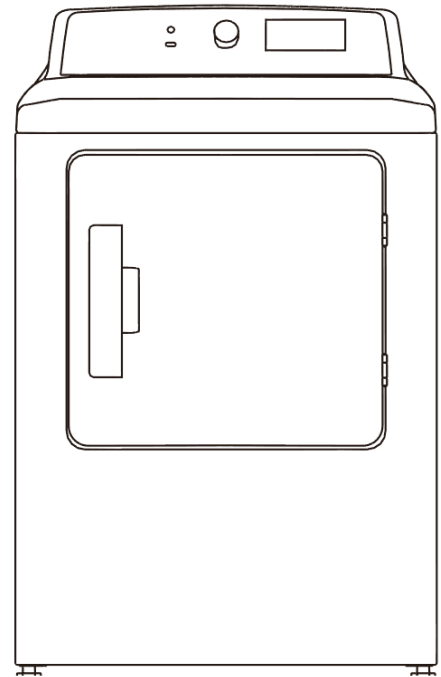


INSIGNIA™

Website: <https://www.insigniaproducts.com/>

Laundry

DRYER MACHINE Service Manual



Models:

NS-FDRE67WH8A-C

NS-FDRE67WH8A

NS-FDRG67WH8A

CAUTION

READ THIS MANUAL CAREFULLY TO DIAGNOSE TROUBLES CORRECTLY BEFORE OFFERING SERVICE.

CONTENTS

| | |
|--|----|
| 1. PRECAUTION | 6 |
| 1.1 Safety precaution | 6 |
| 1.2 Warning | 6 |
| 1.3 Caution | 8 |
| 2. HOW TO USE..... | 9 |
| 2.1 Controls and function | 9 |
| 2.2 Cycle guide with option settings | 11 |
| 3. DIMENSION AND INSTALLATION | 12 |
| 3.1 Unit dimension | 12 |
| 3.2 Installation | 13 |
| 4. TROUBLE SHOOTING..... | 22 |
| 4.1 Test mode by Control..... | 22 |
| 4.2 Test modes | 22 |
| 4.3 Error codes..... | 23 |
| 4.4 Wiring diagram and terminals | 24 |
| 4.5 Trouble shooting | 26 |
| 5. HOW TO DISASSEMBLY THE UNIT | 30 |
| 6. EXPLODED VIEW | 41 |
| 7. SPARE PARTS | 43 |
| 8. SPECIFICATION | 47 |

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.

–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.



WARNING

Fire Hazard

Failure to follow safety warnings exactly could result in serious injury, death or property damage.

Do not install a booster fan in the exhaust duct.

Install all clothes dryers in accordance with the installation instructions of the manufacturer of the dryer.



WARNING

This conversion kit shall be installed by a qualified service agency in accordance with the manufacturer's instructions and all applicable codes and requirements of the Authority Having Jurisdiction. The information in these instructions must be followed to minimize the risk of fire or explosion or to prevent property damage, personal injury, or death. The qualified service agency is responsible for the proper installation of this kit. The installation is not proper and complete until the operation of the converted appliance is checked as specified in the manufacturer's instructions supplied with the kit.

CAUTION

THE CONVERSION SHALL BE CARRIED OUT IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROVINCIAL AUTHORITIES HAVING JURISDICTION AND IN ACCORDANCE WITH THE REQUIREMENTS OF THE CSA B149.1, INSTALLATION CODE.

Temperature conversion:

| °C | °F | °C | °F | °C | °F |
|-----|-----|----|-------|------|------|
| 340 | 644 | 75 | 167 | 18 | 64.4 |
| 330 | 626 | 70 | 158 | 17 | 62.6 |
| 320 | 608 | 65 | 149 | 16 | 60.8 |
| 310 | 590 | 60 | 140 | 15 | 59 |
| 300 | 572 | 55 | 131 | 14 | 57.2 |
| 290 | 554 | 50 | 122 | 13 | 55.4 |
| 280 | 536 | 45 | 113 | 12 | 53.6 |
| 270 | 518 | 40 | 104 | 11 | 51.8 |
| 260 | 500 | 39 | 102.2 | 10 | 50 |
| 250 | 482 | 38 | 100.4 | 9 | 48.2 |
| 240 | 464 | 37 | 98.6 | 8 | 46.4 |
| 230 | 446 | 36 | 96.8 | 7 | 44.6 |
| 220 | 428 | 35 | 95 | 6 | 42.8 |
| 210 | 410 | 34 | 93.2 | 5 | 41 |
| 200 | 392 | 33 | 91.4 | 4 | 39.2 |
| 190 | 374 | 32 | 89.6 | 3 | 37.4 |
| 180 | 356 | 31 | 87.8 | 2 | 35.6 |
| 170 | 338 | 30 | 86 | 1 | 33.8 |
| 160 | 320 | 29 | 84.2 | zero | 32 |
| 150 | 302 | 28 | 82.4 | -1 | 30.2 |
| 140 | 284 | 27 | 80.6 | -2 | 28.4 |
| 130 | 266 | 26 | 78.8 | -3 | 26.6 |
| 120 | 248 | 25 | 77 | -4 | 24.8 |
| 110 | 230 | 24 | 75.2 | -5 | 23 |
| 100 | 212 | 23 | 73.4 | -6 | 21.2 |
| 95 | 203 | 22 | 71.6 | -7 | 19.4 |
| 90 | 194 | 21 | 69.8 | -8 | 17.6 |
| 85 | 185 | 20 | 68 | -9 | 15.8 |
| 80 | 176 | 19 | 66.2 | -10 | 14 |

Centigrade=5/9(F-32)

Fahrenheit=9/5C+32

1. PRECAUTION

1.1 Safety precaution

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.

– 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.

1.2 Warning

- Do not dry items that have been previously cleaned, washed, soaked, or spotted with gasoline, dry cleaning solvents, or other flammable or explosive substances. They emit vapors that could ignite or explode. Any material that has been in contact with a cleaning solvent or flammable liquids or solids should not be placed in the dryer until all traces of these flammable liquids or solids and their fumes have been removed.
- There are many highly flammable items used in homes, such as acetone, denatured alcohol, gasoline, kerosene, some liquid household cleaners, some spot removers, turpentine, waxes, and wax removers.
- Do not dry items containing foam rubber (may be labeled latex foam) or similarly textured rubber-like materials on a heat setting. Heated foam rubber materials can, under certain circumstances, produce fire by spontaneous combustion.
- Clothes dryer installation must be performed by a qualified installer.
- Install the clothes dryer according to the manufacturer's instructions and local codes.
- Do not install a clothes 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 clothes dryer. Flexible venting materials are known to collapse, be easily crushed, and trap lint. These conditions will obstruct with the clothes dryer's airflow and increase the risk of fire.
- To reduce the risk of severe injury or death, follow all installation instructions.
- Read all instructions before using the appliance.
- Use this appliance only for its intended purpose as described in this Owner's Manual.
- Before use, the dryer must be properly installed as described in this manual.
- ALWAYS follow the fabric care instructions supplied by the garment manufacturer.
- Do not dry articles that have been previously cleaned in, washed in, soaked in, or spotted with gasoline, dry-cleaning solvents, other flammable or explosive substances as they give off vapors that could ignite or explode.
- Do not use the dryer to dry clothes which have traces of any flammable substance,

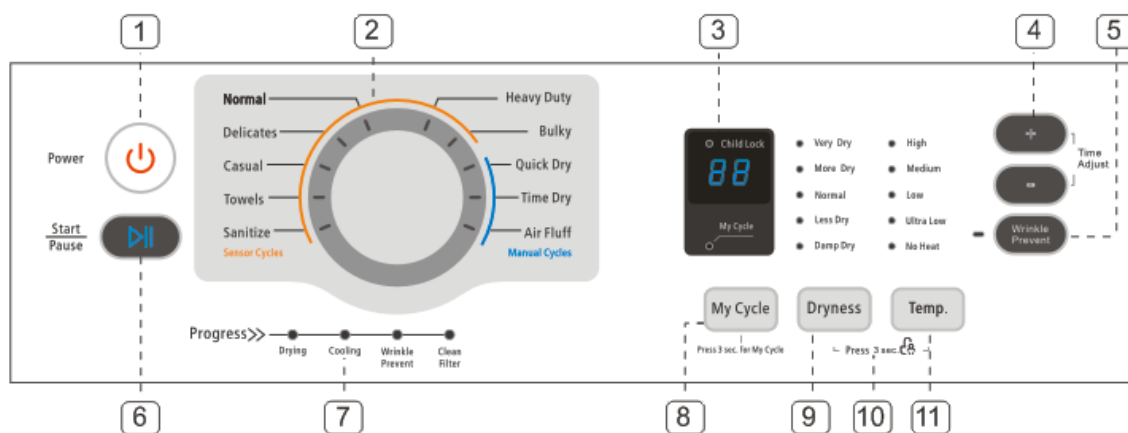
- such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc., or anything containing wax or chemicals, such as mops and cleaning clothes. Flammable substances may cause the fabric to catch fire by itself.
- Do not store or use gasoline or other flammable vapors and liquids near this or any other appliance.
 - Do not allow children to play on or in the appliance. Close supervision of children is necessary when the appliance is used near children.
 - Before the appliance is removed from service or discarded, remove the lid of the washing or door of the drying compartment.
 - Do not reach into the appliance if the drum is moving.
 - Do not install or store this appliance where it will be exposed to the weather or freezing temperatures.
 - Do not tamper with the controls.
 - Do not repair or replace any part of the appliance or attempt any servicing unless it is specifically recommended in the ser-maintenance instructions or in published user-repair instructions that you understand and have the skills to carry out.
 - Keep the area underneath and around your appliances free of combustible materials (lint, paper, rags, etc.), gasoline, chemicals and other flammable vapors and liquids.
 - Do not place items exposed to cooking oils in your washer. Items contaminated with cooking oils may contribute to a chemical reaction that could cause a load to catch fire.
 - Turn off the water faucets and unplug the washer if the machine is to be left for an extended period of time, such as during vacations.
 - Packaging material can be dangerous for children. There is a risk of suffocation! Keep all packaging from children.
 - Always check the inside of the dryer for foreign objects before loading laundry. Keep the door closed when not in use.
 - Do not use fabric softeners or products to eliminate static unless recommended by the manufacturer of the fabric softener or product.
 - Clean the lint screen before or after each load.
 - Keep the area around the exhaust opening and surrounding areas free from lint, dust, and dirt.
 - The interior of the dryer and exhaust duct should be cleaned periodically by qualified service personnel.
 - Do not place items exposed to cooking oils in your dryer. Items contaminated with cooking oils may contribute to a chemical reaction that could cause a load to catch fire.
 - This appliance must be grounded. See “Electrical requirements” and “Grounding” in the “Installation Steps” section.
 - This appliance must be properly grounded. Never plug the power cord into a receptacle that is not grounded adequately and in accordance with local and national codes. Refer to installation instructions for grounding this appliance.
 - Ensure pockets are free from small irregularly shaped hard objects and foreign material, i.e. coins, knives, pins, etc. These objects could damage your dryer.
 - Gas leaks may occur in your system, resulting in a dangerous situation.
 - Gas leaks may not be detected by smell alone.
 - Gas suppliers recommend you purchase and install a UL approved gas detector.

1.3 Caution

- Do not sit on top of the dryer.
- Because of continuing product improvements, Midea America reserves the right of change specifications without notice. For complete details, see the Installation Instructions packed with your product before selecting cabinetry, making cutouts, or beginning installation.
- Do not dry clothing with large buckles, buttons, or other heavy metal or solid things.
- Install and use in accordance with the manufacturer's instructions.
- Do not place items in your dryer that have been spotted or soaked with vegetable oil or cooking oil. Even after being washed, these items may contain significant amounts of these oils.
- Residual oil on clothing can ignite spontaneously. The potential for spontaneous combustion increases when items containing vegetable oil or cooking oil are exposed to heat. Heat source such as your dryer can warm these items, allowing an oxidation reaction in the oil to occur.
- Oxidation creates heat. If this heat cannot escape, the items can become hot enough to catch fire. Piling, stacking, or storing these kinds of items may prevent heat from escaping and can create a fire hazard.
- Take care that children's fingers are not caught in door when closing it. This may result in injury.

