

GE Consumer & Industrial

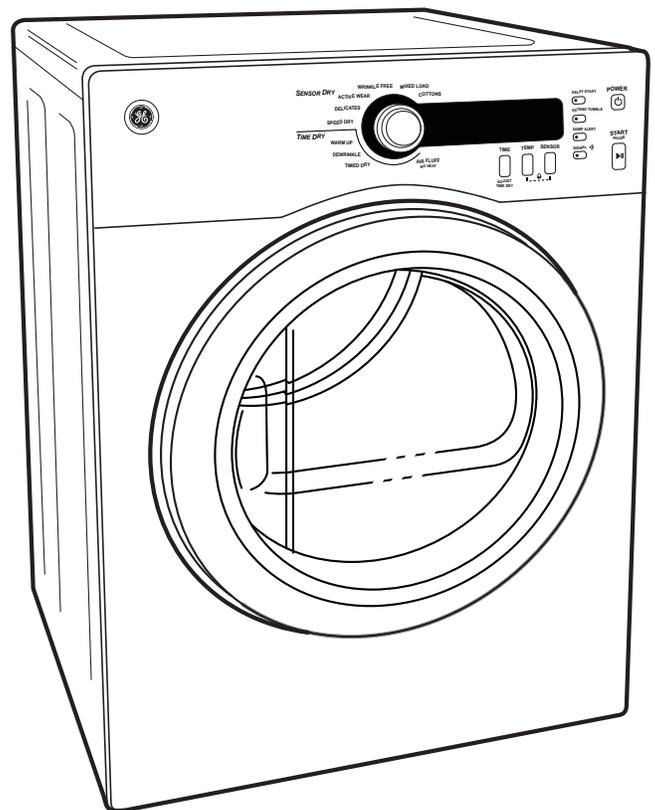
Technical Service Guide

November 2009

24-in. Electric Dryer

DCVH480EK

DCVH485EK



31-9194



GE Appliances
General Electric Company
Louisville, Kentucky 40225



IMPORTANT SAFETY NOTICE

The information in this service guide is intended for use by individuals possessing adequate backgrounds of electrical, electronic, and mechanical experience. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

WARNING

To avoid personal injury, disconnect power before servicing this product. If electrical power is required for diagnosis or test purposes, disconnect the power immediately after performing the necessary checks.

RECONNECT ALL GROUNDING DEVICES

If grounding wires, screws, straps, clips, nuts, or washers used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

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Technical Service Guide
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Introduction

The new GE 24-in. electric dryer has the following features:

- Nine heat cycles - 6 Sensor Dry cycles and 3 Time Dry cycles.
- Large 4.0-cubic foot 304 stainless steel dryer drum.
- LED Drum Lamp
- Built-in service test mode. Specific dryer components can be operated. Error codes are recorded and accessible on the control panel display.
- Thermistor - Thermistors are more sensitive to temperature changes and can relay the information faster than thermostats. The dryer utilizes a thermistor to monitor air temperature leaving the drum. The sensor works together with the variable heater and the blower to provide consistent, even heat.
- Moisture Sensor - The moisture sensor allows the control to monitor the fabric for moisture content and end the cycle at the desired moisture level.
- Flush Door Handle
- Reversible Door
- UV Stabilizers - The control panel has UV stabilizers to prevent yellowing when exposed to sunlight.
- The GE 24-in. electric dryer, models DCVH480EK and DCVH485EK, can be installed on top of GE 24-in. HA washers, models WCVH4800K and WCVH4815K. Use stacking kit GE24STACK.



Control Features

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

Throughout this manual, features and appearance may vary from your model.

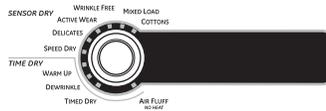
Quick Start

If the screen is dark, press the **POWER** button to “wake up” the display.

- 1 Press the **POWER** button.



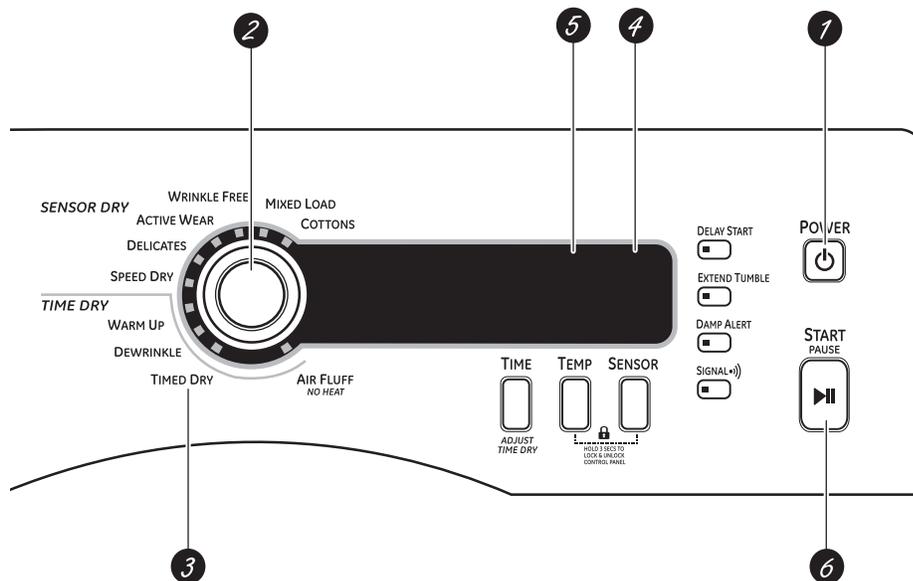
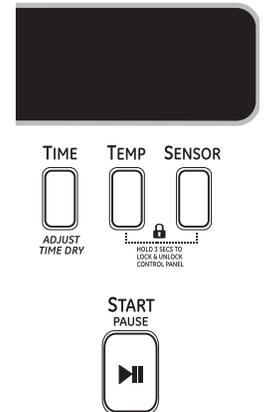
- 2 Select a cycle by turning the **Cycle Knob**.



- 3 If you selected a **SENSOR DRY** cycle—just press the **START/PAUSE** button.



If you selected a **TIME DRY** cycle—select your heat setting and the amount of time you want your items to dry by pressing the **TIME** button until the desired time appears in the display. Then press the **START/PAUSE** button.



- 1 **Power**
Press to “wake up” the display. If the display is active, press to turn the dryer off.

NOTE: Pressing **POWER** does not disconnect the appliance from the power supply.

(Continued Next Page)

2 Dry Cycles

The dry cycle controls the cycle time for the drying process. The chart below will help you match the dry setting with the loads.

Sensor Cycles

COTTONS	For cottons and most linens.
MIXED LOAD	For loads consisting of cottons and poly blends.
WRINKLE FREE	For wrinkle-free/easy care and permanent press items.
ACTIVE WEAR	Clothing worn for active sports exercise and some casual wear. Fabrics include new technology finishes and stretch fibers such as spandex.
DELICATES	For lingerie and special-care fabrics.
SPEED DRY	For small loads that are needed in a hurry, such as sports or school uniforms. Can also be used if the previous cycle left some items damp, such as collars or waistbands.

Time Dry Cycles

WARM UP	Provides 10 minutes of warming time to warm up clothes.
DEWRINKLE	For removing wrinkles from items that are dry or slightly damp. This cycle is not recommended for delicate fabrics.
AIR FLUFF	Use this feature to tumble items without heat.

3 Timed Dry

Use to set your own dry time. **TIMED DRY** is also recommended for small loads.

To use **TIMED DRY**:

1. Turn dry cycle dial to **TIMED DRY**.
2. Select the drying time by pressing the **TIME** button. You can increase the time in 10-minute increments up to 1 hour and 20 minutes.
3. Select the **DRY TEMP**.
4. Close the door.
5. Press **START/PAUSE**.

4 Sensor Dry Level

The sensor continuously monitors the amount of moisture in the load. When the moisture in your clothes reaches your selected dry level, the dryer will stop.

EXTRA DRY	Use for heavy-duty fabrics or items that should be very dry, such as towels.
MORE DRY	Use for heavy or mixed type of fabrics.
DRY	Use for normal dryness level suitable for most loads. This is the preferred cycle for energy saving.
LESS DRY	Use for lighter fabric (ideal for ironing).
DAMP	For leaving items partially damp.

NOTE: The Sensor Dry Levels can only be selected in a Sensory Dry Cycle.

5 **Dry Temp**

You can change the temperature of your dry cycle.

ANTI-BACTERIAL	This option may only be used with COTTONS or MIXED LOAD cycles. This option reduces certain types of bacteria. The anti-bacterial process occurs when high heat is used during a portion of this drying cycle.
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NOTE: Do not use this cycle on delicate fabrics.

HIGH	For regular to heavy cottons.
-------------	-------------------------------

MEDIUM	For synthetics, blends and items labeled permanent press.
---------------	---

LOW	For delicates, synthetics and items labeled <i>Tumble Dry Low</i> .
------------	---

EXTRA LOW	For lingerie and special-care fabrics.
------------------	--

6 **START/PAUSE**

Press to start a dry cycle. If the dryer is running, press it once and it will pause the dryer. Press it again to restart the dry cycle.

"CLEAN LINT FILTER" (message)

This message stays on until the **START** button is pressed. **This message is only a reminder.**

NOTE: Not all features are available on all dryer models.

EXTEND TUMBLE



Extend Tumble

Minimizes wrinkles by adding approximately 20 minutes of constant no-heat tumbling followed by 70 minutes of intermittent no-heat tumbling after clothes are dry. The dryer is in **EXTENDED TUMBLE** when the **ESTIMATED CYCLE TIME** display is illuminated in a circular pattern.

The light in the button will light up when **EXTEND TUMBLE** is on.

NOTE: It is normal for the drum to pause for short periods of time during **EXTEND TUMBLE**.

DAMP ALERT



Damp Alert

This option causes the dryer to beep when clothes have dried to a damp level. Remove items that you wish to hang dry. The **DAMP ALERT** will only beep when this option is selected (dry cycle keeps running).

Removing clothes and hanging them when they are damp can reduce the need to iron some items.

The light in the button will light up when **DAMP ALERT** is on.

NOTE: Only for **DRY**, **MORE DRY** and **EXTRA DRY** sensor dry selections.

DELAY START



Delay Start

Use to delay the start of your dryer.

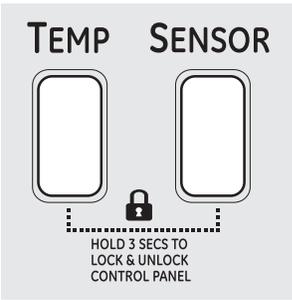
1. Choose your dry cycle and any options.
2. Press the **DELAY START** button. You can change the delay time in 1-hour increments (up to 18 hours) each time you press the **DELAY START** button. Stop pressing the button when your desired time is displayed.
3. Press the **START/PAUSE** button to start the countdown.

The countdown time will be shown in the **ESTIMATED TIME REMAINING** display.

NOTES:

- If the door is opened while the dryer is in **DELAY**, the countdown time will continue to count down the delay time. If the door is not closed and the countdown time expires, the cycle will not start until the door is closed and the **START/PAUSE** button is pressed.
- You can delay the start of a dryer cycle up to 18 hours.

The light in the button will light up when **DELAY START** is on.



Lock

You can lock the controls to prevent any selections from being made. Or you can lock or unlock the controls after you have started a cycle.

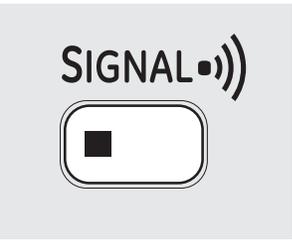
Children cannot accidentally start the dryer by touching pads with this option selected.

To lock the dryer, press and hold the **TEMP** and **SENSOR** buttons together for 3 seconds.

To unlock the dryer controls, press and hold the **TEMP** and **SENSOR** buttons together for 3 seconds. A sound will indicate the lock/unlock status.

The control lock icon on the display will light up when it is on.

NOTE: The **POWER** button can still be used when the machine is locked.



Signal

When the light is "on," the dryer will beep at the end of the cycle and every time you press a button on the control panel.

To turn the signal off, press the **SIGNAL** button and the light will go off.

Reversing the Door Swing

Important Notes:

- Read the instructions all the way through before starting.
- Handle parts carefully to avoid scratching paint.
- Provide a non-scratching work surface for the doors.
- Set screws down by their related parts to avoid using them in the wrong places.
- All screws must be hand-tightened.
- Normal completion time to reverse the door swing is 20–30 minutes.

Important: Once you begin, do not move the cabinet until door-swing reversal is completed.

These instructions are for changing the hinges from the right side to the left side—if you ever want to switch them back to the right side, follow these same instructions and reverse all references to the left and right.

