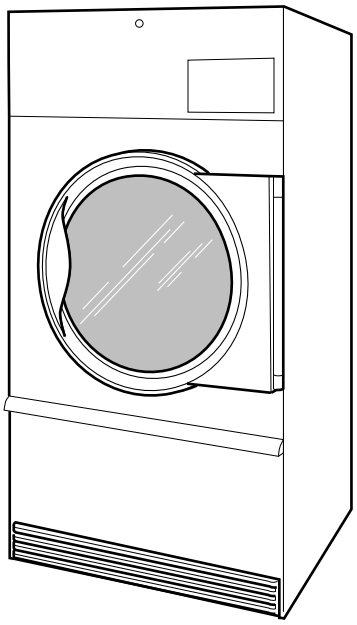
Tumble Dryers

50 Pound (25 Kilogram) Capacity
75 Pound (34 Kilogram) Capacity
Models with 0 or 3 in 13th Position of Model Number

Refer to Page 9 for Model Identification

Installation



TMB1280C_SVG

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

Part No. 70532401ENR4
April 2018

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 units 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.

Models with Wireless Board Installed

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

R-CRM-LAI-ProFlex01-R2

Table of Contents

Introduction

Model Identification

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

50 Pound (25 Kg)							
BA050E	GA050E	HG050L	KT050L	NJ050N	PK050N	SH050S	UG050L
BA050L	GA050L	HG050N	KT050N	NJ050S	PR050E	SJ050D	UG050N
BA050N	GA050N	HG050S	KT050S	NK050N	PR050L	SJ050E	UG050S
BA050S	GA050S	HH050E	MG050D	NR050E	PR050N	SJ050L	UH050E
BG050D	GG050E	HH050L	MG050E	NR050L	PR050S	SJ050N	UH050L
BG050E	GG050L	HH050N	MG050L	NR050N	PT050C	SJ050S	UH050N
BG050L	GG050N	HH050S	MG050N	NR050S	PT050E	SK050N	UH050S
BG050N	GG050S	HJ050D	MG050S	NU050E	PT050L	SR050E	UJ050D
BG050S	GH050E	HJ050E	MJ050D	NU050L	PT050N	SR050L	UJ050E
BH050E	GH050L	HJ050L	MJ050E	NU050N	PT050S	SR050N	UJ050L
BH050L	GH050N	HJ050N	MJ050L	NU050S	PU050E	SR050S	UJ050N
BH050N	GH050S	HJ050S	MJ050N	PA050E	PU050L	ST050C	UJ050S
BH050S	GJ050E	HK050N	MJ050S	PA050L	PU050N	ST050E	UK050N
BJ050D	GJ050L	HR050E	NA050E	PA050N	PU050S	ST050L	UR050E
BJ050E	GJ050N	HR050L	NA050L	PA050S	SA050E	ST050N	UR050L
BJ050L	GJ050S	HR050N	NA050N	PG050E	SA050L	ST050S	UR050N
BJ050N	GK050N	HR050S	NA050S	PG050L	SA050N	SU050E	UR050S
BJ050S	GU050E	HT050C	NG050E	PG050N	SA050S	SU050L	UT050C
BK050N	GU050L	HT050E	NG050L	PG050S	SG050D	SU050N	UT050E
BR050E	GU050N	HT050L	NG050N	PH050E	SG050E	SU050S	UT050L
BR050L	GU050S	HT050N	NG050S	PH050L	SG050L	UA050E	UT050N
BR050N	HA050E	HT050S	NH050E	PH050N	SG050N	UA050L	UT050S
BR050S	HA050L	HU050E	NH050L	PH050S	SG050S	UA050N	UU050E
BU050E	HA050N	HU050L	NH050N	PJ050E	SH050E	UA050S	UU050L
BU050L	HA050S	HU050N	NH050S	PJ050L	SH050L	UG050D	UU050N
BU050N	HG050D	HU050S	NJ050E	PJ050N	SH050N	UG050E	UU050S
BU050S	HG050E	KT050E	NJ050L	PJ050S			

75 Pound (34 Kg)							
BA075E	BU075L	HG075L	HU075N	NJ075M	PT075E	SK075R	UH075F
BA075F	BU075M	HG075M	HU075R	NJ075N	PT075L	SR075E	UH075L
BA075L	BU075N	HG075N	HU075S	NJ075S	PT075M	SR075F	UH075M
BA075M	BU075R	HG075R	KT075E	NK075N	PT075N	SR075L	UH075N
BA075N	BU075S	HG075S	KT075L	NR075E	PT075S	SR075M	UH075R
BA075R	GA075E	HH075E	KT075M	NR075L	PU075E	SR075N	UH075S
BA075S	GA075L	HH075F	KT075N	NR075M	PU075L	SR075R	UJ075D
BG075D	GA075M	HH075L	KT075S	NR075N	PU075M	SR075S	UJ075E
BG075E	GA075N	HH075M	MG075D	NR075S	PU075N	ST075C	UJ075F
BG075F	GA075S	HH075N	MG075E	NU075E	PU075S	ST075E	UJ075L
BG075L	GG075E	HH075R	MG075F	NU075L	SA075E	ST075F	UJ075M
BG075M	GG075L	HH075S	MG075L	NU075M	SA075F	ST075L	UJ075N
BG075N	GG075M	HJ075D	MG075M	NU075N	SA075L	ST075M	UJ075R
BG075R	GG075N	HJ075E	MG075N	NU075S	SA075M	ST075N	UJ075S
BG075S	GG075S	HJ075F	MG075R	PA075E	SA075N	ST075R	UK075N
BH075E	GH075E	HJ075L	MG075S	PA075L	SA075R	ST075S	UK075R
BH075F	GH075L	HJ075M	MJ075D	PA075M	SA075S	SU075E	UR075E
BH075L	GH075M	HJ075N	MJ075E	PA075N	SG075D	SU075F	UR075F
BH075M	GH075N	HJ075R	MJ075F	PA075S	SG075E	SU075L	UR075L
BH075N	GH075S	HJ075S	MJ075L	PG075E	SG075F	SU075M	UR075M
BH075R	GJ075E	HK075N	MJ075M	PG075L	SG075L	SU075N	UR075N
BH075S	GJ075L	HK075R	MJ075N	PG075M	SG075M	SU075R	UR075R
BJ075D	GJ075M	HR075E	MJ075R	PG075N	SG075N	SU075S	UR075S
BJ075E	GJ075N	HR075F	MJ075S	PG075S	SG075R	UA075E	UT075C
BJ075F	GJ075S	HR075L	NA075E	PH075E	SG075S	UA075F	UT075E
BJ075L	GK075N	HR075M	NA075L	PH075L	SH075E	UA075L	UT075F
BJ075M	GU075E	HR075N	NA075M	PH075M	SH075F	UA075M	UT075L
BJ075N	GU075L	HR075R	NA075N	PH075N	SH075L	UA075N	UT075M
BJ075R	GU075M	HR075S	NA075S	PH075S	SH075M	UA075R	UT075N
BJ075S	GU075N	HT075C	NG075E	PJ075E	SH075N	UA075S	UT075R
BK075N	GU075S	HT075E	NG075L	PJ075L	SH075R	UG075D	UT075S
BK075R	HA075E	HT075F	NG075M	PJ075M	SH075S	UG075E	UTF75L

Table continues...

75 Pound (34 Kg)							
BR075E	HA075F	HT075L	NG075N	PJ075N	SJ075D	UG075F	UTF75N
BR075F	HA075L	HT075M	NG075S	PJ075S	SJ075E	UG075L	UU075E
BR075L	HA075M	HT075N	NH075E	PK075N	SJ075F	UG075M	UU075F
BR075M	HA075N	HT075R	NH075L	PR075E	SJ075L	UG075N	UU075L
BR075N	HA075R	HT075S	NH075M	PR075L	SJ075M	UG075R	UU075M
BR075R	HA075S	HU075E	NH075N	PR075M	SJ075N	UG075S	UU075N
BR075S	HG075D	HU075F	NH075S	PR075N	SJ075R	UGF75L	UU075R
BU075E	HG075E	HU075L	NJ075E	PR075S	SJ075S	UGF75N	UU075S
BU075F	HG075F	HU075M	NJ075L	PT075C	SK075N	UH075E	

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

Contact Information

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

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

When calling or writing about your unit, PLEASE GIVE THE MODEL AND SERIAL NUMBERS. The model and serial numbers are located on the serial plate. The serial plate will be in the location shown in *Figure 1* .

Date Purchased _____

Model Number _____

Serial Number _____

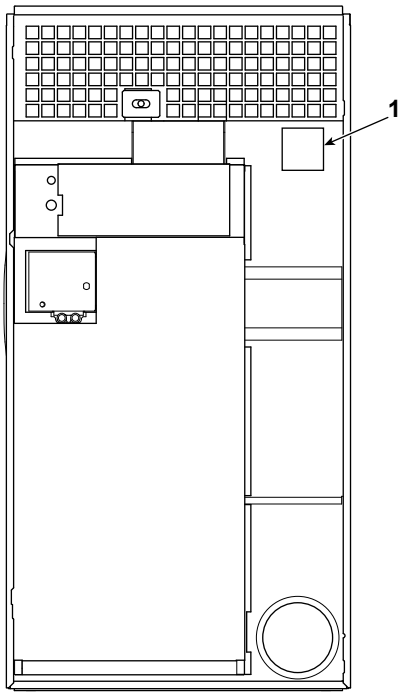
Please include a copy of your bill of sale and any service receipts you have.

WARNING

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

W329

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



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

1. Serial Plate

Figure 1

Manufacturing Date

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

Safety Information

Explanation of Safety Messages

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

DANGER

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

WARNING

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

CAUTION

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

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

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

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

Important Safety Instructions

WARNING

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

W776R1

Save These Instructions

- Read all instructions before using the tumble dryer.
- Install the tumble dryer according to the INSTALLATION instructions. Refer to the EARTHING (grounding) instructions for the proper earthing (grounding) of the tumble dryer. All connections for electrical power, earthing (grounding) and gas supply must comply with local codes and be made by licensed personnel when required. It is recommended that the machine be installed by qualified technicians.
- Do not install or store the tumble dryer where it will be exposed to water and/or weather. The tumble dryer cannot be used in a closed room where the air supply is insufficient. If necessary, ventilation grids must be installed in the doors or the windows.
- This tumble dryer must not be activated without lint screen filter.
- When you perceive a gas odor, immediately shut off the gas supply and ventilate the room. Do not power on electrical appliances and do not pull electrical switches. Do not use matches or lighters. Do not use a phone in the building. Warn the installer, and if so desired, the gas company, as soon as possible.
- To avoid fire and explosion, keep surrounding areas free of flammable and combustible products. Regularly clean the cylinder and exhaust tube should be cleaned periodically by competent maintenance personnel. Daily remove debris from lint screen filter and inside of filter compartment.
- Do not use or store flammable materials near this appliance.
- Do not place into tumble dryer articles that have been previously cleaned in, washed in, soaked in or spotted with gasoline or machine oils, vegetable or cooking oils, cleaning waxes or chemicals, dry-cleaning solvents, thinner or other flammable or explosive substances as they give off vapors that could ignite, explode or cause fabric to catch on fire by itself.
- Do not spray aerosols in the vicinity of this appliance while it is in operation.
- Items such as foam rubber (latex foam), shower caps, waterproof textiles, rubber backed articles and clothes or pillows filled with foam rubber pads should not be dried in the tumble dryer. Do not use the appliance to dry materials with a low melting temperature (PVC, rubber, etc.).
- Do not tumble fiberglass curtains and draperies unless the label says it can be done. If they are dried, wipe out the cylinder with a damp cloth to remove particles of fiberglass.
- Do not allow children to play on or in the dryer. Close supervision of children is necessary when the dryer is used near children. This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning the use of the appliance by a person responsible for their safety. This is a safety rule for all appliances.
- Cleaning and user maintenance shall not be made by children without supervision.

- Children less than three years should be kept away unless continuously supervised.
- Do not reach into the tumble dryer if the cylinder is revolving.
- Use tumble dryer only for its intended purpose, drying fabrics. Always follow the fabric care instructions supplied by the textile manufacturer and only use the dryer to dry textiles that have been washed in water. Only insert spin-dried linen in the dryer to avoid damage to dryer.
- Always read and follow manufacturer's instructions on packages of laundry and cleaning aids. Follow all warnings or precautions. To reduce the risk of poisoning or chemical burns, keep them out of the reach of children at all times (preferably in a locked cabinet).
- Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
- Remove laundry immediately after tumble dryer stops.
- DO NOT operate the tumble dryer if it is smoking, grinding or has missing or broken parts or removed guards or panels. DO NOT tamper with the controls or bypass any safety devices.
- Tumble dryer will not operate with the loading door open. DO NOT bypass the door safety switch to permit the tumble dryer to operate with the door open. The tumble dryer will stop rotating when the door is opened. Do not use the tumble dryer if it does not stop rotating when the door is opened or starts tumbling without pressing the START mechanism. Remove the tumble dryer from use and call for service.
- Tumble dryer will not operate with lint panel open. DO NOT bypass lint panel door safety switch to permit the tumble dryer to operate with the lint panel door open.
- Do not alter this tumble dryer from factory construction except as otherwise described in the technical instructions.
- Always clean the lint filter daily. Keep area around the exhaust opening and adjacent surrounding area free from the accumulation of lint, dust and dirt. The interior of the tumble dryer and the exhaust duct should be cleaned periodically by qualified service personnel.
- Solvent vapors from dry-cleaning machines create acids when drawn through the heater of the drying unit. These acids are corrosive to the tumble dryer as well as the laundry load being dried. Be sure make-up air is free of solvent vapors.
- At the end of each working day, close off all main supplies of gas, steam and electricity.

  IMPORTANT: For fire suppression equipped tumble dryers, electricity and water should NOT be turned off.
- Do not repair or replace any part of the tumble dryer, or attempt any servicing unless specifically recommended in the user-maintenance instructions or in published user-repair instructions that the user understands and has the skills to carry out. ALWAYS disconnect and lockout the electrical power to the tumble dryer before servicing. Disconnect power by shutting off appropriate breaker or fuse.
- Activation of the emergency stop switch stops all tumble dryer control circuit functions, but DOES NOT remove all electrical power from tumble dryer.
- Exhaust ductwork should be examined and cleaned annually after installation.
- Before the tumble dryer is removed from service or discarded, remove the door to the drying compartment and the door to the lint compartment.
- Failure to install, maintain, and/or operate this tumble dryer according to the manufacturer's instructions may result in conditions which can produce bodily injury and/or property damage.

NOTE: The WARNINGS and IMPORTANT SAFETY INSTRUCTIONS appearing in this manual are not meant to cover all possible conditions and situations that may occur. Observe and be aware of other labels and precautions that are located on the machine. They are intended to provide instruction for safe use of the machine. Common sense, caution and care must be exercised when installing, maintaining, or operating the tumble dryer.

Always contact your dealer, distributor, service agent or the manufacturer about any problems or conditions you do not understand.

Specifications and Dimensions

Specifications and Dimensions

Refer to machine serial plate for additional specifications.

Specifications	050 Series	075 Series	F75
Weights and Shipping Information			
Net Weight (approximate): Pounds [Kilograms]	Gas 650 [295] Steam 690 [315] Electric 680 [310]	Gas 680 [310] Steam 720 [325] Electric 710 [320]	720 [325]
Standard Packaging Weight: Pounds [Kilograms]	Gas 700 [320] Steam 740 [335] Electric 730 [330]	Gas 730 [330] Steam 770 [350] Electric 760 [345]	770 [350]
Slat Crate Packaging Weight: Pounds [Kilograms]	Gas 840 [380] Steam 880 [400] Electric 870 [395]	Gas 870 [395] Steam 910 [415] Electric 900 [410]	910 [415]
Standard Packaging Shipping Dimensions: Inches [Millimeters]	Gas and Electric 41.5 x 50.0 x 81.0 [1050 x 1270 x 2060] Steam 41.5 x 50.0 x 83.5 [1050 x 1270 x 2120]	Gas and Electric 41.5 x 56.0 x 81.0 [1050 x 1420 x 2060] Steam 41.5 x 56.0 x 83.5 [1050 x 1420 x 2120]	41.5 x 56.0 x 81.0 [1050 x 1420 x 2060]
Standard Packaging Shipping Volume: ft^3 [m^3]	Gas and Electric 97 [2.8] Steam 100 [2.8]	Gas and Electric 108 [3.1] Steam 112 [3.2]	108 [3.1]
Slat Crate Packagine Shipping Dimensions: Inches [Millimeters]	46.0 x 53.0 x 88.3 [1170 x 1350 x 2240]	46.0 x 59.0 x 88.3 [1170 x 1500 x 2240]	46.0 x 59.0 x 88.3 [1170 x 1500 x 2240]
Slat Crate Packaging Shipping Volume: ft^3 [m^3]	125 [3.5]	139 [3.9]	139 [3.9]
Cylinder Information			
Cylinder Size: Inches [Millimeters]	37.0 x 30.0 [940 x 762]	37.0 x 36.0 [940 x 914]	37.0 x 36.0 [940 x 914]
Cylinder Capacity (dry weight): Pounds [Kilograms]	50 [25]	75 [34]	75 [34]

Table 1 *continues...*

Specifications	050 Series	075 Series		F75
Cylinder Volume: feet^3 [Liter]	18.7 [530]	22.4 [634]		22.4 [634]
Operational Information				
Air Outlet Diameter: Inches [Millimeters]	8.0 [200]	8.0 [200]		10.0 [254]
Maximum Static Back Pressure: W.C.I. [Millibar, kPa]	0.50 [1.2, 0.12]	0.50 [1.2, 0.12]		0.50 [1.2, 0.12]
Maximum Airflow: C.F.M. [L/sec]	700 [330]	Classic Line 800 [380]	Eco Line Gas 700 [330] Electric 800 [380]	1100 [520]
Fan Motor: Horsepower [kW]	0.5 [0.4]	0.5 [0.4]		1.5 [1.1]
Cylinder Motor: Horsepower [kW]	0.5 [0.4]	0.5 [0.4]		1.5 [1.1]
Heat dissipation of surface area exposed to conditioned air: Btu/ft^2 [Joules/m^2]	60 [680,000]	60 [680,000]		60 [680,000]
Noise level measured during operation at operator position of 3.3 feet [1 meter] in front of machine and 5.2 feet [1.6 meters] from floor (approximate)	60 dBA	60 dBA		62 dBA
Door Opening Information				
Door Opening Diameter: Inches [Millimeter]	27.0 [686]	27.0 [686]		27.0 [686]
Door Hinge Side	Right (Reversible)	Right (Reversible)		Right (Reversible)
Door Maximum Open Angle: Degrees	180	180		180
Gas Models				
Gas Connection	1/2 NPT	1/2 NPT		3/4 NPT
Gas Burner Rating: BTU/hr. [kW, Mj/hr.]	130,000 [38.1, 137]	Classic Line 165,000 [48.4, 174]	Eco Line 130,000 [38.1, 137]	225,000 [65.9, 237]
Electric Models				
Heating Element Rating: Kilowatts	Classic Line - 30 Medium Line - 21	Classic Line - 36 Medium Line - 30 Eco Line - 21		Not Applicable