2. HOW TO USE

2.1 Controls and function



1. Power button

Press once to turn your dryer on. Press again to turn your dryer off. If the dryer is left on for more than 10 minutes without any buttons being pressed, the unit will automatically turn OFF.

2. Cycle selector

Select your desired cycle for the type of load. The cycle you select determines the heat control for the cycle. The Normal, Delicates, Bulky, Heavy duty, Towels, Casual and Sanitize cycles are Sensor Dry cycles. The Quick Dry, Time Dry and Air fluff cycles are Manual Dry cycles. For detail, refer to page 18.

3. Digital display

The LED digital display will show your remaining time for cycle selected. The LED will show selected delay time when setting the delay time.

4. Time adjust button

This button is effective only for Manual cycles. Push this button to change the drying time you prefer. Push one by one to get your desired the setting time.

5. Wrinkle prevent button

Press once to add the Wrinkle Prevent step into the operating program. Press again to cancel selection. Wrinkle Prevent provides approximately 90 minutes of intermittent tumbling in unheated air at the end of the cycle to reduce wrinkling. The load is already dry, and can be removed at any time during the Wrinkle Prevent cycle.

6. Start/pause button

Press once to start the program. Press again to pause the program. You can't change any setting except add a garment. Press once again to restart the program.

7. Cycle status lights

The relative light will be lit when the dryer is in its drying program, say the cooling LED will lit when the dryer is operating in cooling down process. When the whole program is finished, the Clean Filter light will flash to remind you to clean the filter (for detail, refer to page 20).

8. My cycle

Press and hold for 3 seconds to remember your favorite drying cycle. Press once to load your favorite cycle setting.

9. Dryness level button

Press the button to select the dryness level. Different dryness level will result in different drying time. For clothes to be ironed manually, a lower dryness level should be selected

10. Child lock

Press the Dryness and Temp. buttons together to activate the Child lock function. Press again for another 3 seconds to deactivate the function. All selection except the "Power" will be out of function. For detail, refer to page 20.

11. Temp button

Press the button to select the drying temperature. High - For sturdy cottons or those labeled Tumble Dry. Medium - For permanent press, synthetics, lightweight cottons, or items labeled Tumble Dry Medium. Low - For lower heat than Medium to dry synthetic or washable knit fabrics. Ultra Low - For heat sensitive items labeled Tumble Dry Low or Tumble Dry Warm. No Heat - Provides just the air cycle without any heat.

2.2 Cycle guide with option settings

| Cycle | Fabric type | Dryness Level | Temp | Wrinkle Prevent | My Cycle | Time adjust | Default time (Gas) | Default time (Elec.) |
|------------|--|---------------|-----------|-----------------|----------|-------------|--------------------|----------------------|
| Normal | Cotton Under wear Linen | Very Dry | High | ● | ● | | 50min | 50min |
| | | More Dry | | | | | | |
| | | Normal | | | | | | |
| | | Less Dry | | | | | | |
| | | Damp Dry | | | | | | |
| Delicates | Sensitive items | Very Dry | Low | ● | ● | | 34min | 34min |
| | | More Dry | | | | | | |
| | | Normal | | | | | | |
| | | Less Dry | | | | | | |
| | | Damp Dry | | | | | | |
| Casual | Wrinkle-free cottons synthetic fabrics knits | Very Dry | Medium | ● | ● | | 27min | 27min |
| | | More Dry | | | | | | |
| | | Normal | | | | | | |
| | | Less Dry | | | | | | |
| | | Damp Dry | | | | | | |
| Towels | Towels Heavy cottons | Very Dry | High | ● | ● | | 58min | 58min |
| | | More Dry | | | | | | |
| | | Normal | | | | | | |
| | | Less Dry | | | | | | |
| | | Damp Dry | | | | | | |
| Sanitize | Bedding Curtains | Very Dry | High | ● | ● | | 60min | 60min |
| Heavy Duty | Jeans Corduroys Work clothes | Very Dry | High | ● | ● | | 62min | 62min |
| | | More Dry | | | | | | |
| | | Normal | | | | | | |
| | | Less Dry | | | | | | |
| | | Damp Dry | | | | | | |
| Bulky | Blankets Sheets Comforters | Very Dry | Medium | ● | ● | | 62min | 62min |
| | | More Dry | | | | | | |
| | | Normal | | | | | | |
| | | Less Dry | | | | | | |
| | | Damp Dry | | | | | | |
| Quick Dry | | | High | ● | ● | ● | 30min | 30min |
| | | | Medium | | | | | |
| | | | Low | | | | | |
| | | | Ultra low | | | | | |
| | | | No heat | | | | | |
| Time Dry | | | High | ● | ● | ● | 40min | 40min |
| | | | Medium | | | | | |
| | | | Low | | | | | |
| | | | Ultra low | | | | | |
| | | | No heat | | | | | |
| Air fluff | | | No heat | ● | ● | ● | 20min | 20min |

* Table in grey is an initial setting. Dots are all optional functions you can select.

3. DIMENSION AND INSTALLATION

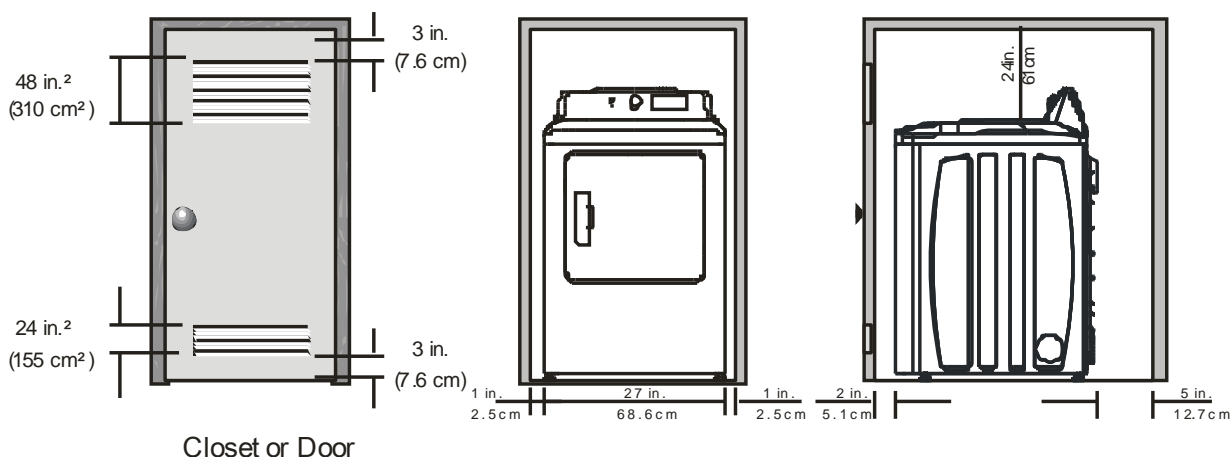
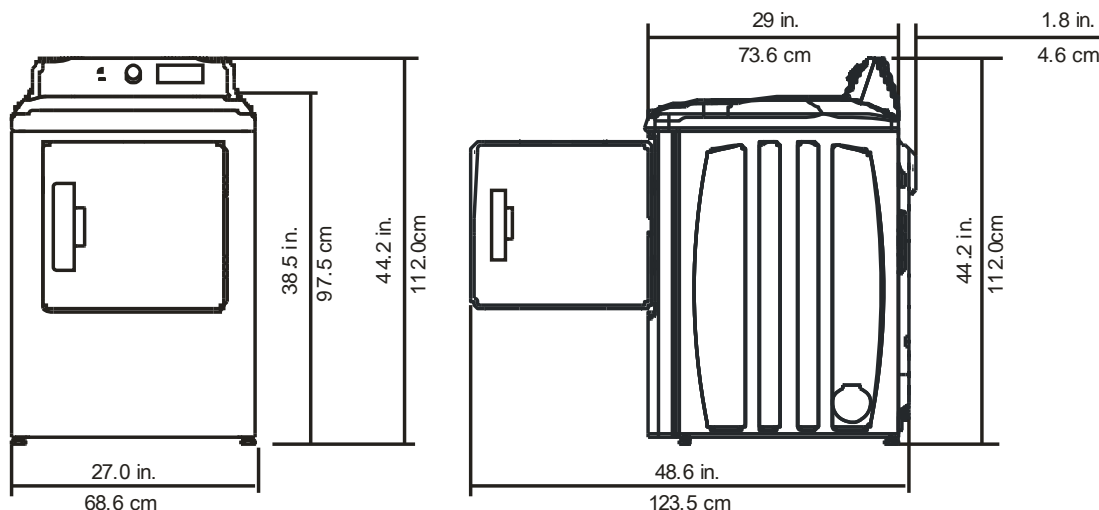
3.1 Unit dimension

The dryer should be located where there is enough space at the front for loading the dryer, and enough space behind for the exhaust system.

- This dryer is factory-ready for the rear exhaust option. To exhaust out the bottom or left, use the accessory exhaust kit. Instructions are included with the kit.
- Make sure the room in which the dryer is located has enough fresh air. The dryer must be located where there are no air-flow obstructions.

For gas dryers, adequate clearance must be maintained as noted on the data plate to ensure adequate air for combustion and the proper dryer operation.

The dryer must not be installed or stored in an area where it will be exposed to water and/or weather. The dryer area must be kept clear of combustible materials, gasoline, and other flammable vapors and liquids. A dryer produces combustible lint. The area around the dryer should be kept lint-free.



Alcove or closet installations

The dryer must be exhausted to the outside to reduce the risk of fire when installed in an alcove or closet.

- No other fuel-burning appliance should be installed in the same closet as the dryer.
- Refer to the “Exhausting” section below for installation of exhausting work.
- The front of the closet must have two unobstructed air openings for a combined minimum total area of 72 sq.in. (465 sq.cm) with a minimum clearance of 3 in. (76mm) at the top and bottom. A slatted door with equivalent space clearance is acceptable.
- Minimum clearances between the dryer and adjacent walls or other surfaces are as:

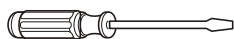
| | |
|-------------|----------------|
| Either side | 1 in / 2.5cm |
| Rear | 5 in / 12.7cm |
| Top | 11 in / 27.9cm |
| Front | 2 in / 5.1cm |

3.2 Installation

TOOLS needed in installation



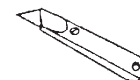
Pliers



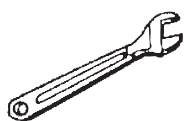
flat screwdriver



level



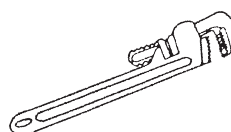
Cutting knife



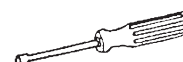
Wrench



Duct tape



Pipe wrench
(gas only)





Phillips screwdriver

Ducting Requirements

1. Use a 4-inch (10.2cm) diameter rigid aluminum or rigid galvanized steel duct.
2. Do not use a smaller duct.
3. Ducts larger than 4 inches (10.2cm) in diameter can result in increased accumulation of lint.
4. Lint should be removed regularly.
5. If a flexible metal duct must be used, use the type with a stiff sheet metal wall. Do not use a flexible duct with a thin foil wall. A serious blockage can result if the flexible metal duct is bent too sharply.
6. Never install any type of flexible duct in walls, ceilings, or other concealed spaces.
7. Keep the exhaust duct as straight and short as possible.
8. Secure joints with duct tape. Do not use screws.
9. Plastic flexible ducts can kink, sag, be punctured, reduce airflow, extend drying times, and affect the dryer operation.
10. Exhaust systems longer than recommended can extend drying times, affect machine operations, and collect lint.
11. The exhaust duct should end with an exhaust hood with a swing-out damper to prevent back

- drafts and entry of wildlife. Never use an exhaust hood with a magnetic damper.
12. The hood should have at least 12 inches (30.5cm) of clearance between the bottom of the hood and the ground or other obstruction. The hood opening should point down.
 13. Never install a screen over the exhaust outlet.
 14. To avoid lint buildup, do not exhaust the dryer directly into a window well. Do not exhaust under a house or porch.
 15. If the exhaust duct must run through an unheated area, the duct should be insulated and slope slightly down towards the exhaust hood to reduce condensation and lint buildup.
 16. Inspect and clean the interior of the exhaust system at least once a year. Unplug the power cord before cleaning.
 17. Check frequently to make sure the exhaust hood damper opens and closes freely.
 18. Check once per month, and clean at least once per year. Note: If your clothes are not getting dry, then check the ducting for obstructions.
 19. Do not exhaust the dryer into a wall, ceiling, crawl space, or concealed space of a building, gas vent, or any other common duct or chimney. This could create a fire hazard from the lint expelled by the dryer.
 20. Do not use non-metallic flexible duct.

| ELECTRIC AND GAS DRYER | | |
|------------------------|--|---|
| Weather Hood Type | | |
| | Recommended | Use only for short-run installation |
| |  4 inch. (10.2 cm) |  2.5 inch. (6.4 cm) |
| No. of 90° elbows | Rigid Metallic | Rigid Metallic |
| 0 | 90 ft. (27.4m) | 60 ft. (18.3m) |
| 1 | 60 ft. (18.3m) | 45 ft. (13.7m) |
| 2 | 45 ft. (13.7m) | 35 ft. (10.7m) |
| 3 | 35 ft. (10.7m) | 25 ft. (7.6m) |

If this new dryer is installed into an existing exhaust system you must make sure:

- The exhaust system meets all local, state, and national codes.
- That a flexible plastic duct is not used.
- To inspect and clean all lint buildup from inside the existing duct.
- The duct is not dented or crushed.
- The exhaust hood damper opens and closes freely.

