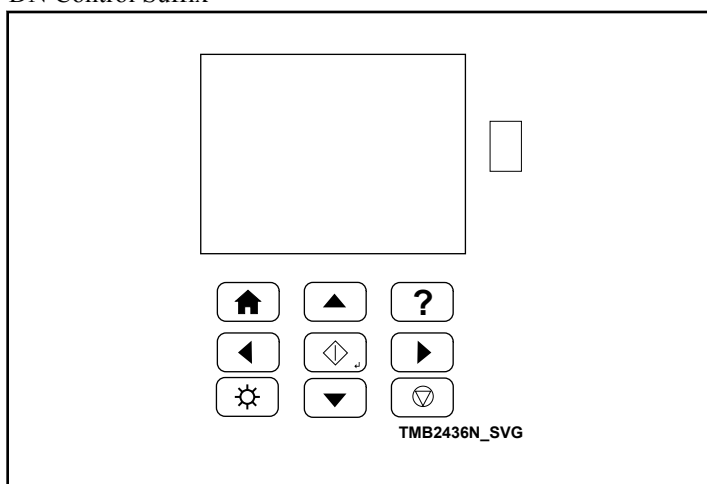




Figure 5

- Press the Up or Down keypad to change cycles.  
To customize a cycle, refer to the Programming Manual.
- Press **START** (◇) to start selected cycle.

	<b>WARNING</b>
<p>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.</p>	
W756	


**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 the **START** (◇) pad must be pressed.

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

	<b>WARNING</b>
<p>To prevent the risk of fire, remove laundry immediately in case of power failure.</p>	
W779	

**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.

## Ignition Control Operation and Troubleshooting

	<b>WARNING</b>
<p>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.</p>	
W899	

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

*Table continues...*

### Fault Conditions

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

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	1. 12 VDC present between 12VDC and ground. If not, see machine schematic. 2. 24 VDC present between TH and ground. If not, see machine schematic.
Thermostat on, no spark or valve	1. High voltage cable connects to control and electrode. Voltage present at gas valve. 2. Defective control. Check red LED for steady on or flashing codes.
Valve on, no spark during TFI	1. Shorted electrode. 2. Spark gap not correct. Set to .094-.156 inch. 3. High voltage cable is faulty or has a poor connection. 4. Control failure.

*Table continues...*

Troubleshooting Guide	
Spark on, no flame	<ol style="list-style-type: none"> <li>1. Is gas on?</li> <li>2. 24 VDC at gas valve.</li> <li>3. Defective control. Check voltage between gas valve and GND on control.</li> </ol>
Flame okay during TFI, no flame sense after TFI	<ol style="list-style-type: none"> <li>1. Check electrode position and cleanliness.</li> <li>2. Check high voltage cable.</li> <li>3. Poor ground at burner.</li> <li>4. Poor flame, check flame current.</li> </ol>
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 6*.

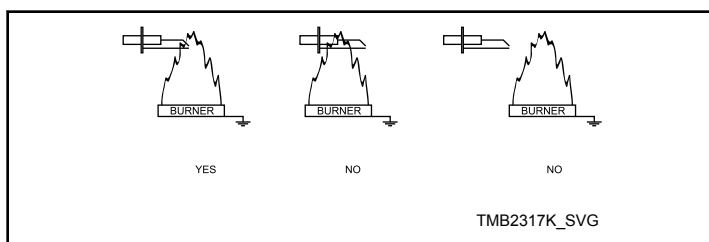


Figure 6

## 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. 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.

# Maintenance

## 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.

	<h2 style="margin: 0;">WARNING</h2>
<p><b>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.</b></p>	
<small>W410R1</small>	

- 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.

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).