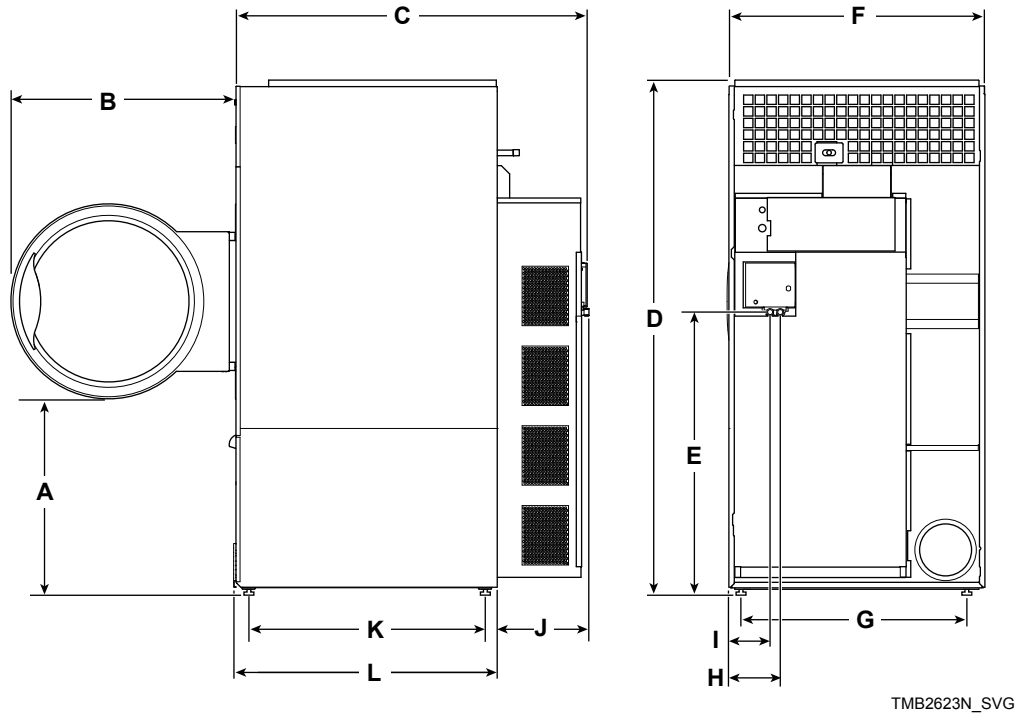
Table 1 *continues...*

Specifications	050 Series	075 Series	F75
Steam Models			
Steam Connection (Inlet and Outlet)	3/4 NPT	3/4 NPT	Not Applicable
Steam Coil Rating at 100 psig: BTU/hr. [Kg/hr.] (recommended operating pressure 80-100 psig)	113,600 [53.8]	133,900 [63.4]	Not Applicable

Table 1

NOTE: All IEC machines are shipped with an adapter to convert the gas connection threads to BSPT (from NPT).

Cabinet Dimensions



Machine Dimensions, in. [mm]						
Models	**A**	**B**	**C**	**D**	**E***	**F**
050 Series Gas and Electric	29.2 [740]	33.9 [860]	46.8 [1190]	77.3 [1960]	42.2 [1070]	38.5 [980]
050 Series Steam	29.2 [740]	33.9 [860]	46.8 [1190]	77.3 [1960]	42.2 [1070]	38.5 [980]
075 Series Gas and Electric	29.2 [740]	33.9 [860]	53.0 [1350]	77.3 [1960]	42.2 [1070]	38.5 [980]
075 Series Steam	29.2 [740]	33.9 [860]	53.0 [1350]	77.3 [1960]	42.2 [1070]	38.5 [980]
F75 Gas	29.2 [740]	33.9 [860]	53.0 [1350]	77.3 [1960]	42.2 [1070]	38.5 [980]

Table 2

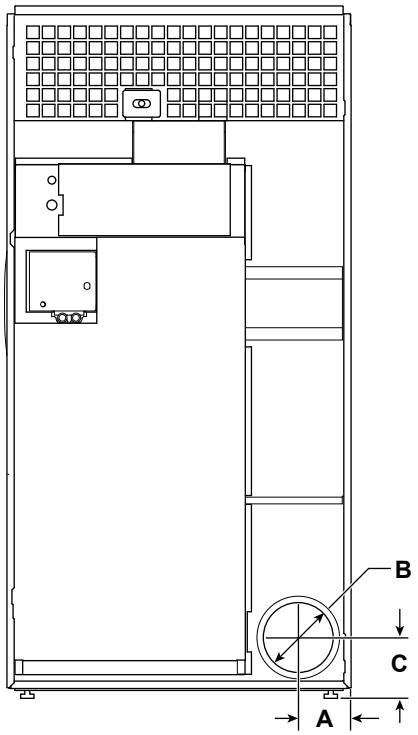
Models	**G**	**H***	**I***	**J***	**K**	**L**
050 Series Gas and Electric	33.0 [840]	7.7 [200]	6.2 [160]	13.8 [350]	29.5 [750]	32.9 [840]

Table continues...

Models	G	H*	I*	J*	K	L
050 Series Steam	33.0 [840]	7.7 [200]	6.2 [160]	13.8 [350]	29.5 [750]	32.9 [840]
075 Series Gas and Electric	33.0 [840]	7.7 [200]	6.2 [160]	13.8 [350]	35.5 [900]	39.2 [1000]
075 Series Steam	33.0 [840]	7.7 [200]	6.2 [160]	13.8 [350]	35.5 [900]	39.2 [1000]
F75 Gas	33.0 [840]	7.7 [200]	6.2 [160]	13.8 [350]	35.5 [900]	39.2 [1000]

* Fire suppression system optional - may not be on machine.

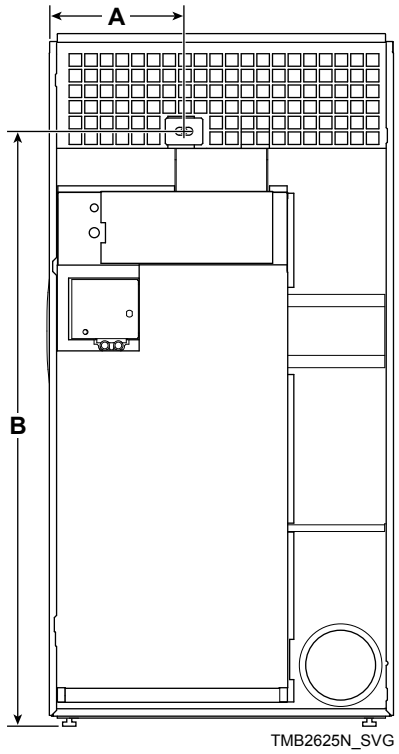
Exhaust Outlet Locations



Exhaust Outlet Dimensions, in. [mm]			
Models	**A**	**B**	**C**
050/075 Series	6.0 [150]	8.0 [200]	5.8 [145]
F75	6.3 [160]	10.0 [250]	6.2 [155]

Table 3

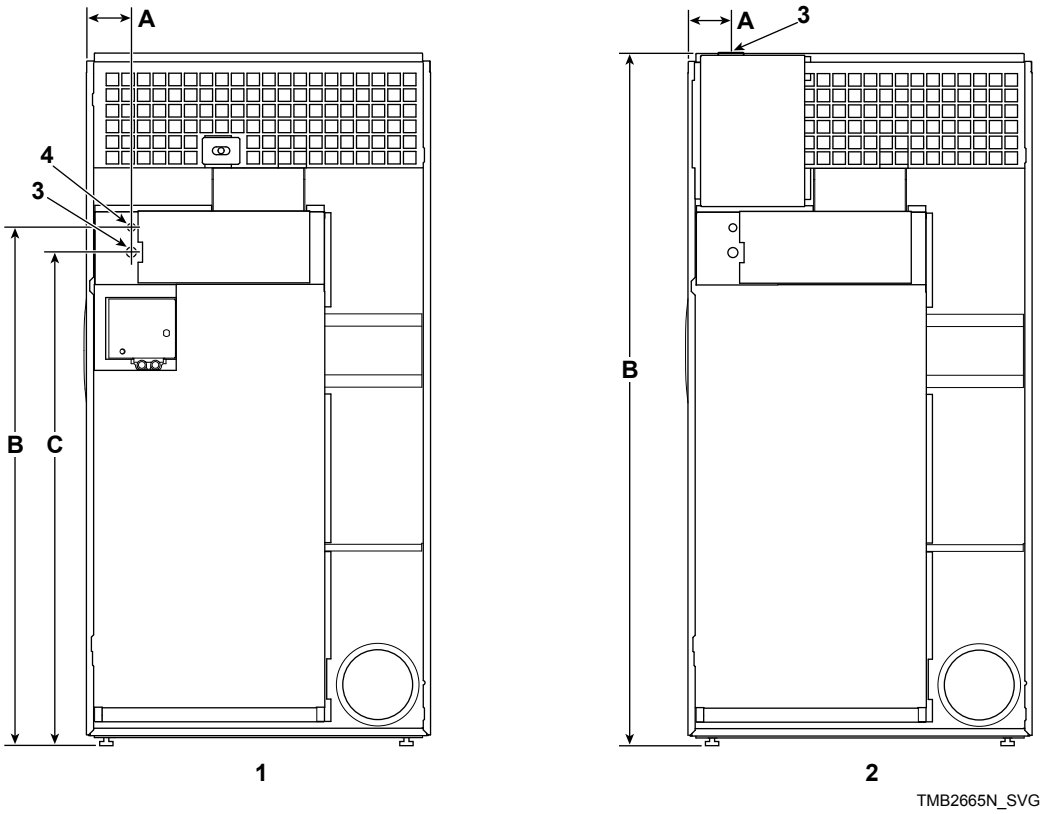
Gas Connection Locations



Models - Diameter, in. [mm]	A	B
050/075 – 1/2 NPT	15.0 [380]	66.0 [1680]
F75 – 3/4 NPT		

Table 4

Electrical Connection Locations



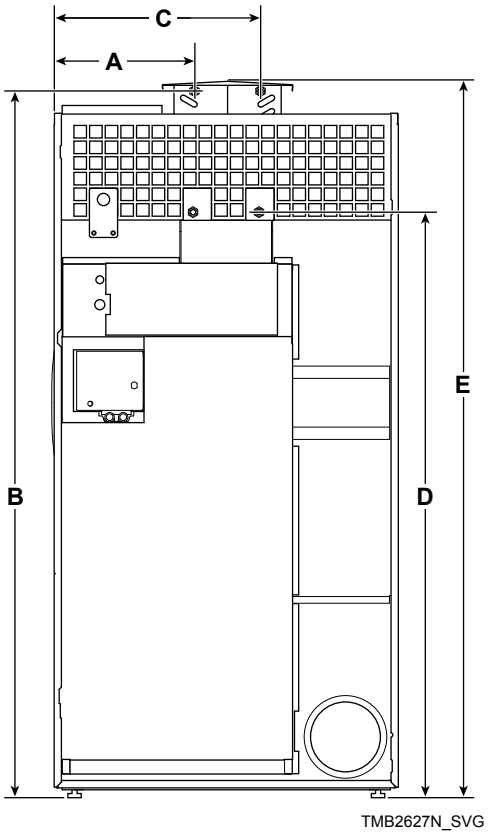
1. Gas and Steam
2. Electric
3. Electrical Connection 1.125 in. [29 mm] Diameter
4. Electrical Connection 0.875 in. [22 mm] Diameter

Connection Dimensions, in. [mm]			
Models	**A**	**B**	**C**
Gas/Steam	5.0 [130]	57.5 [1460]	55.0 [1400]
Electric	4.0 [100]	77.0 [1960]	Not Applicable

Table 5

NOTE: These figures are approximate dimensions only.

Steam Connection Locations



Connection Dimensions, in. [mm]					
Diameter	**A**	**B**	**C**	**D**	**E**
3/4 NPT	15.5 [400]	78.5 [1990]	22.8 [580]	65.0 [1650]	79.5 [2020]

Table 6

Installation

Pre-Installation Inspection

Upon delivery, visually inspect the crate, carton and parts for any visible shipping damage. If the crate, carton, or cover is damaged or signs of possible damage are evident, have the carrier note the condition on the shipping papers before the shipping receipt is signed, or advise the carrier of the condition as soon as it is discovered.

Remove the crate and protective cover as soon as possible and check the items listed on the packing list. Advise the carrier of any damaged or missing articles as soon as possible. A written claim should be filed with the carrier immediately if articles are damaged or missing.

IMPORTANT: Remove the yellow shipping wire tie securing the airflow switch.

IMPORTANT: Warranty is void unless tumble dryer is installed according to instructions in this manual. Installation should comply with minimum specifications and requirements detailed in this manual and applicable local gas fitting regulations, municipal building codes, water supply regulations, electrical wiring regulations, and any other relevant statutory regulations. Due to varied requirements, applicable local codes should be thoroughly understood and all pre-installation work arranged for accordingly.

Materials Required (Obtain Locally)	
All Models	Fused disconnect switch or circuit breaker on 1 Phase models. Circuit breaker on 3 Phase models.
Gas Models	One gas shut-off valve for gas service line to each tumble dryer.

Table continues...

Materials Required (Obtain Locally)	
Steam Models	One steam shut-off valve for steam service line to be connected upstream of solenoid steam valve. Two steam shut-off valves for each condensate return line. Flexible steam hoses with a 125 psig [pounds per square inch gauge] [862 kPa] working pressure for connecting steam coils. Refer to *Figure 22* for sizing and connection configurations. Two steam traps for steam coil outlets to condensate return line. Optional – Two vacuum breakers for condensate return lines.

IMPORTANT: 3 Phase Only – Each tumble dryer must be connected to its own individual branch circuit breaker, not fuses, to avoid the possibility of "single phasing" and causing premature failure of the motor(s).

Location Requirements

The tumble dryer must be installed on a level floor. Floor covering materials such as carpeting or tile should be removed.

To assure compliance, consult local building code requirements. The tumble dryer must not be installed or stored in area where it will be exposed to water and/or weather.

IMPORTANT: DO NOT block the airflow at the rear of the tumble dryer with laundry or other articles. Doing so would prevent adequate air supply to the combustion chamber of the tumble dryer.

A typical tumble dryer enclosure is shown in *Figure 2* .

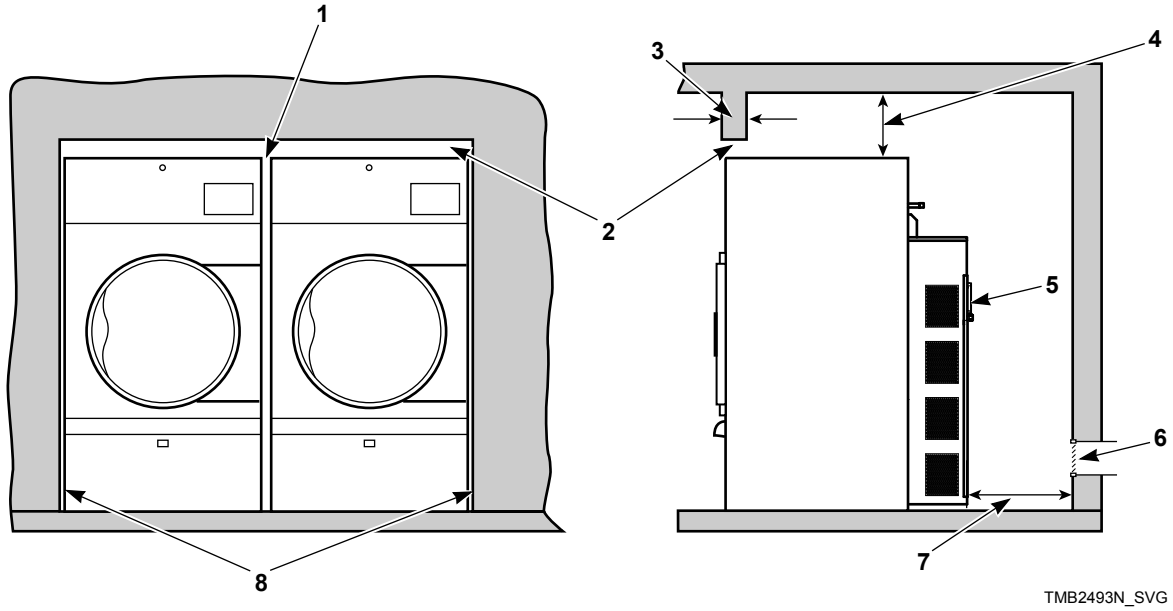
IMPORTANT: Install tumble dryers with sufficient clearance for servicing and operation, refer to *Figure 2* .

IMPORTANT: The dryer must not be installed behind a lockable door, a sliding door or a door with a hinge on the opposite side to that of the tumble dryer, in such a way that a full opening of the tumble dryer door is restricted.

WARNING

To reduce the risk of severe injury, clearance of tumble dryer cabinet from combustible construction must conform to the minimum clearances, and/or local codes and ordinances.

W770R1



NOTE: Shaded areas indicate adjacent structure.