The static pressure in any exhaust system must not exceed 0.83 inches of water column, or be less than 0. This can be measured with the dryer running with a manometer at the point where the exhaust duct connects to the dryer. A no-heat setting should be used. The dryer tumbler should be empty and the lint filter should be clean.

Please read the following instructions carefully before installing the dryer. These instructions should be kept for future reference.

- The dryer is not suitable for installation in a mobile home.
- Remove the door from all discarded appliances to avoid the danger of a child being trapped and suffocating.

Exhausting

The dryer shall not be exhausted into a chimney, a wall, a ceiling, an attic, a crawl space, or a concealed space of a building.

The dryer must be exhausted to the outside to reduce the risk of fire when installed in alcove or closet.

Exhausting the dryer to the outside will prevent large amounts of lint and moisture from being blown into the room.

NEVER USE A PLASTIC OR NON-METAL FLEXIBLE DUCT

If your existing ductwork is plastic, non-metal, or combustible, replace it with metal.

Use only a metal exhaust duct that is non-flammable to ensure containment of the exhaust air heat, and lint.

Refer to the "Ducting requirements" section on page 7 for the maximum duct length and number of bends.

- All dryers must be exhausted to the outside.
- Do not assemble the duct with screws or other fastening means that extend into the duct and catch lint.
- The exhaust duct should be 4 inches (102mm) in diameter.
- The total length of flexible metal duct shall not exceed 7.8 feet (2.4 meters).

For usage in United States:

Use only those foil-type flexible ducts, if any, specifically identified for use with the appliance by the manufacturer and that comply with the outline for Clothes Dryer Transition Ducts, Subject 2158A, shall be used.

For usage in Canada:

Use only those foil-type flexible ducts, if any, specifically identified for use with the appliance by the manufacturer.

For usage outside the U.S. and Canada:

Refer to the local codes.

Gas requirements

Use only natural or LP (liquid propane) gases.

THE INSTALLATION MUST CONFORM WITH LOCAL CODES, OR IN THE ABSENCE OF LOCAL CODES, WITH THE NATIONAL FUEL GAS CODE, ANSI Z223.1/NFPA 54, LATEST REVISION (FOR THE UNITED STATES), OR THE NATURAL GAS AND PROPANE INSTALLATION CODE, CSA B149.1, LATEST REVISION (FOR CANADA).

Gas dryers are equipped with a burner vent for use with natural gas. If you plan to use your dryer with LP (liquid propane) gas, it must be converted for safe and proper performance by a qualified service technician.

A 1/2" (1.27cm) gas supply line is recommended and must be reduced to connect to the 3/8" (1cm) gas line on your dryer. The National Fuel Gas Code requires that an accessible, approved manual gas shut-off valve be installed with 6" of your dryer.

Gas dryers installed in residential garages must be raised 18" (46cm) above the floor. Additionally, a 1/8" (0.3cm) N.P.T. (National Pipe Thread) plugged tapping, accessible for test gauge connection, must be installed immediately upstream of your dryer's gas supply connection. Your dryer must be disconnected from the gas supply pipe system during any pressure testing of the system.

This dryer must be connected to the gas supply piping with a listed flexible gas connector that complies with the standard for connectors for gas appliances, ANSI Z21.24 or CSA 6.10.

DO NOT reuse old flexible metal gas lines. Flexible gas lines must be design certified by the American Gas Association (CGA in Canada).

- Any pipe joint compound used must be resistant to the action of any liquefied petroleum gas.
- As a courtesy, most local gas utilities will inspect a gas appliance installation.

GAS IGNITION - Your dryer uses an automatic ignition system to ignite the burner. There is no constant burning pilot.

COMMONWEALTH OF MASSACHUSETTS INSTALLATION INSTRUCTIONS

Your dryer must be installed by a licensed plumber or gas fitter. A "T" handle manual gas valve must be installed in the gas supply line to your dryer.

If a flexible gas connector is used to install your dryer, the connector may not be longer than 3' (36", 91.5cm).

- Gas leaks may occur in your system, creating a dangerous situation.
- Gas leaks may not be detected by smell alone.
- Gas suppliers recommend that you purchase and install a UL-approved gas detector.
- Install and use it in accordance with the manufacturer's instructions.

Electric requirements

An individual branch (or separate) circuit serving only your dryer is recommended. **DO NOT USE AN EXTENSION CORD.**

Gas models - U.S. and Canada

A 120Volt, 60Hz AC approved electrical service, with a 15 ampere fuse or circuit breaker is required.

Electric models - U.S. only

Most dryers require a 120/240 volt, 60Hz AC approved electrical service. Some require 120/208 volt, 60Hz approved electrical service. The electric service requirements can be found on the data label located behind the door. A 30-ampere fuse or circuit breaker on both sides of the line is required.

- If a power cord is used, the cord should be plugged into a 30-ampere receptacle.
- The power cord is NOT provided with U.S. electric model dryers.

RISK OF ELECTRIC SHOCK:

When local codes allow, the electrical supply of the dryer may be connected by means of a new power supply cord kit, marked for use with a dryer, that is UL listed and rated at a minimum of 120/240 volts, 30-ampere with three No. 10 copper wire conductors terminated with closed loop

terminals, open-end spade lugs with turned up ends, or with tinned leads.

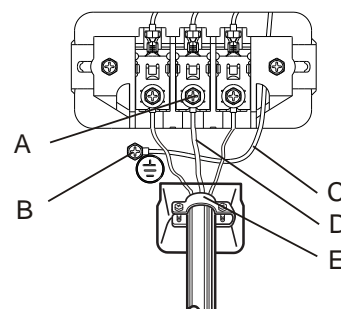
- Do not reuse a power supply cord from an old dryer. The power cord electric supply wiring must be retained at the dryer cabinet with a suitable UL-listed strain relief.
- Grounding through the neutral conductor is prohibited for (1) new branch-circuit installations, (2) mobile homes, (3) recreational vehicles, and (4) areas where local codes prohibit grounding through the neutral conductor. (Use a 4-prong plug for 4 wire receptacles, NEMA type 14-30R.)

3-Wire system connections

1. Remove the center terminal block screw.
2. Connect the neutral wire (white or center wire) of the power cord to the center. Cross the screw through the ring of the power cord terminal and tighten the screw.
3. Connect the other wires to the outer terminal block screws. Be sure to cross the screw through the terminal ring and tighten the screw.
4. Remove the screws for the power cord fixing base. Cross the power cord to the base, then install back and tighten the screws. Be sure to fix the power cord tightly.
5. Insert the tab of the terminal block cover into your dryer's rear panel slot.
6. Secure the cover with a hold-down screw.

3-wire system instructions:

- A. Center terminal block screw
- B. external ground connector
- C. Neutral grounding wire (White)
- D. Neutral wire (white or center wire)
- E. 3/4" (1.9cm) UL-listed strain relief



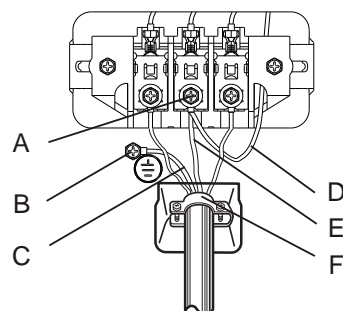
4-Wire system connections

1. Remove the center terminal block screw.
2. Connect the ground wire (green or unwrapped) of the power cord to the external ground conductor screw.
3. Connect the neutral wire (white or center wire) of the power cord and the appliance ground wire (white) under the center screw of the terminal block. Cross the screw through the ring of wires' terminal and tighten the screw.
4. Connect the other wires to the outer terminal block screws. Be sure to cross the screw through the terminal ring and tighten the screw.
5. Remove the screws for the power cord fixing base. Cross the power cord to the base, then install back and tighten the screws. Be sure to fix the power cord tightly.
6. Insert the tab of the terminal block cover into your dryer's rear panel slot.
7. Secure the cover with a hold-down screw.

4-wire system instructions:

- A. Center terminal block screw
- B. External ground connector

- C. Green or bare copper wire of the power cord
- D. Neutral grounding wire (White)
- E. Neutral wire (white or center wire)
- F. 3/4" (1.9cm) UL-listed strain relief



Gas models

- Your dryer has a cord with an equipment-grounding conductor and a grounding plug.
- The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- Do not modify the plug provided with your dryer - if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.
- Never connect the ground wire to the plastic plumbing lines, gas lines, or hot water pipes.

Electric models

- For products sold in the U.S., your dryer has an optional cord with an equipment-grounding conductor and a grounding plug, which is sold separately.
For products sold in Canada, your dryer has a cord with an equipment-grounding conductor and a grounding plug.
- The plug must be plugged into an appropriate outlet that is properly installed and grounded in accordance with all local codes and ordinances.
- Do not modify the plug provided with your dryer - if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.
- If a power cord is not used and the electric dryer is to be permanently wired, the dryer must be connected to a permanently grounded metal wiring system, or an equipment grounding conductor must be run with the circuit conductors and connected to the equipment grounding terminal or lead on the dryer.

Electric models - Canada only

- A 120/240 volt, 60Hz AC approved electrical service fused through a 30-ampere fuse or circuit breaker on both sides of the line is required.
- All Canadian models are shipped with the power cord attached. The power cord should be plugged into a 30-ampere receptacle.
In Canada, you may not convert a dryer to 208 volts.

The wiring diagram is located on the back board of the unit.

- The improper connection of the equipment grounding conductor can result in the risk of electric shock. Check with a qualified electrician or serviceman if you are in doubt as to whether your dryer is properly grounded. Do not modify the plug provided with your dryer - if it doesn't fit the outlet, have a proper outlet installed by a qualified electrician.
- To prevent unnecessary risk of fire, electrical shock, or personal injury, all wiring and grounding must be done in accordance with local codes, or in the absence of local codes, with the National Electrical Code, ANSI/NFPA No. 70 - Latest Revision (for the U.S.) or the Canadian Electrical Code CSA C22.1 - Latest Revisions and local codes and ordinances. It is your responsibility to provide adequate electrical services for your dryer.

- All gas installations must be done in accordance with the National Fuel Code ANSI/Z2231 - Latest Revision (for the U.S.) or CAN/CGA - B149 Installation Codes - Latest Revision (for Canada) and local codes and ordinances.

Installation Steps

For the proper installation, we recommend that you hire a qualified installer.

1. Move your dryer to an appropriate location for the installation. Consider installing the dryer and washer side-by-side, to allow access to the gas, electrical, and exhaust connections. Place two of the carton cushion-tops on the floor. Tip your dryer on its side so it lies across both cushion-tops.

