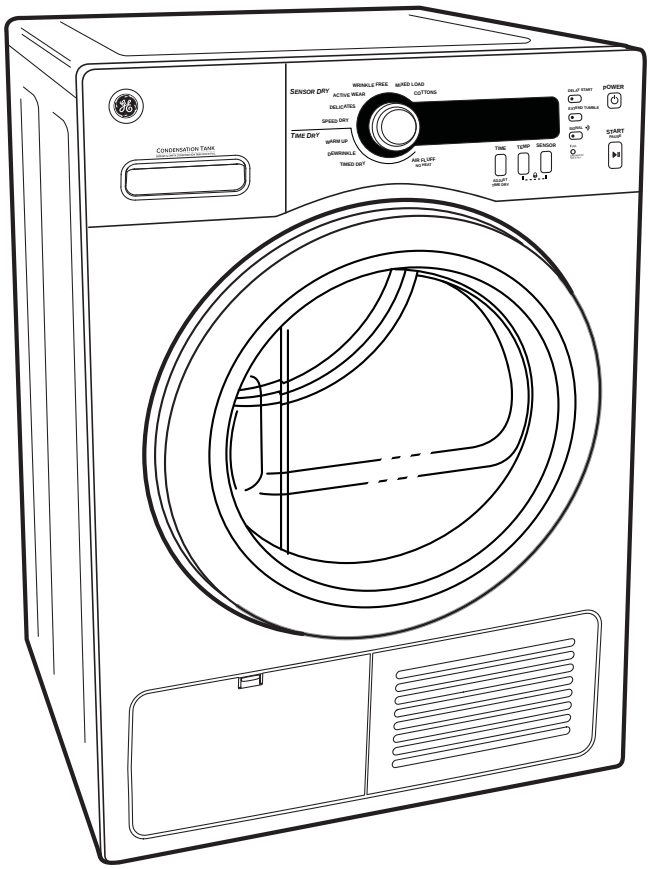
GE Appliances

Technical Service Guide

March 2011

24-in. Condenser Dryer

DCCH480EK
DCCH485EK



31-9213

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.

GE Consumer & Industrial
Technical Service Guide

Table of Contents

Introduction

The new GE 24-in. ventless condenser 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. condenser dryer, models DCCH480EK and DCCH485EK, can be installed on top of GE 24-in. HA washers, models WCVH4800K and WCVH4815K. Use stacking kit GE24STACK.

Nomenclature

D C C H 4 8 5 E K W W

Brand
D = General Electric

Configuration
C = Front Load

Product
C = Condenser Dryer

Key Feature

Series

Fuel
E = Electric

Model Year Designator
K = 2010

Color
WW = White
BB = Black

The nomenclature tag is located on the front panel inside the door.

Note: The technical sheet is located inside the control panel.

Serial Number

The first two characters of the serial number identify the month and year of manufacture.

Example: *FV123456S = March, 2011*

F - MAR	2011 - *V*
G - APR	2010 - T
H - MAY	2009 - S
L - JUN	2008 - R
M - JUL	2007 - M
R - AUG	2006 - L
S - SEP	2005 - H
T - OCT	2004 - G
V - NOV	2003 - F
Z - DEC	2002 - D
A - JAN	2001 - A
B - FEB	2000 - Z

The letter designating the year repeats every 12 years.

Example:
V - 2011
V - 1999
V - 1987

Control Features

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

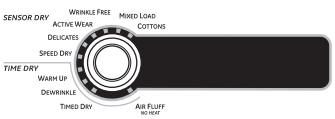
Throughout this manual, features and appearance may vary from your model.

Quick Start

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

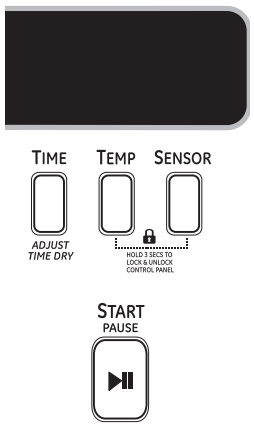
1. Press the *POWER* button.