1. 0.0 in. [0 mm] minimum, 0.5 in. [13 mm] recommended between machines for removal or installation
2. Allow 2-4 in. [51-100 mm] opening at top of machine to aid in removal or installation. A removable trim piece may be used to conceal the opening; zero clearance allowed for trim.
3. 4 in. [100 mm] maximum header thickness
4. Minimum clearance permitted for remainder: 12 in. [300 mm]
5. Guard
6. Provision for make-up air
7. 24 in. [610 mm] minimum, 36 in. [910 mm] recommended for maintenance purposes
8. 0.0 in. [0 mm] minimum, 0.25 in. [6 mm] recommended for removal or installation purposes

Figure 2

Position and Level the Tumble Dryer

1. Remove lint panel door, and unscrew the four shipping bolts (one at each corner).
2. Remove tumble dryer from pallet.

   NOTE: DO NOT discard shipping bolts, they are used as machine leveling legs.
3. Remove four nuts from the literature package, and screw one fully on to each leveling leg.
4. Screw the four leveling legs (bolts) back into the level adjusting fittings from the bottom.
5. Slide tumble dryer to its permanent location. Adjust the leveling legs until the unit is level, or no more than 0.13 inch [3.3 mm] higher in the front. Refer to *Figure 3* . Tumble dryer must not rock. Lock leveling legs with nuts previously installed.

   NOTE: The front of the tumble dryer should be slightly higher than the rear (approximately 0.13 inch [3.3 mm]). This will prevent the clothes, while tumbling, from wearing on the door glass gasket.

   IMPORTANT: Keep tumble dryer as close to floor as possible. The unit must rest firmly on floor so weight of tumble dryer is evenly distributed.

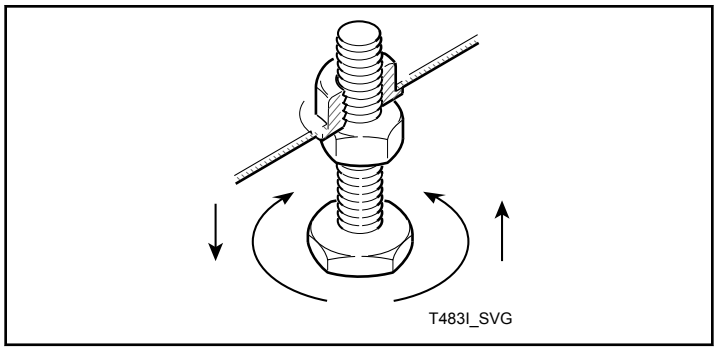


Figure 3

Fire Suppression System (Optional Equipment)

WARNING

ELECTRICAL SHOCK HAZARD. Electrical shock can result in death or serious injury. If the water dispensing system is activated, do not attempt to operate the tumble dryer. If the water dispensing system is activated, have the tumble dryer inspected by a qualified agency before operating the tumble dryer.

W879R1

IMPORTANT: Main supplies of electricity and water to the tumble dryer should remain on at all times for the fire suppression system to work.

Check Local Codes and Permits

Call your local water company or the proper municipal authority for information regarding local codes.

IMPORTANT: It is your responsibility to have ALL plumbing connections made by a qualified professional to assure that the plumbing is adequate and conforms to local, state, and federal regulations or codes.

IMPORTANT: It is the installation or owner's responsibility to confirm that the necessary or required water, water pressure, pipe size, or connections are provided. Manufacturer assumes no responsibility if the fire suppression system is not connected, installed, or maintained properly.

Water Requirements

IMPORTANT: Water must be supplied to the fire suppression system, or the fire suppression system will not operate as intended.

To ensure the fire suppression system operates properly:

- Water supply requirements: 3/4 inch hose connections providing 15 gpm [57 lpm] minimum flow; Water pressure 20 psi [138 kPa] minimum, 120 psi [827 kPa] maximum; water temperature 40°F [4.5°C] minimum, 120°F [49°C] maximum must be maintained at all times.
- Electric power to the tumble dryer must be provided at all times.
- Perform preventative maintenance checks every month. Refer to Operation/Maintenance Manual.

NOTE: Water pressure under 20 psi [138 kPa] will cause low flow at water solenoid valve.

If the rear of the tumble dryer or the water supply is located in an area where it will be exposed to cold/freezing temperatures, provisions must be made to protect these water lines from freezing.

IMPORTANT: Temperature of the water supply must be kept between 40°F and 120°F [4.5°C and 49°C]. If water in the supply line or water solenoid valve freezes, the fire suppression system will not operate.

IMPORTANT: If temperature sensors inside the tumble dryer register a temperature below 40F° [4.5°C], the fire suppression system control will lock out. This feature protects against operation of the tumble dryer with a possible frozen water supply. Only when the temperature sensors register a temperature 40F° [4.5°C] or above will the machine reset for operation.

For installations where the tumble dryer must operate below 40°F [4.5°C], a cold weather fire suppression system relocation kit (part no. 44340301) is available. Refer to the instructions provided in the kit for proper installation.

IMPORTANT: Flexible supply line/coupling must be used. Solenoid valve failure due to hard plumbing connections will void the warranty. It is recommended that a filter or strainer be installed in the water supply line.

Water Connections

WARNING

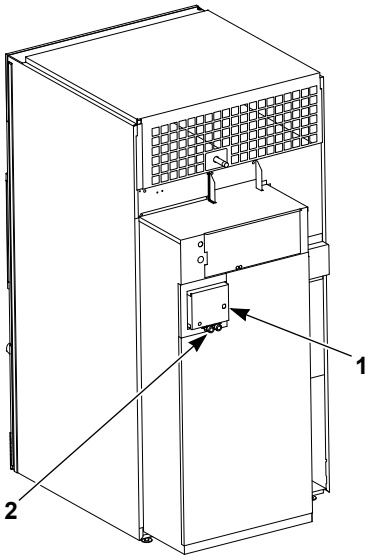
Electrical shock hazard. Can cause death or serious injury. If the water dispensing system is activated do not attempt to operate the dryer. If the water dispensing system is activated have the dryer inspected by a qualified agency before operating the dryer.

- **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

Connect tumble dryer to a backflow preventer (vacuum breaker) before connecting to the public water main in all countries where local regulations require specific water approval certificates.

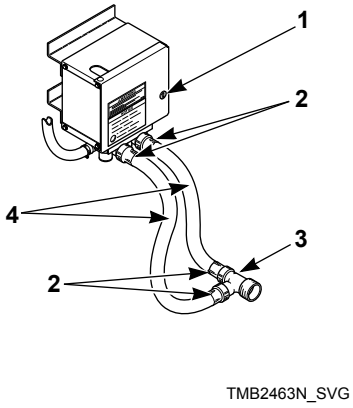
Two hoses and a Y-connector are provided with the tumble dryer to allow for connection of water supply to tumble dryer. DO NOT reuse old hose sets.The water connections are made to the water solenoid valve, located on the rear of the tumble dryer. The Y-connector provides a single female hose connection (Standard US 3/4-11 1/2 NH thread). Refer to *Figure 4* and *Figure 5* .



1. Fire Suppression System Control Box
2. Water Solenoid Valve

Figure 4

To connect the two hoses (supplied with tumble dryer), insert rubber washers (from literature pack) in water inlet hose couplings. Refer to *Figure 5* .



1. Lock
2. Hose Couplings
3. Y-Connector
4. Inlet Hoses

Figure 5

Connect inlet hoses to water supply. Flush the lines for approximately two minutes to remove any foreign materials that could clog the screens in the water mixing valve. This is especially important when installing a tumble dryer in a newly constructed or renovated building. Then connect the hoses to the Y-connector; connect the Y-connector to the connections at the rear of the tumble dryer.

IMPORTANT: Thread hose couplings onto valve connections finger tight, then turn 1/4 turn with pliers. Do not cross thread or overtighten couplings.

IMPORTANT: Hoses and other natural rubber parts deteriorate after extended use. Hoses may develop cracks, blisters or material wear from the temperature and constant high pressure they are subjected to. All hoses should be checked on a yearly basis for any visible signs of deterioration. Any hose showing the signs of deterioration listed above should be replaced immediately. All hoses should be replaced every five years.

NOTE: Longer inlet hoses are available (as optional equipment at extra cost) if the hoses supplied with the tumble dryer are not long enough for installation. Order hoses as follows:

Part No. 20617 Inlet hose 8.0 feet [2.4 m]

Part No. 20618 Inlet hose 10 feet [3.0 m]

Electrical Requirements

WARNING

Electrical power must be provided to tumble dryer at all times. The fire suppression system will be inoperative if the main electrical power supply is disconnected.

W690R1

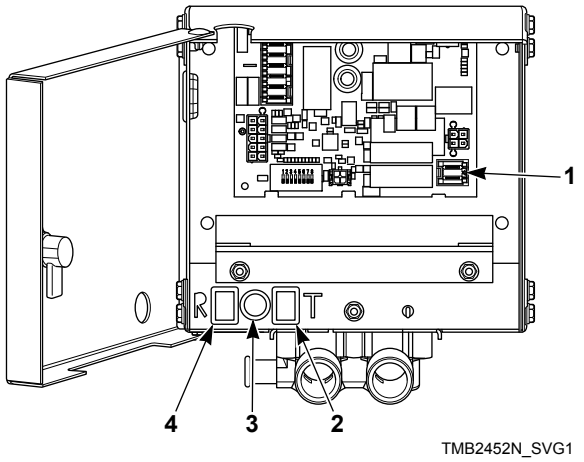
No independent external power source or supply connection is necessary. Power to operate the fire suppression system is from the tumble dryer main power supply.

Auxiliary Alarm

The fire suppression system provides an auxiliary output contact when the system is activated. During tumble dryer installation, you have the option to connect a separate alarm system to this auxiliary output. Potential uses of the auxiliary output include, but are not limited to: (1) sounds an alarm, (2) activates a building sprinkler system, (3) notifies a fire department, etc. Use of the auxiliary output is not required for the fire suppression system to operate, but may be used for additional protection.

The connection to the auxiliary output is made through the H-4 header connection inside the fire suppression control box. Refer to *Figure 6* . The relay is rated for 5 Amp, 250VAC max.

NOTE: The auxiliary output is activated during fire suppression system maintenance test sequence. Consider this fact prior to your system test every month. (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.)



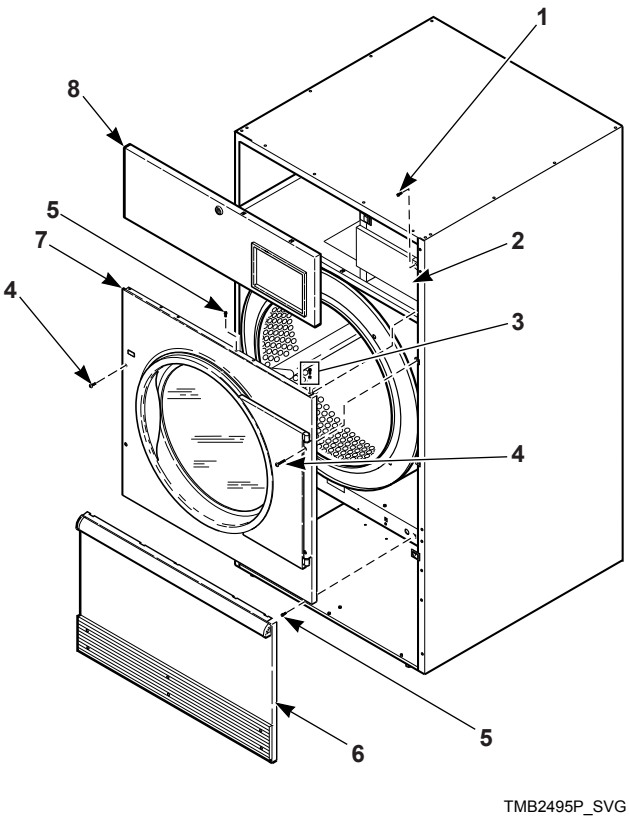
1. Auxiliary Alarm Fast-On Connection (there is a plastic shield over the control board that must be tipped down to access this connection)
2. Test Button
3. Light
4. Reset Button

Figure 6

To Reverse the Loading Door

1. Disconnect power supply to tumble dryer.
2. Unlock and remove control panel. Remove two control assembly mounting screws from right side. Swing open control to access upper flange right guide lug assembly. Refer to *Figure 7* .
3. Remove lint panel.

   IMPORTANT: Support door and hinge assembly securely to prevent it from dropping once side screws are removed from door hinge lug.

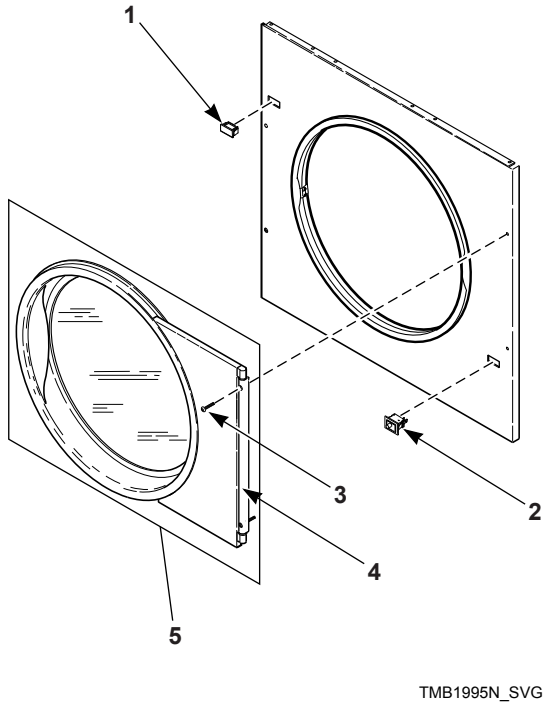


1. Control Assembly Mounting Screw
2. Control Assembly
3. Guide Lug Assembly
4. Side Screw
5. Screw
6. Lint Panel
7. Front Panel
8. Control Panel

Figure 7

4. Remove four front panel screws. Refer to *Figure 7* . Keep door hinge cams in place on door hinge lug. Pull lug and door assembly off as one piece. Refer to *Figure 8* .
5. Remove remaining front panel screws. Refer to *Figure 7* . Disconnect door switch harness from switch. Take off front panel. Refer to *Figure 8* .
6. Exchange switch and plug locations. Depress tabs with an adjustable pliers to remove plug and switch from front panel. Reinstall switch, orienting button toward center of machine. Reinstall plug in switch's previous location. Refer to *Figure 8* .

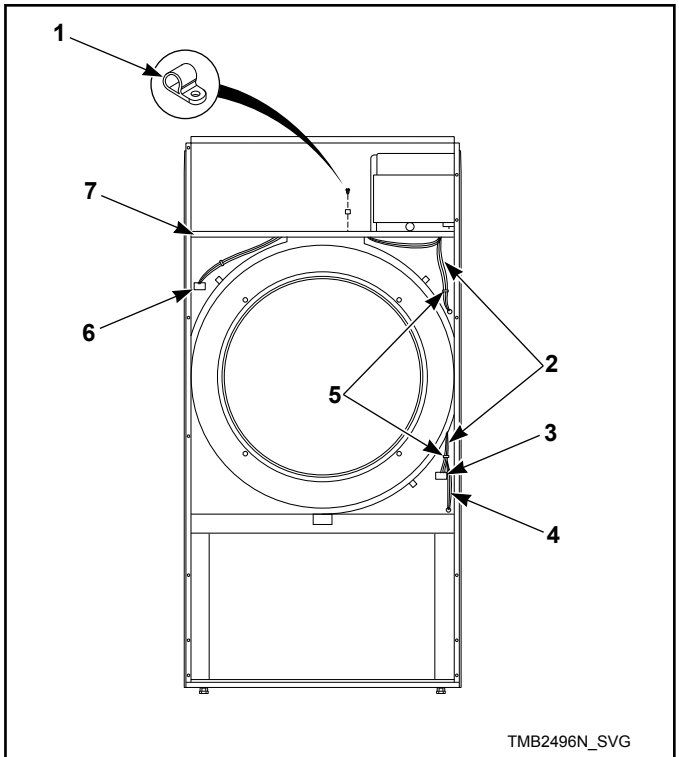
IMPORTANT: Door switch must be oriented correctly in front panel receiving hole or tumble dryer will not operate.



1. Plug
2. Switch
3. Side Screw
4. Door Hinge Lug
5. Door Assembly

Figure 8

7. Cut wire ties to remove door switch harness bundle. Be careful not to damage harness wires. Refer to *Figure 9* .
8. Reroute door switch harness up through the hole in the right side of the top panel. Use the panel cutout opening to then put harness down through the hole in the left side of the top panel and into the upper left corner of the cylinder enclosure.

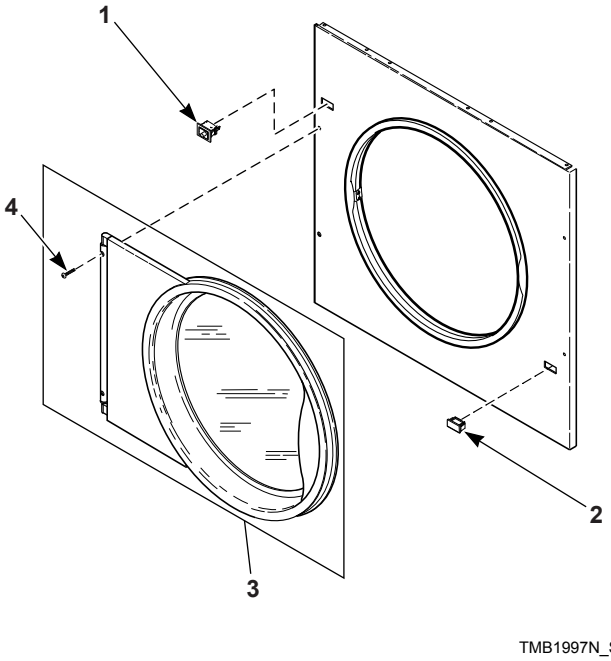


1. Screw Cable Clamp
2. Beginning Location of Door Switch Harness
3. Original Switch Location
4. Lint Panel Switch Harness
5. Wire Ties
6. Original Plug Location
7. Top Panel

Figure 9

9. Place front panel on machine, loosely attach four bottom screws. Connect door switch harness to switch in new location. Install door assembly and four front panel side screws loosely. Refer to *Figure 10* .
10. Check lint panel fit, adjusting front panel up or down as required. Tighten four front panel side screws to maintain position of front panel for proper lint panel clearance.
11. Remove lint panel. Fully tighten bottom screws on front panel.
12. Reinstall top screws and guide lugs.
13. Adjust door catch if necessary to allow 8 – 15 pounds [35.6N – 66.7N] pull at center of handle.
14. Reinstall control assembly using mounting screws.
15. Reinstall control panel and lint panel.