Tools Needed

Phillips-head Screwdriver



Hardware Used

Mounting Screw



Hinge Bracket Anchoring
Screws

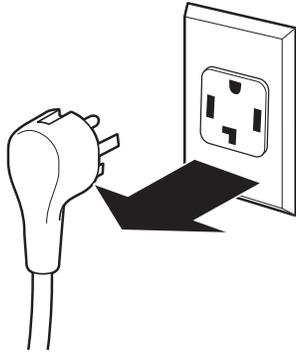


Door and Latch Screws

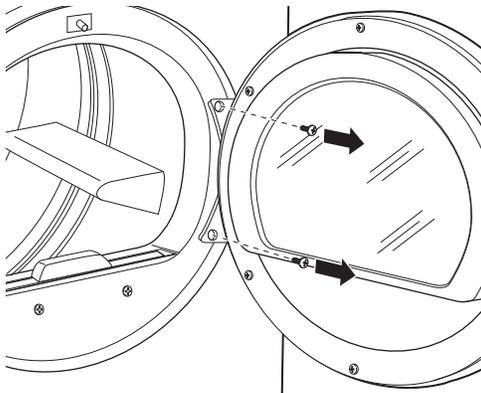


To reverse the door swing:

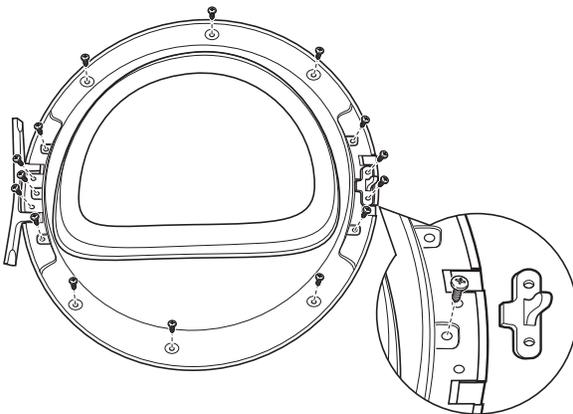
1. Unplug the dryer from its electrical outlet.



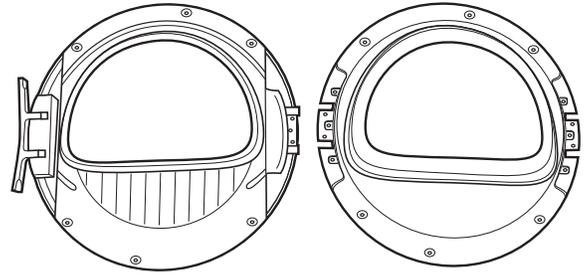
2. Remove the hinge bracket anchoring screws.



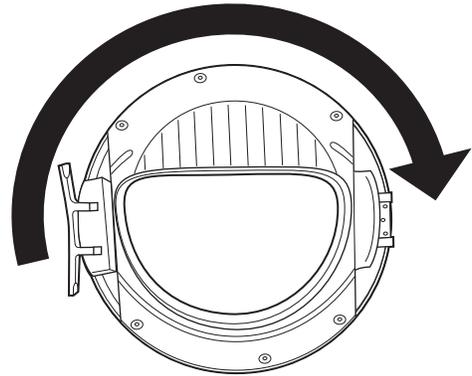
3. Slide door and hinge assembly upward, then remove the assembly from the dryer front panel.
4. Remove 16 door screws and male end of latch from the inner side of the door.



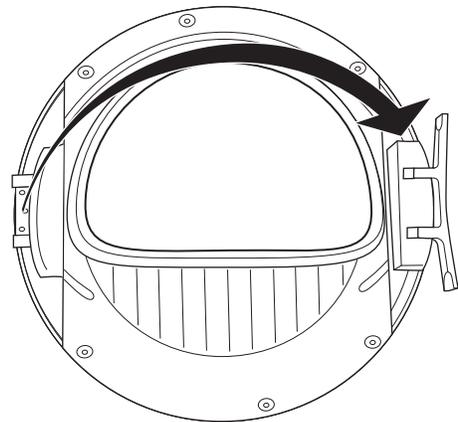
5. Remove the inner face.



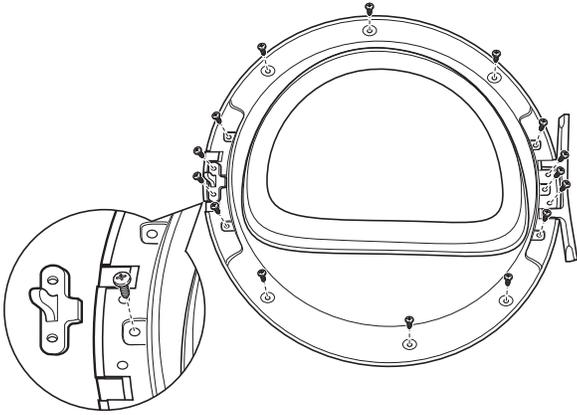
6. Lift and rotate the window assembly 180° and replace. Also rotate the inner face 180° and replace.



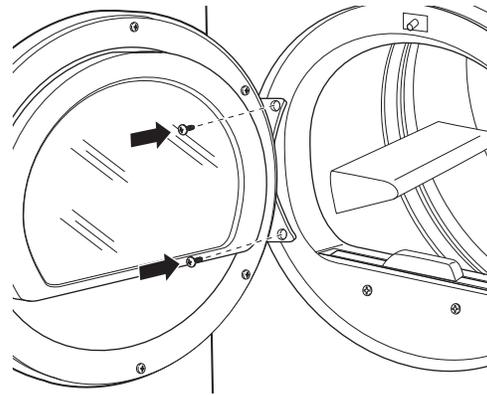
7. Replace a door screw in the center of the side opposite the hinge. Then put the male end of the latch into place and fasten with two door screws.



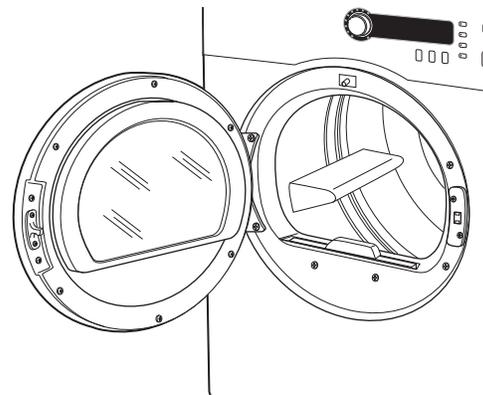
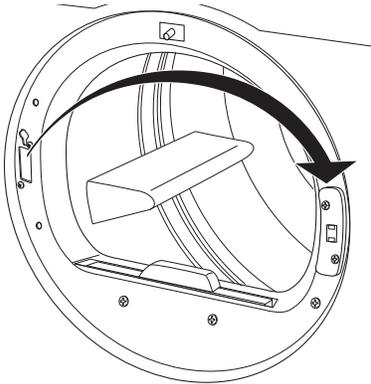
8. Replace all door screws that were removed.



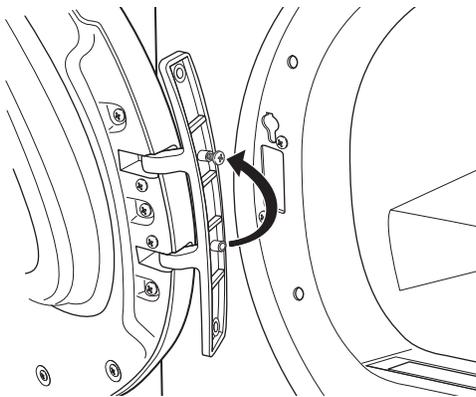
11. Fasten the hinge back on at the top and bottom with the hinge mounting screws.



9. Remove the female end of the latch from the front panel of the dryer, rotate 180°, and replace on the opposite side.



10. Move the mounting screw to the upper screw hole position on the hinge so that the door can be set on the cabinet during final installation.



Stacking Instructions

The GE dryer is designed to allow placement (stacking) on top of certain GE front load washers. Washer models that currently qualify are:

- WCVH4800K
- WCVH4815K

Note: If you are planning to stack the washer and dryer, order Stacking Kit number GE24STACK to be used for this dryer. Kit sold separately.

- **IMPORTANT** – Save these instructions for local electrical inspector's use.
- **IMPORTANT** – Observe all governing codes and ordinances.
- **Note to Installer** – Be sure to leave these instructions with the Consumer.
- Stacking installations may require a power cord up to six feet in length.

WARNING!

- Make sure the dryer is unplugged.
- More than 2 people are recommended to safely lift the dryer into position.
- Avoid damage to the existing utility services.
- **DO NOT** place the washer on top of the dryer.

Location Requirements

When installed in a location other than an alcove or closet, the minimal clearances to combustible surfaces and for air opening are: 0 inches on both sides, and 3 inches front and rear. Consideration must be given to provide adequate clearance for installation and service.

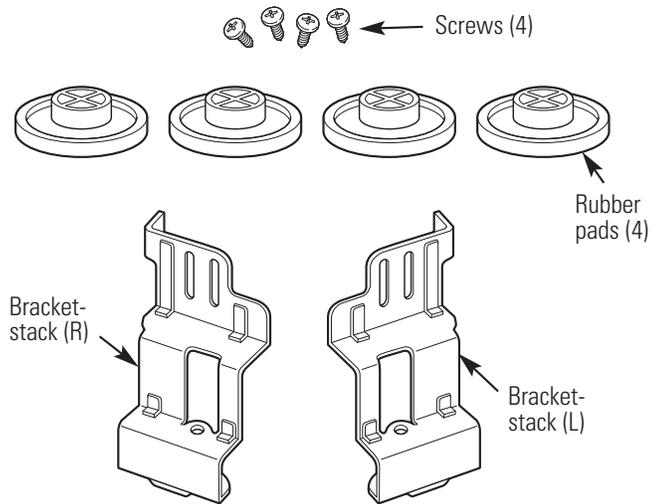
Note: If your dryer is approved for installation in an alcove or a closet, it will be stated on a label on the back.

When installed in an alcove or closet:

- The dryer **MUST** be vented to the outdoors.
- Minimum clearance between dryer cabinet and adjacent walls or other surfaces is 0 inches either side, and 3 inches front and rear.
- Minimum vertical space from floor to overhead shelves, cabinets, ceilings, etc., is 67.7 inches.
- Closet doors must be louvered or otherwise ventilated and have at least 60 square inches of open area equally distributed. If the closet contains both a washer and a dryer, doors must contain a minimum of 120 square inches of open area equally distributed.

Note: WHEN THE EXHAUST DUCT IS LOCATED AT THE REAR OF THE DRYER, MINIMUM CLEARANCE FROM THE WALL IS 5.5 INCHES.

Kit Contents (GE Kit #GE24STACK)



Tools Needed

Phillips-head Screwdriver



Level



Gloves



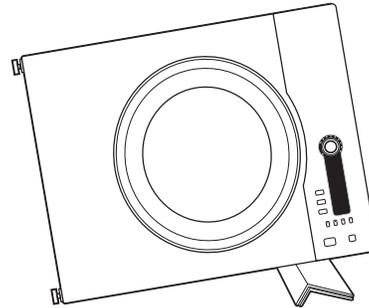
Installation Preparation

Remove the packaging.

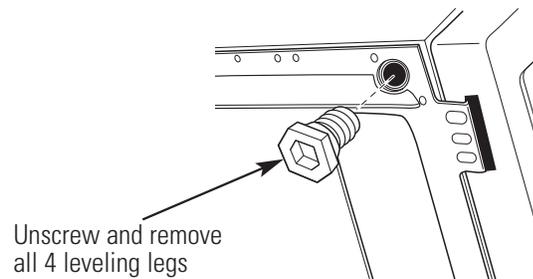
Flatten the product carton to use as a pad to lay the dryer down on its side. Continue using the carton to protect the finished floor in front of the installation location.

Installing the Stack Bracket Kit

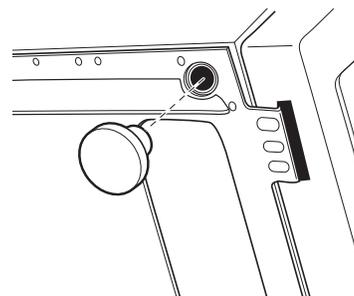
1. Carefully lay the dryer on its side. Use the packing material so you don't scratch the finish on the dryer.



