Tumble Dryers

Operation/Maintenance

Primus

18 Digit Model Numbers with 3 in 13th Position

Refer to Page 7 for Model Identification

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

Alliance™ Laundry Systems

www.alliancelaundry.com

Part No. 70546201ENR4
May 2020

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.

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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:

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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.

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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.**

25 Series (11 Kg)							
PA025E	PG025E	PH025E	PJ025E	PJ025S	PK025N	PT025N	PU025L
PA025L	PG025L	PH025L	PJ025L	PK025E	PT025E	PT025S	PU025N
PA025N	PG025N	PH025N	PJ025N	PK025L	PT025L	PU025E	PU025S
PA025S	PG025S	PH025S					

30 Series (13 Kg)							
PA030E	PG030E	PH030E	PJ030E	PJ030S	PK030N	PT030N	PU030L
PA030L	PG030L	PH030L	PJ030L	PK030E	PT030E	PT030S	PU030N
PA030N	PG030N	PH030N	PJ030N	PK030L	PT030L	PU030E	PU030S
PA030S	PG030S	PH030S					

T30 Series (13/13 Kg)							
PAT30E	PGT30E	PHT30E	PJT30E	PJT30S	PKT30N	PTT30N	PUT30L
PAT30L	PGT30L	PHT30L	PJT30L	PKT30E	PTT30E	PTT30S	PUT30N
PAT30N	PGT30N	PHT30N	PJT30N	PKT30L	PTT30L	PUT30E	PUT30S
PAT30S	PGT30S	PHT30S					

35 Series (16 Kg)							
PA035E	PG035E	PG035S	PH035N	PJ035M	PK035L	PT035M	PU035L
PA035L	PG035L	PH035E	PH035S	PJ035N	PK035N	PT035N	PU035M
PA035M	PG035M	PH035L	PJ035E	PJ035S	PT035E	PT035S	PU035N
PA035N	PG035N	PH035M	PJ035L	PK035E	PT035L	PU035E	PU035S
PA035S							

T45 Series (20/20 Kg) * Only available in gas							
PAT45L	PGT45L	PHT45L	PJT45L	PKT30L	PTT45L	PUT45L	PUT45N
PAT45N	PGT45N	PHT45N	PJT45N	PKT45N	PTT45N		

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50 Series (25 Kg)							
PA050E	PG050E	PH050E	PJ050E	PK050E	PT050C	PT050N	PU050L
PA050L	PG050L	PH050L	PJ050L	PK050L	PT050E	PT050S	PU050N
PA050N	PG050N	PH050N	PJ050N	PK050N	PT050L	PU050E	PU050S
PA050S	PG050S	PH050S	PJ050S				

55 Series (24 Kg) * Only available in gas and electric							
PA055E	PG055E	PH055E	PJ055E	PK055E	PT055E	PT055N	PU055L
PA055L	PG055L	PH055L	PJ055L	PK055L	PT055L	PU055E	PU055N
PA055N	PG055N	PH055N	PJ055N	PK055N			

75 Series (34 Kg)							
PA075E	PG075E	PH075E	PH075S	PJ075N	PK075N	PT075M	PU075L
PA075L	PG075L	PH075L	PJ075E	PJ075S	PT075C	PT075N	PU075M
PA075M	PG075M	PH075M	PJ075L	PK075E	PT075E	PT075S	PU075N
PA075N	PG075N	PH075N	PJ075M	PK075L	PT075L	PU075E	PU075S
PA075S	PG075S						

120 Series (55 Kg)							
PA120E	PG120E	PH120E	PJ120E	PK120E	PT120C	PT120N	PU120L
PA120L	PG120L	PH120L	PJ120L	PK120L	PT120E	PT120S	PU120N
PA120N	PG120N	PH120N	PJ120N	PK120N	PT120L	PU120E	PU120S
PA120S	PG120S	PH120S	PJ120S				

170 Series (77 Kg) * Only available in gas and steam							
PA170L	PG170L	PH170L	PJ170L	PK170L	PT170L	PT170S	PU170N
PA170N	PG170N	PH170N	PJ170N	PK170N	PT170N	PU170L	PU170S
PA170S	PG170S	PH170S	PJ170S	PT170C			