    IMPORTANT: Restore power to tumble dryer and test for proper operation of loading door switch. Refer to *Loading Door Switch* section for adjustment procedure. Tumble dryer should not start with door open; an operating tumble dryer should stop when door is opened.



1. Switch (New location)
2. Plug (New location)
3. Door Assembly
4. Side Screw

Figure 10

NOTE: If machine is converted back to right hand hinge operation, the door switch harness must be rerouted.

Before Placing Tumble Dryer into Service

1. Ensure all panels and guards are in place.
2. Remove and discard wire tie from the airflow switch so it can swing freely.
3. Pull out emergency stop button, if applicable.
4. Turn on electrical supply to tumble dryer.
5. Open the supply valve for gas or steam heated tumble dryers.
6. After performing the previous checks, start the tumble dryer by pressing START. (Refer to the Operating section for detailed instructions.) Release the start button and open the loading door. The cylinder should stop rotating within seven seconds after the door is opened a maximum of 0.79 inches [20 mm]. If it does not, adjust the loading door switch. Refer to Adjustments section.
7. **Gas Tumble Dryers:** Start the tumble dryer and check the burner flame. Adjust the air inlet shutter as required. Refer to Adjustments section.

IMPORTANT: The electronic ignition system will attempt to light the gas by sparking for the "trial for ignition" period. If gas does not ignite within this period, the ignition control will go into a safety lockout and the valve will no longer open until the control is reset. On CSA models, the electronic ignition system is automatically reset. On AGA and IEC models the electronic ignition system must be manually reset. The control will pause the cycle and indicate that the ignition control needs to be reset. To reset the ignition control, press start key on the control while the access panel is open. The control will then prompt for the start key to be pressed again to restart the cycle. On all models, ignition lockout may occur due to air in the gas line or the gas shut-off valve being in the OFF position. If the air is bled out of the gas line, the gas shut-off valve is in the ON position, the gas service is properly connected and the tumble dryer continues to have heater errors and/or prompts for the ignition control to be reset, remove the tumble dryer from service.

8. Load the cylinder with a full load of clean rags and run to remove oil or dirt from cylinder.
9. Check the airflow switch operation by opening the lint panel; be sure to remove shipping wire tie from airflow switch prior to operation. Temporarily tape down the lint panel safety switch located behind the upper left corner of the lint panel. The heating systems should shut off when the lint panel is opened a maximum of 1.5 inches [38 mm] .

The airflow switch operation may be affected by shipping wire tie still in place, lack of make-up air, or an obstruction in the exhaust duct. These should be checked. If there is a problem, contact an authorized service person.

IMPORTANT: Remove tape from the lint panel safety switch before proceeding to the next step.

WARNING

Do not operate tumble dryer if airflow switch is faulty. An explosive gas mixture could collect in tumble dryer if airflow switch does not operate properly.

W407R1

10. Clean cylinder by running a load of wet rags on one maximum heat cycle.

Models	Prepurge Time (seconds)	Interpurge Time (seconds)	Trial for Ignition (seconds)	Reset Lockout Condition By:
CSA	1	23	10 (attempts to ignite 3 times)	Automatically resets.
AGA and IEC	23	23	10	Press start key with access panel open.

If the tumble dryer does not meet ANY of the listed requirements, remove tumble dryer from use. Refer to *Removing Tumble Dryer from Service* section.

Required for IEC Models Only

Once tumble dryer is installed, please be sure to complete the following items:

- Review and verify machine operation with customer.
- Leave all literature and a signed Declaration of Conformity with customer.
- Review tumble dryer warranty information with customer.
- Apply cautionary stickers in language appropriate to country of sale. Market language label kits have been provided in the literature packet located in the cylinder. Position appropriate market language labels on the tumble dryer in the following regions prior to placing tumble dryer into service, if applicable:
  - On front panel at the periphery of cylinder access opening
  - On electrical box cover(s) (electric heat models have two electrical box covers)
  - On rear panel
  - On front panel near emergency stop button (fire suppression system equipped models only)
  - On fire suppression control box (fire suppression system equipped models only)

Exhaust Requirements

Exhaust Requirements

CAUTION

Risk of fire. A clothes dryer produces combustible lint. Exhaust outdoors. Consult technical instructions for detailed exhaust specifications.

W933

WARNING

To reduce the risk of fire, DO NOT use plastic or thin foil ducting to exhaust the tumble dryer.

W773R1

WARNING

To reduce the risk of fire and accumulation of combustible gases, DO NOT exhaust tumble dryer air into a window well, gas vent, chimney or enclosed, unventilated area such as an attic wall, ceiling, crawl space under a building, or concealed space of a building.

W059R1

Layout

Whenever possible, install tumble dryers along an outside wall where duct length can be kept to a minimum, and make-up air can be easily accessed. Construction must not block the airflow at the rear of the tumble dryer. Doing so would prevent adequate air supply to the tumble dryer combustion chamber.

Make-Up Air

A tumble dryer is forced air exhausted and requires provisions for make-up air to replace air exhausted by tumble dryer.

IMPORTANT: Do not obstruct flow of combustion and ventilation air.

Required Make-Up Air Opening (to the outside) for Each Tumble Dryer

Model	Opening, in.^{2} [cm^2]
050 Series	144 [930]
Classic 075 Series	195 [1,260]
Eco 075 Series	170 [1,095]
F75 Series	250 [1,610]

Make-up air openings with louvers will restrict airflow. The opening must be increased to compensate for area taken up and restrictions created by louvers. Contact the louver manufacturer for the exact specifications.

Make-up air openings in rooms containing tumble dryer(s) and/or gas fired hot water heater or other gravity vented appliances must be increased sufficiently to prevent downdrafts in any of the vents when all tumble dryers are in operation. Do not locate gravity vented appliances between tumble dryer(s) and make-up air openings. If it is necessary to duct make-up air to tumble dryer(s), increase area of duct work by 25% to compensate for restrictions in air movement.

Venting

WARNING

To reduce the risk of fire due to increased static pressure, we do not recommend installation of in-line secondary lint filters or lint collectors. If secondary systems are mandated, frequently clean the system to assure safe operation.

W749

IMPORTANT: Installing in-line filters or lint collectors will cause increased static pressure. Failure to maintain the secondary lint system will decrease tumble dryer efficiency and may void machine warranty.

For maximum efficiency and minimum lint accumulation, tumble dryer air must be exhausted to the outdoors by the shortest possible route.

Proper sized exhaust ducts are essential for proper operation. All elbows should be sweep type. Exhaust ducts must be assembled so the interior surfaces are smooth, so the joints do not permit the accumulation of lint. DO NOT use plastic, thin foil or Type B flexible ducts - rigid metal ducts are recommended. Use exhaust ducts made of sheet metal or other noncombustible material. DO NOT use sheet metal screws or fasteners on exhaust pipe joints which extend into the duct and catch lint. Use of duct tape or pop-rivets on all seams and joints is recommended, if allowed by local codes.

Verify that old ducts are thoroughly cleaned out before installing new tumble dryer(s).

WARNING

Improperly sized or assembled ductwork causes excess back pressure which results in slow drying, lint collecting in the duct, lint blowing back into the room, and increased fire hazard.

W355

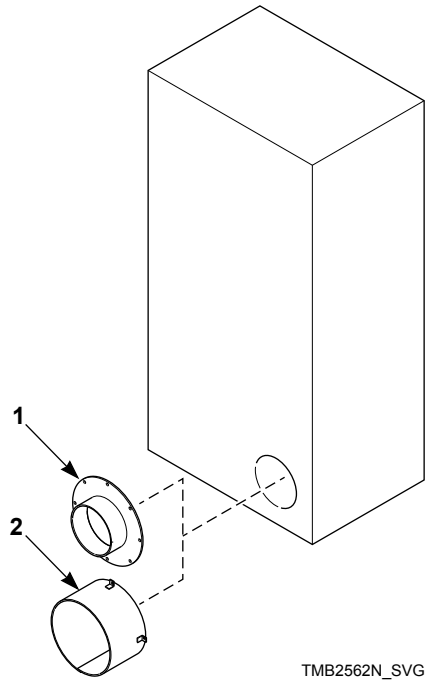
NOTE: Exhaust ducts must be constructed of sheet metal or other noncombustible material. Such ducts must be equivalent in strength and corrosion resistance to ducts made of galvanized sheet steel not less than 0.02 inches [0.50 mm] thick.

Where the exhaust duct pierces a combustible wall or ceiling, the opening must be sized per local codes. The space around the duct may be sealed with noncombustible material. Refer to *Figure 12* .

IMPORTANT: For best performance provide an individual exhaust duct for each tumble dryer. Do not install a gas water heater in a room containing tumble dryers. It is better to have the water heater in a separate room with a separate air inlet.

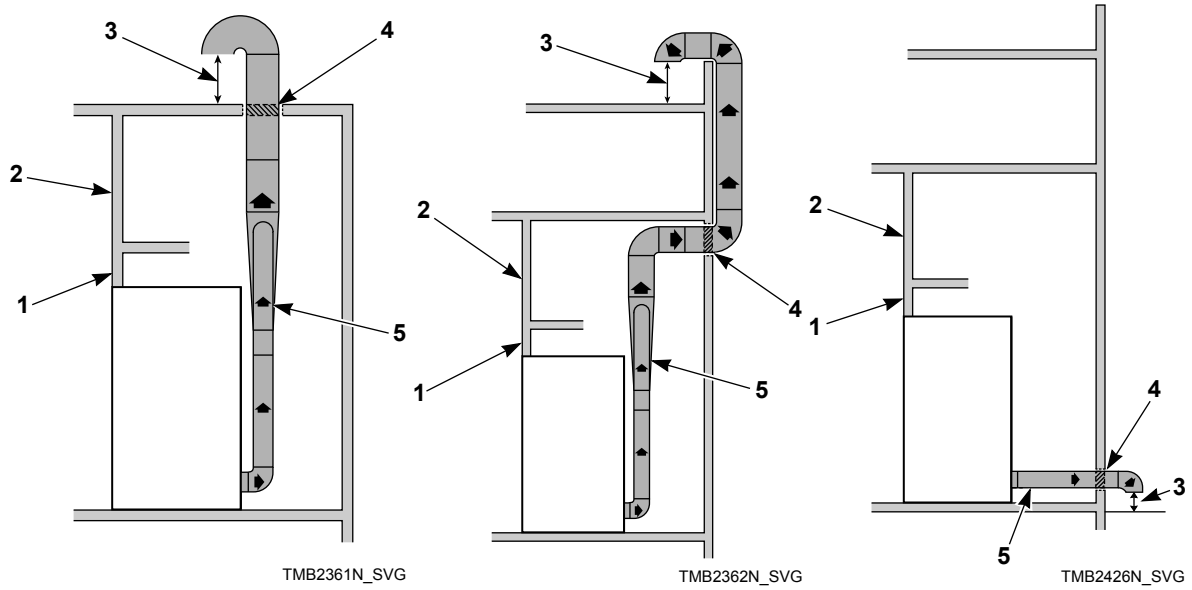
NOTE: Proper venting will ensure that any condensate is subsequently re-evaporated and discharged.

NOTE: On IEC approved tumble dryers where it may be required, an exhaust adapter is available to convert to female outlet. Contact local distributor or manufacturer.



1. Not Applicable
2. 50, 75, F75 Models

Figure 11



1. Removable strip of panel in framing wall to permit removal of tumble dryer from framing wall
2. Partition or bulkhead
3. Minimum distance between exhaust opening and roof, ground or other obstruction, 36 in. [910 mm]
4. 2.0 in. [50 mm] minimum clearance on both sides of duct
5. Exhaust airflow – maximum length of rigid duct 14 ft. [4.3 m] or 7.9 ft. [2.4 m] of flexible metal duct

Figure 12

NOTE: Do not install wire mesh or screen in exhaust duct opening to avoid lint build-up or impacting proper discharge of air from tumble dryers.

NOTE: Where exhaust duct pierces a combustible wall or ceiling, the opening must be sized per local codes.

NOTE: Inside of duct must be smooth. Do not use sheet metal screws to join sections.

NOTE: Locate exhaust far enough away from make-up air location to prevent re-introduction.

Consult your local building code for regulations which may also apply.

Individual Venting

For maximum efficiency and performance, it is preferred to exhaust tumble dryer(s) individually to the outdoors.

IMPORTANT: At no point may the cross sectional area of installed venting be less than the cross sectional area of the exhaust outlet of the tumble dryer.

The exhaust duct must be designed so the static back pressure measured 12 inches [305 mm] from the exhaust outlet does not exceed the maximum allowable pressure specified in the Specifications and Dimensions Table or on the installation sticker on the rear of the tumble dryer.

NOTE: Static back pressure must be measured with the tumble dryer running.

The maximum allowable length venting is 14 feet [4.3 m] and two 90° elbows or equivalent. If the equivalent length of a duct required for an installation exceeds the maximum allowable equivalent length, the diameter of a round duct must be increased by 10% for each additional 20 feet [6.1 m]. Cross section area of a rectangular duct must be increased by 20% for each additional 20 feet [6.1 m]. Refer to *Table 7* to determine equivalent venting.

Duct Diameter	Equivalent Length of Rigid Straight Duct
8 in. [203 mm]	One 90° elbow = 9.3 ft. [2.8 m]
10 in. [254 mm]	One 90° elbow = 11.6 ft. [3.5 m]
12 in. [305 mm]	One 90° elbow = 14 ft. [4.3 m]
14 in. [356 mm]	One 90° elbow = 16 ft. [4.9 m]

Table 7 *continues...*

Duct Diameter	Equivalent Length of Rigid Straight Duct
16 in. [406 mm]	One 90° elbow = 18.7 ft. [5.7 m]
18 in. [457 mm]	One 90° elbow = 21 ft. [6.4 m]
Equivalent Length (meter) = 1.17 x Duct Diameter (mm)	

Table 7

Example: A 12 inch [305 mm] diameter duct's equivalent length of 14 feet [4.3 m] of duct and two 90° elbows is:

Equivalent Length

= 14 ft. [4.3 m] + (2) 90° elbows

= 14 ft. [4.3 m] + 14 ft. [4.3 m] + 14 ft. [4.3 m]

= 42 ft. [12.8 m]

With the tumble dryer in operation, airflow at any point in the duct should be at least 1200 feet/min. [366 m/min.] to ensure that lint remains airborne. If 1200 feet/min. [366 m/min.] cannot be maintained, schedule monthly inspections and cleaning of the ductwork.

NOTE: The maximum length of a flexible metal duct must not exceed 7.9 ft. [2.4 m] as required to meet UL2158, clause 7.3.2A.

Manifold Venting

While it is preferable to exhaust tumble dryers individually to the outdoors, a main collector duct may be used if it is sized according to *Figure 14* and *Figure 15* . This illustration indicates minimum diameters, and should be increased if the collector length exceeds 14 feet [4.3 m] and two 90° elbows. The diameter of a round duct must be increased by 10% for each additional 20 feet [6.1 m]. Cross sectional area of a rectangular or square duct must be increased 20% for each additional 20 feet [6.1 m]. Refer to *Table 8* to determine equivalent ducting sizing. The collector duct may be rectangular or square in cross section, as long as the area is not reduced. Provisions MUST be made for lint removal and cleaning of the collector duct.

The vent collector system must be designed so the static back pressure measured 12 inches [305 mm] from the exhaust outlet does not exceed the maximum allowable pressure specified in the Specifications and Dimensions Table or on the installation sticker on the rear of tumble dryer. Static back pressure must be measured with all tumble dryers vented into the collector operating.

NOTE: Never connect a tumble dryer duct at a 90° angle to the collector duct. Refer to *Figure 13* . Doing so will cause excessive back pressure, resulting in poor performance. Never connect two tumble dryer exhaust ducts directly across from each other at the point of entry to the collector duct.

With the tumble dryer in operation, airflow at any point in the duct should be at least 1200 feet/min. [366 m/min.] to ensure that lint remains airborne. If 1200 feet/min. [366 m/min.] cannot be maintained, schedule monthly inspections and cleaning of the ductwork.