2. Set your dryer back in an upright position.

3. To ensure that the dryer provides the optimal drying performance, it must be leveled. To minimize vibration, noise, and unwanted movement, the floor must be a perfectly level, solid surface.

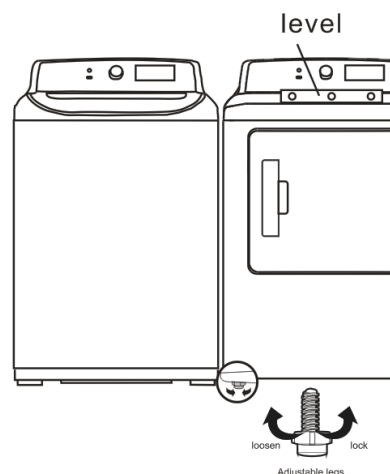
- Adjust the leveling feet only as much as necessary to level the dryer. Extending the leveling feet more than necessary can cause the dryer to vibrate.

4. Review the “Exhausting” section on page 10 before installing the exhaust system. Install the ductwork from your dryer to the exhaust hood. The crimped end of the duct sections must point away from your dryer.

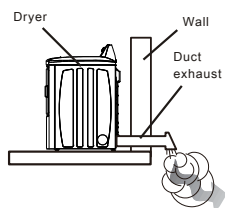
DO NOT use sheet metal screws when assembling the ducting. These joints should be taped. Never use plastic flexible exhaust material.

Tip for tight installations: install a section of the exhaust system onto your dryer before putting it in place.

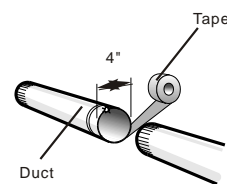
Use duct tape to secure this section to your dryer, but do not cover the ventilation slots at the back of the unit in dryer cabinet.



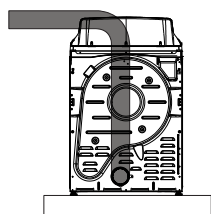
Make sure your dryer is installed properly so it exhausts air easily.



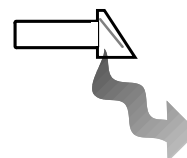
Use a 4 inch. (10.2cm) diameter rigid metal duct. Tape all joints, including at the dryer. Never use lint-trapping screws.



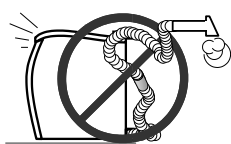
Keep ducts as straight as possible.



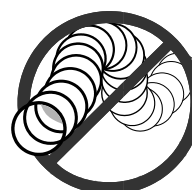
Clean all old ducts before installing your new dryer. Be sure the vent flap opens and closes freely. Inspect and clean the exhaust system annually.



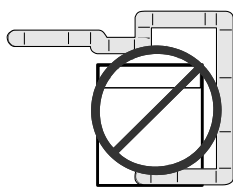
DO NOT restrict your dryer with a poor exhaust system.



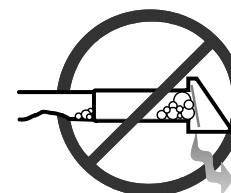
DO NOT use a plastic, thin foil, or non-metal flexible duct.



DO NOT use unnecessarily long ducts that have many elbows.



DO NOT use dented or clogged ducts and vent.



5. Review the "Electric requirements".

BEFORE OPERATING OR TESTING, follow the grounding instructions in the "Grounding".

U.S. Models:

Risk Of Electric Shock - All U.S. models are produced for a 3-WIRE SYSTEM CONNECTION.

The dryer frame is grounded to the neutral conductor at the terminal block.

A 4-WIRE SYSTEM CONNECTION is required for new or remodeled construction, mobile homes, or if local codes do not permit grounding through neutral conductor. If the 4-wire system is used, the dryer frame cannot be grounded to the neutral conductor at the terminal block. Refer to the "**Electric requirements**" section on 3-WIRE or 4-WIRE SYSTEM CONNECTIONS.

6. [GAS MODELS ONLY]

Review the "Gas requirements" section on page 11. Remove the pipe thread protective cap. Apply a pipe joint compound or about 1 ½" wraps of teflon tape over all threaded connections.

- The pipe joint compound must be resistant to the actions of any liquefied petroleum gas. Connect the gas supply to your dryer. An additional fitting is required to connect the 3/4" (1.9cm) female thread end of a flexible connector to the 3/8" (1cm) male threaded end on the dryer. Securely tighten the gas line fitting over the threads.

Turn on the gas supply.

Check all gas connections for leaks using a soap solution.

If bubbles appear, tighten the connections and recheck. DO NOT use an open flame to check for gas leaks.

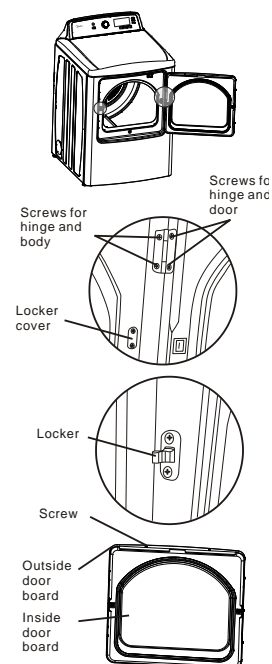
7. Using a level, check your dryer and make the necessary adjustments to the leveling legs.
8. Make sure all gas connections (Gas Models only), exhaust and electrical connections are complete. Plug in your dryer.
9. [GAS MODELS ONLY]
The burner may not ignite initially due to air in the gas line. Allowing your dryer to operate on a heat setting will purge the line. If the gas does not ignite within 5 minutes, turn your dryer off and wait 5 minutes. Be sure the gas supply to your dryer has been turned on. In order to confirm the gas ignition, check the exhaust for heat.
10. Final Installation Check
 - Make sure the dryer is plugged into an electrical outlet and is properly grounded.
 - The exhaust ductwork is hooked up and the joints are taped.
 - A plastic flexible duct is NOT used.
 - Use rigid or stiff-walled flexible metal vent material.
 - The dryer is leveled and is sitting firmly on the floor.
 - Gas models - the gas is turned on with no gas leakage.
 - Start your dryer to confirm that it runs, heats, and shuts off.

Door Reversal

Your dryer is built to open from left to right. You can reverse the direction (right to left) by following steps.

1. Unplug the power cord.
2. Remove the four screws connecting the body and hinges.
Take care the door when removing and installing the screws in case it drops and hurts you.
3. Put the door aside. Remove the screws for locker cover on the right body and screws for the locker on the left body.
4. Install the locker onto the right body with screws. Install the locker cover onto the left body.
5. Remove all screws around the door.
6. Disassemble the inside door board from the outside door board.
7. Turn the inside door board 180o then install it with the outside door board.
8. Fix the screws back onto the door sides except the hinges.
9. Install the hinges onto the body left with screws.
10. Install the door onto the unit body with handles right.

Take care the hinges and screws for door and body. There are two different screws. Screws with flat head are for hinges and door.

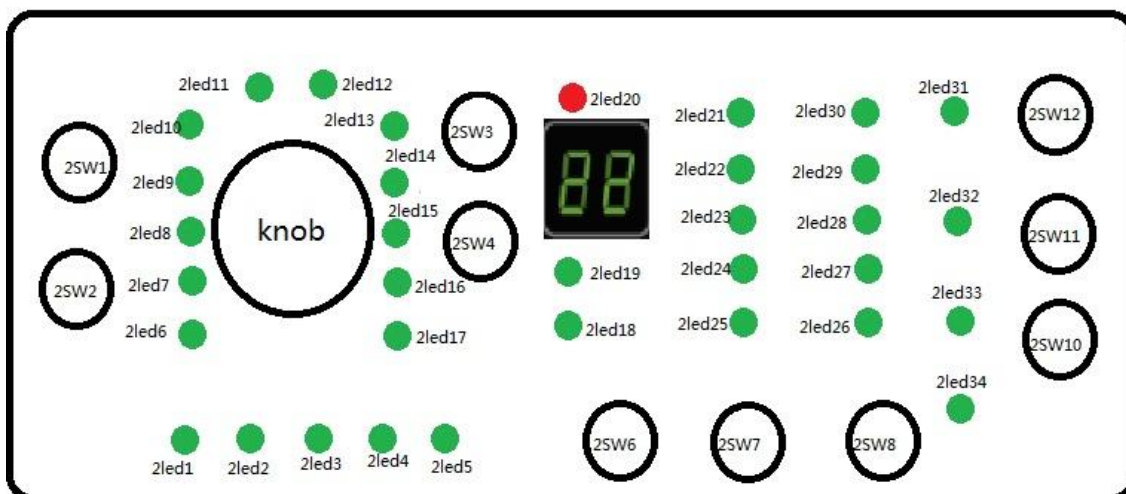
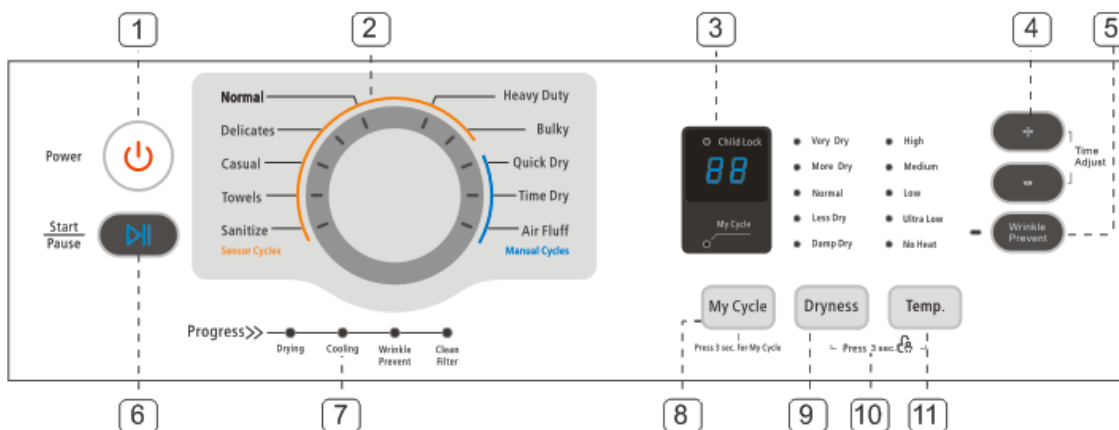


4. TROUBLE SHOOTING

4.1 Test mode by Control

Make sure the door are closed, press [Time Adjust] and [Buzzer] at the same time within 3s after power on, then unit will go into test mode, scree will show St.

4.2 Test modes



1. Press [Time Adjust] again, screen will show 01, after 0.5s, the screen will show software version;

2. After 3s, screen shows 02, turn the knob to right or left to check it. Every time you turn knob, L1(2LED6~2LED17) state light will change accordingly, light on or off.

3. Press [Time Adjust] again, screen will show 03, unit will go into key checking mode:

- Press [My cycle 1], screen will show 11, L2(2LED1~2LED5) light up;
- Press [My cycle 2], screen will show 22, L3(2LED18~2LED20) light up;
- Press [Delay], screen will show 33, L3(2LED21~2LED25) light up;
- Press [Dryness], screen will show 44, L4(2LED26~2LED30) light up;

- Press [Temp], screen will show 55, L5(2LED32~2LED33) light up;
- Press [Buzzer], screen will show 66;
- Press [Wrinkle Release], screen will show 77;
- Press [START/PAUSE], screen will show 88;
- Press [POWER], screen will show 99.

4. Press [Time Adjust] again, screen will show 04, NTC test. If NTC error, error code “E5” will show up, or the screen will show current temp.