200 Series (90 Kg)* Only available in gas and steam							
PA200L	PG200L	PH200L	PJ200L	PK200L	PT200L	PT200S	PU200N
PA200N	PG200N	PH200N	PJ200N	PK200N	PT200N	PU200L	PU200S
PA200S	PG200S	PH200S	PJ200S	PT200C			

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Heater Digit (Position 6)
C - Steam (CRN)
E - Electric
L - L.P. Gas
M - Medium Electric
N - Natural Gas
S - Steam

Vended Control Suffixes		
Control Digit (position 7)	**Actuation Digit (position 8)**	**Example Control Suffix Combination**
N - XQ Control Networkable W - XQ Control Networked	C - Single Coin Drop D - Dual Coin Drop E - Electronic Coin Drop F - Single Coin Drop + CD Lock and Key H - Electronic Coin Drop + CD Lock and Key L - Prep for Central Pay Q - Dual Coin Drop + CD Lock and Key T - Token Drop V - Token Drop + CD Lock and Key X - Prep for Coin Y - Prep for Card	NC - XQ Control Networkable, Single Coin Drop WX - XQ Control Networked, Prep for Coin

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

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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
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 _____

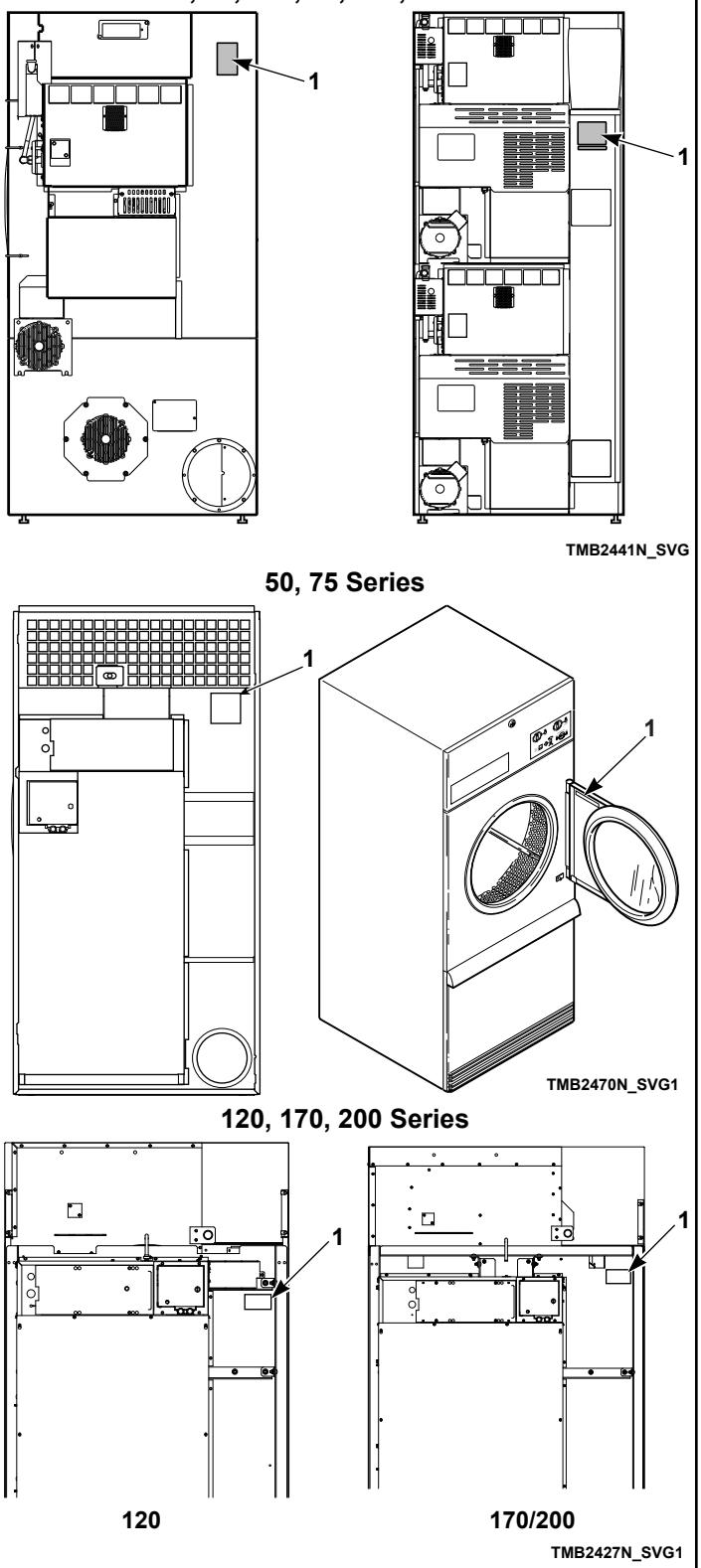
Please include a copy of your bill of sale and any service receipts you have.