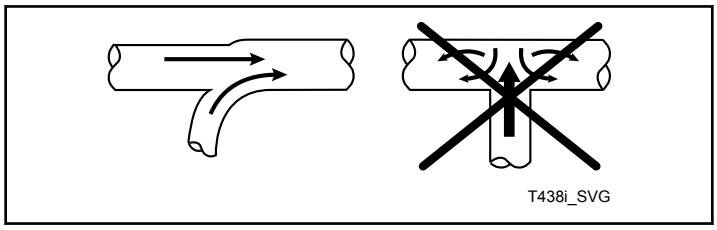
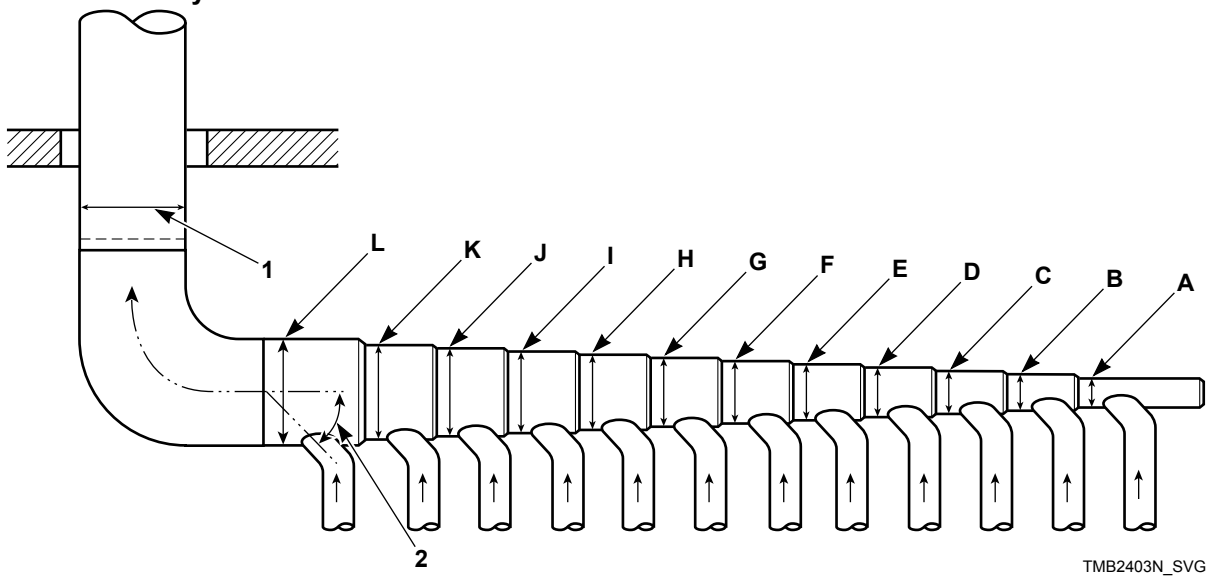


Figure 13

One Manifold Assembly



1. Outlet duct diameter = largest duct diameter based on number of tumble dryers
2. 45° typical

Figure 14

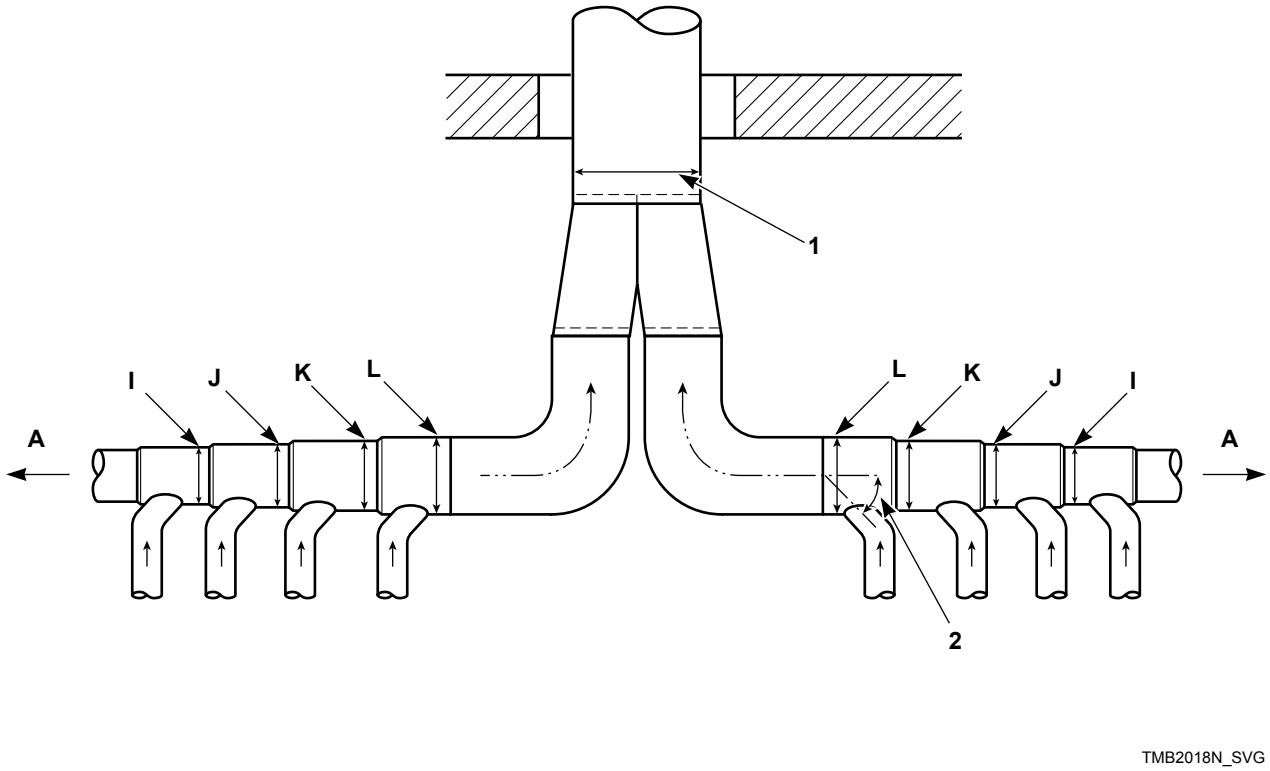
Duct Station	050/075	F75
A	8 in. [203 mm]	10 in. [254 mm]
B	12 in. [305 mm]	15 in. [381 mm]
C	15 in. [381 mm]	18 in. [457 mm]
D	17 in. [432 mm]	21 in. [533 mm]
E	19 in. [483 mm]	24 in. [610 mm]
F	21 in. [533 mm]	26 in. [660 mm]
G	23 in. [584 mm]	28 in. [711 mm]
H	25 in. [635 mm]	30 in. [762 mm]
I	26 in. [660 mm]	32 in. [813 mm]
J	27 in. [686 mm]	33 in. [838 mm]
K	29 in. [737 mm]	35 in. [889 mm]
L	30 in. [762 mm]	36 in. [914 mm]

Table 8

NOTE: *Table 8* represents tumble dryers with the same vent size. If multiple vent sizes are used, consult a local HVAC specialist.

NOTE: Duct clean-out recommended every 6 feet [0.18 m].

Two Manifold Assemblies



1. Outlet duct diameter = combined largest duct diameter of both sides
2. 45° typical

Figure 15

Refer to *Table 8* for measurements for each manifold.

Gas Requirements

Gas Requirements

CAUTION

- **Thoroughly test all piping for leaks before operating. All fittings and piping must be tight and supported against breakage and vibration.**
- **Turn off primary gas line shut off cock when not in use (overnight, weekends, holidays, etc.).**

W934

WARNING

To reduce the risk of fire or explosion, DO NOT CONNECT THE GAS LINE TO THE TUMBLE DRYER IF THE GAS SERVICE IS NOT THE SAME AS THAT SPECIFIED ON THE TUMBLE DRYER SERIAL PLATE! It will first be necessary to convert the gas burner orifice and gas valve. Appropriate conversion kits are available.

W060R1

WARNING

To reduce the risk of gas leaks, fire or explosion, use a new flexible stainless steel connector.

W774

IMPORTANT: Any product revisions or conversions must be made by the Manufacturer's Authorized Dealers, Distributors or local service personnel.

IMPORTANT: The tumble dryer must be isolated from the gas supply piping system by closing its individual manual shut-off valve during any pressure testing of the gas supply piping system. Gas supply pressure must never exceed 1/2 PSI [3.5 mbar] during leak testing. Gas supply must provide 6.5+/-1.5 inches [16.32+/-3.7 mbar] with all gas appliances firing.

NOTE: For gas valves with a manual shut-off switch on the gas valve, the shut-off switch does not protect the valve from this pressure test. Use the individual manual shut-off valve from the gas supply piping system to protect the gas valve.

IMPORTANT: The installation must comply with local codes or, in the absence of local codes:

- **with the latest edition of the "National Fuel Gas Code," ANSI Z223.1/NFPA 54 in the U.S.A.**
- **with CAN/CSA-B149.1 Natural Gas and Propane Installation Code in Canada**
- **In Australia and New Zealand , installation must comply with the Gas Installations Standard AS/NZS 5601 Part 1: General Installations.**
- **In the EU, installation must comply with the installation regulations of the country of destination.**

IMPORTANT: For Australian models, do not remove the gas type label on the rear of the unit.

Obtain specific gas service pipe size from the gas supplier. Refer to *Table 10* and *Table 11* for general pipe size.

The following must be furnished and installed by the customer for the gas service line to each tumble dryer. Refer to *Figure 16* .

- Sediment traps
- Shut-off valves
- Supply pressure taps (1/8 NPT minimum) (refer to *Figure 16*)
- Union at gas supply connection (listed to ANSI Z21.24 and CSA 6.10)

It is important that equal pressure be maintained at all tumble dryer gas connections. This can be done by installing a 1 inch pipe gas loop to maintain equal pressure at all gas connections. Refer to *Figure 20* .

WARNING

To reduce the risk of fire or explosion, if the tumble dryer is to be connected to Liquefied Petroleum (L.P.) gas, a vent to the outdoors must be provided in the room where the tumble dryer is installed.

W062R1

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

NATURAL GAS supply pressures with all gas appliances running (tumble dryers, water heaters, space heaters, furnace, etc.):

	CSA Models	AGA Models	CE Models
Maximum	10.5 in. w.c.	2.61 kPa	Refer to *Table 9*
Recommend-ed	6.5 in. w.c	1.62 kPa	
Minimum	5 in. w.c.	1.13 kPa	

An in-line pressure regulator may be required if the line pressure exceeds 10.5 water column inches [26.1 mbar, 2.61 kPa] with all gas appliances running.

PROPANE/LIQUID PETROLEUM GAS (L.P.G.) supply pressures with all gas appliances running (tumble dryers, water heaters, space heaters, furnace, etc.):

	CSA Models	AGA Models	CE Models
Maximum	13 in. w.c.	3.23 kPa	Refer to *Table 9*
Recommend-ed	11 in. w.c.	2.74 kPa	
Minimum	10 in. w.c.	2.49 kPa	

Gas Category	Country	Gas	Category	Supply Pressure (mbar)			Manifold Pressure (mbar)
				nominal	minimum	maximum	
$II_{2H3B/P}$	BG, CY, CZ, DK, EE, FI, HR, LT, NO, SE, SI SK	G20	2H	20	17	25	8.0
		G30/31	3B/P (30)	30 (28-30)	25	35	*
$II_{2H3B/P}$	HU	G20	2H	25	18	33	8.0
		G30/31	3B/P	50	42.5	57.5	27.5
$II_{2H3B/P}$	AT, CH	G20	2H	20	17	25	8.0
		G30/31	3B/P	50	42.5	57.5	27.5
II_{2H3+}	CH, ES, GB, GR, IE, IT, TR	G20	2H	20	17	25	8.0
		G30	3+ (28-30/37) Butane	30 (28-30)	25	35	*
		G31	3+ (28-30/37) Propane	37	25	45	*
$II_{2E3B/P}$	PL	G20	2E	20	17	25	8.0
		G30	3B/P	30 (28-30)	25	35	*
$II_{2E3B/P}$	LU	G20	2E	20	17	25	8.0
		G30/31	3B/P	50	42.5	57.5	27.5
$II_{2E3B/P}$ $II_{2E(LL)3B/P}$	DE	G20	2E(LL)/2E	20	17	25	8.0
		G25	2E(LL)	20	17	25	12.0
		G30/31	3B/P	50	42.5	57.5	27.5
$II_{2E(r)3+}$	FR	G20	2E(r)	20	17	25	8.0
		G25	2E(r)	20	17	25	12.0
		G30	3+ (30/37) Butane	30 (28-30)	25	35	*
		G31	3+ (30/37) Propane	37	25	45	*
$II_{2L3B/P}$	NL	G25	2L	25	20	30	12.0
		G30	3B/P	30 (28-30)	25	35	*

Table 9 *continues...*

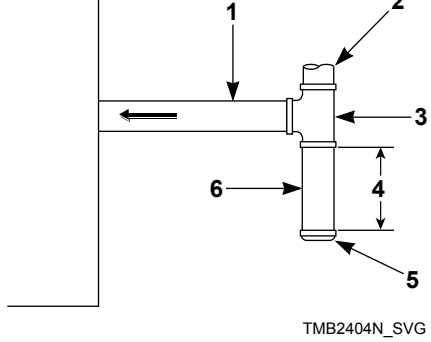
Gas Category	Country	Gas	Category	Supply Pressure (mbar)			Manifold Pressure (mbar)
				nominal	minimum	maximum	
$II_{2L3B/P}$	RO	G25	2L	20	17	25	12.0
		G30	3B/P	30 (28-30)	25	35	*
$I_{3B/P}$	IS, MT	G30	3B/P	30 (28-30)	25	35	*
$I_{2E(R)}$	BE	G20	2E(R) 20/25	20	17	25	8.0
		G25	2E(R) 20/25	20	17	25	12.0
I_{3+}	BE	G30	3+ (28-30/37) Butane	30 (28-30)	25	35	*
		G31	3+ (28-30/37) Propane	37	25	45	*
* Appliance regulator out of action							

Table 9

Check manifold pressure. It is important that gas be supplied to the tumble dryer in accordance with the requirements on the serial plate. Refer to table below and *Figure 1* . If the manifold pressure required adjustment, refer to *How to Adjust Gas Valve Governor/Regulator*.

	CSA Models	AGA Models	CE Models
Natural Gas	3.5 in. w.c.	0.87 kPa	Refer to *Table 9*
Propane/ L.P.G.	10.5 in. w.c.	2.61 kPa	

The connection of gas supply to the appliance shall be made with a flexible hose suitable for the appliance category in accordance with national installation regulations of the country of destination. If in doubt, the installer shall contact the supplier.



1. Gas Line to Tumble Dryer
2. Gas Supply Piping System
3. Gas "T" Fitting
4. 3 in. [76 mm] Minimum Gas Pipe
5. Gas Pipe Cap
6. Sediment Trap

Figure 16

How to Change Burner Orifice Size

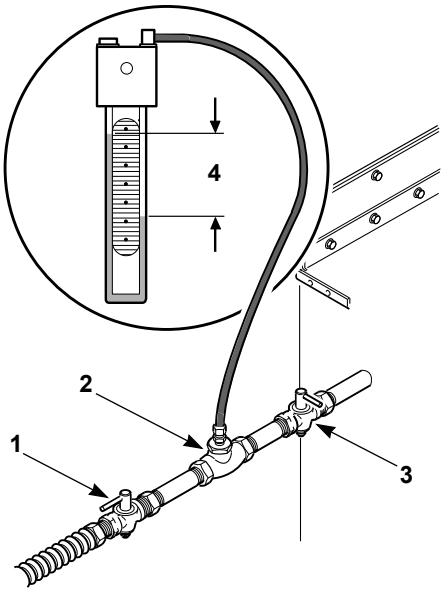
1. Disconnect electrical power from tumble dryer. Close gas shut-off valve to tumble dryer. Refer to *Figure 17* .

WARNING

When converting the tumble dryer to a different gas or pressure, first verify that the supply inlet pressure is equipped with a pressure regulator (located ahead of the tumble dryer) that will maintain the gas supply at the inlet pressure specified.

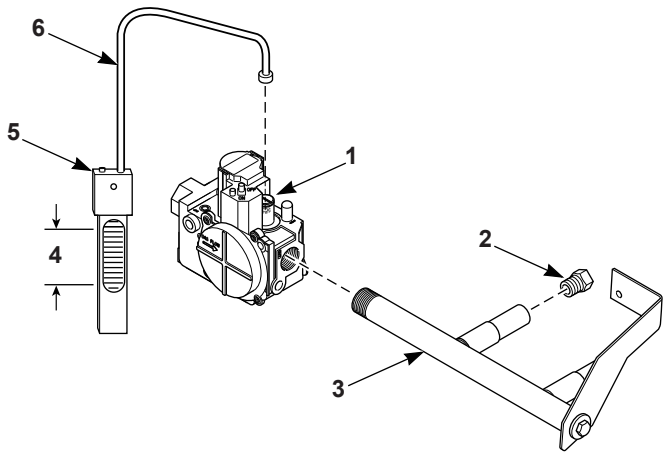
W430R1

2. Remove orifice holder. Unscrew orifice holder nut near gas valve. Remove the burner orifice(s) from orifice holder. Refer to *Figure 18* .
3. Install the new, correct burner orifice(s). Refer to *Figure 19* and *Table 9* . Torque each to 9 – 10 Nm. Use Loctite 565 or equivalent pipe thread sealer.
4. Reinstall orifice holder assembly to gas valve, making certain burner orifice(s) are in line with burner tube opening. Refer to *Figure 19* .
5. Commission tumble dryer for use.



1. Gas Shut-Off Valve (Ahead of pressure tap) (Shown in open position) (Not Supplied)
2. Pressure Tap
3. Gas Shut-Off Valve (Shown in closed position) (Not Supplied)
4. Specified Local Inlet Pressure

Figure 17



NOTE: For IEC gas valves, attach manometer to end of orifice holder. For AGA and CSA gas valves, attach manometer to the outlet pressure port on the gas valve.

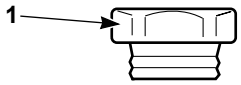
1. Gas Valve
2. Burner Orifice
3. Orifice Holder
4. Required Burner Manifold Pressure
5. Manometer
6. Connect Over Loosened Hex Pressure Tap Screw

Figure 18

How to Adjust Gas Valve Governor/Regulator

1. Check gas burner orifice (manifold) pressure as follows. Refer to *Figure 18* .
2. Remove screw plug from pressure tap.
3. Connect a “U”-tube manometer (or similar pressure gauge) to the burner orifice (manifold) pressure tap.
4. Start tumble dryer and note pressure once flame is burning. Remove regulator cap and adjust regulator screw until the burner orifice pressure per applicable table is achieved. Replace regulator cap. Refer to *Figure 18* .
5. Commission tumble dryer for use.

Burner Orifice



1. Size Stamped on Orifice

Figure 19

Installing CE Gas Tumble Dryer

This information is to be used when installing gas tumble dryers in countries and/or on gases different than the machine's factory configuration. Tumble Dryers are supplied from the factory for operation with natural gas categories 2H, 2E, 2L, 2E(LL), 2E(r), 2E(R) or unregulated L.P.G. categories 3 B/P, 3+. To install tumble dryers for regulated LPG category 3B/P requires a conversion kit.

Tumble dryers are built in two different configurations:

- Natural Gas – regulated/governor
- Liquefied Petroleum Gas (L.P.G.) – not regulated/no governor

For converting models from Natural Gas to L.P.G., order the appropriate kit listed in *Gas Requirements* section.

Serial plates supplied from the factory are configured for:

- Natural Gas, standard rate
  - AT/BG/CH/CY/CZ/DK/EE/FI/HR/LT/NO/SE/SI/SK: $II_{2H3B/P}$
  - CH/ES/GB/GR/IE/IT/TR: II_{2H3+}
  - DE/LU/PL: $II_{2E3B/P}$
- Natural Gas, Eco rate
  - AT/BG/CH/CY/CZ/DK/EE/ES/FI/GB/GR/HR/IE/IT/LT/NO/SE/SI/SK/TR: I_{2H}
  - DE/LU/PL: I_{2E}
- L.P.G.
  - BE/CH/ES/FR/GB/GR/IE/IT/TR: I_{3+}

These instructions pertain to the situations when the country of use or gas supply is different than that on the serial plate. When installing in a different country, peel off the appropriate country sticker (included in literature packet with tumble dryer) and apply it to the serial plate over the existing country information. Adjust manifold pressure as applicable, per *Table 9* .