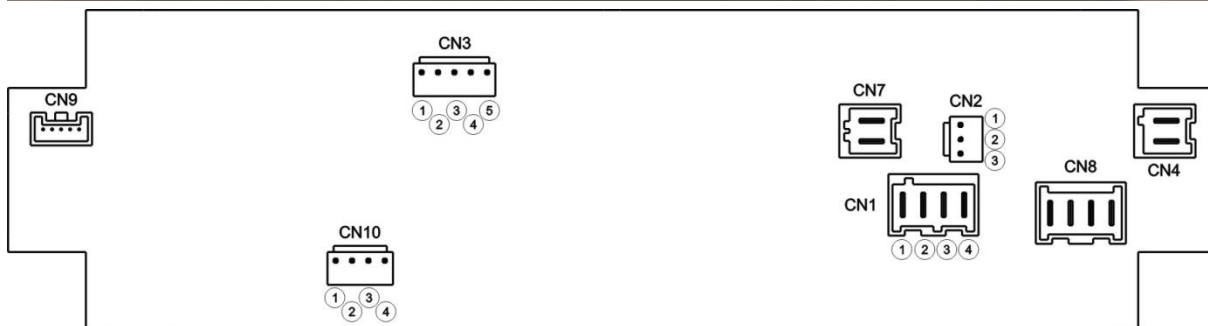
5. Press [Time Adjust] again, screen will show 05, and unit will operate normally.

6. Press [Time Adjust] again, screen will show Ed, and test modes end.

4.3 Error codes

| Fault Code | Category | Description | Debounce | Class | When Checked | Criteria | Action After Fault Debounced |
|------------|----------|---------------------------------|----------|-------|--------------|--|--|
| E4 | Sensor | Humidity Error | | W | Run | Control will run whole cycle with cycle default setting, and don't need dry the cloth with humidity sensor, just use timed drying. | Will run current cycle without fault, log this error code at the end of cycle if EEPROM is available or display it at the end of cycle |
| E5 | Sensor | Outlet Temperature Sensor Error | 2 sec | C | Run | A/D Reading under 10(open) or over1000 (short) | 1) heater off 2) Motor off 3) Go to Fault state |
| C9 | | Communication error | 110sec | C | Run | | 1) heater off 2) Motor off 3) Go to Fault state |

4.4 Wiring diagram and terminals



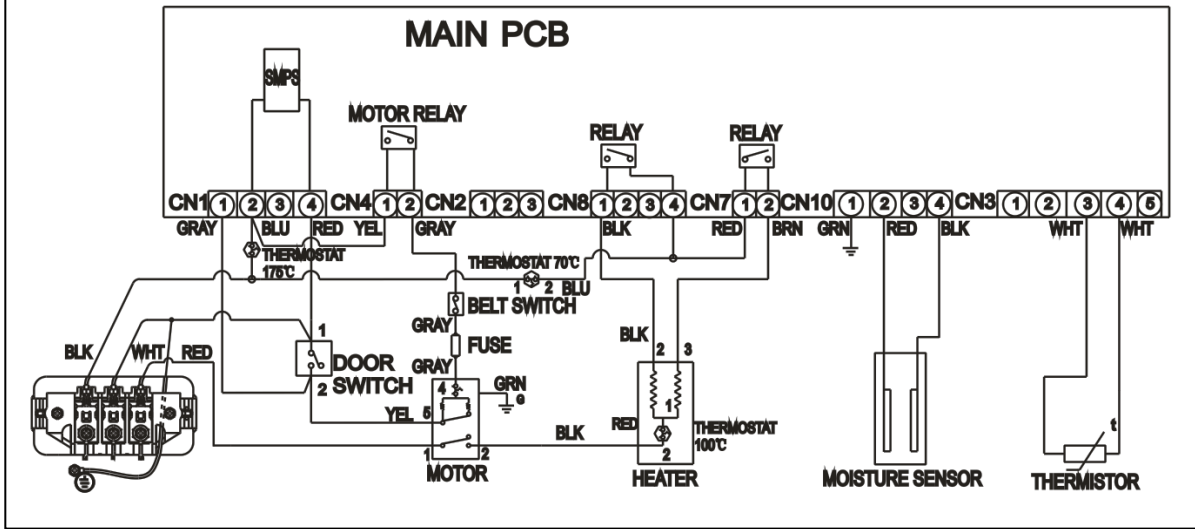
ELECTRIC MODEL

| | | |
|------|---|-----------------------|
| CN1 | ① | DOOR SWITCH |
| | ② | L1 |
| | ③ | / |
| | ④ | N |
| CN2 | ① | LAMP |
| | ② | / |
| | ③ | N |
| CN3 | ① | TEMP_OUT |
| | ② | TEMP_OUT |
| | ③ | TEMP_IN |
| | ④ | TEMP_IN |
| | ⑤ | / |
| CN4 | | MOTOR |
| CN7 | | HEATER 1 |
| CN8 | | HEATER 2 |
| CN9 | | DISPLAY COMMUNICATION |
| CN10 | ① | HUM |
| | ② | GND |
| | ③ | / |
| | ④ | HUM |

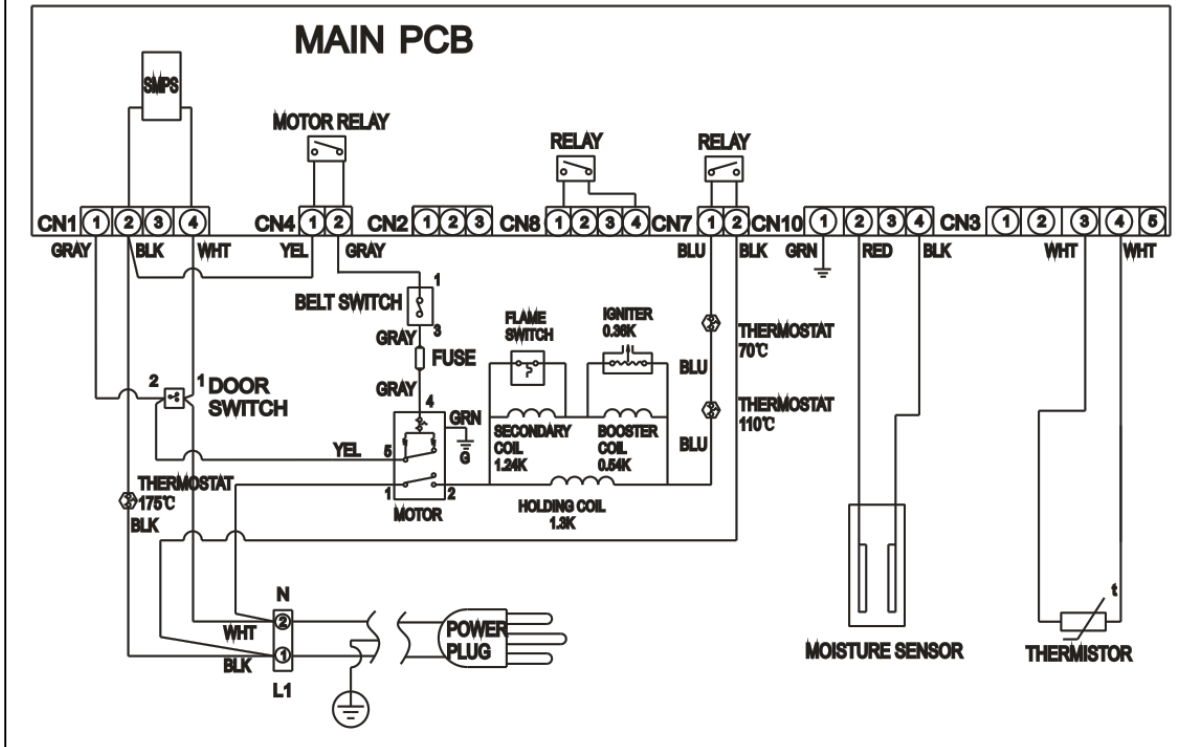
GAS MODEL

| | | |
|------|---|-----------------------|
| CN1 | ① | DOOR SWITCH |
| | ② | L |
| | ③ | / |
| | ④ | N |
| CN2 | ① | LAMP |
| | ② | / |
| | ③ | N |
| CN3 | ① | TEMP_OUT |
| | ② | TEMP_OUT |
| | ③ | TEMP_IN |
| | ④ | TEMP_IN |
| | ⑤ | / |
| CN4 | | MOTOR |
| CN7 | | GAS HEATER |
| CN8 | | / |
| CN9 | | DISPLAY COMMUNICATION |
| CN10 | ① | HUM |
| | ② | GND |
| | ③ | / |
| | ④ | HUM |

ELECTRIC MODEL:



GAS MODEL:

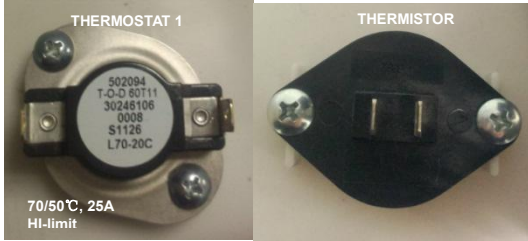


4.5 Trouble shooting

| No | Problem | What To Do |
|----|---|---|
| 1 | Will not start or run | <ul style="list-style-type: none"> • All wires are hooked up to their corresponding terminals. • Dryer is plugged in. • Blown fuse or circuit breaker. • Door switch functional...door closed. • Star/Pause button rotary selector dial functional. • Control Board operational. • Belt off or broken and Belt Cut-off Switch operates. • Drive motor functional. • Check motor winding resistance: 2.88 ohms between pin #3 and 4, 3.5 ohms between pin #4 and 5. |
| 2 | Motor runs/ tumbler will not turn | <ul style="list-style-type: none"> • Belt off or broken/ damaged. • Idler tension spring too weak or stretched. • Idler pulley jammed or stuck. |
| 3 | Runs a few minutes and then stops | <ul style="list-style-type: none"> • Lint buildup around drive motor. • Low voltage present. • Blower impeller blocked in blower housing. • Drive motor – start switch contacts stuck closed. |
| 4 | Blows fuses or trips circuit breaker | <ul style="list-style-type: none"> • Is the belt connected well? • Is the winding of the motor continuous? (Rotor winding, stator winding, generator) • Is the motor protector normal? • If above points are not found, the PCB assembly is out of order. Replace it. |
| 5 | Blows fuses or trips circuit breaker (Gas model) | <ul style="list-style-type: none"> • During ignition the dryer will draw X amps. With the burner ON, the dryer will draw X amps. If the dryer is drawing amperages above this, then the house wiring, fuse box or circuit breaker is suspected to be at fault. • Igniter harness loose and shorted to base. • Incorrect wiring or wire shorted to ground. • Drive motor winding shorting to ground. |
| 6 | Will not heat (motor runs) | <p>Open heating element</p> <ul style="list-style-type: none"> • Hi-Limit trips easily or is open. • Regulating thermostat trips easily or is open. • Membrane switch open. • Check thermistor. |
| 7 | Will not dry gas Model poor gas Ignition | <p>When the dryer is operated on a heat setting, the igniter should be energized and burner shall fire within 45 seconds at 120 VAC. The failure of a component in this system will usually be indicated by one of three symptoms.</p> |
| 8 | The igniter does not glow | <p>If the igniter does not heat up, remove power and using an ohmmeter, check the following:</p> |

| | | |
|----|---|---|
| | | <ul style="list-style-type: none"> ● Open flame switch. ● Open igniter. ● Shorted booster coil. ● Open wiring. ● Bad motor switch (Neutral supply). ● No power from control (L1 supply). |
| 9 | Igniter glows – No gas ignition | <p>If the igniter heats up but the main burner flame is not ignited, remove power and using an ohmmeter, check the following:</p> <ul style="list-style-type: none"> ● Open secondary coil. ● Open holding coil. ● Open wire harness. ● Stuck flame sensor (Stuck closed). |
| 10 | The gas is ignited but the flame goes out | <p>If a normal ignition takes place and after a short while the flame goes out, check for the following:</p> <ul style="list-style-type: none"> ● Flame sensor contacts opening prematurely. ● Weak gas valve coil may open when stressed by higher Temps. ● Weak Hi-Limit ● Poor venting ● Bad drum seals |
| 11 | Improper drying clothes wrinkled Rough texture long dry time | <ul style="list-style-type: none"> ● Lint filter is not clean. ● Restriction in exhaust. ● Outside exhaust hood damper door stuck closed. ● Exhaust too long, too many elbows, flex ductwork installed. ● Poor intake air available for the dryer. ● Incorrect tumbler speed. Tumbler belt slipping. ● Blower impeller bound; check for foreign material in blower area. ● Customer overloading dryer. ● Check clothing labels for fabric content and cycle selected. ● Clothes too wet due to insufficient spin out by washer. |
| 12 | Noisy and / Or Vibration | <ul style="list-style-type: none"> ● Thumping Check for loose tumbler baffle, rear tumbler roller(s) worn or misaligned, out-of-round tumbler or high weld seam on tumbler. ● Ticking Check for loose wire harness or object caught in blower wheel area. ● Scraping Check for front or rear bulkhead felt seal out of position or worn tumbler front bearings. ● Roaring Check for blower wheel rubbing on blower housing or bad motor bearings. ● Popping or squealing sound. Check for a sticky or frayed belt. |