2. Remove the dryer leveling legs.

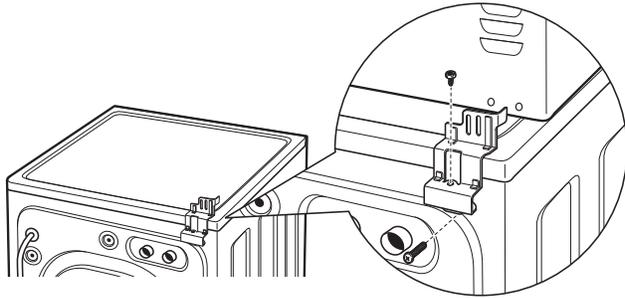


3. Locate the 4 rubber pads in the parts package. Insert rubber pads into the leveling leg holes.



4. Set the dryer upright.

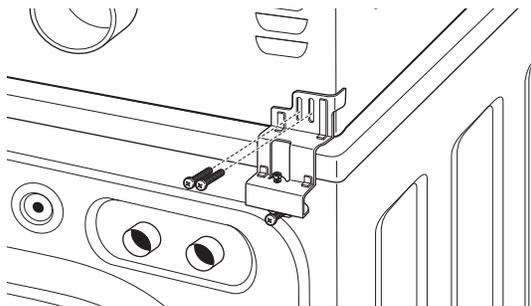
5. Remove washer top cap screw from the rear left. Align left bracket holes with top cap screw hole on rear left of the unit and replace screw. **Note:** Leave screws loose so dryer hole alignment will be easier.
6. Drive next screw through the bracket into the rear of the washer.
7. Repeat the above steps with the right side.



8. Lift the dryer on top of the washer. Protect the washer control panel with cardboard or other protection. Be sure to lift the dryer high enough to clear the washer control panel.

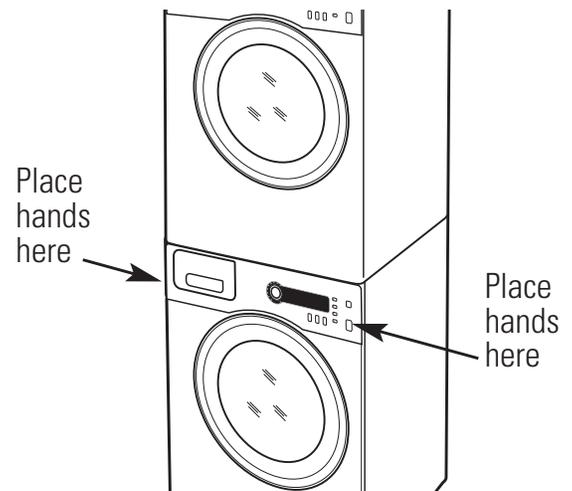
WARNING – Potential Personal Injury. More than two people are recommended to lift the dryer into position because of its weight and size. Failure to do so could result in personal injury or death.

9. Align the holes in the bracket with the holes in the back of the dryer. Using a Phillips screwdriver, attach the 2 #8 x 1/2 inch tapping screws.
10. Tighten the dryer bracket screws; then tighten all stacking kit screws.



11. Refer to the washer Installation Instructions to complete the washer installation.
12. Refer to the dryer Installation Instructions to complete the dryer installation.
13. Carefully slide or walk the stacked washer and dryer into place. Use felt pads or other sliding device to assist moving and to protect flooring.

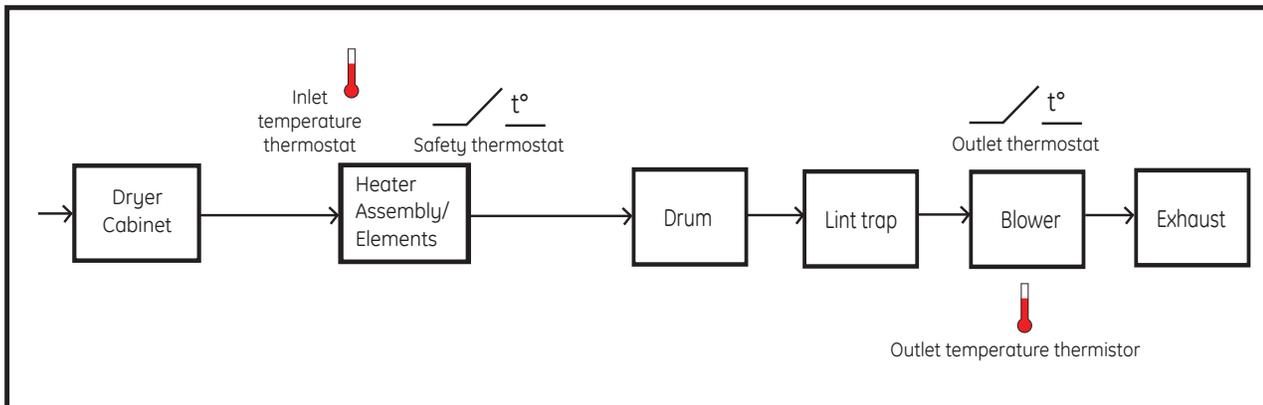
WARNING – Potential Personal Injury. Do not push on the dryer once installed to top of the washer. Pushing on the dryer may result in pinched fingers.



Operation Overview

Air enters the dryer cabinet, passing through the heating elements and into the drum. The hot air heats the wet clothes, gradually removing their moisture in the form of water vapor. The moist air is vented through the dryer exhaust. Overall heater temperature is regulated by means of an inlet temperature thermostat, located on top of the heater assembly, and an outlet thermistor, located at the blower. A safety thermostat, located on top of the heater assembly, and an outlet thermostat, located near the blower, cycle the heating elements if temperatures are excessive. If the thermostat reaches a temperature beyond its maximum temperature rating, power will be interrupted to the heating elements and the control board, thereby terminating dryer operation.

Dryer Air Flow System



The typical dryer cycle progresses as follows:

1. A cycle is selected and the **START/PAUSE** button is pressed.
2. The motor is activated. The drum motor rotates the drum at a speed of approximately 50 RPM (revolutions per minute).
3. The heater elements are activated. The elements cycle on and off to achieve the desired temperature throughout the heating portion of the cycle.
4. If sensor drying is selected, the heater elements are activated. The elements cycle on and off until the load has achieved the desired dryness level.
5. If timed drying is selected, the heater elements are activated and cycle on and off for the selected time at the selected temperature.
6. The heater coils discontinue operation after the dryness level or elapsed time has been achieved.
7. The motor continues operating until the clothes temperature drops below specified temperature (cool down).
9. The display turns off.

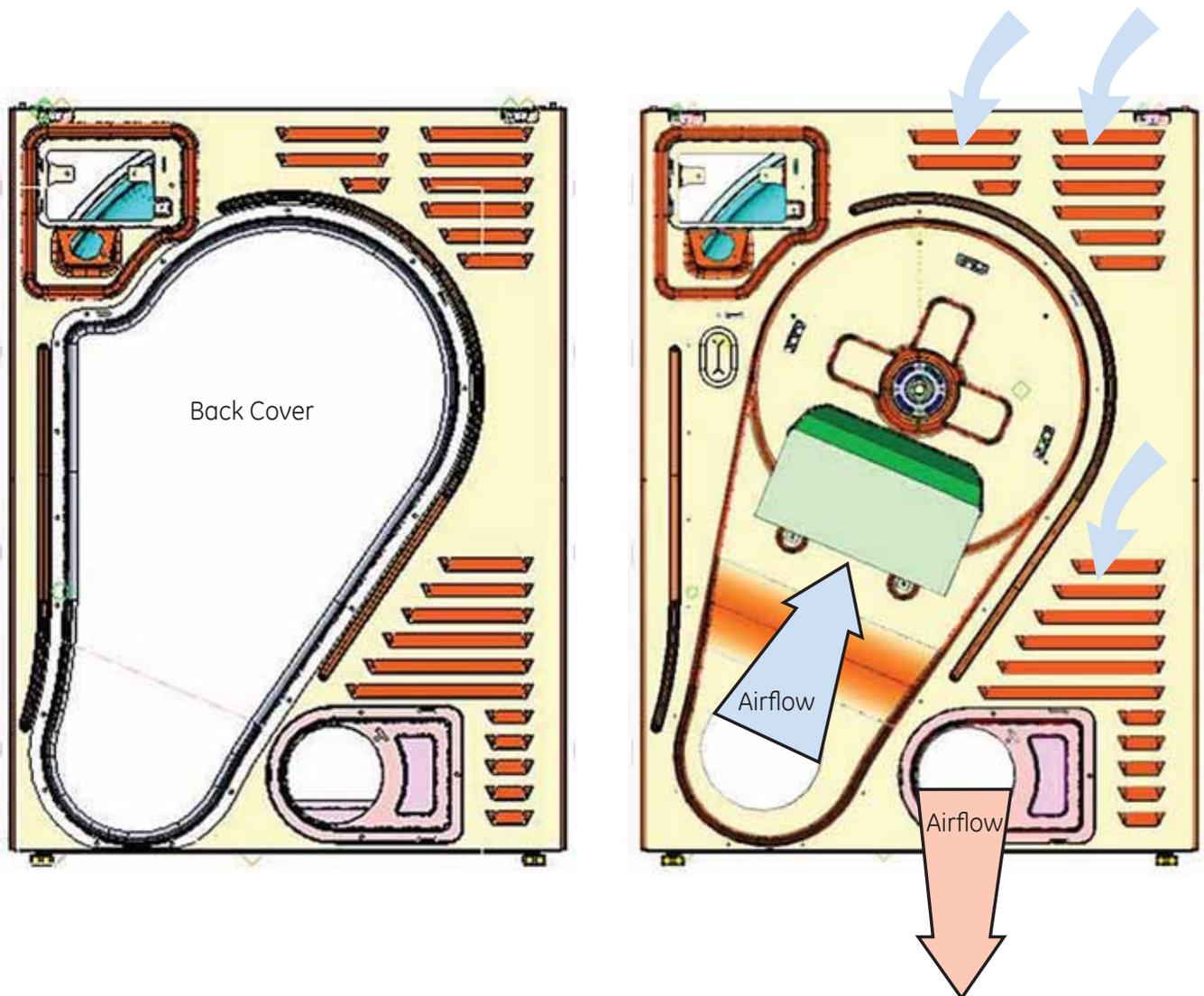
Airflow

AIR FLOW AND SEALS

Proper air flow through the dryer is essential for normal operation of the temperature control and safety systems. The back cover must be in place for proper airflow.

Air is pulled into vents in the rear of the cabinet. The temperature of the air rises by passing thru the electric heaters. This heated air enters thru holes in the back of the drum and dries the clothes load. The air containing moisture is pulled through the lint filter, where lint is screened by the filter, and enters the outlet duct. The air in the outlet duct is pulled by the blower. From the blower the air is pushed out of the exhaust system.

Any air leaks between the air inlet and the blower such as drum front felt or outlet duct to duct cover sealing will result in improper temperatures. The air being pulled down the duct outlet to the outlet thermostat will be cooler than normal, giving this thermostat a false indication (delayed or no trip).