Units installed in France (FR) require a gas connection adapter having ISO228 (BSPP, G) parallel threads and a sealing washer. The adapter must have a sufficient flat area to seat the sealing washer.

Adjusting Manifold Pressure for Natural Gas G20 or G25

1. If country/gas category designation required is not listed on the serial plate, affix the appropriate country/gas category label supplied over the main serial plate designations.
2. Verify gas supply pressure and adjust as necessary. Refer to *Figure 1*.
3. Verify manifold pressure. Refer to *How to Adjust Gas Valve Governor/Regulator* and adjust as necessary.

Adjusting Supply Pressure for L.P.G. G30 or G31

1. If country/gas category designation required is not listed on the serial plate, affix the appropriate country/gas category label over the main serial plate designations.
2. Verify gas supply pressure and adjustment as necessary. Refer to *Figure 1*.

Converting From Natural Gas to L.P.G. or From Unregulated L.P.G. to Regulated L.P.G.

1. Refer to table below to determine conversion kit part number required.
2. Follow instructions supplied in conversion kit.

	CSA and AGA Models	CE Models
050 Series	44328801	44330301
075 Series	44328802	44330302
F75 Series	44328805	Not Applicable

CE GASES refer to *Installing CE Gas Tumble Dryer* section.

Start-Up Procedure

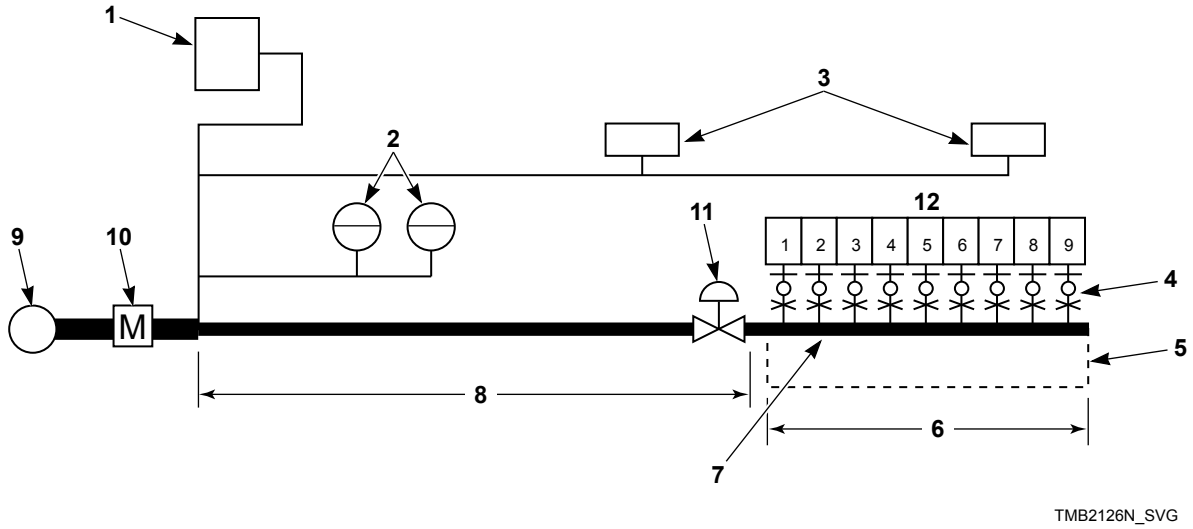
Turn on gas and check all pipe connections (internal and external) for gas leaks with a non-corrosive leak detection fluid. Purge air in gas service line by operating the tumble dryers in the drying mode. If burner does not light and unit goes into lockout, press start key on the control while the access panel is open. The control will then prompt for the start key to be pressed again to restart the cycle. Repeat these steps until burner ignites. Use pipe compound, resistant to actions of L.P. gas, on all pipe threads.

WARNING

Check all pipe connections, internal and external, for gas leaks using a non-corrosive leak detection fluid. To reduce the risk of explosion or fire, DO NOT USE AN OPEN FLAME TO CHECK FOR GAS LEAKS! Gas connections should be checked daily for leakage.

W924

Gas Supply Pipe Sizing and Looping



1. Gas furnace [120,000 Btu/hr. [127 Mj/hr., 35 kW]]
2. Gas water heaters [400,000 Btu/hr. [422 Mj/hr., 117 kW] each]
3. Gas space heaters [70,000 Btu/hr. [79 Mj/hr., 21 kW] each]
4. Sediment traps, supply pressure taps and shut-off valves. Refer to *Figure 1*.
5. 1 in. [25 mm] gas pipe loop
6. 19 ft. [5.8 m]
7. Minimum Pipe Size is 1/2 NPT
8. 25 ft. [7.6 m]
9. Main regulator
10. Gas meter
11. Pressure regulator (if required)
12. 050 series tumble dryers = 130,000 Btu/hr. [137 Mj/hr., 38 kW] each; 075 series tumble dryers = 165,000 Btu/hr. [174 Mj/hr., 48 kW] each; F75 series tumble dryers = 225,000 Btu/hr. [237 Mj/hr., 66 kW] each

Figure 20

SAMPLE CALCULATIONS:

Equivalent length = Total length of main gas supply pipe to the far end of the tumble dryers.
= 25 ft. + 19 ft. [7.6 m + 5.8 m] gas supply pipe
= 44 ft. [13.4 m] Total Gas Line

Total Btu/hr. = The sum of the Btu/hr. of all 050 series tumble dryers being fed by the main gas supply pipe.
= 9 x 130,000 [137, 38]
= 1,170,000 Btu/hr. [1,234 Mj/hr., 343 kW]

Using *Table 10* , the main supply pipe diameter should be 2 NPT.

IMPORTANT: Gas loop piping must be installed as illustrated to equalize gas pressure for all tumble dryers connected to single gas service. Other gas using appliances should be connected upstream from loop.

Low Pressure Gas Pipe Sizes

NOTE: Sizing calculations based on National Fuel Gas Code.

Gas Pipe Size Required for 1000 BTU Natural Gas (Standard Conditions) at Upstream Pressure— 7.0 ± 1.5 inches water column pressure [17.4 ± 4.0 mbar, 1.74 ± 0.37 kPa]						
Gas Appliances Total BTU/hr.	Equivalent Length					
	25 feet [7.6 m]	50 feet [15.2 m]	75 feet [22.9 m]	100 feet [30 m]	125 feet [38 m]	150 feet [46 m]
	Based on 0.3 inches Water Column Pressure Drop for Length Given Sizes shown in Gas Pipe Nominal Size (NPT)					
100,000	3/4	3/4	3/4	1	1	1
120,000	3/4	3/4	1	1	1	1
140,000	3/4	1	1	1	1	1
160,000	3/4	1	1	1	1-1/4	1-1/4
180,000	3/4	1	1	1-1/4	1-1/4	1-1/4
200,000	1	1	1	1-1/4	1-1/4	1-1/4
300,000	1	1-1/4	1-1/4	1-1/4	1-1/2	1-1/2
400,000	1-1/4	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2
500,000	1-1/4	1-1/2	1-1/2	1-1/2	1-1/2	2
600,000	1-1/4	1-1/2	1-1/2	2	2	2
700,000	1-1/2	1-1/2	2	2	2	2
800,000	1-1/2	1-1/2	2	2	2	2
900,000	1-1/2	2	2	2	2	2-1/2
1,000,000	1-1/2	2	2	2	2-1/2	2-1/2
1,100,000	1-1/2	2	2	2	2-1/2	2-1/2
1,200,000	1-1/2	2	2	2-1/2	2-1/2	2-1/2
1,300,000	2	2	2-1/2	2-1/2	2-1/2	2-1/2
1,400,000	2	2	2-1/2	2-1/2	2-1/2	2-1/2
1,500,000	2	2	2-1/2	2-1/2	2-1/2	2-1/2
1,600,000	2	2	2-1/2	2-1/2	2-1/2	3

Table 10 *continues...*

Gas Pipe Size Required for 1000 BTU Natural Gas (Standard Conditions) at Upstream Pressure— 7.0 ± 1.5 inches water column pressure [17.4 ± 4.0 mbar, 1.74 ± 0.37 kPa]						
Gas Appliances Total BTU/hr.	Equivalent Length					
	25 feet [7.6 m]	50 feet [15.2 m]	75 feet [22.9 m]	100 feet [30 m]	125 feet [38 m]	150 feet [46 m]
	Based on 0.3 inches Water Column Pressure Drop for Length Given Sizes shown in Gas Pipe Nominal Size (NPT)					
1,700,000	2	2-1/2	2-1/2	2-1/2	3	3
1,800,000	2	2-1/2	2-1/2	2-1/2	3	3
1,900,000	2	2-1/2	2-1/2	3	3	3
2,000,000	2	2-1/2	2-1/2	3	3	3
2,200,000	2	2-1/2	3	3	3	3
2,400,000	2-1/2	2-1/2	3	3	3	3-1/2
2,600,000	2-1/2	2-1/2	3	3	3-1/2	3-1/2
2,800,000	2-1/2	3	3	3	3-1/2	3-1/2
3,000,000	2-1/2	3	3	3-1/2	3-1/2	3-1/2
For L.P. Gas, correct the total Btu/hr by multiplying it by 0.6. The answer is the equivalent Btu on the above chart.						

Table 10

High Pressure Gas Pipe Sizes

NOTE: Sizing calculations based on National Fuel Gas Code.

IMPORTANT: A high pressure regulator is required at each machine.

Gas Pipe Size Required for 1000 BTU Natural Gas (Standard Conditions) at Upstream Pressure — 2.0 ± 0.4 PSI [138 ± 28 mbar, 13.7 ± 2.7 kPa]						
Gas Appliances Total BTU/hr.	Equivalent Length					
	25 feet [7.6 m]	50 feet [15.2 m]	75 feet [22.9 m]	100 feet [30 m]	125 feet [38 m]	150 feet [46 m]
	Based on 1 PSI Pressure Drop for Length Given Sizes shown in Gas Pipe Nominal Size (NPT)					
100,000	1/2	1/2	1/2	1/2	1/2	1/2
120,000	1/2	1/2	1/2	1/2	1/2	1/2
140,000	1/2	1/2	1/2	1/2	1/2	1/2
160,000	1/2	1/2	1/2	1/2	1/2	1/2
180,000	1/2	1/2	1/2	1/2	1/2	1/2
200,000	1/2	1/2	1/2	1/2	1/2	1/2
300,000	1/2	1/2	1/2	1/2	1/2	3/4
400,000	1/2	1/2	1/2	1/2	1/2	3/4
500,000	1/2	1/2	1/2	3/4	3/4	3/4
600,000	1/2	1/2	3/4	3/4	3/4	3/4
700,000	1/2	3/4	3/4	3/4	3/4	1
800,000	1/2	3/4	3/4	3/4	3/4	1
900,000	1/2	3/4	3/4	3/4	3/4	1
1,000,000	3/4	3/4	3/4	3/4	1	1
1,100,000	3/4	3/4	3/4	3/4	1	1
1,200,000	3/4	3/4	3/4	1	1	1
1,300,000	3/4	3/4	3/4	1	1	1-1/4
1,400,000	3/4	3/4	1	1	1	1-1/2
1,500,000	3/4	3/4	1	1	1	1-1/4
1,600,000	3/4	3/4	1	1	1	1-1/4

Table 11 *continues...*

Gas Pipe Size Required for 1000 BTU Natural Gas (Standard Conditions) at Upstream Pressure — 2.0 ± 0.4 PSI [138 ± 28 mbar, 13.7 ± 2.7 kPa]						
Gas Appliances Total BTU/hr.	Equivalent Length					
	25 feet [7.6 m]	50 feet [15.2 m]	75 feet [22.9 m]	100 feet [30 m]	125 feet [38 m]	150 feet [46 m]
	Based on 1 PSI Pressure Drop for Length Given Sizes shown in Gas Pipe Nominal Size (NPT)					
1,700,000	3/4	1	1	1	1	1-1/4
1,800,000	3/4	1	1	1	1	1-1/4
1,900,000	3/4	1	1	1	1	1-1/4
2,000,000	3/4	1	1	1	1-1/4	1-1/4
2,200,000	3/4	1	1	1-1/4	1-1/4	1-1/4
2,400,000	1	1	1	1-1/4	1-1/4	1-1/2
2,600,000	1	1	1-1/4	1-1/4	1-1/4	1-1/2
2,800,000	1	1	1-1/4	1-1/4	1-1/4	1-1/2
3,000,000	1	1	1-1/4	1-1/4	1-1/4	1-1/2
For L.P. Gas, correct the total Btu/hr by multiplying it by 0.6. The answer is the equivalent Btu on the above chart.						

Table 11

High Altitude Burner Orifice Sizing

For proper operation at altitudes above 2000 feet [610 m], the gas burner orifice size must be reduced to ensure complete combustion. Heat input derate of 4% per 1,000 feet [305 meters] of altitude above sea level. Refer to *Table 12* .

For IEC models, consult local gas supplier.

Model	Market	Gas	Altitude	Burner Orifice			
			feet [meters]	No.	inches [mm]	Quan-tity	Part No.
050 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	28	0.1405 [3.66]	2	M401014
			4,001-6,000 [1,221-1,830]	29	0.1360 [3.57]		M400997
			6,001-8,000 [1,831-2,440]	---	0.1299 [3.45]		44253801
			8,001-10,000 [2,441-3,050]	---	0.1299 [3.30]		44253801
	T, G, H, J, R	L.P. Gas	2,001-4,000 [610-1,220]	44	0.0860 [2.18]		M401011
			4,001-6,000 [1,221-1,830]	45	0.0820 [2.08]		M401027
			6,001-8,000 [1,831-2,440]	46	0.0810 [2.06]		M401033
			8,001-10,000 [2,441-3,050]	48	0.0760 [1.93]		M401001
	U	L.P. Gas	2,001-4,000 [610-1,220]	49	0.0730 [1.85]		M401018
			4,001-6,000 [1,221-1,830]	50	0.0700 [1.78]		M401016
			6,001-8,000 [1,831-2,440]	51	0.0670 [1.70]		M401019
			8,001-10,000 [2,441-3,050]	52	0.0635 [1.61]		M401025
	A	L.P. Gas	2,001-4,000 [610-1,220]	44	0.0860 [2.18]		M401011
			4,001-6,000 [1,221-1,830]	45	0.0820 [2.08]		M401027
			6,001-8,000 [1,831-2,440]	46	0.0810 [2.06]		M401003
			8,001-10,000 [2,441-3,050]	48	0.0760 [1.93]		M401001

Table 12 *continues...*

Model	Market	Gas	Altitude	Burner Orifice			
			feet [meters]	No.	inches [mm]	Quan-tity	Part No.
Classic Line 075 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	---	0.1339 [3.40]	3	44254001
			4,001-6,000 [1,221-1,830]	---	0.1299 [3.30]		44253801
			6,001-8,000 [1,831-2,440]	1/8	0.1250 [3.18]		M402489
			8,001-10,000 [2,441-3,050]	31	0.1200 [3.05]		M401017
	T, G, H, J, R	L.P. Gas	2,001-4,000 [610-1,220]	45	0.0820 [2.08]		M401027
			4,001-6,000 [1,221-1,830]	47	0.0785 [1.99]		M400999
			6,001-8,000 [1,831-2,440]	48	0.0760 [1.93]		M401001
			8,001-10,000 [2,441-3,050]	49	0.0730 [1.85]		M401018
	U	L.P. Gas	2,001-4,000 [610-1,220]	51	0.0670 [1.70]		M401019
			4,001-6,000 [1,221-1,830]	52	0.0635 [1.61]		M401025
			6,001-8,000 [1,831-2,440]	1/16	0.0625 [1.59]		N/A
			8,001-10,000 [2,441-3,050]	53	0.0595 [1.51]		N/A
	A	L.P. Gas	2,001-4,000 [610-1,220]	45	0.0820 [2.08]		M401027
			4,001-6,000 [1,221-1,830]	47	0.0785 [1.99]		M400999
			6,001-8,000 [1,831-2,440]	48	0.0760 [1.93]		M401001
			8,001-10,000 [2,441-3,050]	49	0.0730 [1.85]		M401018

Table 12 *continues...*

Model	Market	Gas	Altitude	Burner Orifice			
			feet [meters]	No.	inches [mm]	Quan-tity	Part No.
Eco Line 075 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	27	0.1440 [3.66]	2	M400998
			4,001-6,000 [1,221-1,830]	28	0.1405 [3.57]		M401014
			6,001-8,000 [1,831-2,440]	29	0.1360 [3.45]		M400997
			8,001-10,000 [2,441-3,050]	---	0.1299 [3.30]		44253801
F75 Series	T, G, A, H, J, K, R, U	Natural Gas	2,001-4,000 [610-1,220]	23	0.1540 [3.91]	3	M401020
			4,001-6,000 [1,221-1,830]	25	0.1495 [3.80]		M402997
			6,001-8,000 [1,831-2,440]	27	0.1440 [3.66]		M400998
			8,001-10,000 [2,441-3,050]	---	0.1378 [3.50]		70476601
	T, G, A, H, J, K, R, U	L.P. Gas	2,001-4,000 [610-1,220]	43	0.0890 [2.26]		M406184
			4,001-6,000 [1,221-1,830]	44	0.0860 [2.18]		M401011
			6,001-8,000 [1,831-2,440]	45	0.0820 [2.08]		M401027
			8,001-10,000 [2,441-3,050]	47	0.0785 [1.99]		M400999

Table 12

Electrical Requirements

Electrical Requirements

WARNING

- **To reduce the risk of electric shock, disconnect this appliance from the power supply before attempting any user maintenance other than cleaning the lint trap for dryers. Turning the controls to the OFF position does not disconnect this appliance from the power supply.**
- **To reduce the risk of fire and electric shock, check with a qualified service person for proper grounding procedures. Improper connection of the equipment grounding conductor may result in a risk of electric shock.**
- **Certain internal parts are intentionally not grounded and may present a risk of electric shock only during servicing. Service Personnel - Do not contact the following parts while the appliance is energized: Input/Output Board and Variable Frequency Drive, including the heat sinks.**
- **This appliance shall be installed in accordance with the rules in force, and dryers used only in a sufficiently ventilated space. Consult technical instruction before installation and use of this appliance.**

W935

CAUTION

To reduce the risk of injury or component failure, if electrical supply is coming from a three phase service, DO NOT connect a "High Leg" or "Stinger Leg" to a single phase machine. On a three phase machine, if there is a "High Leg" or "Stinger Leg" it should be connected to L3.