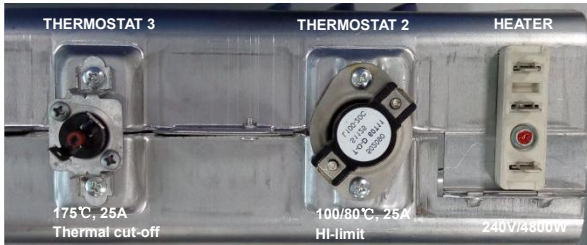
COMPONENT TESTING PROCEDURES



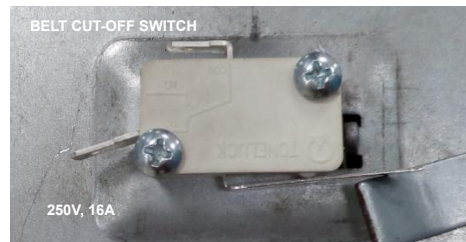
- Thermostat 1 resistance <math>< 1\Omega</math> **(Electronic & GAS)**
 - If resistance is infinity, replace Thermostat 1.
- Thermistor resistance
 - 40K Ω @30°C
 - 50K Ω @25°C
 - 99K Ω @10°C
- If resistance is infinity, replace Thermistor.



- Thermal fuse resistance <math>< 1\Omega</math> **(Electronic & GAS)**
 - If resistance is infinity, replace Thermal fuse.



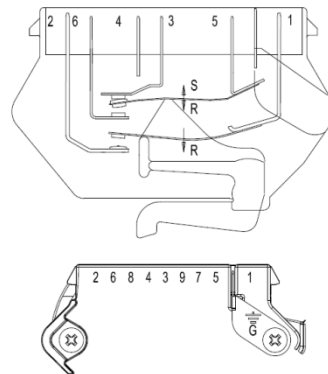
- Thermostat 3 resistance <math>< 1\Omega</math> **(Electronic models only)**
 - If resistance is infinity, replace Thermostat 3.
- Thermostat 2 resistance <math>< 1\Omega</math>
 - If resistance is infinity, replace Thermostat 2.
- Heater resistance 20 Ω
 - If resistance is infinity, replace Heater.



- Belt Cut-off Switch **(Electronic & GAS)**
 - Lever open: Resistance value <math>< 1\Omega</math>
 - Lever push: Resistance value: $\infty\Omega$



- Measure resistance of the following terminal **(Electronic & GAS)**
 - Door switch: open
 - Terminal: "COM" – "NO" (1-2): $\infty\Omega$
 - Door switch push: On
 - Terminal: "COM" – "NO" (1-2): <math>< 1\Omega</math>



2.88 Ω between Pin# 3 and 4
3.5 Ω between Pin# 4 and 5

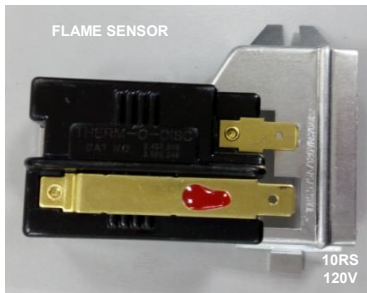
- Centrifugal Switch (Motor) **(Electronic & GAS)**

Contacts

| Function | 1M | 2M | 3M | 5M | 6M |
|----------|----|----|----|----|----|
| Start | | | — | | |
| Run | — | | | — | |

●=Contact closed

GAS MODELS ONLY



- Flame sensor resistance $< 1\Omega$
- If resistance is infinity, replace Flame sensor.



- Igniter resistance 40~400 Ω
- If resistance is infinity, replace Igniter.



- Valve1-2: Resistance 1.2K Ω
- Valve1-3: Resistance 0.5K Ω
- Valve4-5: Resistance 1.2K Ω
- If resistance is infinity, replace Valve.



- Thermostat 1 resistance $< 1\Omega$
- If resistance is infinity, replace Thermostat 1.



- Thermostat 2 resistance $< 1\Omega$
- If resistance is infinity, replace Thermostat 2.

5. HOW TO DISASSEMBLY THE UNIT



Caution

Disconnect the electrical power.

Turn off the gas supply.

1. Remove the control panel

1.1 Remove the screws that is used to fix the control panel with a screwdriver;

1.2 Remove the screws on the cover and the PCB kit;

1.3 Pull out the terminals;

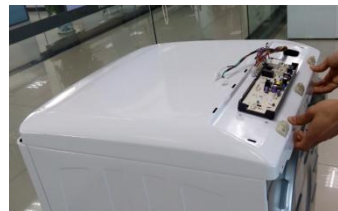
1.4 Take down the PCB kit;



2. Remove the top cover

2.1 Remove three screws behind the top cover;

2.2 Push off the top cover



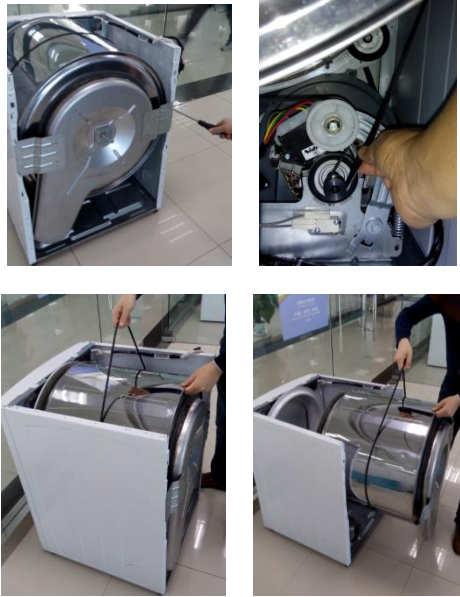


3. Take down the back air outlet

3.1 Remove the screw that is used to fix the back air outlet;

3.2 Pull out the rear vent pipe;



| | |
|---|--|
| <p>4. Remove the back cover</p> <p>4.1 Remove the screws that is used to fix power line;</p> <p>4.2 Pull out the terminals;</p> <p>4.3 Remove the screws on the back cover;</p> <p>4.4 Take down the back cover;</p> |  |
| <p>4. Remove the back cover (Gas model only)</p> <p>4.1 Remove the screws that is used to fix power line;</p> <p>4.2 Pull out the terminals;</p> <p>4.3 Remove the screws on the back cover;</p> <p>4.4 Take down the back cover;</p> |  |
| <p>5. Take down the tumble assy</p> <p>5.1 Remove the screws;</p> <p>5.2 Take down the belt from the Motor;</p> <p>5.4 Hold the belt and take down the tumble assy;</p> |  |

6. Remove the heater assy
6.1 Pull out all the terminals;
6.2 Remove the screw that is used to fix the heater assy;
6.3 Take down the heater assy;
6.4 Remove the thermostat;



6. Remove the burner assy (Gas model only)
6.1 Pull out all the terminals;
6.2 Remove the 4 screws fixing the burner assy;

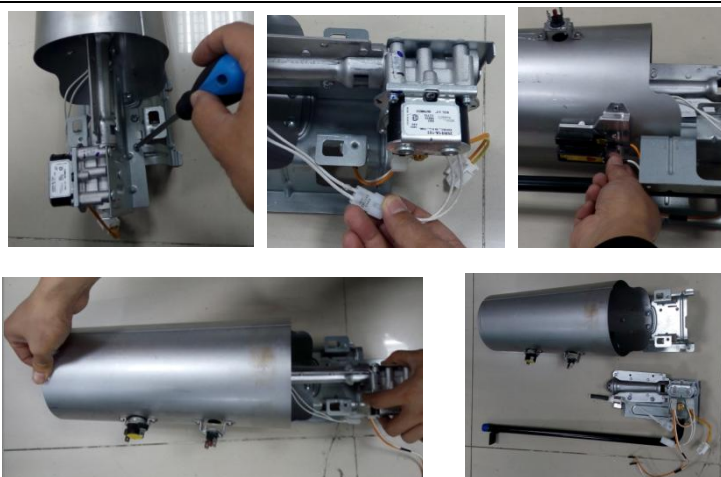


Install the conversion kit:
This kit is acceptable for: MDD160-VG012/F0110E-US13/ FFRG4120**
This kit comprises one nozzle(Orifice Size : 1.2mm) and one valve cover.
This kit is used for LP GAS (Propane) .

7(a). Change the thermostats (Gas model only)



7(b). Disassemble the burner (Gas model only)
 7(b).1 Remove the screws fixing the bracket;
 7(b).2 Remove all terminals;
 7(b).3 Pull the burner and the gas valve assy backwards, then lift it up. Take care the ignitor.

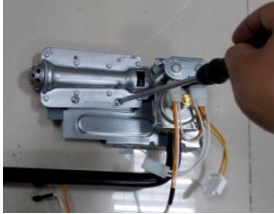
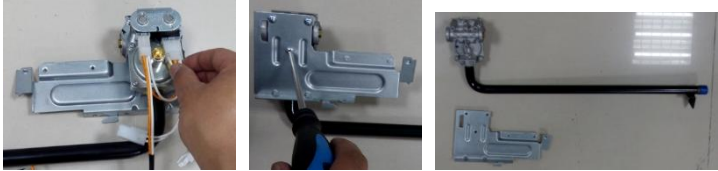
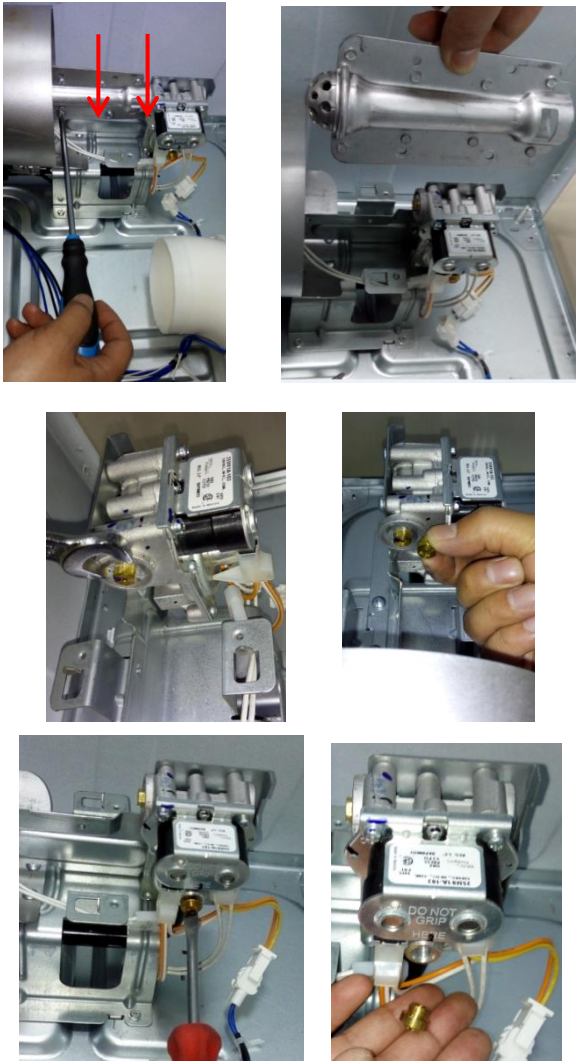