Component Locator Views

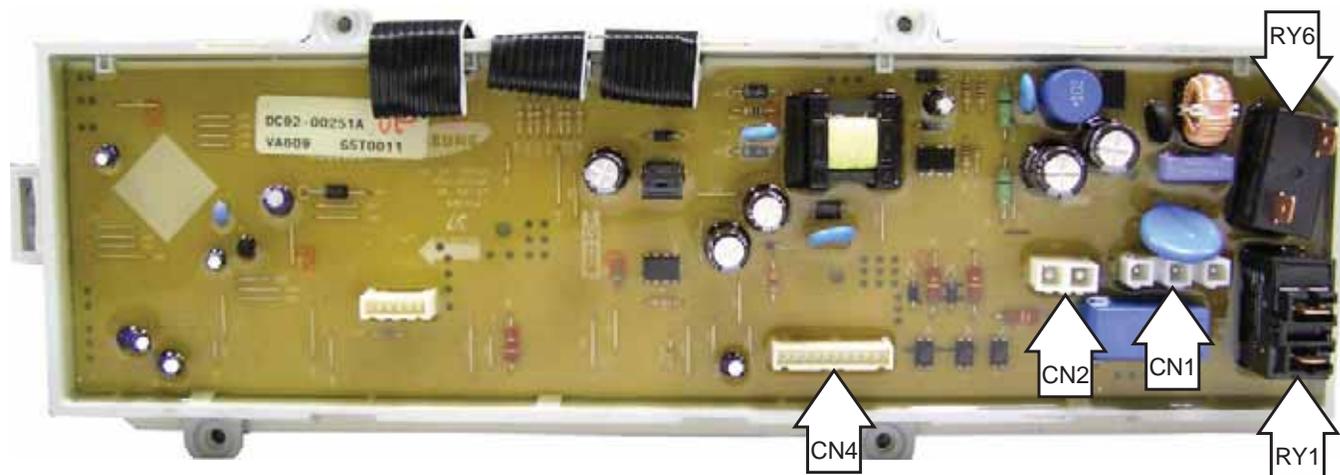
Front view



Rear view



Control Board Connections



CN1 - Inlet High Limit, Heater

CN2 - Neutral

CN4 - DC output to Thermistor, Touch Sensor, Lamp

RY1- Motor Relay

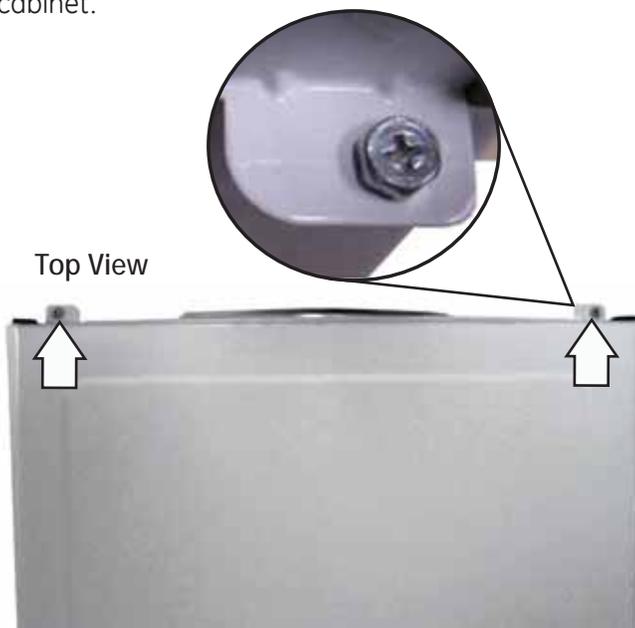
RY6 - Heater Relay

Dryer Components

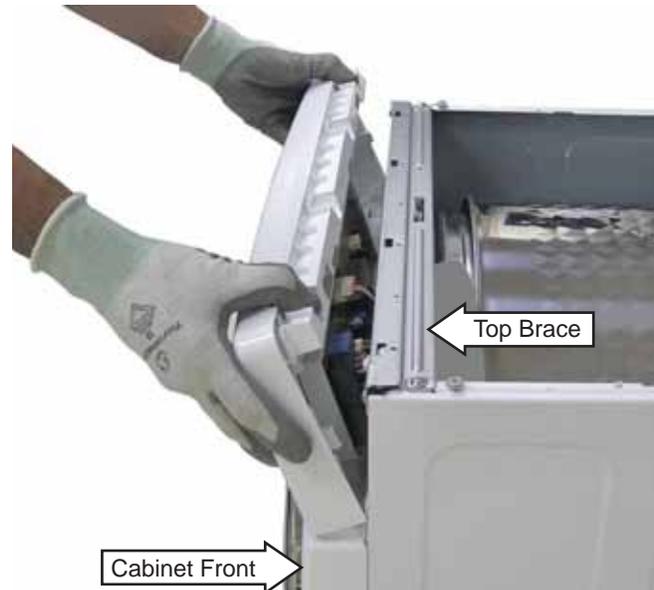
WARNING: Sharp edges may be exposed when servicing the dryer. Use caution to avoid injury. Wear Kevlar gloves or equivalent protection.

Top Cover

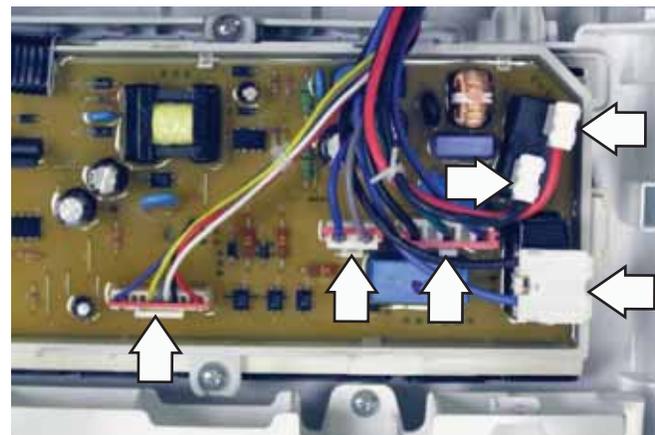
Removal of the top cover provides access to the control panel and front panel. Two Phillips-head screws, are located at the rear of the top cover. After removal of the screws, the cover can then be slid rearward 1 inch, then lifted to disengage it from the cabinet.



3. Pull the top of the panel up and out from the top brace, then lift the panel off of the cabinet front.



4. Disconnect the control panel wires and harnesses.



Control Panel

The control panel is held in place with 4 Phillips-head screws and 4 tabs. Two tabs engage the front brace and 2 tabs engage the cabinet front.

To remove the control panel:

1. Remove the top panel. (See *Top Cover*.)
2. Remove the 2 Phillips-head screws that attach the top of the control panel to the front brace.



Control Board

The control board is mounted in a housing that is attached to the inside of the control panel. The control board and housing are replaced as an assembly. The control board assembly is held in place by 4 Phillips-head screws and 2 tabs.

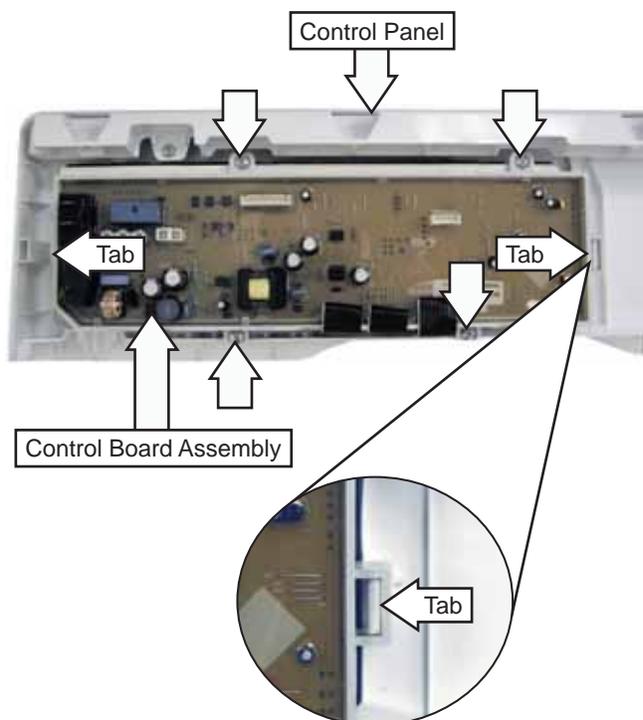
The control will shut down 15 minutes after the last button press or the end of the cycle.

To remove the control board:

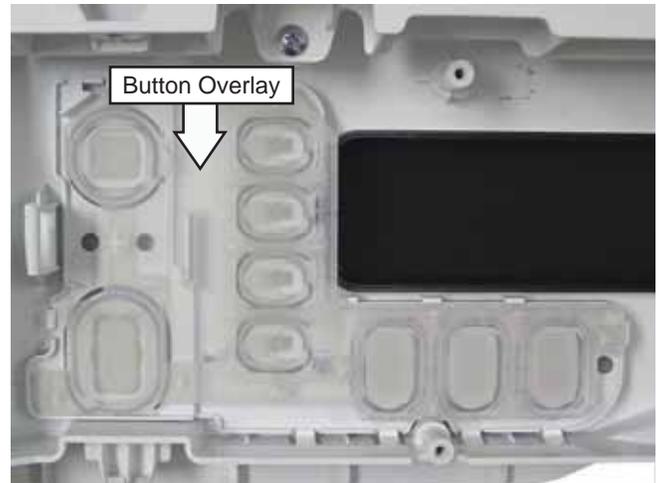
1. Remove the control panel. (See *Control Panel*.)
2. Pull the cycle knob off. Note the alignment of the "D" shaft when installing the knob.
3. Place the control panel, face down, on a protective surface.
4. Remove the 4 Phillips-head screws that attach the control board assembly to the control panel.
5. Press each of the 2 tabs inward, 1 on each side, and lift the control board assembly from the control panel.

Operation of the control board can be checked by using the service test mode. (See *Service Mode*.)

Specific failures associated with the control board can initiate error codes tS, t0, dE, od, HE, FE, bE2, 3E1, and 3E2. (See *Error Codes*.)



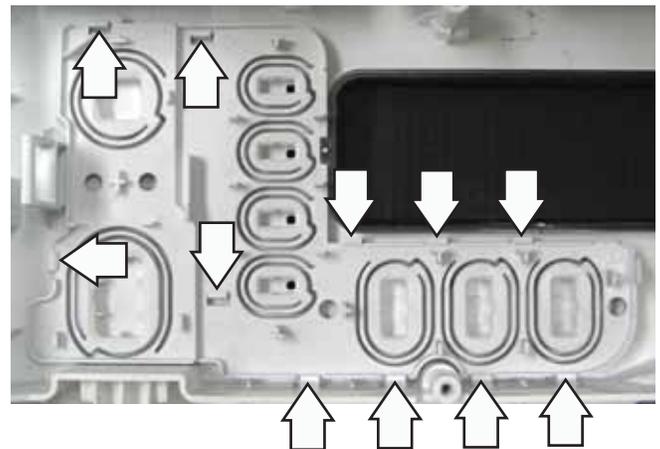
Note: In the next step, the button overlay is inserted into the rear of the buttons on the control panel.



7. Carefully peel back the button overlay and remove it from the control panel.



8. Release the 11 tabs that attach the button frame to the control panel, then lift the frame from the panel.



Front Panel

Removal of the front panel provides access to the drum support and blower wheel. The front panel is inserted into 3 hooks attached to the bottom of the cabinet and held in place with 6 Phillips-head screws. The door switch is attached to the front panel.

To remove the front panel:

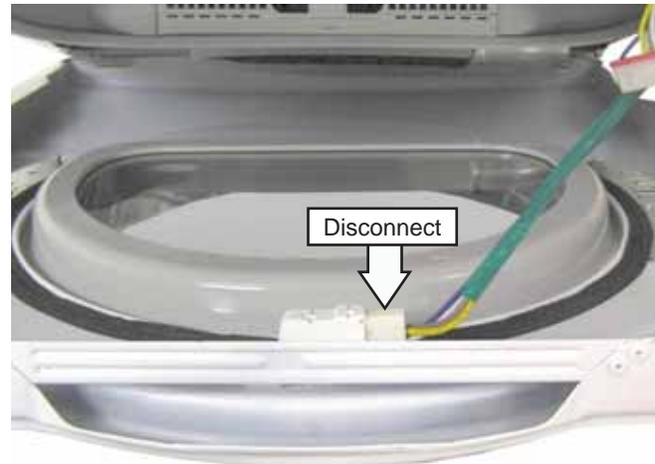
1. Remove the top panel. (See *Top Panel*.)
2. Remove the control panel. (See *Control Panel*.)
3. Open the door, then remove the 2 Phillips-head screws located in front of the lint filter.



4. Close the door, then remove the 4 Phillips-head screws from the top corners of the front panel.



5. Pull the top of the front panel away from the cabinet, then disconnect the door switch wire harness.



6. Lift the front panel off of the cabinet.

Door Switch

The door switch is fastened to the front panel by 2 locking tabs. When the dryer door is closed, the switch will complete the motor circuit, allowing dryer operation. When the door is open, the switch will open the motor circuit, interrupting dryer operation.

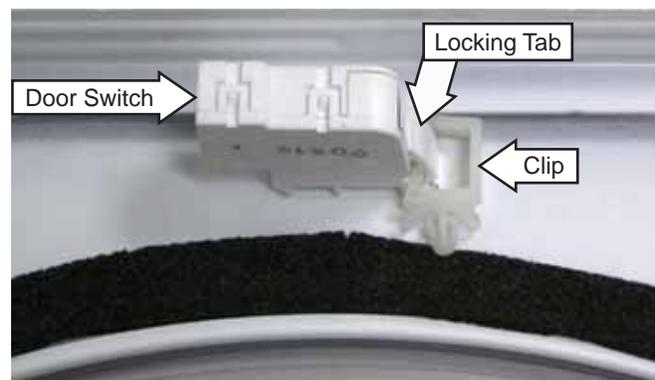
Operation of the door switch can be checked by using the service test mode. (See *Service Mode*.)

Specific failures associated with the door switch can initiate error code dE. (See *Error Codes*.)

To remove the door switch:

1. Pull the top of the drum support away from the cabinet, then disconnect the door switch wire harness. (See *Front Panel*.)
2. Remove the clip from the locking tab.

Note: The clip on the locking tab of the door switch is for manufacturing purposes only and does not need to be replaced when replacing the door switch.



(Continued Next Page)

3. Open the door.
4. Press the locking tab in and pull the switch out from the front of the panel.



Drum Lamp Assembly

The lamp assembly consists of 2 LEDs and a glass cover, contained in a flexible housing. The housing is inserted in an opening located inside the top right corner of the drum support.