W938

WARNING

The appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by a utility.

W943

IMPORTANT: Electrical connections must be made by a qualified electrician using data on serial plate, installation manuals and wiring diagram provided with tumble dryer and according to local codes. Install a circuit breaker as close to the tumble dryer as possible. If more than one tumble dryer is being installed, a circuit breaker must be provided for each.

NOTE: Connect tumble dryer to an individual branch circuit not shared with lighting or other equipment.

NOTE: 3 Phase Tumble Dryers Only - Do not use fuses to avoid the possibility of “single phasing” and causing premature failure of the motors.

WARNING

In case of servicing (or putting the tumble dryer out of order), disconnect the tumble dryer from the main supply by switching off the circuit breaker.

W796

Wiring Diagram

NOTE: Wiring diagram location: inside electrical box.

The wiring diagram part number is in the lower portion of the electrical data on the serial plate.

Wiring for Central Pay

Applicable for the following control suffixes (position 7 and 8 of the model number): BL, NL and WL.

System Connections

Connection to central pay systems will be made in the rear junction box of the tumble dryer.

Locate the harness with Black, Red, White with Red Stripe and Orange with Black Stripe wires.

The wire colors will be the same regardless of control type. Splice the after-market central pay system wires to the tumble dryer control wire harness as follows.

Wire Colors	Description
Red	24V AC/DC from central pay system
Black	Common (negative) from central pay system

Table continues...

Wire Colors	Description
White with Red Stripe	Machine busy signal to central pay system
Orange with Black Stripe	Machine busy signal to central pay system

Start Pulse Requirements

All control types will consider a pulse valid if it is between 200 and 1000 milliseconds in length, with a minimum of 200 milliseconds between pulses.

Grounding Instructions

NOTE: To ensure protection against shock, this tumble dryer MUST be electrically grounded in accordance with the local codes, or in the absence of local codes, with the latest edition of the National Electrical Code ANSI/NFPA No. 70. In Canada the electrical connections are to be made in accordance with CSA C22.1 latest edition Canadian Electrical Code, or local codes. Electrical work should be done by a qualified electrician.

This tumble dryer must be grounded. In the event of malfunction or breakdown, grounding will reduce the risk of electric shock by providing a path of least resistance for electric current. This tumble dryer must be connected to a grounded metal, permanent wiring system; or an equipment grounding conductor must be run with the circuit conductors and connected to the appropriate ground location.

- Metal conduit and/or BX cable is not considered ground.
- Connecting the Neutral from the electrical service box to the tumble dryer ground screw does not constitute a ground.
- A dedicated ground conduit (wire) must be connected between the electrical service box ground bar and tumble dryer ground screw.

WARNING

To reduce the risk of electrical shock, de-energize the electrical circuit being connected to the tumble dryer before making any electrical connections. All electrical connections should be made by a qualified electrician. Never attempt to connect a live circuit.

W409R1

CAUTION

Label all wires prior to disconnection when servicing controls. Wiring errors can cause improper and dangerous operation. Verify proper operation after servicing.

W071

For On Premises Laundry (OPL) Models Only

All OPL (non-vend) models are factory-equipped with an emergency stop button on the front panel.

NOTE: Activation of the emergency stop switch stops all tumble dryer control circuit functions, but DOES NOT remove all electrical power from tumble dryer.

Service/Ground Location

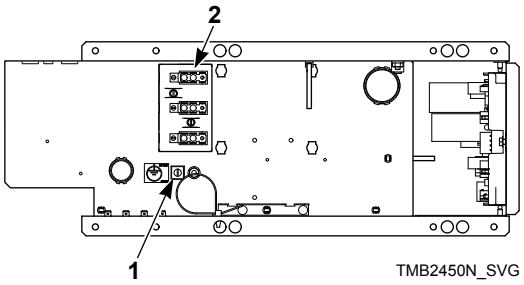
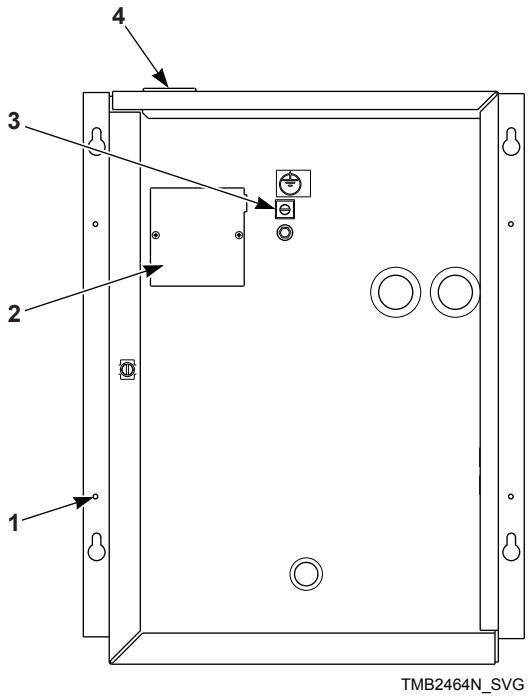
Model	Ground and Terminal Block Locations
Gas and Steam	 1. Ground 2. Power Distribution Block

Table continues...

Model	Ground and Terminal Block Locations
Electric	 TMB2464N_SVG 1. Junction Box 2. Terminal Block 3. Earth/Ground 4. Electrical Service

To Connect Electrical Service To The Tumble Dryer

NOTE: The wiring diagram is located in the junction box.

1. Install a circuit breaker as close to the tumble dryer as possible. If more than one tumble dryer is being installed, a disconnect switch or circuit breaker should be provided for each. This will make it possible to disconnect each tumble dryer for maintenance purposes.
2. Connect the wire leads to the appropriate labeled terminal on the terminal block. The ground wire must be connected to the ground connection as shown in *Service/Ground Location*.

Electrical Specifications

NOTE: Wire sizes were obtained from the Canadian Electrical Code for 75 C. wire and are intended for use as a guideline only. Electrical connections should be made by a qualified electrical contractor in accordance with all applicable local and national requirements.

NOTE: Electrical specifications below are subject to change without notice. Always refer to product serial plate for most current specifications of product being installed.

CAUTION

Use copper conductors only with the following rating when wiring appliance to electric supply: Dryer gas and steam heat models require 187°F (75°C) minimum. Dryer electric heat models require 194°F (90°C) minimum.

W936

NOTE: Connect this appliance to an individual branch circuit.

NOTE: 3 Phase Only – Each tumble dryer must be connected to its own individual branch circuit breaker, not fuses, to avoid the possibility of "single phasing" and causing premature failure of the motor(s).

IMPORTANT: For X, D and E voltages - To obtain 200-240V from a 200-240V source, connect L1 and L2. To obtain 220-240V from a 380-415V source, connect L1 and N. Refer to *Figure 21* .

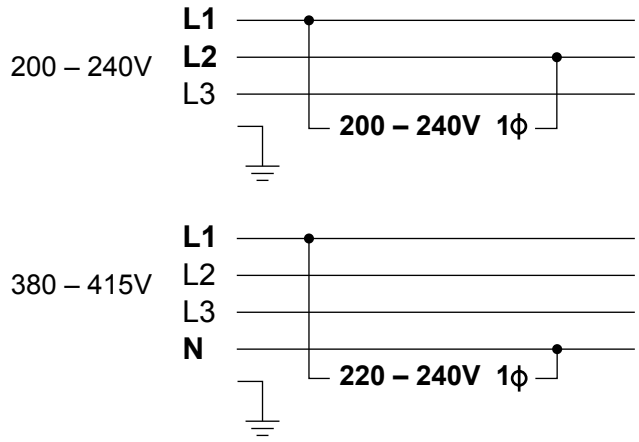


Figure 21

050 Series Gas and Steam Models

Voltage Code	Voltage	Cycle	Phase	Terminal Block Connections Required	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm^2]
B	100-120	50-60	1	L1, Neutral, and ground	9	15	14 [2.5]
X	200-240	50-60	1-3	Refer to *Figure 21*	6	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]
P	380-415	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]

Table 13

075 Series Gas and Steam Models

Voltage Code	Voltage	Cycle	Phase	Terminal Block Connections Required	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm^2]
B	100-120	50-60	1	L1, Neutral, and ground	12	15	14 [2.5]
X	200-240	50-60	1-3	Refer to *Figure 21*	7	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]
P	380-415	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]

Table 14

F75 Gas Models Only

Voltage Code	Voltage	Cycle	Phase	Terminal Block Connections Required	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm^2]
Q	200-240	50-60	3	L1, L2, L3 and ground	6	15	14 [2.5]
N	440-480	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]
P	380-415	50-60	3	L1, L2, L3 and ground	3	15	14 [2.5]

Table 15

21 kW 050 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Terminal Block Connections Required	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm^2]
E	230-240	50-60	1	Refer to *Figure 21*	91	125	1 [35]

Table 16

30 kW 050 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Terminal Block Connections Required	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm^2]
F	200-208	50-60	3	L1, L2, L3 and ground	87	110	2 [35]
G	230-240	50-60	3	L1, L2, L3 and ground	75	100	3 [26.7]
H	380	50-60	3	L1, L2, L3 and ground	47	60	6 [16]
J	400-415	50-60	3	L1, L2, L3 and ground	43	60	6 [16]
K	440	50-60	3	L1, L2, L3 and ground	41	60	6 [16]
L	460-480	50-60	3	L1, L2, L3 and ground	38	50	8 [10]

Table 17

36 kW Classic Line 075 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Terminal Block Connections Required	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm^2]
F	200-208	50-60	3	L1, L2, L3 and ground	104	150	1/0 [50]
G	230-240	50-60	3	L1, L2, L3 and ground	90	125	1 [35]
H	380	50-60	3	L1, L2, L3 and ground	56	70	4 [25]
J	400-415	50-60	3	L1, L2, L3 and ground	52	70	4 [25]
K	440	50-60	3	L1, L2, L3 and ground	49	70	4 [25]
L	460-480	50-60	3	L1, L2, L3 and ground	45	60	6 [16]

Table 18

21 kW Eco Line 075 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Terminal Block Connections Required	Full Load Amps	Circuit Breaker	Wire Size AWG [mm^2]
F	200-208	50-60	3	L1, L2, L3 and ground	62	80	4 [25]
G	230-240	50-60	3	L1, L2, L3 and ground	54	70	4 [25]
H	380	50-60	3	L1, L2, L3 and ground	33	45	8 [10]
J	400-415	50-60	3	L1, L2, L3 and ground	31	40	8 [10]
K	440	50-60	3	L1, L2, L3 and ground	29	40	8 [10]
L	460-480	50-60	3	L1, L2, L3 and ground	27	35	8 [10]

Table 19

30 kW Medium Line 075 Series Electric Models

Voltage Code	Voltage	Cycle	Phase	Terminal Block Connections Required	Full Load Amps	Recommended Circuit Breaker Rating Amps	Wire Size AWG [mm^2]
F	200-208	50-60	3	L1, L2, L3 and ground	87	110	2 [35]
G	230-240	50-60	3	L1, L2, L3 and ground	76	100	3 [26.7]
H	380	50-60	3	L1, L2, L3 and ground	47	60	6 [16]
J	400-415	50-60	3	L1, L2, L3 and ground	43	60	6 [16]
K	440	50-60	3	L1, L2, L3 and ground	41	60	6 [16]
L	460-480	50-60	3	L1, L2, L3 and ground	37	50	8 [10]

Table 20

Steam Requirements

Steam Requirements

WARNING

This appliance does not contain inherent pressure relief. A pressure relief valve rated for a maximum of 125 psi shall be provided by the steam source.

W942

NOTE: Steam valve and required adapter are located in cylinder or lint compartment.

NOTE: Machines require a constant 80 to 100 psig [5.3 to 6.9 bar] steam service for optimum operation. The maximum allowable steam pressure is 125 psig [8.6 bar]. In no case may the pressure exceed the above value.

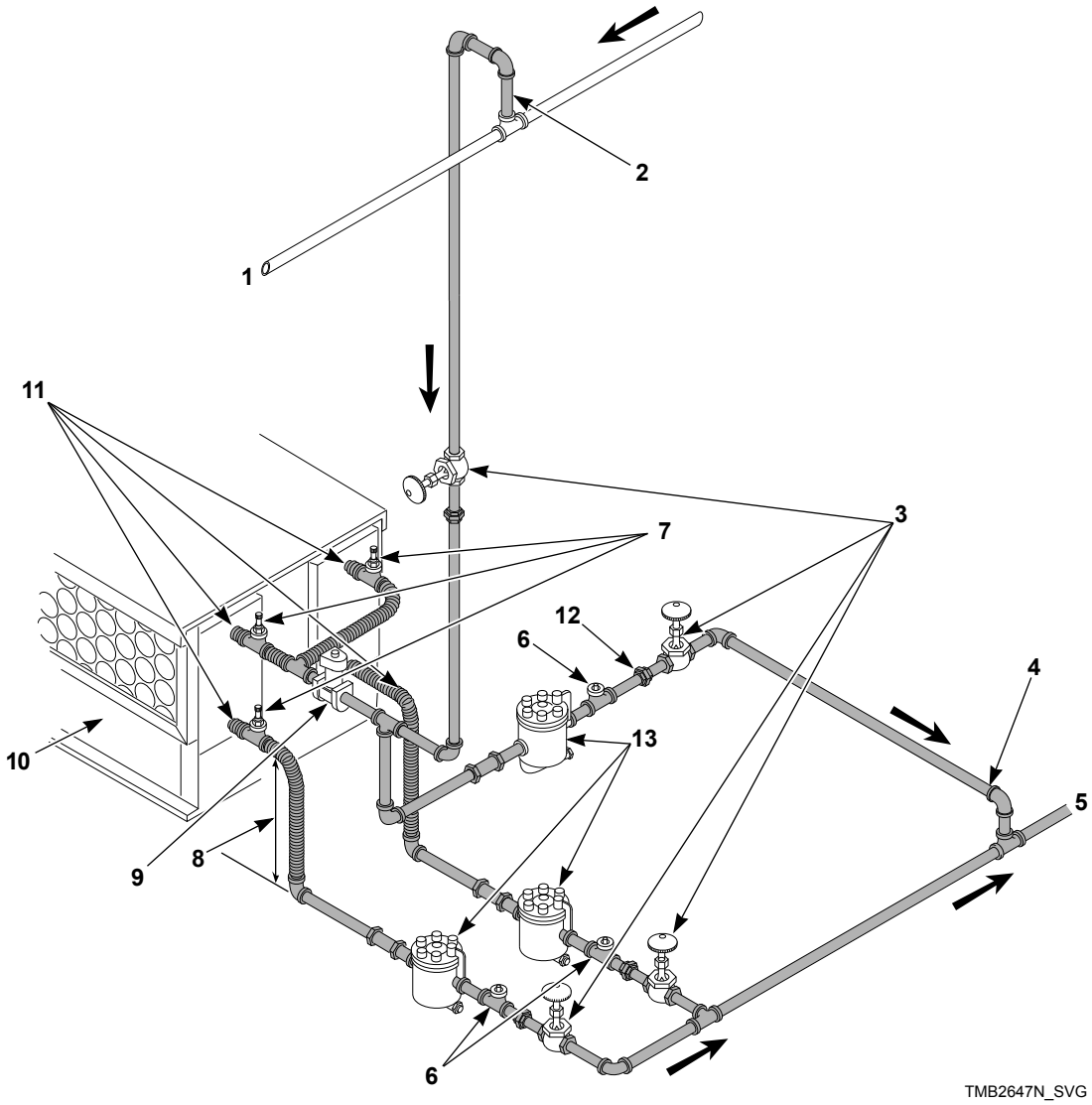
Obtain specific steam service pipe sizes from steam system supplier or a qualified steam fitter.

- Refer to *Figure 22* for proper steam pipe configurations.
- To prevent condensate draining from headers to tumble dryer, piping should have a minimum 12 inch [300 mm] rise above respective header. Do not make steam connection to header with a horizontal or downward facing tee or elbow.
- Whenever possible, horizontal runs of steam lines must drain, by gravity, to respective steam header. Water pockets, or an improperly drained steam header will provide wet steam, causing improper operation of tumble dryer. If pockets or improper drainage cannot be eliminated, install a bypass trap to drain condensate from the low point in the steam header to the return.
- In both steam supply and steam return line, it is recommended that each have a pipe union and shut-off valve. This will enable you to disconnect the steam connections and service the tumble dryer while your laundry facility is in operation.
- Connect the steam solenoid valve to the related steam coil inlet connection with nipples, flex hoses, unions and tees.
- Strainers may require cleaning due to materials from hoses or pipes.
- Install vacuum breaker (optional), bucket trap with built-in strainer and check valve. For successful operation of tumble dryer, install trap 18 inches [460 mm] below coil and as near to the tumble dryer as possible. Inspect trap carefully for inlet and outlet markings and install according to trap manufacturer's instructions. If steam is gravity returned to boiler, omit trap but install vacuum breaker and check valve in return line near tumble dryer. Gravity return requires entire return plumbing be below steam coil outlets.
- Install union and shut-off valve in return line and make final pipe connections to return header.

NOTE: To prevent water hammering, route return lines below outlets of steam coils.

NOTE: Steam inlet lines of each dryer should be trapped to keep line condensation from going into steam coils.

NOTE: IEC machines are shipped with BSPT adapters in the lint compartment.



NOTE: Refer to *Table 21* for sizing of steam lines. Piping must also be sized accordingly for length of runs and number of elbows.