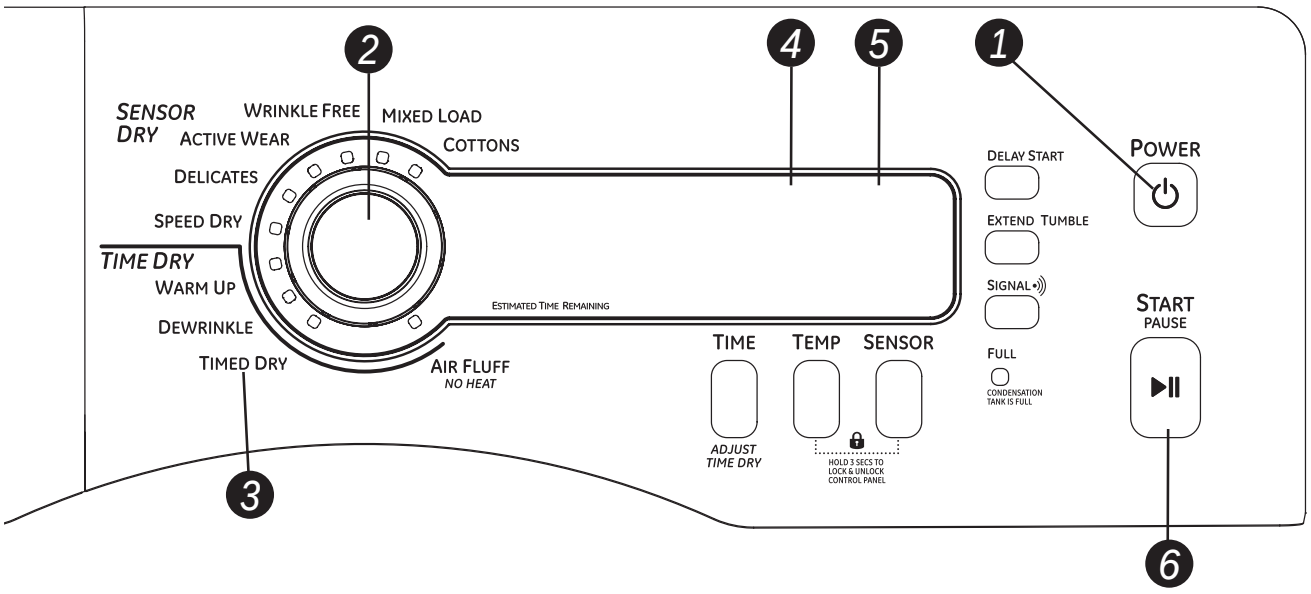
2. Select a cycle by turning the *Cycle* Knob.



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 Sensor Dry Cycle.

(*Continued Next Page*)

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. 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 *Tumble Dry Low*.
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.

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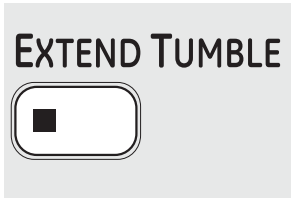
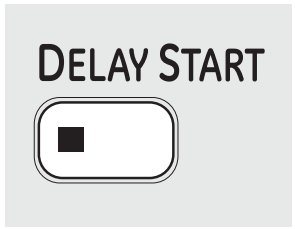


Extend Tumble

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.



Delay Start

Use to delay the start of your dryer.

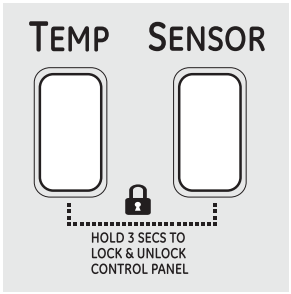
1. Choose your dry cycle and any options.
2. Press the *DELAY START* button. You can change the delay time in 1-hour increments (up to 18 hours) each time you press the *DELAY START* button. Stop pressing the button when your desired time is displayed.
3. Press the *START/PAUSE* button to start the countdown.

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.

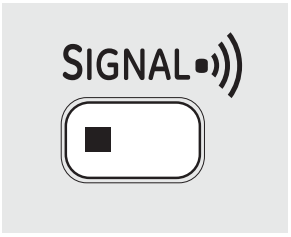
Children cannot accidentally start the dryer by touching pads with this option selected.

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.

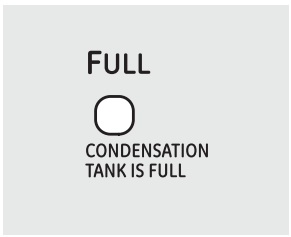
NOTE: The POWER button can still be used when the machine is locked.



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.



Tank Full Indicator

When the light is "on," you must empty the tank before continuing use of the dryer.

Remove the tank and empty the water. Replace the tank and clear the warning light. (See page 11)

NOTE: The dryer will not operate until the tank is emptied and the warning has been cleared.

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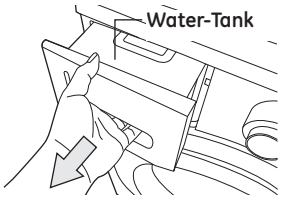
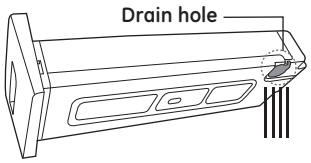
Emptying the Water Tank



1. Pull out the water tank.

⚠ CAUTION: *When removing the Water tank from the product, hold it using both hands as it is heavy and take care not to spill any water inside the tank.*

2. Remove the condensed water inside the water-tank.
• Remove the condensed water in the tank after every drying cycle.

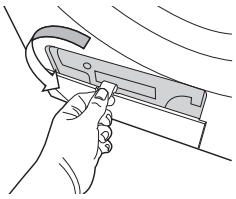


⚠ WARNING: *Since there is a chance of water leaking if you do not drain the water after using the product, make sure to drain the water.*

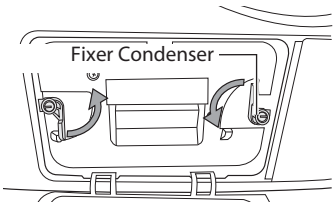
NOTE: *When the Tank Full indicator light is "on",* the dryer will not operate until the tank is emptied and the warning has been cleared. Press the ***START*** button and the indicator light will turn off and the dryer will resume the cycle.