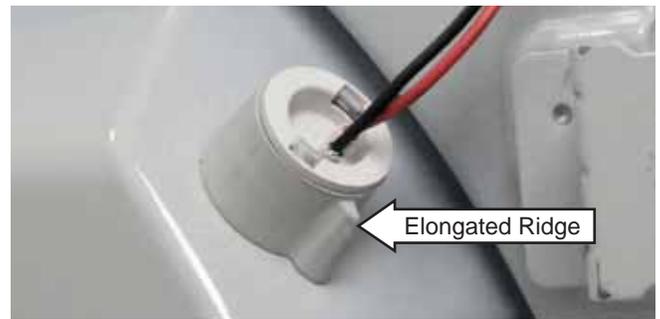


View inside drum support

The drum lamp will only operate when the dryer display is active and the door is in the open position.

With an active display and the door open, check for 11.75 VDC at the disconnected lamp harness. A connected harness and operable LEDs will measure 6.53 VDC.

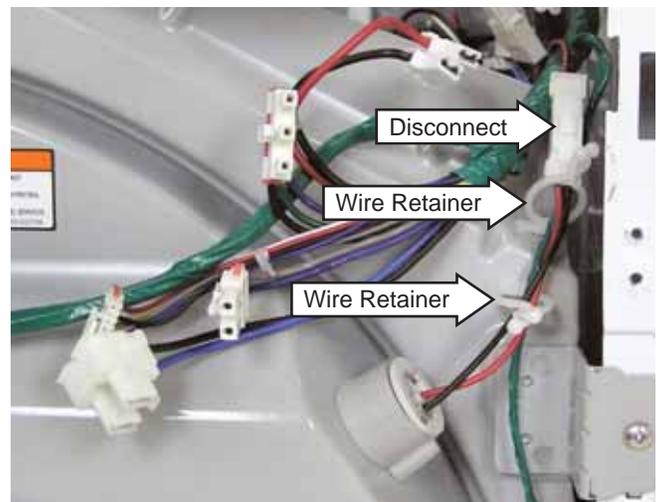
The lamp assembly is secured in place by a groove in the housing and locked in place with an elongated ridge that engages a notch in the opening.



View outside drum support

To replace the drum lamp assembly:

1. Remove the front panel. (See *Front Panel*.)
2. Disconnect the drum lamp wire harness and remove it from the 2 wire retainers.



3. From inside the dryer, starting at the pointed location, carefully peel up the flexible housing and pull the assembly thru the opening in the drum support.



Touch Sensors

The touch sensor consists of 2 sensors permanently attached to the filter inlet.



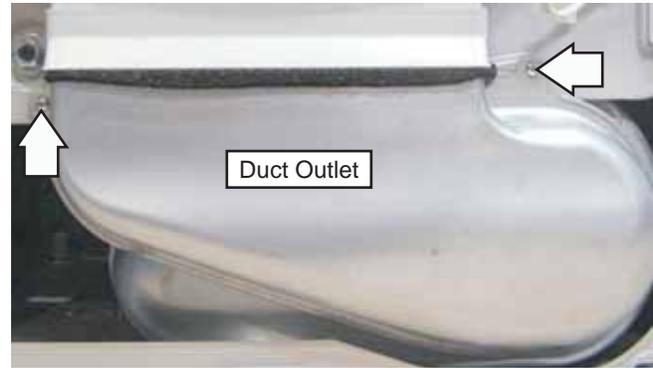
Note: The 2 touch sensors in the filter inlet are not replaceable. To replace the sensors, replace the filter inlet.

The sensors are connected to the main control board. The sensors are spaced approximately ½-in. apart, which creates an open circuit to the control.

- The control board utilizes a low-voltage capacitor that charges to approximately 5 VDC when the circuit is open and discharges to less than 1 VDC when the circuit is shorted.
- When wet clothes tumble across the two sensors, the clothes create a very low resistance between the sensors, which discharges the capacitor.
- As the clothes become dry, their resistance value increases and the charge across the capacitor builds to approximately 5 VDC.
- Operation of the touch sensors can be checked by using the service test mode. (See *Service Test Mode*.)
- Proper leveling of the dryer is vital for accurate sensor drying. If the front of the dryer is raised too high, clothes will tumble toward the rear of the drum, preventing contact with the sensors. This could produce a false dryness reading.

To remove the touch sensor assembly:

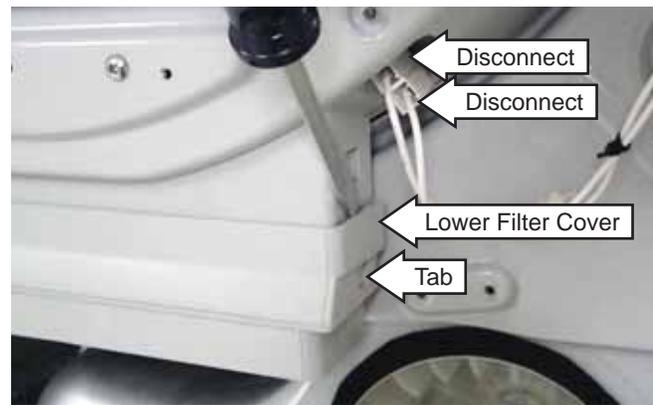
1. Open the door and remove the lint filter.
2. Remove the 2 Phillips-head screws that attach the duct outlet to the drum support.
3. Lower and remove the duct outlet.



3. Disconnect the sensor wires.

Note: The lower filter cover is attached to the filter guide with 2 tabs, 1 on each side.

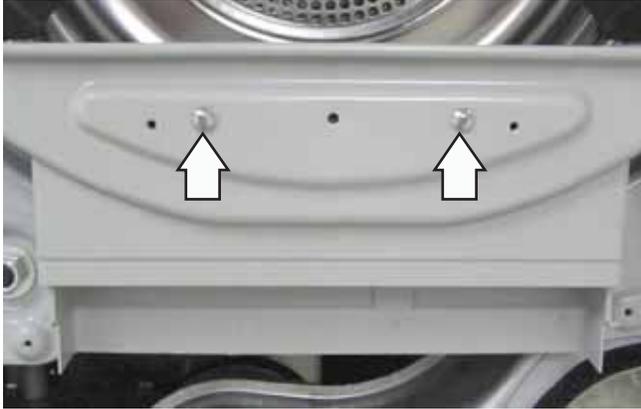
4. Using a flat blade screwdriver, pry out each side of the lower filter cover and release it from the tabs on the filter guide.



5. Remove the 3 Phillips-head screws from the inside of the filter inlet.



6. Remove the 2 Phillips-head screws that attach the filter guide and inlet to the drum support.



7. Lift the filter guide and inlet from the drum support.



Note: The filter guide is attached to the filter inlet with 2 tabs, 1 on each side.

8. Pull each side of the filter guide out and release it from the tabs on the filter inlet.



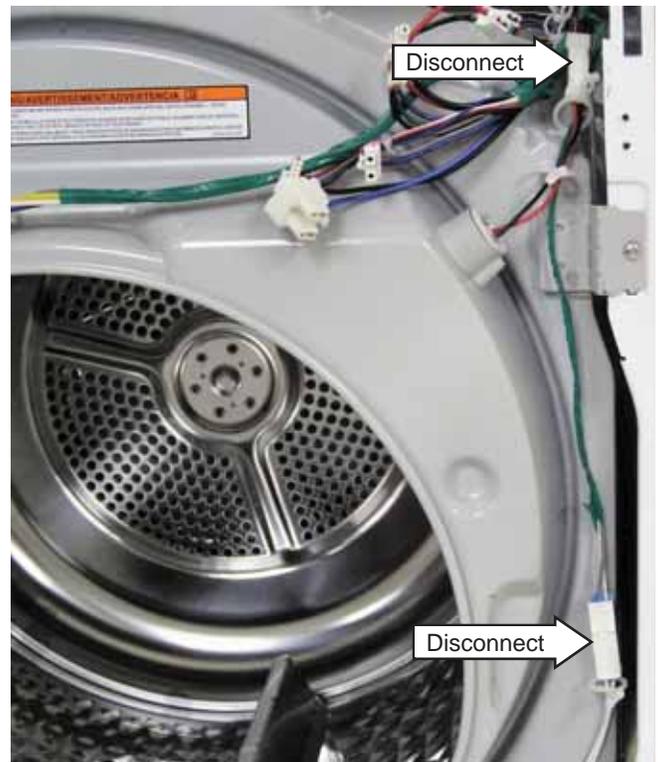
Drum Support Assembly

The drum support assembly houses the lint filter assembly, drum lamp, and drum rollers. It is located behind the front panel.

The drum support is attached to the cabinet with 4 Phillips-head screws and 4 hooks that engage 4 cutouts in the cabinet. The top of the drum support has a tab that engages a slot in the control panel support bracket.

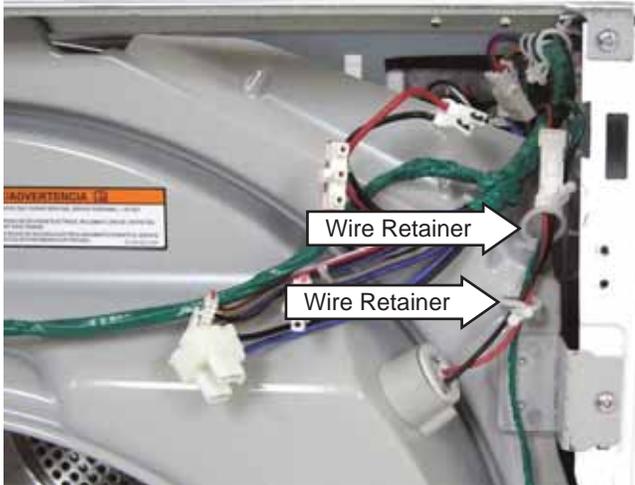
To remove the drum support assembly:

1. Remove the top, control, and front panels. (See *Top Cover, Control Panel, and Front Panel*.)
2. Disconnect the drum lamp and touch sensor wire harnesses.

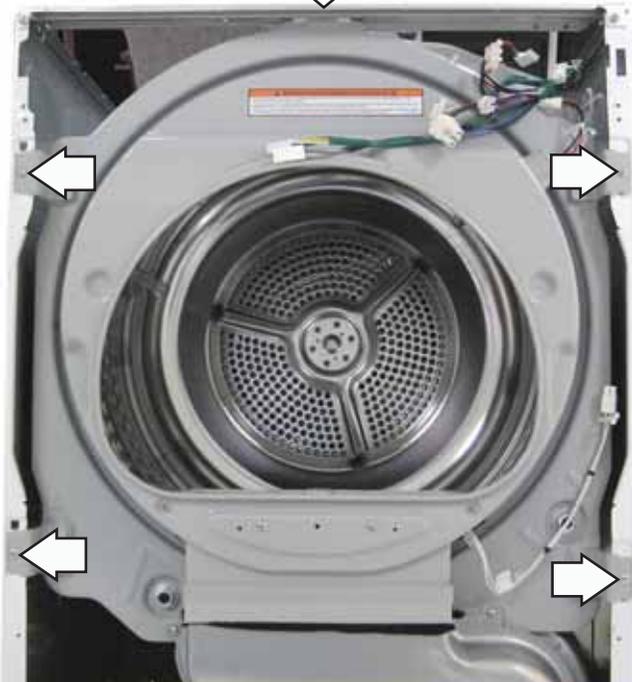
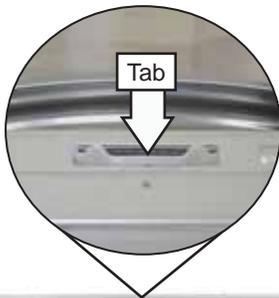


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3. Remove the disconnected touch sensor wire harness from the 2 top front wire retainers.



4. Remove the 4 Phillips-head screws that attach the drum support to the front panel, then grasp and lift the drum support 1/4-inch to disengage it from the cabinet.
5. Lift the drum support up, pull the bottom out, then disengage the support from the control panel support bracket.



Drum Rollers

The front of the stainless steel drum rotates on 2 rollers attached to the inside of the drum support.



Each roller is part of an assembly that consists of a roller, roller shaft, 2 plastic triangular clips, 2 washers, and a 17-mm hex nut.



To remove the rollers:

1. Remove the drum support. (See *Drum Support*.)
2. Using a small flat blade screwdriver, pry the front plastic triangular clip from the groove in the roller shaft.
3. To remove the roller shaft, remove the 17-mm hex nut that attaches the roller shaft to the front of the drum support.

Back Cover

It is necessary to remove the back cover to access the heater assembly, idler bracket, and belt switch.

The cover is attached to the back of the cabinet with 9 Phillips-head screws and 2 slots that engage 2 tabs on the cabinet.



Drive Belt

The drive belt extends from the motor pulley, past the idler pulley, and around the perimeter of the dryer drum.