1. Supply
2. 12 in. [300 mm] Riser
3. Shut-Off Valve
4. Condensate Return Line from Supply Line
5. Return
6. Check Valve
7. Vacuum Breaker (Optional)
8. 18 in. [460 mm] Drop Recommended (not above outlet)
9. Solenoid Valve (Supplied with machine)
10. Steam Bonnet
11. Flexible Line
12. Union
13. Trap with Built-In Strainer

Figure 22

Steam Pressure PSI [bar]	Minimum Supply Pipe Diameter	Steam Trap Size* Pounds Condensate/Hour [Kilograms Condensate/Hour]
80-100 [5.3-6.9]	3/4 NPT	160 [72.6]
*Based on 6.9 bar.		

Table 21

Piping Recommendations

- Trap each steam coil individually. Always keep the trap clean and in good working condition.
- When tumble dryer is on the end of a line of equipment, extend header at least 4 feet [1.2 m] beyond tumble dryer. Install shut-off valve, union, check valve and bypass trap at end of line. If gravity return to boiler, omit trap.
- Insulate steam supply and return lines for safety of operator and safety while servicing tumble dryer.

WARNING

All system components must have a 125 psig [8.6 bar] working pressure. Shut-off valves must be installed upstream of the steam solenoid valve and downstream of each steam trap so components can be isolated for maintenance or emergency purposes. All components (solenoid valve, traps) must be supported to minimize loads on the tumble dryer steam coil connections.

W701R1

Installing Steam Trap and Making Condensate Return Connections

The steam trap must be installed and the coil outlet connections must be connected to the condensate return lines. The following steps outline the procedure for installing the steam trap and connecting the condensate return lines. Refer to *Figure 22* for typical installations.

1. Use flexible lines between steam inlet solenoid and steam coils, as well as outlet between steam coil and traps.
2. If necessary, install a strainer at the end of each flexible hose.
3. Install a steam trap to each strainer.

   IMPORTANT: Steam trap must be installed a minimum of 18 inches [460 mm] recommended below the steam coil outlet connections.
4. Install a shut-off valve to each steam trap.
5. Connect to the condensate return lines.
6. For steam solenoid valve wiring connections, refer to Wiring Diagram supplied with tumble dryer.

Adjustments

Adjustments

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

Gas Burner Air Shutter

NOTE: Air inlet shutters on the burner must be adjusted so sufficient air is metered into the system for proper combustion and maximum efficiency. Before adjusting the inlet shutters be sure that all lint is removed from lint compartments and lint screen.

Air shutter adjustments will vary from location to location and will depend on the vent system, number of units installed, make-up air and line gas pressure. Opening the shutter increases the amount of primary air supplied to the burner while closing the shutter decreases the primary air supply. Adjust air shutter as follows:

Refer to *Figure 23* .

1. Open the upper front access panel and remove the burner inspection hole plate.

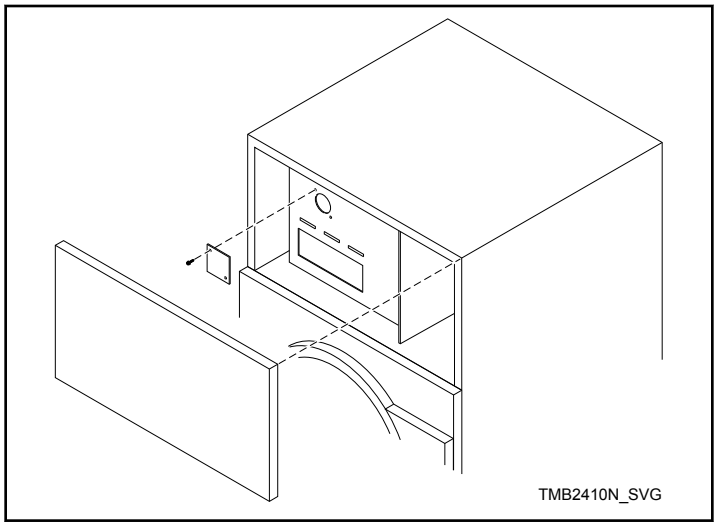
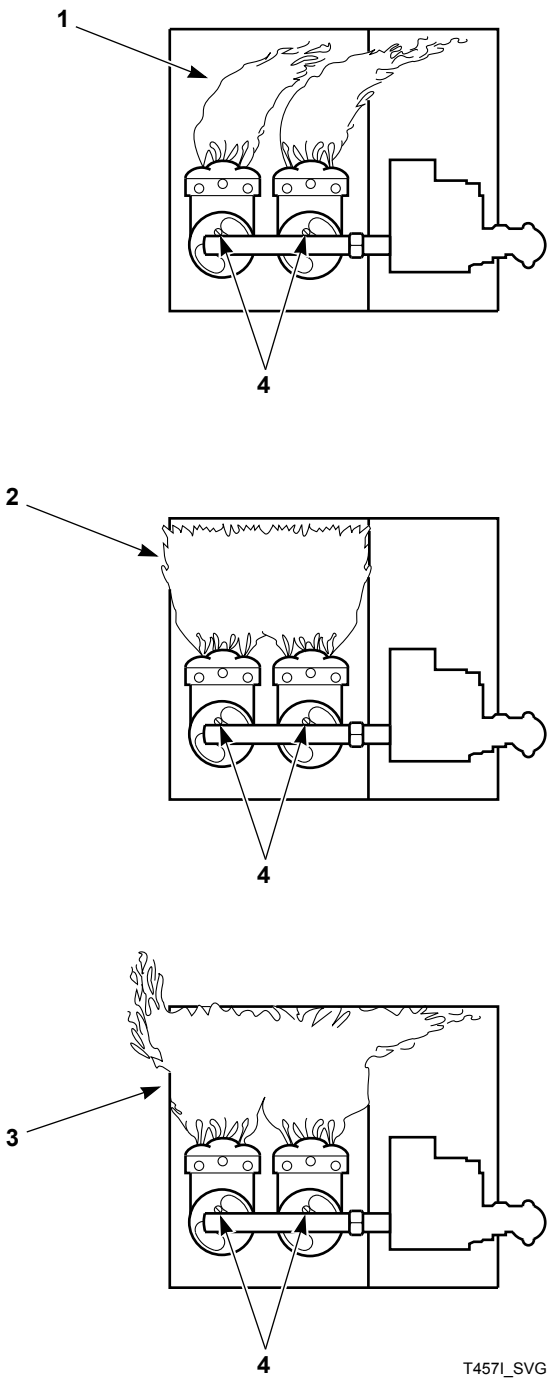


Figure 23

2. Start the tumble dryer and check the flame pattern. If the flame pattern is straight up, insufficient air is flowing through the tumble dryer. A flame pattern that flares to the right and left indicates no air is flowing through the tumble dryer. Correct air and gas mixture is indicated if the flame pattern is primarily blue, with small yellow tips, and bends to the right of the heater section. Too little air is indicated if the flame if yellow, lazy and smokey. (A whistling sound from burner could also be caused by an improper air shutter setting.)
3. To adjust the air shutter, loosen air inlet shutter adjusting screw.
4. Open or close air shutter as necessary to obtain proper flame intensity.
5. After air shutter is adjusted for proper flame, tighten air shutter adjusting screw securely.



1. Proper Airflow
2. Insufficient Airflow
3. No Airflow
4. Air Shutter Adjusting Screw

Figure 24

Airflow Switch

The airflow switch is set at the factory for proper operation. No adjustment necessary.

The airflow switch operation may be affected by shipping wire tie still in place, lack of make-up air, or an obstruction in the exhaust duct. These should be checked and the required corrective action taken.

WARNING

The tumble dryer must not be operated if the airflow switch does not operate properly. Faulty airflow switch operation may cause an explosive gas mixture to collect in the tumble dryer.

W072R1

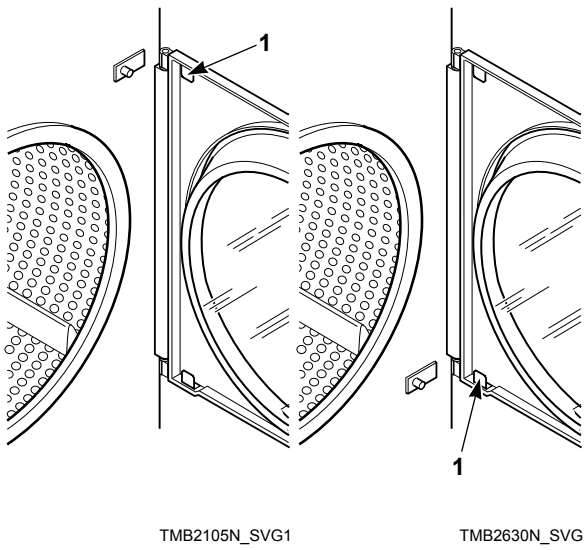
IMPORTANT: Airflow switch vane must remain closed during operation. If it opens and closes during the drying cycle, this indicates insufficient airflow through the tumble dryer. If switch remains open, or pops open and closed during the cycle, the heating system will shut off. The cylinder and fan will continue to operate even though the airflow switch is indicating insufficient airflow.

NOTE: To properly mount the airflow switch bracket, or in case of a load not drying, the airflow switch bracket may need to be checked for proper alignment. Be sure the locator pins are securely in their respective holes before tightening the bracket mounting screws. This will assure proper alignment of the airflow switch arm in the channel of the airflow switch bracket and prevent binding of the arm.

Loading Door Switch

The door switch should be adjusted so the cylinder stops when door is opened 0.79 inches [20 mm]. This switch is a normally open switch and is closed by the switch actuator when the door is closed. If adjustment is required, refer to *Figure 25* and proceed as follows:

1. Close door and start tumble dryer, slowly open loading door. Cylinder and heat system should shut off when door is open 0.79 inches [20 mm].
2. Slowly close the loading door. When door is 0.79 inches [20 mm] or less from being fully closed, the door switch actuating bracket (located on the door) should depress the button and the switch arm with an audible “click.”
3. If the actuating bracket does not operate the switch at the appropriate door closure, bend the actuating switch arm in or out to achieve proper actuation.



1. Switch Actuator

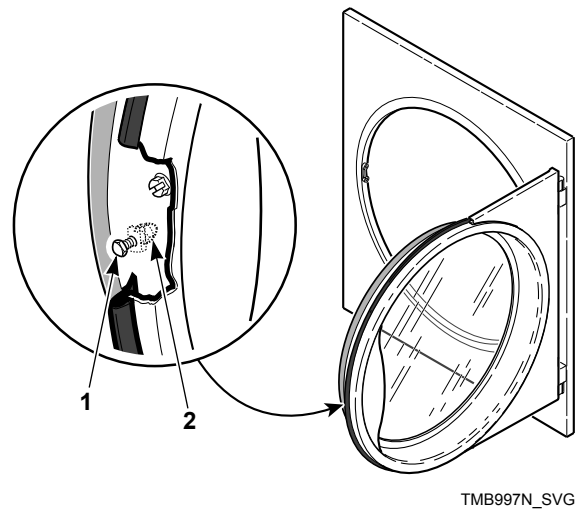
Figure 25

Door Strike

The door strike must be adjusted to have sufficient tension to hold loading door closed against force of the load tumbling against it. There is proper adjustment of pull force when 8 to 15 pounds [35.6 N – 66.7 N] is required to open door.

If adjustment is required, refer to *Figure 26* and proceed as follows:

1. To adjust, open door, loosen acorn nut, and turn door strike screw in or out as required.
2. Retighten acorn nut.



1. Door Strike Screw
2. Acorn Nut

Figure 26

Manual Resettable Thermostat

NOTE: The manual resettable thermostat is located on rear panel below drive motor.

If thermostat trips, contact a qualified service technician.

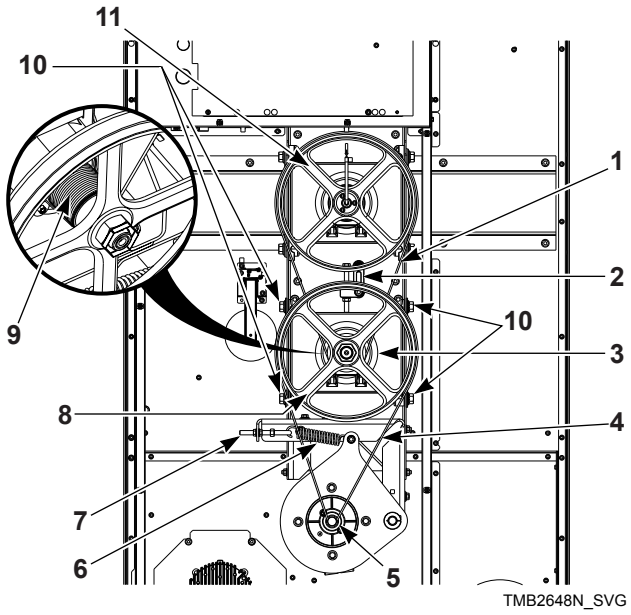
Belt Drive

The drive assembly consists of a motor, four pulleys, two belts, idler housing, upper belt adjustment block/bolt/jamnut, lower belt adjustment eyebolt and a spring.

The pulley diameters are sized to produce a cylinder speed of 38-41 RPM.

The idler housing pulleys are used for speed reduction as well as a means of adjusting belt tension. The idler housing is attached to the cabinet rear center braces. The cabinet rear center braces have vertically slotted holes allowing up and down movement of the idler housing for belt adjustment.

Refer to *Figure 27* .



1. Upper Belt (measure frequency at mid-span)
2. Upper Belt Adjustment Block/Bolt/Jamnut
3. Idler Housing
4. Lower Belt (measure frequency at mid-span)
5. Motor Pulley
6. Spring
7. Lower Belt Adjustment Eyebolt
8. Idler Large Pulley
9. Idler Small Pulley
10. Idler Housing Mounting, Screws and Washers
11. Upper Basket Pulley

Figure 27

Upper Belt Tension

1. Disconnect electrical power to the tumble dryer before attempting any adjustments to the drive assembly.
2. Loosen idler housing mounting screws.

IMPORTANT: Do not remove screws. Shoulder washers must be engaged in center brace slots.

3. Loosen the adjustment block jam nut.
4. Rotate the adjustment block bolt until proper belt tension is achieved.

IMPORTANT: Always rotate the basket pulley a minimum of three full rotations before taking a belt tension reading.

5. Tighten adjustment block jam nut back into place while restraining the adjustment block bolt from turning.
6. Tighten idler housing mounting screws (torque to 50 ft-lbs). Recheck belt tension.
7. Lower belt tension will be affected by adjusting the upper belt tension as it is a dependent system. Refer to section below to adjust lower belt.

Lower Belt Tension

1. Disconnect electrical power to the tumble dryer before attempting any adjustments to the drive assembly.
2. Loosen the right jamnut on the lower belt adjustment eyebolt.
3. Rotate the left nut on the lower belt adjustment eyebolt clockwise to tighten until proper belt tension is achieved.

IMPORTANT: Always rotate the basket pulley a minimum of three full rotations before taking a belt tension reading.

IMPORTANT: Grasp eyebolt neck to prevent spring rotation during nut rotation.

4. Rotate right jamnut clockwise against the lower spring tension plate in order to lock it into place, restraining the left nut from turning. Recheck belt tension.

NOTE: Proper tensions for new belts are measured with a Belt Tension Frequency Gauge.

Belts should not slip or make any noise when starting up under normal load.

	Drive Motor	
	Initial Frequency	**After Run-in Frequency**
Upper Belt	155 Hz +/-4 Hz	140 Hz +19/-5 Hz
Lower Belt	100 Hz +4/-4 Hz	98 Hz +6/-4 Hz

Table 22

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 28* . 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.

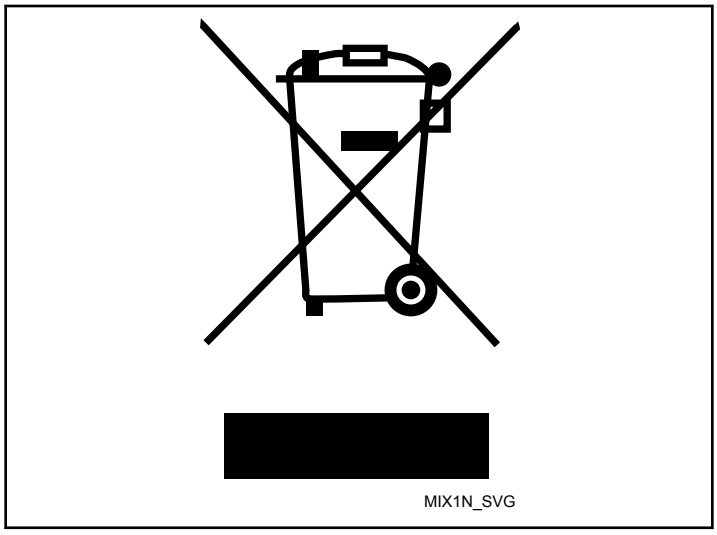


Figure 28

China Restriction of hazardous substances (RoHS)

The Table of Hazardous Substances/Elements and their Content As required by China's Management Methods for Restricted Use of Hazardous Substances in Electrical and Electronic Products

Hazardous substances						
Part Name	Lead (Pb)	Mercury (Hg)	Cadmium (Cd)	Hexavalent Chromium (CR[VI])	Polybrominated biphenyls (PBB)	Polybrominated diphenyl ethers (PBDE)
PCBs	X	O	O	O	O	O
Electromechanical Parts	O	O	O	O	O	O
Cables and Wires	O	O	O	O	O	O
Metal Parts	O	O	O	O	O	O
Plastic Parts	O	O	O	O	O	O
Batteries	O	O	O	O	O	O
Textile	O	O	O	O	O	O
Timing Belts	O	O	O	O	O	O
Insulation	O	O	O	O	O	O
Glass	O	O	O	O	O	O
Display	O	O	O	O	O	O

This table is prepared in accordance with the provisions of SJ/T-11364.

O: Indicates that the content of said hazardous substance in all of the homogenous materials in the component is within the limits required by GB/T 26572.

X: Indicates that the content of said hazardous substance exceeds the limits required by GB/T 26572 in at least one homogenous material in the component.

All parts named in this table with an "X" are in compliance with the European Union's RoHS Legislation.

NOTE: The referenced Environmental Protection Use Period Marking was determined according to normal operating use conditions of the product such as temperature and humidity.

This product under normal use, durable years of environmental protection is 15 years.