Cleaning the Condenser

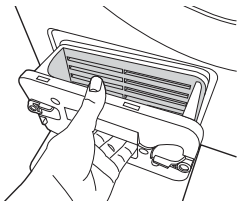
Important: The condenser should be cleaned once a month.



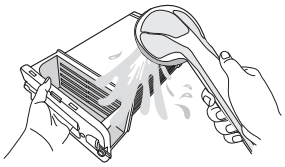
1. Open the condenser compartment cover.



2. Unlock the fixer condenser.



3. Remove the condenser.



4. Clean the condenser completely by allowing tap water to flow through it.

NOTES:

• Make sure to clean your condenser once per month to prevent degradation of the dryer's performance.

• When assembling the condenser after cleaning it, make sure the fixer condenser is set to the lock position.

Location of the Dryer

BATHROOM OR BEDROOM INSTALLATION

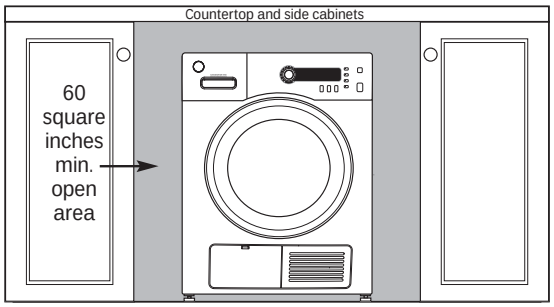
- The installation must conform with local codes or, in the absence of local codes, with the NATIONAL ELECTRICAL CODE, ANSI/NFPA NO. 70 (for electric dryers) or NATIONAL FUEL GAS CODE, ANSI Z223 (for gas dryers).

UNDERCOUNTER INSTALLATION

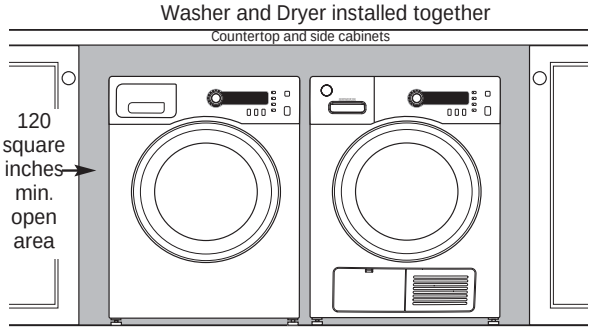
If an undercounter installation is desired:

- No special dryer installation kit is required.
- If the dryer is installed alone, a minimum of 60 square inches of open area is required. If a washer and dryer are installed together, a minimum of 120 square inches of open area is required.

Dryer installed alone



Washer and Dryer installed together



MOBILE OR MANUFACTURED HOME INSTALLATION

- The installation must conform to the MANUFACTURED HOME CONSTRUCTION & SAFETY STANDARD, TITLE 24, PART 32–80 or, when such standard is not applicable, with AMERICAN NATIONAL STANDARD FOR MOBILE HOME, NO. 501B.
- Provide an opening with a free area of at least 25 sq. in. for introduction of outside air into the dryer room.

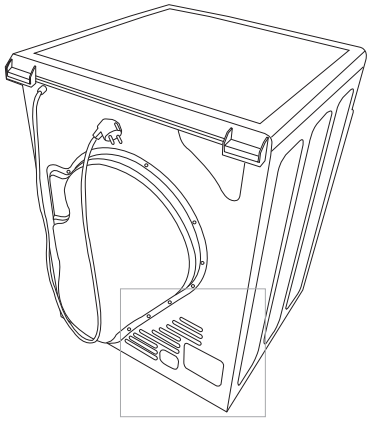
Connecting the Drain Hose

DRAINING WATER WITHOUT USING THE WATER TANK

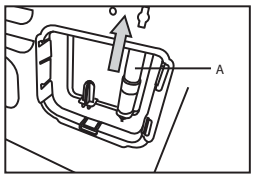
You can use the dryer without using the water tank by following the procedures below.

CONNECTING THE DRAIN HOSE

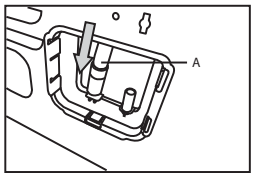
The Dryer can pump the condensed water outside of the DRYER directly with drain hose provide.
The procedures to connect the drain hose are as follows.



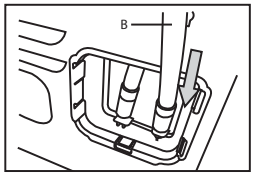
1. Disconnect the drain hose **A**.



2. Connect the drain hose **A** to the other hole.



3. Connect accessory hose **B** (long drain hose) adjacent to hose **A**.



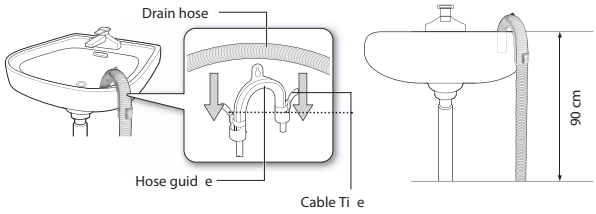
⚠ CAUTION:

❒ When connecting hose **B**, take care that the height of the hose does not exceed 4 ft.