To remove the drive belt:

1. Remove the back cover. (See *Back Cover*.)
2. To release belt tension, reach under the left side of the drum, grasp, and push the idler pulley up to the right.
3. Remove the belt from the motor pulley and idler pulley.



4. Remove the drum support. (See *Drum Support*.)
5. Lift the front of the drum up and pull the belt out through the front of the dryer.



To replace the drive belt:

1. Lift the front of the drum up, then place the belt in position around the circumference of the drum.
2. From the back of the dryer, reach under the left side of the drum, and push the idler pulley up to the right.
3. Route the belt over the left side of the idler pulley, then around the motor pulley.

Note: The belt should be oriented so that the belt grooves contact the motor pulley.

4. Slowly release the idler arm, and guide the belt into position.



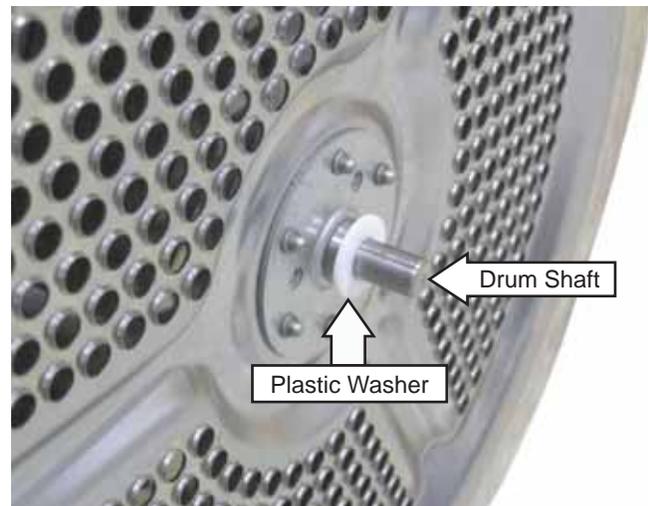
Drum and Bearing

The dryer drum is made of 304 stainless steel and has three replaceable drum baffles attached to the inside. The drum rotates clockwise at approximately 50 rpm.

It is necessary to remove the belt (See *Drive Belt*.) before lifting and pulling the drum out of the cabinet.



The drum shaft is permanently attached to the back of the drum. A plastic washer is installed on the drum shaft.

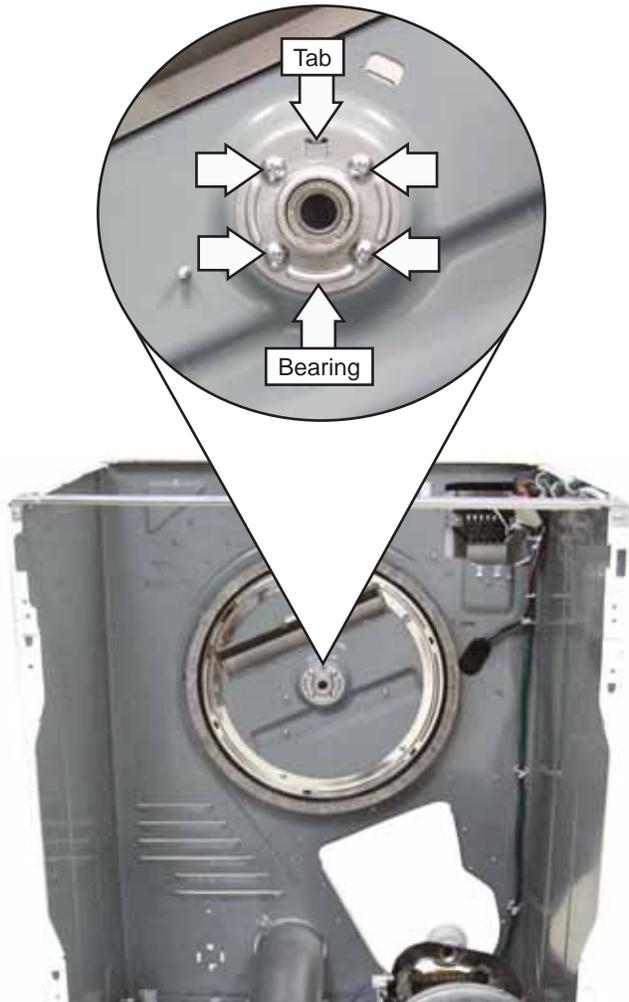


Note:

- The plastic washer is available separately.
- If the drum shaft is damaged, the drum and bearing will have to be replaced.

The drum shaft fits into the bearing located in the center back of the cabinet.

The bearing is attached to the cabinet with 4 Phillips-head screws and a tab located at the top.



Rear Drum Seal Assembly

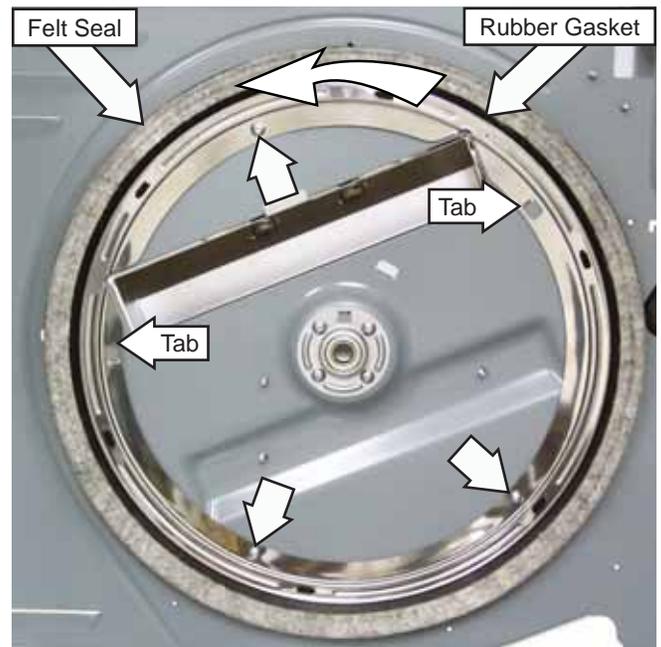
The rear drum seal assembly consists of a felt seal that is permanently attached to a rubber gasket and a circular bracket.

The rubber gasket is attached to the back of the circular bracket with 6 rubber tabs. The circular bracket is attached to the inside of the cabinet with 3 Phillips-head screws and 2 metal tabs.

WARNING: Sharp edges may be exposed when replacing the rear drum seal. Use caution to avoid injury. Wear Kevlar gloves or equivalent protection.

To remove the rear drum seal:

1. Remove the drum. (See *Drum and Bearing*.)
2. Remove the 3 Phillips-head screws from the circular bracket.
3. Rotate the rear drum seal assembly 1/2-inch counterclockwise, then pull the rear drum seal assembly straight out from the cabinet.



4. At each tab location, pull the rubber gasket away from the circular bracket.

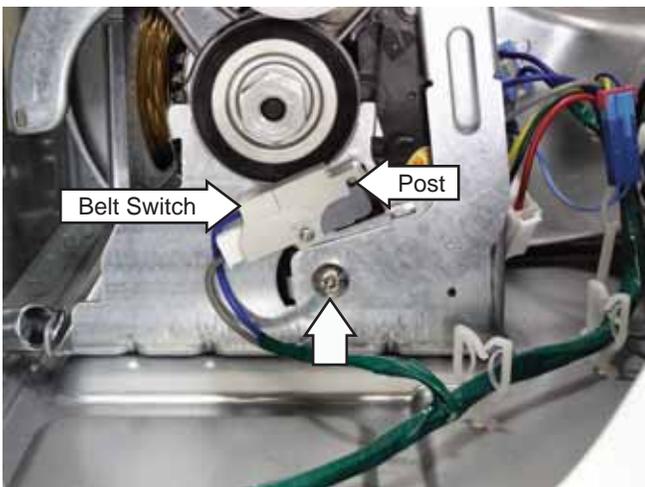
Belt Switch

The belt switch is housed inside a cover, inserted over a post on the back of the motor baseplate, and attached with a Phillips-head screw. The switch is activated by the movement of the idler bracket assembly. If the drive belt breaks or comes off the idler pulley, the belt switch opens power to the motor, interrupting dryer operation. The back cover must be removed to access the belt switch and wiring.

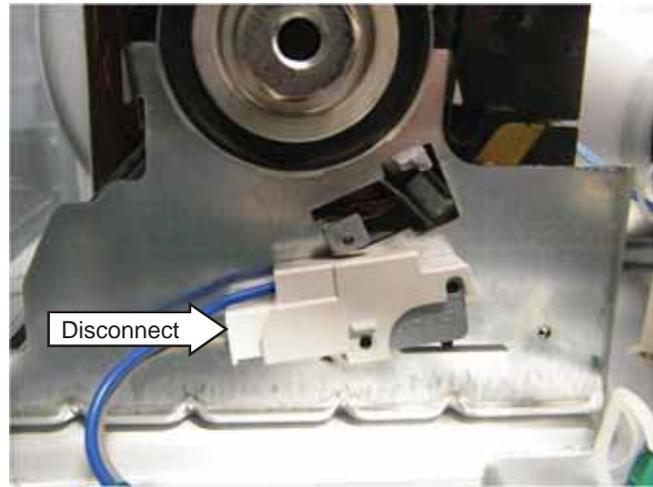
Note: The drum lamp will operate with an open belt switch.

To remove the belt switch:

1. Remove the back cover. (See *Back Cover*.)
2. Release the belt from the idler pulley. (See *Drive Belt*.)
3. Disconnect the spring from the idler bracket.
4. Lift the idler bracket, then remove the Phillips-head screw that attaches the belt switch and cover to the motor baseplate.
5. Pull the switch and cover straight out from the post on the motor baseplate.

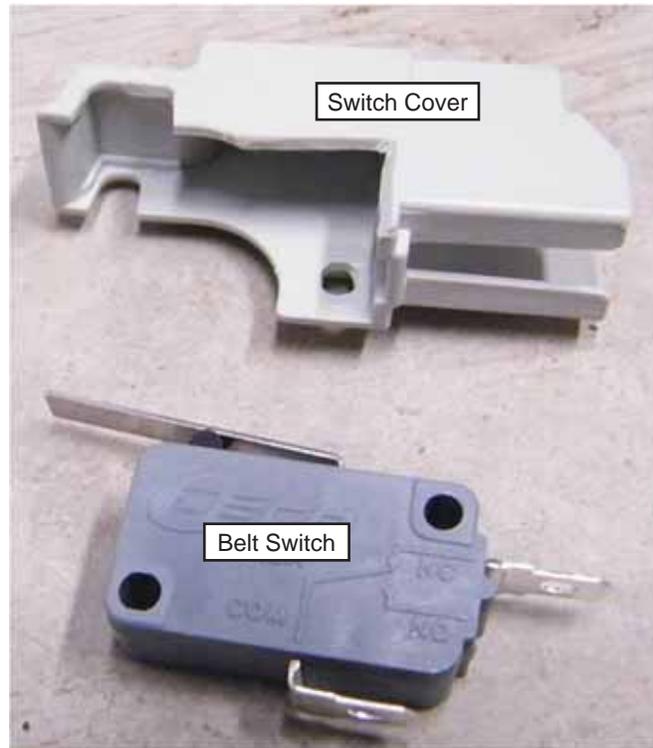


4. Disconnect the wire harness from the belt switch.



5. Unsnap the belt switch from the cover.

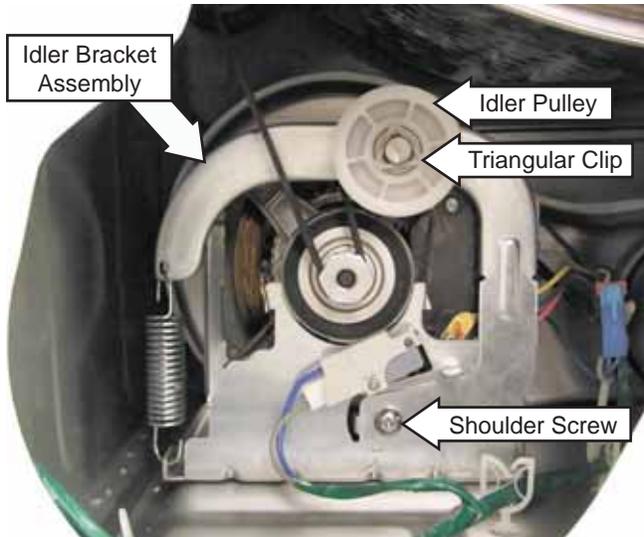
Note: The belt switch and the cover are available separately.



Idler Bracket Assembly

The idler bracket assembly maintains proper tension on the drive belt to minimize belt slippage. The idler bracket assembly consists of the idler bracket, pulley, pulley shaft, and triangular clip. The clip is available as a separate part.

The pulley is retained on the pulley shaft using a triangular clip. The assembly is attached to the back of the motor baseplate with a Phillips-head shoulder screw.