## Fire Suppression System (Optional Equipment) Maintenance Test

	<b>WARNING</b>
<p><b>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.</b></p>	
W929	

	<b>WARNING</b>
<p><b>Electrical shock hazard. Can cause death or serious injury. If the water dispensing system is activated do not attempt to operate the dryer. If the water dispensing system is activated have the dryer inspected by a qualified agency before operating the dryer.</b></p> <ul style="list-style-type: none"> <li>• <b>CALL THE FIRE DEPARTMENT.</b></li> <li>• <b>DO NOT</b> disconnect electric power to the dryer.</li> <li>• <b>DO NOT</b> disconnect water to the dryer.</li> <li>• <b>DO NOT</b> touch the dryer.</li> </ul>	
W932	

**NOTE: Fire suppression system only available on gas and steam models.**

**NOTE: If the auxiliary alarm output is connected to a separate alarm system, disconnect prior to performing the fire suppression system maintenance test.**


To ensure proper operation, the fire suppression system must be tested every month. If the system test does not perform as indicated:

1. Discontinue use of the tumble dryer.
2. Refer to Troubleshooting Manual or contact a qualified service person.
3. Restore the fire suppression system to proper working order before using tumble dryer.

Create a maintenance record with a check box for pass, the date and a signature. Store this record in an area where it will not be damaged, but is easily accessible to person performing tests.

**NOTE: Failure to maintain the fire suppression system will void the tumble dryer warranty.**

**NOTE: The auxiliary output is activated during the fire suppression system maintenance test sequence. Consider this fact prior to testing the system every three months. (Example – If the external system uses the auxiliary output to call the fire department, inform the fire department before and after the fire suppression system maintenance test. If the external system uses the auxiliary output to activate a building sprinkler, disconnect auxiliary output prior to test.)**

	<b>CAUTION</b>
<p><b>Clean up any water spilled during testing to avoid personal injury.</b></p>	
W487	

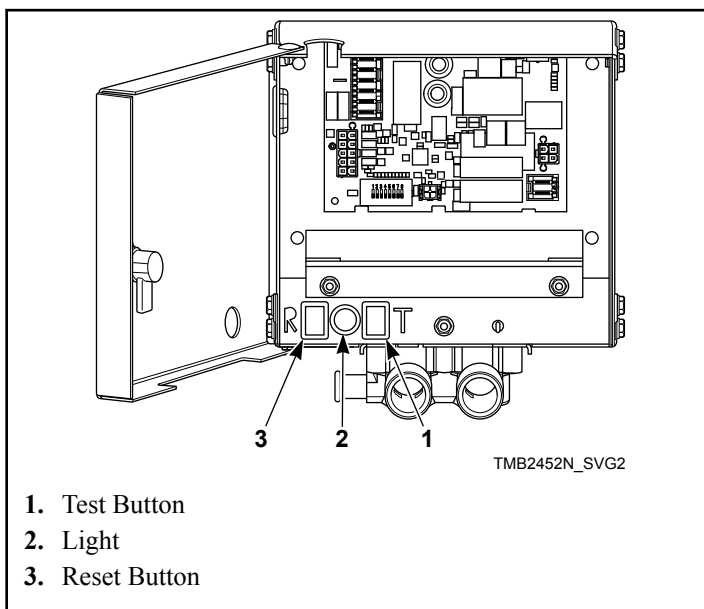


Figure 7

To perform the fire suppression system maintenance test:

1. If the auxiliary alarm output is connected to a separate alarm system, disconnect prior to performing the fire suppression system maintenance test.
2. Remove any lint from the lint compartment.
3. Ensure temperature sensors are free of lint.
4. Place a load of dry towels in the tumble dryer. Refer to *Table 1* for proper load size. Ensure the cylinder baffles are to the left and right of the spray manifold located at the center top of the cylinder.
5. Unlock the fire suppression system control box.
6. Press and hold the test button, verify the light is on, this should take approximately five seconds. Refer to *Figure 7*. After a one-second pause water should begin to spray into the cylinder.

7. After 15 seconds of water spray, press and hold the reset button until water spray is off and light is off. This should take approximately one second. Refer to *Figure 7* and *Figure 8*.
8. Immediately remove and weigh the load. Refer to *Table 1* for acceptable weight range. If less than minimum pounds indicated in *Table 1*, the fire suppression system has failed the maintenance test. Refer to the Troubleshooting Manual.