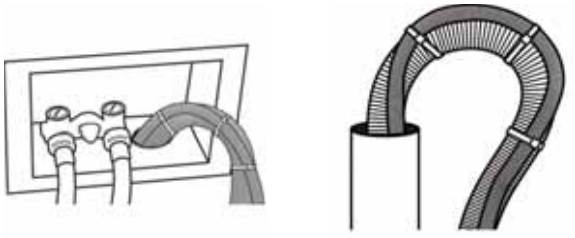
❒ After connecting the drain hose, you can now directly drain the condensed water to a standpipe or washstand.

CONNECTING THE DRAIN HOSE (CONT.)

1. Over the edge of a wash basin: The drain hose must be placed lower than 4 ft. If the end of the drain hose needs to be placed above the ground, we recommend a height of 3 - 4 ft. To keep the drain hose spout bent, use the supplied plastic hose guide. Secure the guide to the wall with a hook or to the tap with a piece of string to prevent the drain hose from moving.)



2. Assemble the drain hose and the hose guide and fix them with the cable-tie.



1. Into a standpipe: If no washer hose is present, follow wash basin instructions. If washer hose is present, use the provided wire ties to secure dryer drain hose to the washer drain hose.
2. Once secured, place hose (or hoses) into standpipe as shown.

Reversing the Door Swing

Important Notes:

- Read the instructions all the way thru 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 

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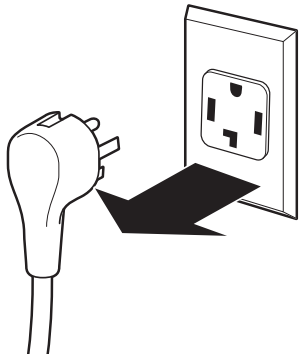
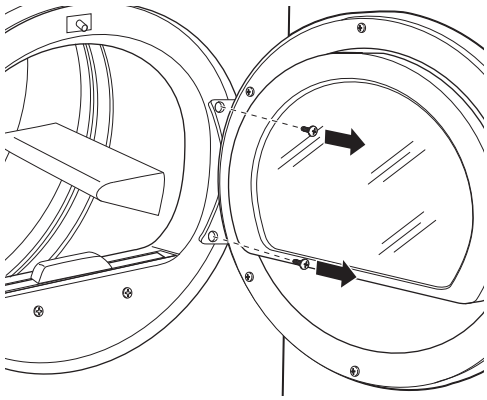
To reverse the door swing:

1. Unplug the dryer from its electrical outlet.

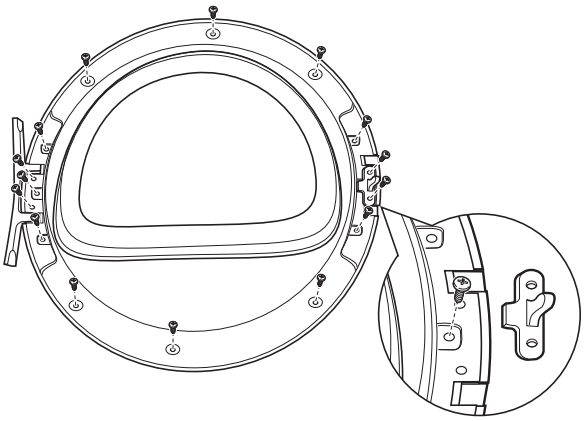


2. Remove the hinge bracket anchoring screws.

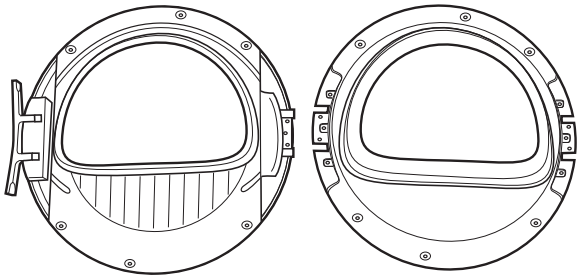


3. Slide door and hinge assembly upward, and then remove the assembly from the dryer front panel.

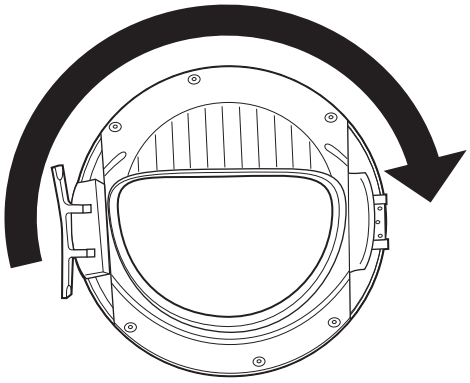
4. Remove 16 door screws and male end of latch from the inner side of the door.



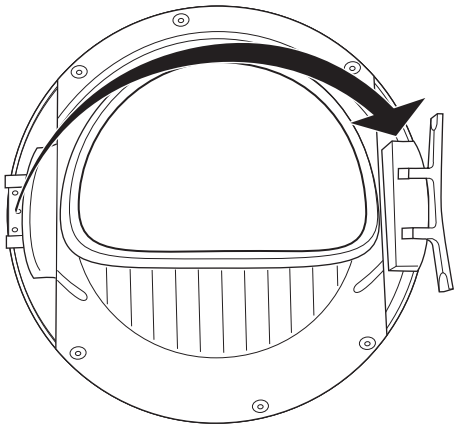
5. Remove the inner face.