When removing the idler bracket, it is first necessary to release the belt from the idler pulley (See *Drive Belt*), and disconnect the spring from the idler bracket.



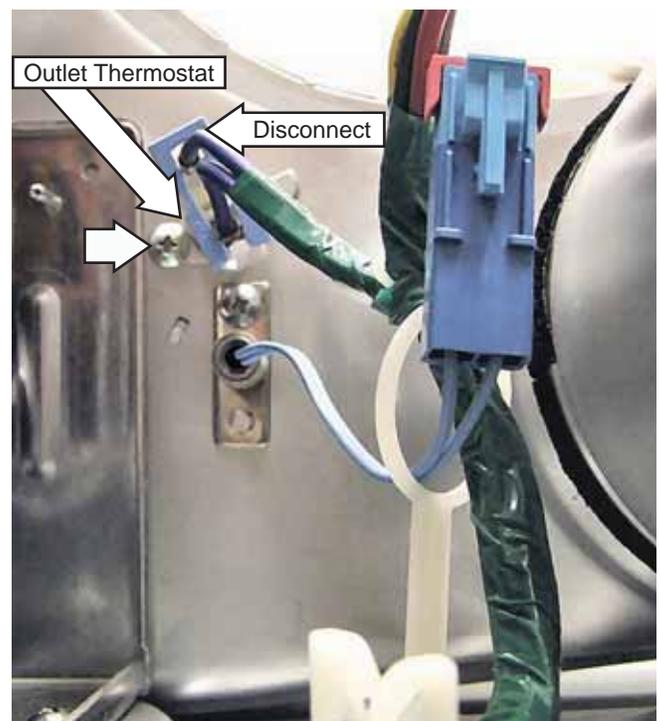
Outlet Thermostat

The outlet thermostat is located on the upper rear area of the blower housing. It is above the thermistor. The outlet thermostat monitors the outgoing air temperature.

If the thermostat reaches a temperature beyond its maximum temperature rating, it will trip and disable power to the heating elements.

The outlet thermostat opens at 158°F (70°C) and will automatically reset at 140°F (60°C).

To access the outlet thermostat it is necessary to remove the drum. (See *Drum and Bearing*.) A wire harness connects 2 dark blue wires to the thermostat. The thermostat is attached to the blower housing with a Phillips-head screw.



Thermistor

The thermistor is located on the upper rear area of the blower housing. It is below the outlet thermostat. The thermistor measures outgoing air temperature and responds to temperature changes. The thermistor provides temperature change information to the control board. The control board makes heating decisions based on this information.

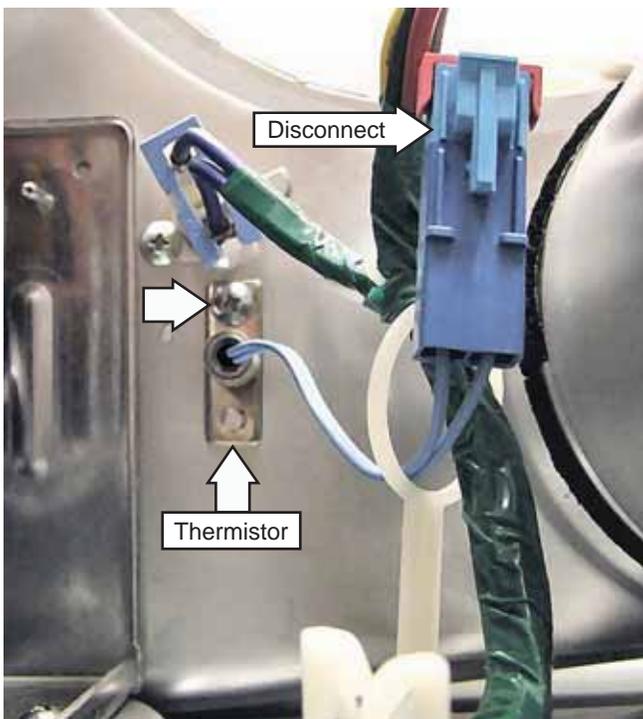
The thermistor has an approximate resistance value of:

- 11.24 - 13.08K Ω at 140°F
- 23.76 - 28.52K Ω at 104°F
- 55.08 - 68.43K Ω at 68°F

Operation of the thermistor can be checked by using the service test mode. (See *Service Test Mode*.)

Specific failures associated with the thermistor can initiate error codes tS and t0. (See *Error Codes*.)

To access the thermistor, it is necessary to remove the drum. (See *Drum and Bearing*.) A wire harness connects 2 light blue wires to the thermistor. The thermistor is attached to the blower housing with a Phillips-head screw.

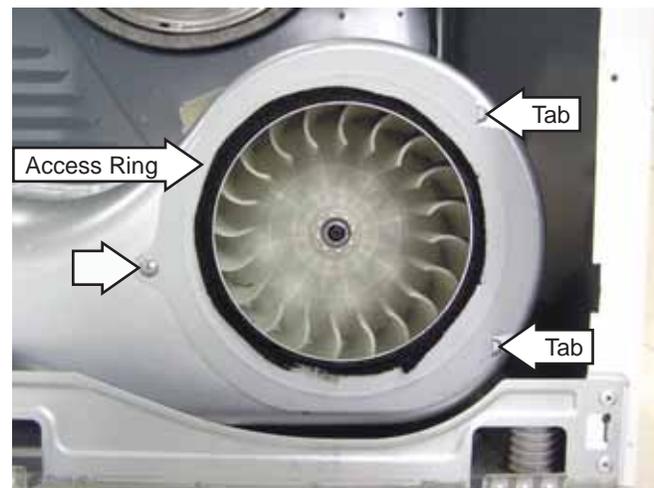


Blower Wheel

The blower wheel is held to the blower motor shaft with a 14-mm hex nut. To remove the blower wheel, it is not necessary to remove the blower motor from the blower housing. The blower wheel can be removed by removing the blower wheel access ring from the duct cover assembly. The blower wheel access ring is attached to the duct cover assembly with 1 Phillips-head screw and 2 tabs.

To remove the blower wheel:

1. Remove the drum. (See *Drum and Bearing*.)
2. Remove the Phillips-head screw from the blower wheel access ring.
3. Slide the blower wheel access ring to the left and remove it from the 2 tabs on its right side.



Note: In the following step, to prevent the blower wheel from turning while removing the center nut, apply a 7/8-in. wrench to the nut on the end of the drive motor shaft as shown below.

4. Remove the 14-mm center nut. (Turn clockwise to remove.)
5. Pull the blower wheel off of the motor shaft.



Motor

The motor is a single-speed, 120-VAC, 1/3-hp, 5.9-amp rated motor with an automatic reset overload protector. The overload protector is an internal component of the motor. The motor contains a centrifugal switch that serves two purposes:

- Disengages the motor start winding.
- Closes the circuit contacts for the heat source. (Heat source contacts are No.1 red wire and No.2 black wire.)

The overload protector and switch are internal components of the motor and cannot be replaced separately.

The motor circuit, CN2 gray to RY1 blue, has an approximate resistance value of 1.7 Ω (equivalent resistance of start and run windings).

A reading of approximately 3.6 Ω indicates an open winding, stuck open start switch, or open wiring.

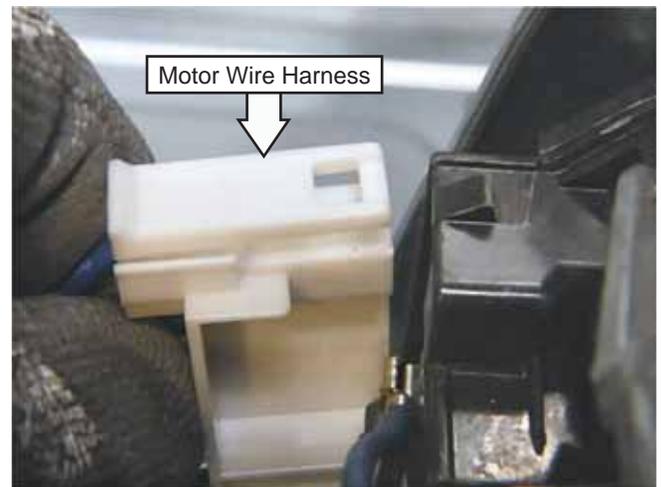
An open circuit, indicates both motor windings open, open motor overload, open belt switch, or open wiring.

Operation of the motor can be checked by using the service test mode. (See *Service Test Mode*.)

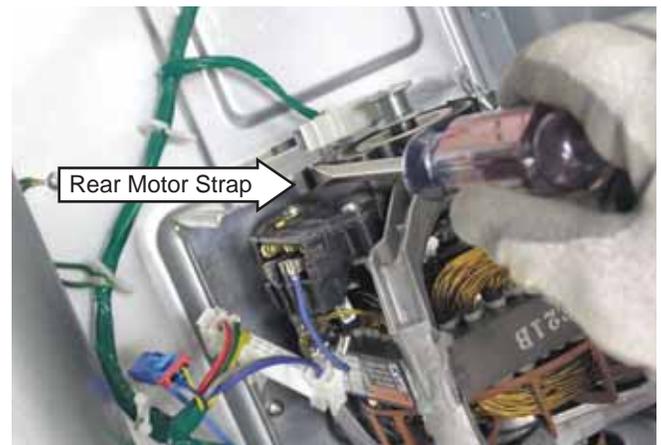
Specific failures associated with the motor can initiate error codes 3E1 and 3E2. (See *Error Codes*.)

To remove the motor:

1. Remove the drum. (See *Drum and Bearing*.)
2. Remove the 14-mm center nut from the blower wheel. (See *Blower Wheel*.)
3. Remove the idler bracket. (See *Idler Bracket Assembly*.)
4. Disconnect the motor wire harness from the back of the motor.



5. Compress, then remove the front and rear motor straps from the motor baseplate.



6. Lift the motor up and pull it out of the blower wheel and blower housing.

Heater Assembly

WARNING: Sharp edges may be exposed when servicing the heater. Use caution to avoid injury. Wear Kevlar gloves or equivalent protection.

The heater assembly is located on the back of the cabinet. It consists of 2 ribbon elements fastened to a single housing, inlet thermostat, and inlet high limit thermostat. The thermostats are not replaceable. It is necessary to replace the heater assembly when an open thermostat is detected.

Both elements, heater1 and heater2, are controlled by relays on the control board. Heater1, rated at 1600 Watts, draws 6.8 amps at 240 VAC and has an approximate resistance value of 35.1 Ω . Heater2, rated at 600 Watts, draws 2.5 amps at 240 VAC and has an approximate resistance value of 35.1 Ω .

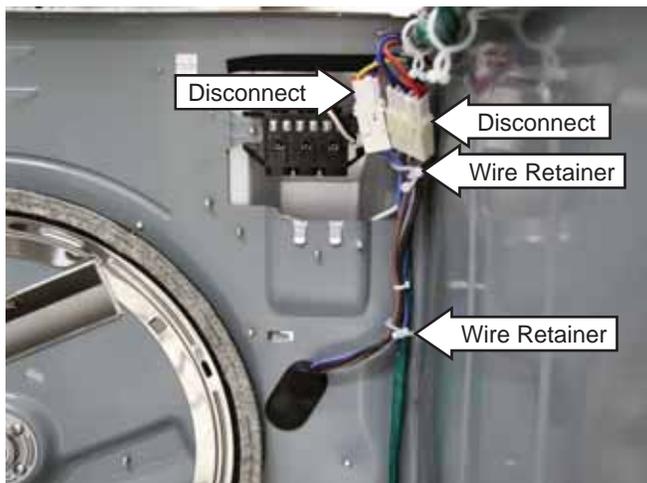
Both heaters can be checked from CN1 pin 1 (black) to RY6 (red) for the approximate resistance value of 130 Ω .

Operation of the heater assembly can be checked by using the service test mode. (See *Service Mode*.)

To access the heater assembly, it is necessary to remove the drum (See *Drum and Bearing*), and back cover. (See *Back Cover*.)

To remove the heater assembly:

1. Remove the drum. (See *Drum and Bearing*.)
2. Remove the back cover. (See *Back Cover*.)
3. Disconnect the two wire harnesses located inside the cabinet at the right rear top corner.
4. Remove the element assembly wiring from the 2 wire retainers.