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.



1. Serial Plate

Figure 1

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Safety Information

Explanation of Safety Messages

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

DANGER

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.

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- 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.

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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

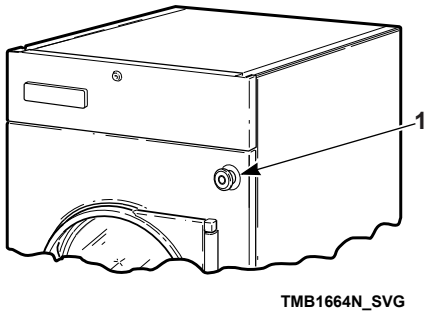
To reduce the risk of serious injury, allow cylinder to stop before cleaning lint screen.

W412

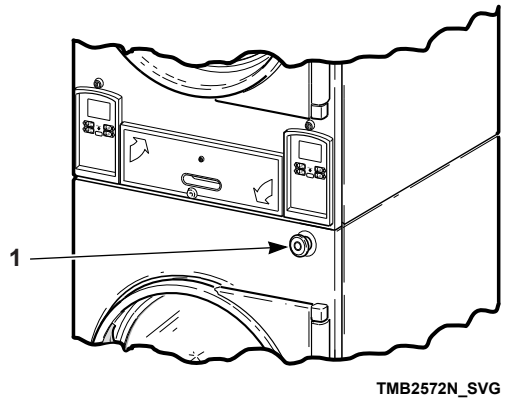
Emergency Stop Button

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

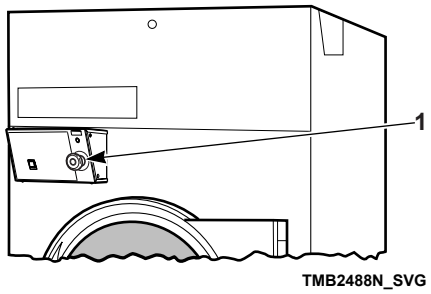
25, 30, 35, 50, 55 and 75 Series



T30 and T45 Series



120, 170 and 200 Series



1. Emergency Stop Button

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

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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
   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.

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.

   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]
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.

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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

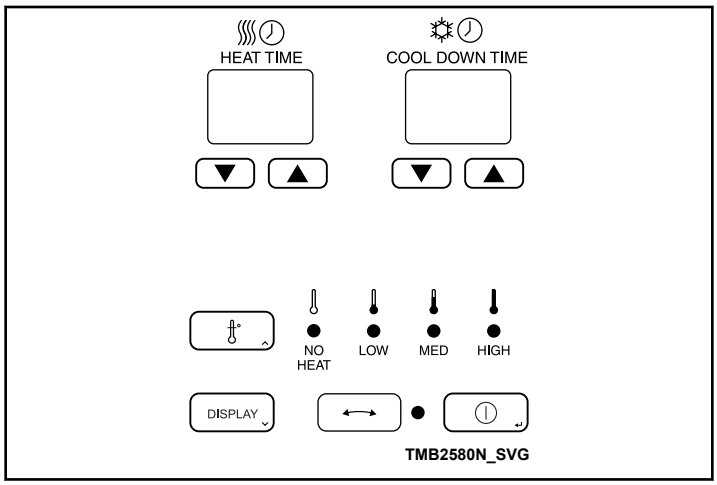


Figure 3

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.