6. Lift and rotate the window assembly 180° and place it back into the assembly. Also rotate the inner face 180 degrees and place it into the assembly.



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



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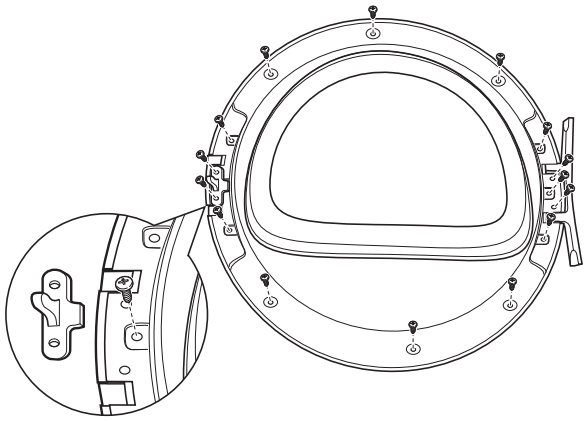
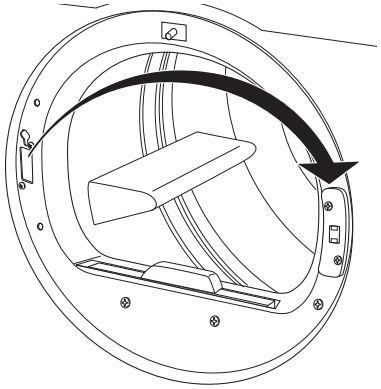
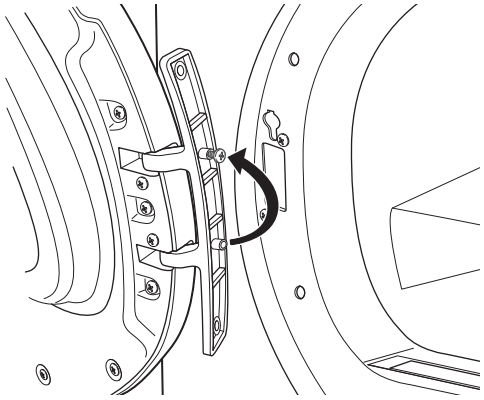
8. Replace all door screws that were removed.



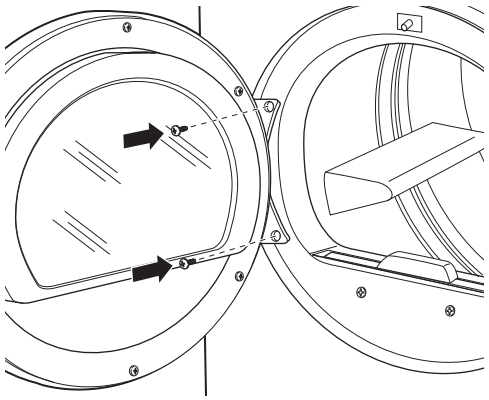
9. Remove the female end of the latch from the front panel of the dryer, rotate 180 degrees, and place it into the assembly on the opposite side.

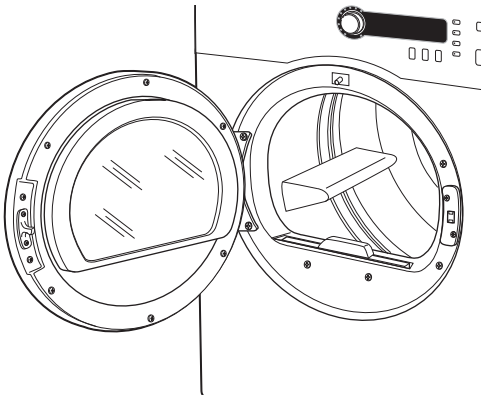


10. Move the mounting screw to the upper screw hole position on the hinge so that the door can be set on the cabinet during final installation.



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





Stacking Instructions

The GE dryer is designed to allow placement (stacking) on top of certain GE front-loading 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.

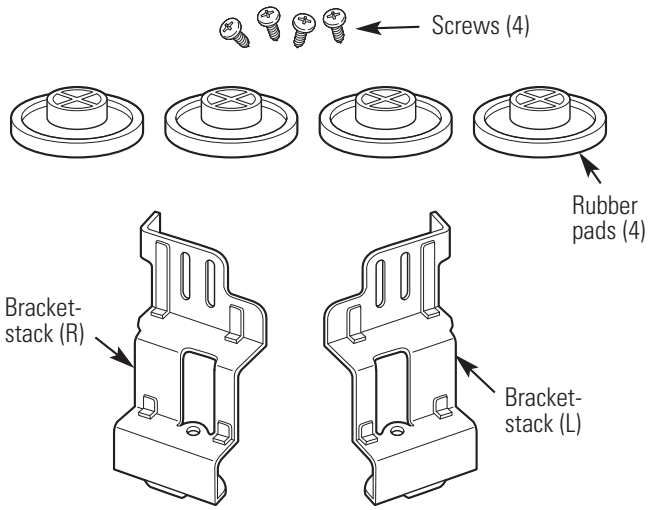
Note: Your dryer is approved for installation in an alcove or a closet, as stated on a label on the dryer back.