**IMPORTANT: If the fire suppression system failed the maintenance test, DO NOT operate the tumble dryer.**

	Dry Weight	Wet Weight	Minimum Weight
	lbs. [kg]	lbs. [kg]	lbs. [kg]
25	15 [9]	20-24 [9-11]	18 [8]
30	15 [9]	20-24 [9-11]	18 [8]
35	25 [11]	30-34 [14-15]	28 [13]
55	25 [11]	33-37 [15-17]	31 [14]
50	25 [11]	40-44 [18-20]	35 [16]
75	40 [18]	57-61 [26-28]	52 [24]
120	60 [27]	75-79 [34-36]	70 [32]
170	80 [36]	95-99 [43-45]	90 [41]
200	100 [45]	115-119 [52-54]	110 [50]

Table 1

9. Clean up any water on the floor.
10. Lock the fire suppression system control box.
11. If the separate alarm option is being used, reconnect the auxiliary alarm output.
12. If the cold weather fire suppression system relocation kit (part no. 44340301) is installed on this tumble dryer, purge water out of the lines to prevent freezing. Disconnect at couplers. Refer to instructions provided with kit.

13. Re-condition fire suppression test load by running through a final extract cycle in a washer-extractor to prevent damage to tumble dryer.
14. Load laundry and start the tumble dryer to dry the test load.
15. On maintenance record, check box if fire suppression system passed the test, date and sign record.

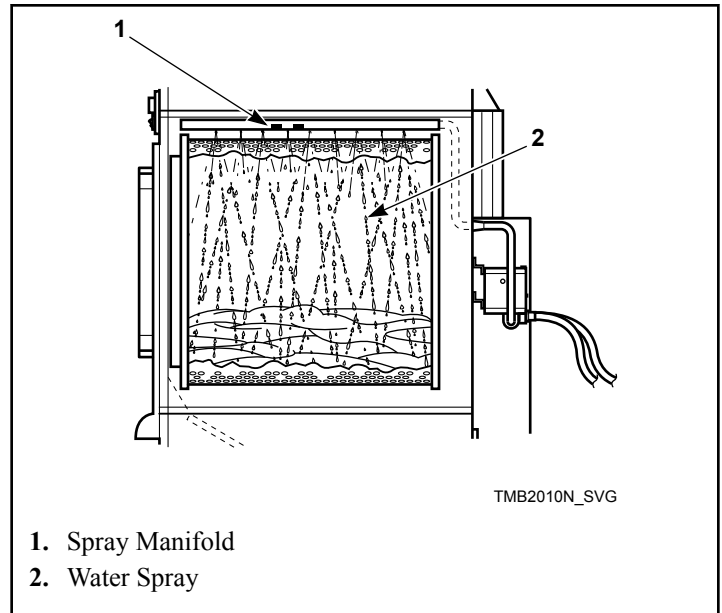


Figure 8

# 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 Tumble Dryer from Service

1. Turn off electrical supply external to machine.
2. Turn off gas supply external to machine.
3. Turn off manual gas shut-off valve on machine.
4. Turn off steam supply external to machine.
5. 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 9*. 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.

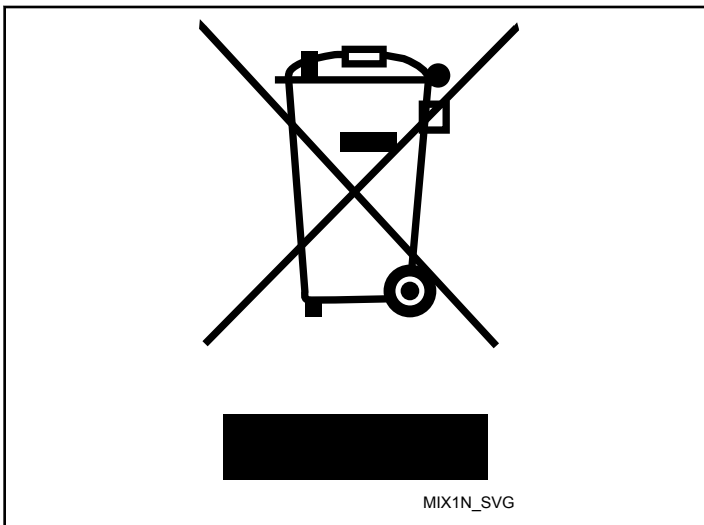


Figure 9