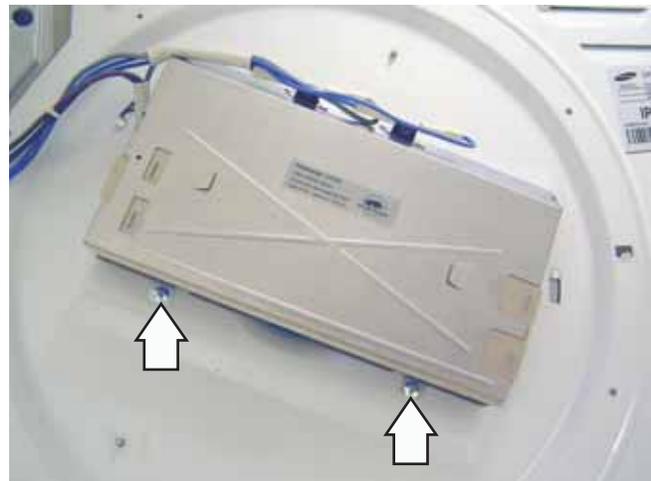
5. From the rear of the cabinet, peel back the wiring grommet from the wiring entry opening.



6. Pull the wiring thru the wiring entry opening.



7. Remove the 2 Phillips-head screws that attach the heater assembly to the back of the cabinet.



Inlet High Limit Thermostat

The inlet high limit thermostat is attached to the top of the heater assembly and located to the right of the inlet thermostat, as viewed from the back of the dryer. Two blue wires are connected to the inlet high limit thermostat. The thermostat monitors incoming air temperature.

If the thermostat reaches a temperature beyond its maximum temperature rating, it will trip and disable power to the motor.

The inlet high limit thermostat opens at 320°F (160°C) and will automatically reset at 266°F (130°C).

The inlet high limit thermostat is not available as a separate part. To replace the inlet high limit thermostat, it is necessary to replace the heater assembly. (See *Heater Assembly*.)

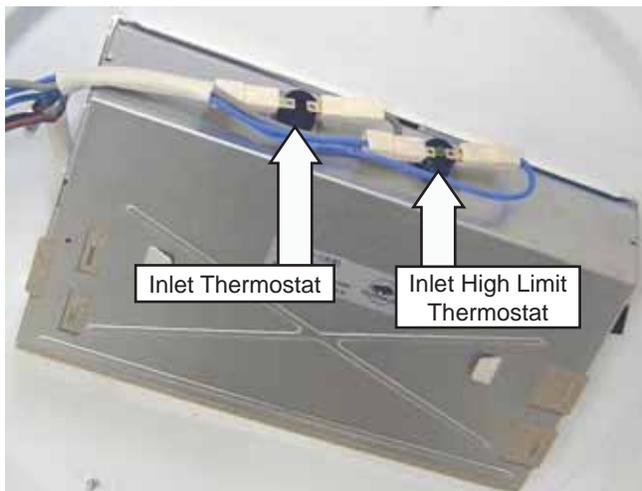
Inlet Thermostat

The inlet thermostat is attached to the top of the heater assembly and located to the left of the inlet high limit thermostat, as viewed from the back of the dryer. Two gray wires are connected to the inlet thermostat. The thermostat monitors incoming air temperature.

If the thermostat reaches a temperature beyond its maximum temperature rating, it will trip and disable power to the heaters.

The inlet thermostat opens at 203°F (95°C) and will automatically reset at 167°F (75°C).

The inlet thermostat is not available as a separate part. To replace the inlet thermostat, it is necessary to replace the heater assembly. (See *Heater Assembly*.)



Troubleshooting

Service Test Mode

The dryer control has a service test mode that can be utilized by the service technician in order to test critical components and to access error codes. This test mode will help the service technician to quickly identify failed or improperly operating dryer components.

To enter the test mode:	To exit the test mode:
<p>With the power connected but the power button off, within 3 seconds:</p> <ol style="list-style-type: none">1. Press the <i>SIGNAL</i> button.2. Press the <i>EXTEND TUMBLE</i> button.3. Press the <i>SIGNAL</i> button.4. Press the <i>EXTEND TUMBLE</i> button. <p>Upon entering the service mode, the control will be in test selection mode t01. Rotating the knob clockwise will increment the test numbers. Rotating the knob counterclockwise will decrement the test numbers. Scroll through the list of tests by rotating the knob CW or CCW.</p> <p>Once the desired test is highlighted, press <i>START/PAUSE</i> to begin the test.</p> <p>During a test, press <i>POWER</i> to terminate it and go back to test selection mode.</p>	<p>Press the <i>POWER</i> button during the test selection mode to exit the Service mode.</p> <p>Note: A dryer left in the test mode will exit the test mode after a period of approximately 15 minutes.</p>

The following tables shows the diagnostic tests and the button sequence that is required to perform them.

Service Test Mode		Sequence		Note
t01	Software Version	<i>START/PAUSE</i>	Displays software version number	
		<i>POWER</i>	Returns to service mode screen	
t02	Error Codes	<i>START/PAUSE</i>	Displays software version number	
		<i>START/PAUSE</i>	Clear highlighted error code from machine (During t02 test)	
		<i>POWER</i>	Returns to service mode screen	
t03	User Interface Test	<i>START/PAUSE</i>	LEDs light up	
		<i>Any button but POWER</i>	Hear beep as button is pressed (During t03 test)	
		<i>POWER</i>	Returns to service mode screen	
t04	Door Switch Test	<i>START/PAUSE</i>	Display shall show "d0" or "00".	"d0"; Door is open.
		<i>POWER</i>	Returns to service mode screen	"00"; Door is closed
t05	Dryer Motor Test	<i>START/PAUSE</i>	Dryer motor will rotate	"on"; motor rotate
		<i>POWER</i>	Returns to service mode screen	"d0"; Door is open
t06	Thermistor and 1600W Heater Test	<i>START/PAUSE</i>	Display temperature and dryer motor will rotate	The heater shall then be turned on for a maximum of 5 minutes.
		<i>POWER</i>	Returns to service mode screen	
t07	Thermistor and 600W Heater Test	<i>START/PAUSE</i>	Display temperature and dryer motor will rotate	The heater shall then be turned on for a maximum of 5 minutes.
		<i>POWER</i>	Returns to service mode screen	
t08	Moisture Sensor Test	<i>START/PAUSE</i>	Displayed the status of the touch sensors	Touch the sensor with hand "1"; be detected
		<i>POWER</i>	Returns to service mode screen	"0"; is not detected

Error Codes

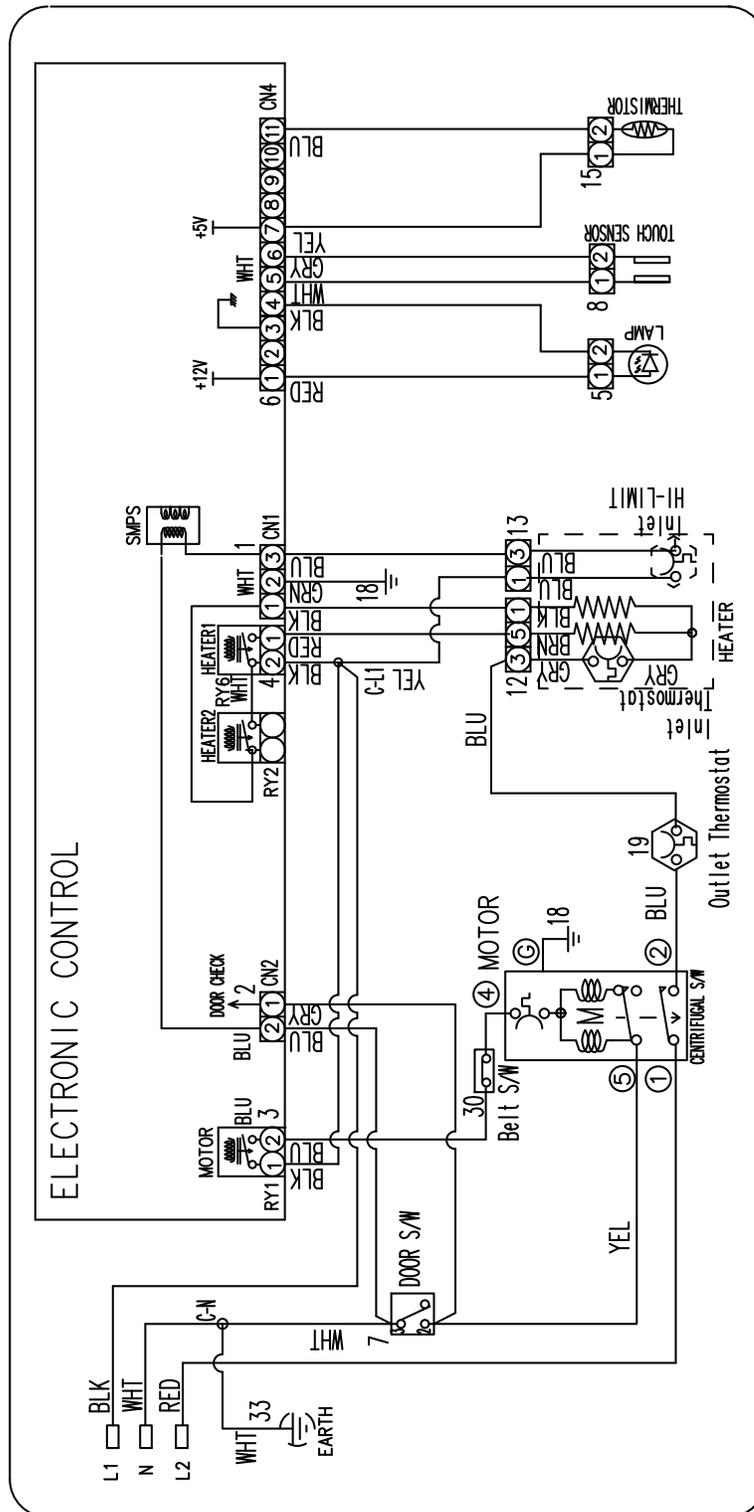
Error Code	Component, System, or Test	Description and Corrective Action
E00	No Error	There are no errors to display.
tS	Thermistor Short	Thermistor voltage is over 4.8 VDC for more than 5 seconds. Check the PCB, wire, and thermistor.
t0	Thermistor Open	Thermistor voltage is under 0.2 VDC for more than 5 seconds. Check the PCB, wire, and thermistor.
dE	Door Fail	Door interrupt voltage is continuously low level. Check the PCB.
od	Over Dry	The time of dry process and cooling process is over 240 minutes. Check the PCB.
HE	Heating Error	Heating temperature is over 75 degrees Celsius for more than 10 seconds. Check the PCB.
FE	Power Frequency Error	Power frequency is 50 Hz for more than 15 seconds. Check the power frequency and PCB.
bE2	Button Error	When button is continuously pressed for more than 30 seconds. Check the button and PCB.
3E1	Motor Relay Open	When the motor state is running, the control detects the higher motor signal within the 120 seconds. Check the PCB, wire, and motor.
3E2	Motor Relay Stuck	When the motor state is stop, the control detects the zero cross motor signal within the 60 seconds. Check the PCB, wire, and motor.

Schematics and Wiring Diagrams

Electric Model

WARNING: Disconnect electrical power before servicing.

Caution: Label all wires prior to disconnection. Wiring errors can cause improper and dangerous operation. Verify operation after servicing.



Warranty



All warranty service provided by our Factory Service Centers, or an authorized Customer Care® technician. To schedule service on-line, visit us at GEAppliances.com, or call 800.GE.CARES (800.432.2737).

Please have serial number and model number available when calling for service.

Staple your receipt here.
Proof of the original purchase date is needed to obtain service under the warranty.

For The Period Of: We Will Replace:

One Year

From the date of the original purchase

Any part of the dryer which fails due to a defect in materials or workmanship. During this **limited one-year warranty**, GE will also provide, **free of charge**, all labor and related service costs to replace the defective part.

What Is Not Covered (in the United States):

- Service trips to your home to teach you how to use the product.
- Improper installation, delivery or maintenance.
- Failure of the product if it is abused, misused or used for other than the intended purpose or used commercially.
- Replacement of the light bulb after its expected useful life.
- Replacement of house fuses or resetting of circuit breakers.
- Damage to the product caused by accident, fire, floods or acts of God.
- Incidental or consequential damage caused by possible defects with this appliance.
- Damage caused after delivery.
- Product not accessible to provide required service.

EXCLUSION OF IMPLIED WARRANTIES—Your sole and exclusive remedy is product repair as provided in this Limited Warranty. Any implied warranties, including the implied warranties of merchantability or fitness for a particular purpose, are limited to one year or the shortest period allowed by law.

This warranty is extended to the original purchaser and any succeeding owner for products purchased for home use within the USA. If the product is located in an area where service by a GE Authorized Servicer is not available, you may be responsible for a trip charge or you may be required to bring the product to an Authorized GE Service location for service. In Alaska, the warranty excludes the cost of shipping or service calls to your home.

Some states do not allow the exclusion or limitation of incidental or consequential damages. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. To know what your legal rights are, consult your local or state consumer affairs office or your state's Attorney General.

Warrantor: General Electric Company, Louisville, KY 40225