When installed in an alcove or closet:

- 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.

(*Continued Next Page*)

Kit Contents (GE Kit #GE24STACK)



Tools Needed

Phillips-head Screwdriver

Level

Gloves

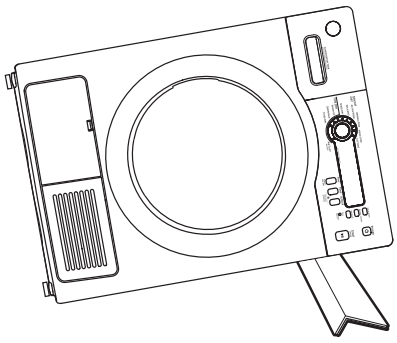
Installation Preparation

Remove the packaging.

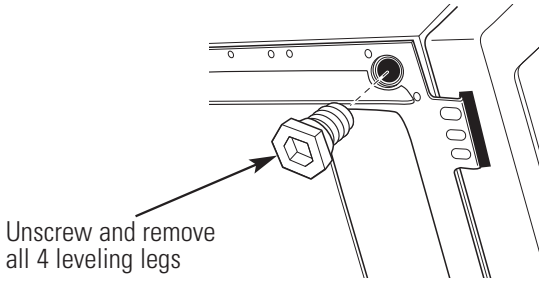
Flatten the product carton to use as a pad to lay the dryer down on its side. Continue using the carton to protect the finished floor in front of the installation location.

Installing the Stack Bracket Kit

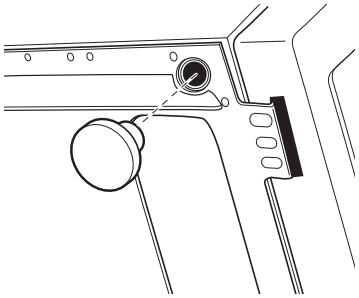
1. Carefully lay the dryer on its side. Use the packing material so you don't scratch the finish on the dryer.



2. Remove the dryer leveling legs.



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



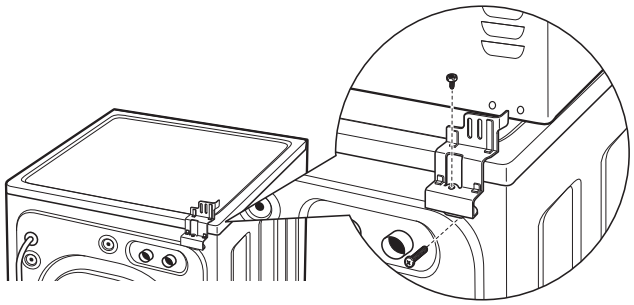
4. Set the dryer upright.

(Continued Next Page)

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 thru the bracket into the rear of the washer.

7. Repeat the above steps with the right side.

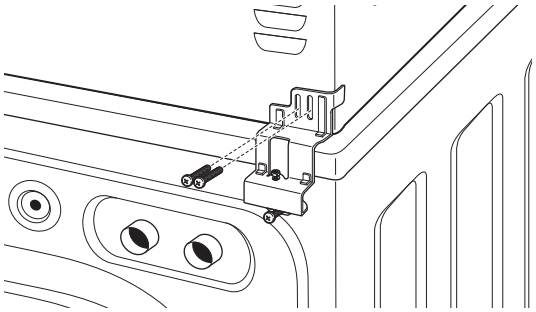


8. Lift the dryer on top of the washer. Protect the washer control panel with cardboard or other protection. Be sure to lift the dryer high enough to clear the washer control panel.

WARNING – Potential Personal Injury. More than 2 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-in. tapping screws.

10. Tighten the dryer bracket screws and then tighten all stacking kit screws.

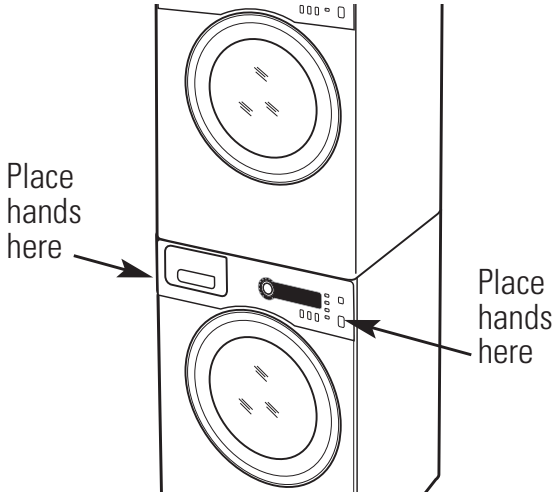


11. Refer to the washer Installation Instructions to complete the washer installation.

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 devices 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

Characteristics of a Condenser Dryer

A condenser clothes dryer is a machine that looks just like a conventional tumble clothes dryer, but does not require an external vent. For the consumer, operation of both types of dryers is essentially the same - the difference is in the internal design.