XQ Control

NC, ND, NE, NF, NH, NL, NQ, NT, NV, NX, NY, WC, WD, WE, WF, WH, WL, WQ, WT, WV, WX and WY Control Suffixes

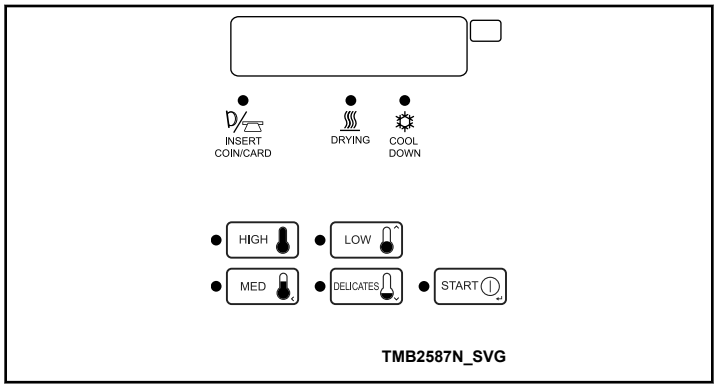


Figure 4

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1. Select HIGH, MED, LOW or DELICATES by pressing the appropriate temperature pad.

HIGH	Temperature 190°F [88°C]
MED	Temperature 180°F [82°C]
LOW	Temperature 160°F [72°C]
DELICATES	Temperature 130°F [54°C]

2. Insert the coin(s) in the coin slot or card into the card opening.
3. Press START pad to start tumble dryer.

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

IMPORTANT: To stop the tumble dryer at any time during a cycle, OPEN DOOR. To restart the tumble dryer, CLOSE door and press START pad.

4. 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.

OPL Micro Control

NN Control Suffix

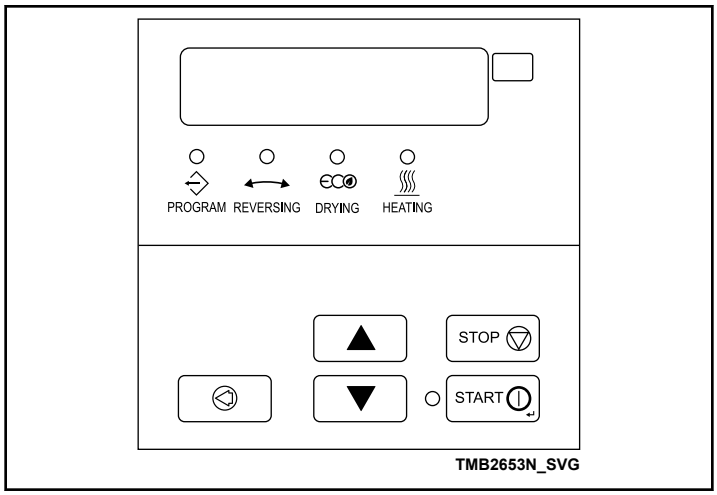


Figure 5

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

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.

3. 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 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.

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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

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

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.

Table continues...

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Troubleshooting Guide	
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.
Spark on, no flame	1. Is gas on? 2. 24 VDC at gas valve. 3. Defective control. Check voltage between gas valve and GND on control.
Flame okay during TFI, no flame sense after TFI	1. Check electrode position and cleanliness. 2. Check high voltage cable. 3. Poor ground at burner. 4. 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 6* .

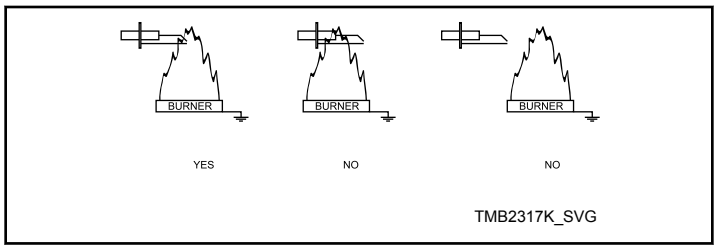


Figure 6

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.