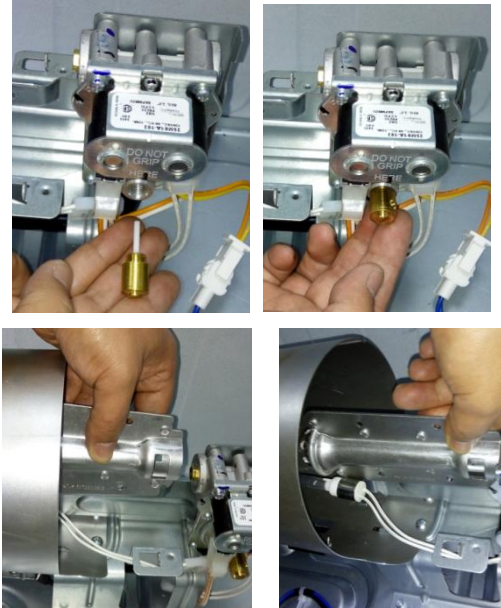
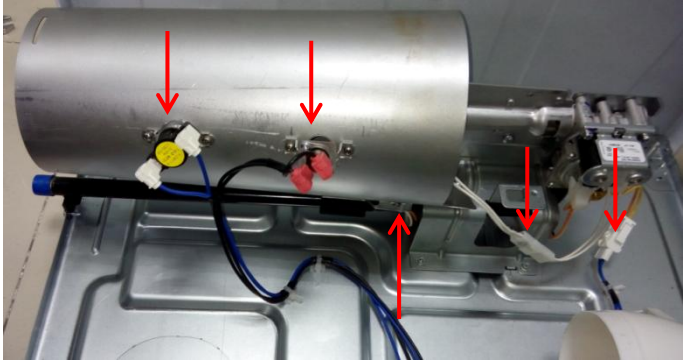



7(c). Change the flame switch (Gas model only)





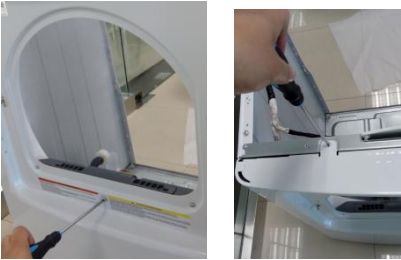




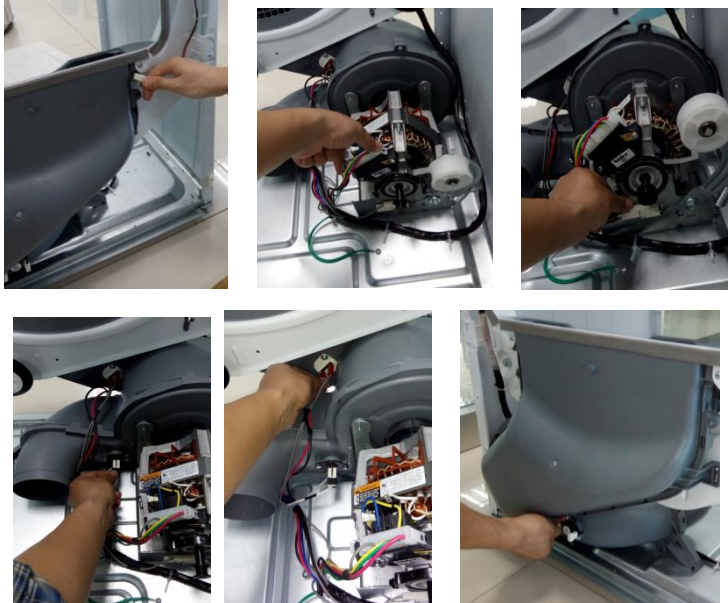

7(d). Change the ignitor (Gas model only)







| | |
|---|---|
| <p>7(e). Change the burner (Gas model only)</p> |  |
| <p>7(f). Change the gas valve (Gas model only)</p> |  |
| <p>7(g). Change the nozzle for LP (Gas model only) 7(g).1 Remove the 2 screws fixing the burner 7(g).2 Remove the burner 7(g).3 Remove the nozzle with spanner 3/8", torque in range from 25 to 45 in.lbs 7(g).4 Replace the nozzle for LP 7(g).5 Remove the valve cover from the gas valve 7(g).6 Replace the valve bar 7(g).7 Reinstall the burner. Take care the position between the burner and ignitor.</p> |  |

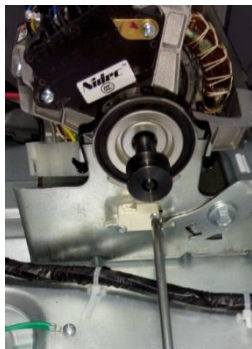
| | |
|---|--|
| |  |
| <p>7(h). Take care all terminals. (Gas model only)</p> |  |
| <p>8. Remove the Door assy 8.1 Remove the screws on the Door Hinge and Take down the Door assy;</p> |  |
| <p>9. Remove the Door Hinge</p> |  |
| <p>10. Remove the Door seal</p> |  |

| | |
|--|--|
| <p>11. Deleave the Door assy 11.1 Remove all 12 screws around the door. 11.2 Depart the door front and back.</p> |  |
| <p>12. Remove the handle Take care the slots fixing the handle.</p> |  |
| <p>13. Remove the door lock. Take care the slots.</p> |  |
| <p>14. Remove the Door Hook</p> |  |
| <p>15. Remove the Front Cover 15.1 Remove the screws that is used to fix the Front Cover; 15.2 Take down the Front Cover; 15.3 Pull out the terminals</p> |  |

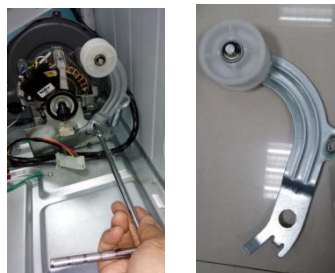
| | |
|--|--|
| <p>connecting to the Front Cover;</p> |  |
| <p>16. Take down the Lint Filter</p> |  |
| <p>17. Pull out the terminals as shown on the fig.</p> |  |
| <p>18. Remove the screws as shown on the fig.</p> |  |

| | |
|---|--|
| <p>19. Remove the air flow channel assy</p> |  |
| <p>20. Remove the temperature fuse.</p> |  |
| <p>21. Remove the temperature sensor</p> |  |
| <p>22. Remove the temperature switch</p> |  |

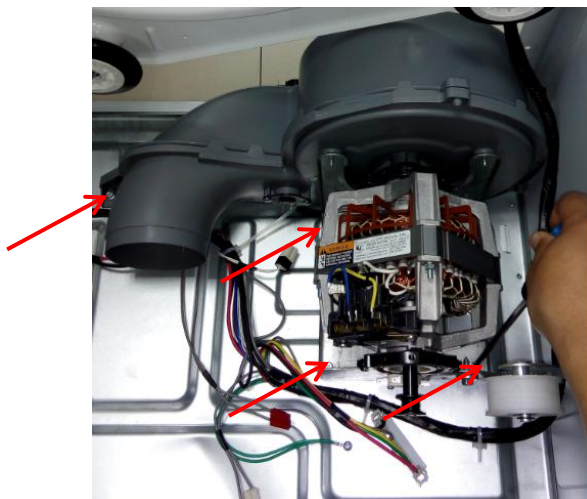
23. Remove the belt switch.



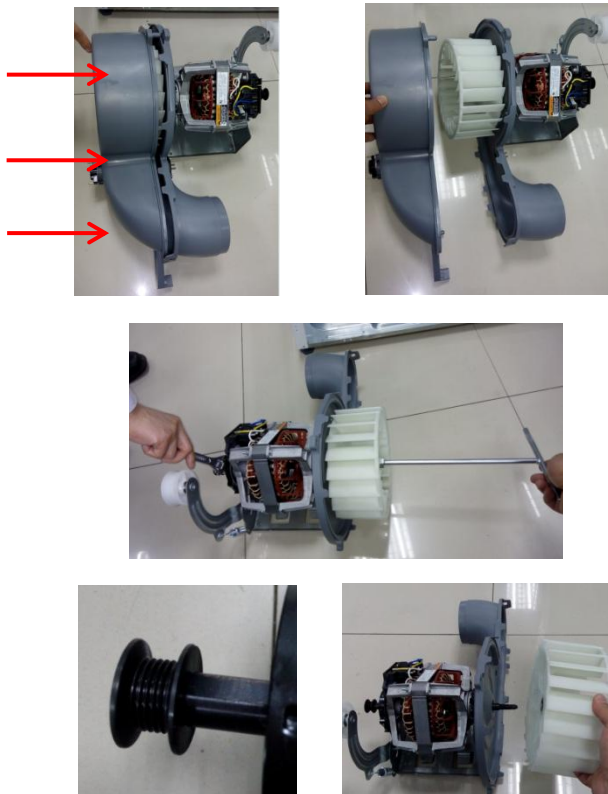
24. Remove the idle wheel.



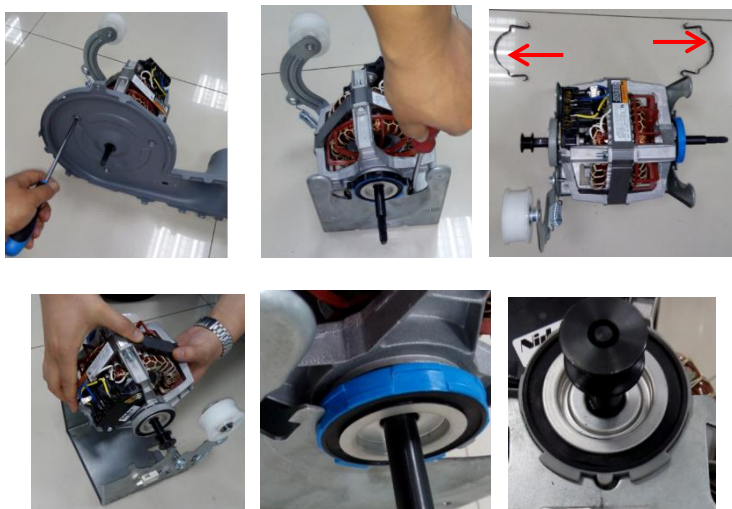
25. Remove the motor and fan assy.