In a vented clothes dryer, air is drawn from the surrounding area (i.e. the laundry room), then heated and blown thru the clothes as the drum tumbles them about. This hot air evaporates some of the water in the damp fabrics, and the resultant moisture-laden air is then exhausted thru a vent duct to the outside.

In a condenser dryer, there are two separate "loops". The inside "loop" of air is sealed from the outside environment - air from within the drum is heated, and then blown thru the tumbling clothes. The moisture-laden air is passed thru a “condenser”, where the water re-condenses.

Some condenser dryer models are air-cooled. They use the ambient room air as a heat sink by blowing it across the outside of the condenser. These dryers tend to heat the indoor air in one's laundry room significantly. Note however that ONLY heat is released – all MOISTURE is contained within the unit. The condensed water can be either pumped away to a drain line (e.g. into a standpipe shared with the clothes washer) or stored in a container within the dryer to be emptied later.

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 a specified temperature (cool down).
9. The display turns off.

Temperature Control

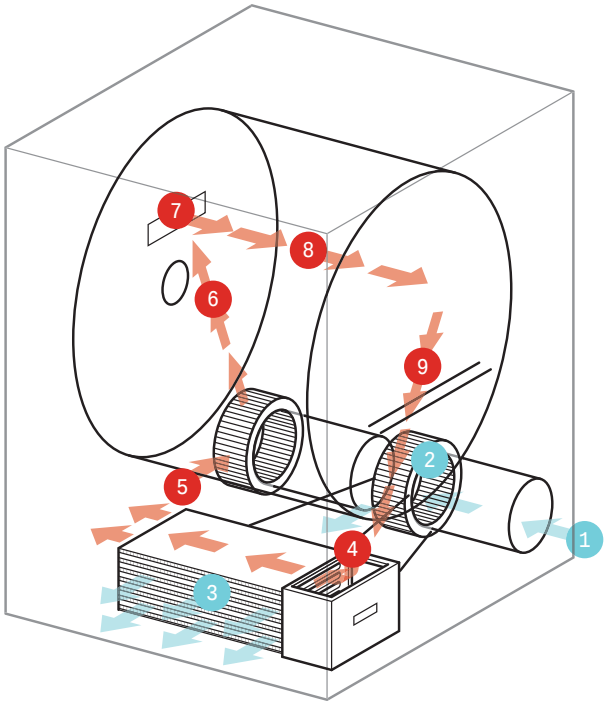
Overall heater temperature is regulated by means of an inlet thermistor, located above the heater assembly, and an outlet thermistor, located below the lint filter.

Two safety thermostats are located on top of the heater assembly. The auto reset thermostat opens at 212°F (100°C) and closes at 176°F (80°C). If the auto reset thermostat reaches a temperature beyond its maximum temperature rating, it will cut power to the heating elements.

The manual reset thermostat opens at 293°F (145°C) and can only be closed manually. If the manual reset thermostat reaches a temperature beyond its maximum temperature rating, it will cut power to the heating elements and the control board, thereby terminating dryer operation.

Airflow

AIR FLOW AND SEALS



Proper air flow thru the dryer is essential for normal operation of the temperature control and safety systems. There are two separate air flows in the dryer: the enclosed process air and the cooling (ambient) air.

The ambient air is drawn thru louvers at the front of the unit (1) by the front blower wheel (2) and then flows over the condenser (3) cooling the process air. The ambient air then exits the dryer thru louvers in the back of the dryer.

The process air is pulled thru the condenser (4) by the rear blower wheel (5) and travels up the rear channel (6) to the electric heater (7) where it is warmed up and drawn into the drum (8) thru a diffuser. The heated process air dries the clothes and then flows thru the lint filter (9) and into the condenser (4), where it is cooled down and the moisture condensed out.

The same dry air is then reheated, where it is again blown thru the drum and clothes, and the cycle begins again (this is a more-or-less continuous process).

If the ambient air flow is restricted in anyway, it will decrease the performance of the condenser and significantly increase drying times.

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

The temperature of the process 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 thru the lint filter, where lint is screened by the filter, and enters the condenser. The moisture is condensed and the warm air cycles thru the drum again.

Any air leaks in the enclosed system will result in improper temperatures.

Ambient air loop

Process air loop

Cooling air
Intake from ambient

Process air is reheated

Heater & duct

Moves ambient air

Cooling Air Fan

Process Air Fan

Moves process air

Drum

Cool air from room is warmed in condenser by extracting heat from processed air

Condenser

Processed air is cooled by transferring heat to ambient air. In the process of removing heat, water vapor is condensed and is captured in the tank.