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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.

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 residuee.
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.

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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

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

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.

- **CALL THE FIRE DEPARTMENT.**
- **DO NOT disconnect electric power to the dryer.**
- **DO NOT disconnect water to the dryer.**
- **DO NOT touch the dryer.**

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.

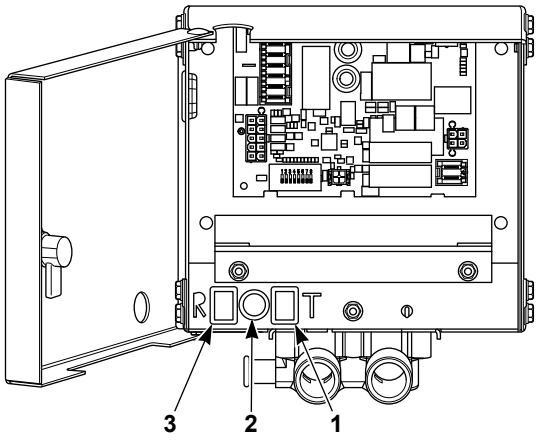
NOTE: Failure to maintain the fire suppression system will void the tumble dryer warranty.

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.)

CAUTION

Clean up any water spilled during testing to avoid personal injury.

W487



1. Test Button
2. Light
3. Reset Button

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.

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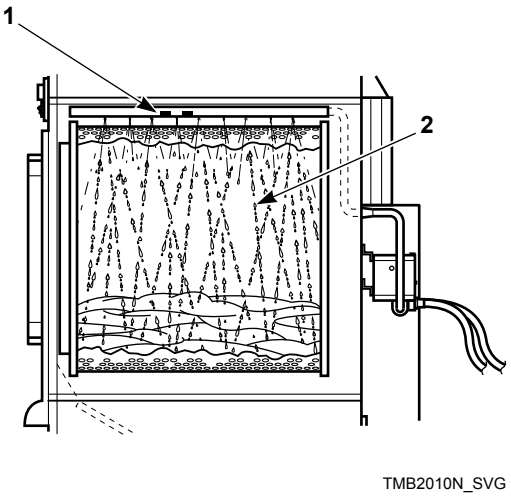
7. After 15 seconds of water spray, press and hold the reset button until water spray is off and light is off. This should take approximately one second. Refer to *Figure 7* and *Figure 8* .
8. Immediately remove and weigh the load. Refer to *Table 1* for acceptable weight range. If less than minimum 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.



1. Spray Manifold
2. Water Spray

Figure 8

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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.

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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.

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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.

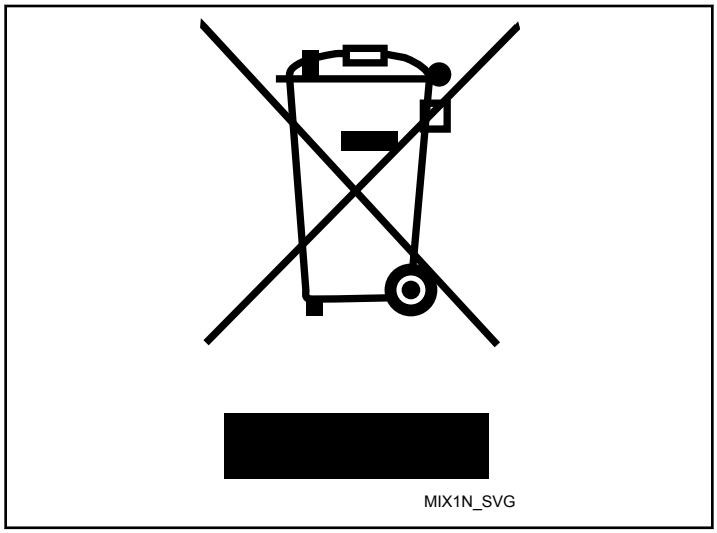


Figure 9

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