26. Remove the fan
 26.1 Disconnect all hooks fixing the fan cover.
 26.2 Remove the nut fixing the fan.



27. Remove the motor.

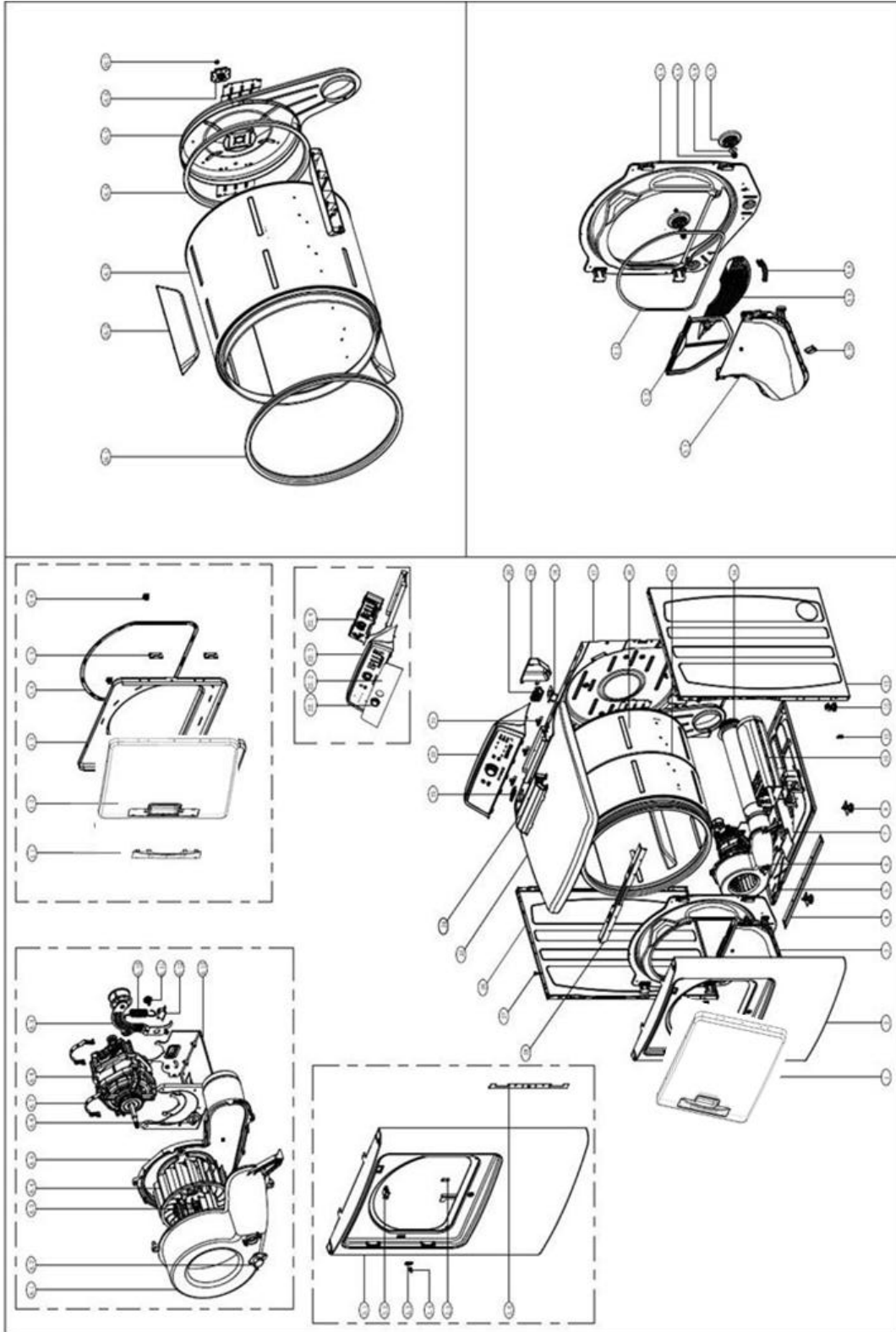


27. Remove the wheels supporting the drum.



6. EXPLODED VIEW

ELECTRIC MODEL



7. SPARE PARTS

ELECTRIC MODEL

| No. | Part Name | Quantity |
|------|---------------------------------------|----------|
| 1.1 | Door Handle | 1.0 |
| 1.2 | Door Cover | 1.0 |
| 1.3 | Door Cover Back | 1.0 |
| 1.4 | Door Gasket | 1.0 |
| 1.5 | Door Hinge Assembly | 2.0 |
| 1.6 | Fixed Seat | 2.0 |
| 2.1 | Front Panel | 1.0 |
| 2.2 | Cover Switch | 1.0 |
| 2.3 | Front Panel Cover (2) | 1.0 |
| 2.4 | Door Pin | 1.0 |
| 2.5 | Front Panel Cover (1) | 1.0 |
| 2.6 | Fireproofing Plate | 2.0 |
| 3.1 | Front Air Flue Assembly | 1.0 |
| 3.2 | Lint Filter Assembly | 1.0 |
| 3.3 | Sponge | 1.0 |
| 3.4 | Front Support Assembly | 1.0 |
| 3.5 | Nut | 2.0 |
| 3.6 | Flat Gasket | 2.0 |
| 3.7 | Wheel Assembly | 2.0 |
| 3.8 | Humidity Sensor Cover | 2.0 |
| 3.9 | Filter Lint Cover | 1.0 |
| 3.10 | Fuse Assembly | 1.0 |
| 4 | Adjustable Foot Assembly | 2.0 |
| 5 | Base Subassembly | 1.0 |
| 6.1 | Volute | 1.0 |
| 6.2 | Thermostate | 1.0 |
| 6.3 | Nut | 1.0 |
| 6.4 | Impeller Assembly | 1.0 |
| 6.5 | Volute Cover | 1.0 |
| 6.6 | Temperature Sensor | 1.0 |
| 6.7 | Clip Spring | 2.0 |
| 6.8 | Single phase asynchronous motor | 1.0 |
| 6.9 | Support For Tensioner Pulley Assembly | 1.0 |
| 6.10 | Spring | 1.0 |
| 6.11 | Screw | 1.0 |
| 6.12 | Safety Switch | 1.0 |
| 6.13 | Motor Support | 1.0 |



| | | |
|------|-----------------------------|-----|
| 7 | Heater Support | 1.0 |
| 8 | Heater | 1.0 |
| 9 | Front Panel Pin | 2.0 |
| 10 | Adjustable Foot Assembly | 2.0 |
| 11 | Side Plate | 1.0 |
| 12 | Rear Vent Pipe Assembly | 1.0 |
| 13 | Belt | 1.0 |
| 14.1 | Felt | 1.0 |
| 14.2 | Basket Assembly | 1.0 |
| 14.3 | Felt | 1.0 |
| 14.4 | Heating Wind Cover Assembly | 1.0 |
| 14.5 | Bearing House Assembly | 1.0 |
| 14.6 | Nut | 1.0 |
| 15 | Cabinet Cover Back | 1.0 |
| 16 | Support | 1.0 |
| 17 | Power Cord Cover | 1.0 |
| 18 | Internal Wire Assembly | 1.0 |
| 19 | Panel Installed Base | 3.0 |
| 20.1 | Knob Assembly | 1.0 |
| 20.2 | Control Panel Sticker | 1.0 |
| 20.3 | Control Panel | 1.0 |
| 20.4 | PCB | 1.0 |
| 21 | Line Speed Hole Cover | 1.0 |
| 22 | Controller Board Cover | 1.0 |
| 23 | Top Cover Plate | 1.0 |
| 24 | Side Plate | 1.0 |
| 25 | Screw | 2.0 |
| 26 | Front Top Rail | 1.0 |

GAS MODEL

| No. | Part Name | Quantity |
|------------|---------------------------------------|-----------------|
| 1.1 | Door Handle | 1.0 |
| 1.2 | Door Cover | 1.0 |
| 1.3 | Door Cover Back | 1.0 |
| 1.4 | Door Gasket | 1.0 |
| 1.5 | Door Hinge Assembly | 2.0 |
| 1.6 | Fixed Seat | 2.0 |
| 2.1 | Front Panel | 1.0 |
| 2.2 | Cover Switch | 1.0 |
| 2.3 | Front Panel Cover (2) | 1.0 |
| 2.4 | Door Pin | 1.0 |
| 2.5 | Front Panel Cover (1) | 1.0 |
| 2.6 | Fireproofing Plate | 2.0 |
| 3.1 | Front Air Flue Assembly | 1.0 |
| 3.2 | Lint Filter Assembly | 1.0 |
| 3.3 | Sponge | 1.0 |
| 3.4 | Front Support Assembly | 1.0 |
| 3.5 | Nut | 2.0 |
| 3.6 | Flat Gasket | 2.0 |
| 3.7 | Wheel Assembly | 2.0 |
| 3.8 | Humidity Sensor Cover | 2.0 |
| 3.9 | Filter Lint Cover | 1.0 |
| 3.10 | Fuse Assembly | 1.0 |
| 4 | Base Subassembly | 1.0 |
| 5.1 | Volute | 1.0 |
| 5.2 | Thermostate | 1.0 |
| 5.3 | Nut | 1.0 |
| 5.4 | Impeller Assembly | 1.0 |
| 5.5 | Volute Cover | 1.0 |
| 5.6 | Temperature Sensor | 1.0 |
| 5.7 | Single phase asynchronous motor | 1.0 |
| 5.8 | Clip Spring | 2.0 |
| 5.9 | Support For Tensioner Pulley Assembly | 1.0 |
| 5.10 | Spring | 1.0 |
| 5.11 | Screw | 1.0 |
| 5.12 | Safety Switch | 1.0 |
| 5.13 | Motor Support | 1.0 |
| 6 | Adjustable Foot Assembly | 2.0 |
| 7 | Heater Assembly | 1.0 |
| 7.1 | Combustion Chamber | 1.0 |
| 7.2 | Thermostate | 1.0 |

| | | |
|------|-----------------------------|-----|
| 7.3 | Thermostate | 1.0 |
| 7.4 | Burner | 1.0 |
| 7.5 | Lgnition Needle | 1.0 |
| 7.6 | Support | 1.0 |
| 7.7 | Gas Valve Assembly | 1.0 |
| 7.8 | Internal Wire Assembly | 1.0 |
| 7.9 | Heater Support | 1.0 |
| 7.10 | Flame Switch | 1.0 |
| 8 | Front Panel Pin | 2.0 |
| 9 | Adjustable Foot Assembly | 2.0 |
| 10 | Side Plate | 1.0 |
| 11 | Rear Vent Pipe Assembly | 1.0 |
| 12 | Belt | 1.0 |
| 13.1 | Felt | 1.0 |
| 13.2 | Basket Assembly | 1.0 |
| 13.3 | Felt | 1.0 |
| 13.4 | Heating Wind Cover Assembly | 1.0 |
| 13.5 | Bearing House Assembly | 1.0 |
| 13.6 | Nut | 1.0 |
| 14 | Cabinet Cover Back | 1.0 |
| 15 | Power Cord | 1.0 |
| 16 | Power Cord Cover | 1.0 |
| 17 | Internal Wire Assembly | 1.0 |
| 18 | Panel Installed Base | 3.0 |
| 19.1 | Knob Assembly | 1.0 |
| 19.2 | Control Panel Sticker | 1.0 |
| 19.3 | Control Panel | 1.0 |
| 19.4 | PCB | 1.0 |
| 20 | Line Speed Hole Cover | 1.0 |
| 21 | Controller Board Cover | 1.0 |
| 22 | Top Cover Plate | 1.0 |
| 23 | Side Plate | 1.0 |
| 24 | Screw | 2.0 |
| 25 | Front Top Rail | 1.0 |

8. SPECIFICATION

| | | |
|---------------------------|---|---|
| Model No. | MDD160-V052/F01-US1305 | MDD160-VG052/F01-US13 |
| ERP No. | 22038210000579 | |
| Picture |  |  |
| Heater Type | Electric | Gas |
| Power Supply | 120/240V/60Hz | 120V/60hz |
| Capacity (Cuft) | 6.7 | 6.7 |
| CEF (lb/kWh/cycle) | 3.73 | 3.3 |
| Energy Star, 2015 | No | No |
| Certification, safety | CSA | CSA |
| Watts (Heater) | 4800W | 16000BTU/h |
| input power(watts) | 5230 | 1320 |
| Cycle selection | 10 | 10 |
| Cycles | Normal, Heavy Duty, Bulky, Casual, Delicates, Towels, Sanitize, Quick Dry, Air Fluff, Timer Dry | Normal, Heavy Duty, Bulky, Casual, Delicates, Towels, Sanitize, Quick Dry, Air Fluff, Timer Dry |
| Options | My Cycle, Delay, Signal On/Off, Time adjust, Anti-wrinkle | My Cycle, Delay, Signal On/Off, Time adjust, Anti-wrinkle |
| Sensing dry | Yes | Yes |
| Temperature selection | 5 | 5 |
| Dryness level selection | 5 | 5 |
| digital display | Yes | Yes |
| cycle status lights | Yes | Yes |
| Remaining time display | Yes | Yes |
| Look through door | No | No |
| End of cycle signal | Yes | Yes |
| delay start | Yes, up to 24 hours | Yes, up to 24 hours |
| Memory of power interrupt | Yes | Yes |
| adjustable leg | Yes, 4 | Yes, 4 |
| Drum light | No | No |
| Color | White | White |
| Reversible door | Yes, left-right | Yes, left-right |
| Exhaust Options | 3-Way (Rear; Left & Bottom) | 3-Way (Rear; Left & Bottom) |

| | | |
|----------------------|---------|---------|
| Special feature | | |
| child lock | Yes | Yes |
| Door switch | Yes | Yes |
| error alarm | Yes | Yes |
| auto-power off | Yes | Yes |
| Dimensions & loading | | |
| Width, body, Inch | 27 | 27 |
| Depth, body, Inch | 30 1/16 | 30 1/16 |
| Height, body, Inch | 42 7/8 | 42 7/8 |
| Width, body, mm | 686 | 686 |
| Depth, body, mm | 764 | 764 |
| Height, body | 1089 | 1089 |
| Net weight, lbs | 127.8 | 125.6 |
| Gross weight, lbs | 143.2 | 141.0 |
| Net weight, Kg | 58.0 | 57.0 |
| Gross weight, Kg | 65.0 | 64.0 |