Air absorbs the moisture from clothes

Filter & duct

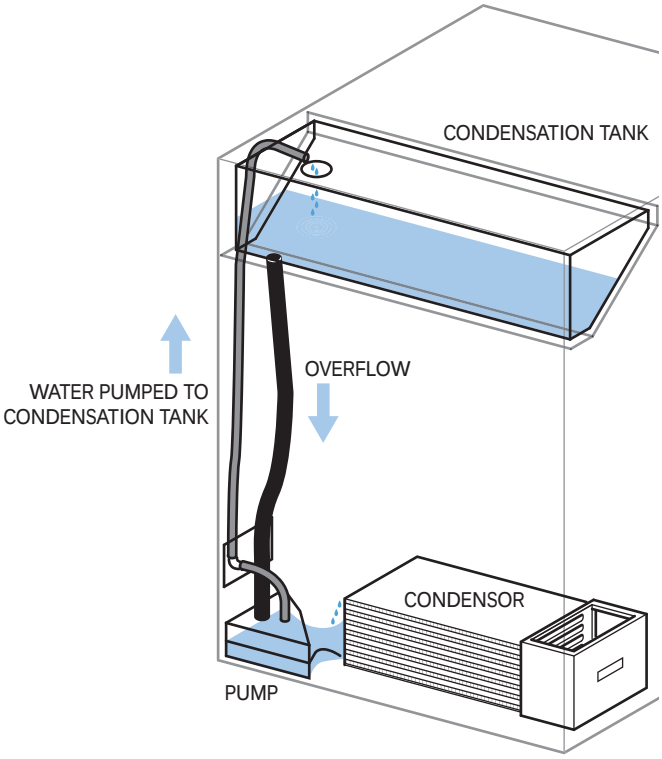
Warm air exhausted to ambient

Filters lint from air

Condensation

WATER COLLECTION AND REMOVAL

The moisture collected in the condenser area flows to the pump area. The condensed water can either be pumped away to a drain line (e.g., into a standpipe shared with the clothes washer) or stored in a container within the dryer to be emptied later. (See *Connecting the Drain Line*.) Regardless of the configuration, the pump and float work the same way.



Water Pumped to the Condensation Tank

As water collects in the pump area, the float switch is activated and pumps the water thru the grey hose up to the condensation tank. The white collar on the float switch is magnetic. As it rises, it trips the contacts in the switch to send a signal to the control board to activate the pump.

Once the condensation tank is full, the machine will pause and the ***Tank Full*** LED light will illuminate.

If the condensation tank overfills, water will travel down the black overflow hose to the pump area and trigger the float switch. An overfill condition triggered by the float switch will cause the pump to run for 20 seconds. After 4 attempts, if the overfill is not cleared, the machine will pause and the ***Tank Full*** LED light will illuminate.

The user can press the *START/PAUSE* button to repeat the above overfill process. This can be done unlimited times as long as the overfill condition still exists.

Under normal conditions, the pump will run for 20 seconds at the beginning of a cycle and 20 seconds at the end of a cycle, or if excess water accumulates in the sump area.

Component Locator Views

Front view

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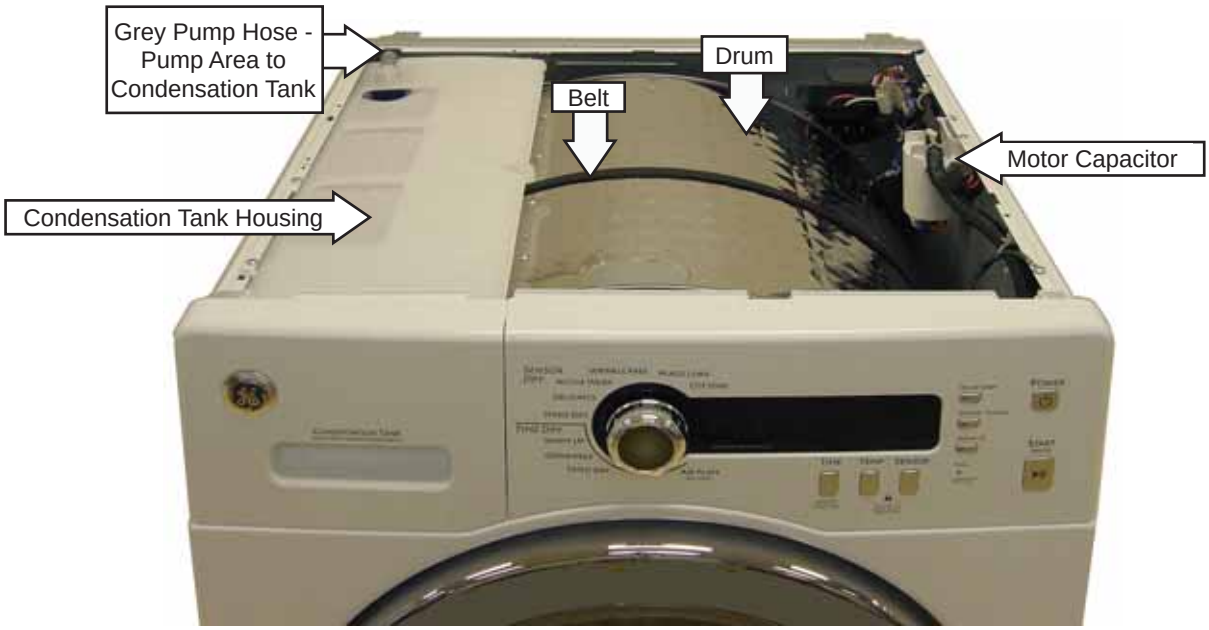
Top view



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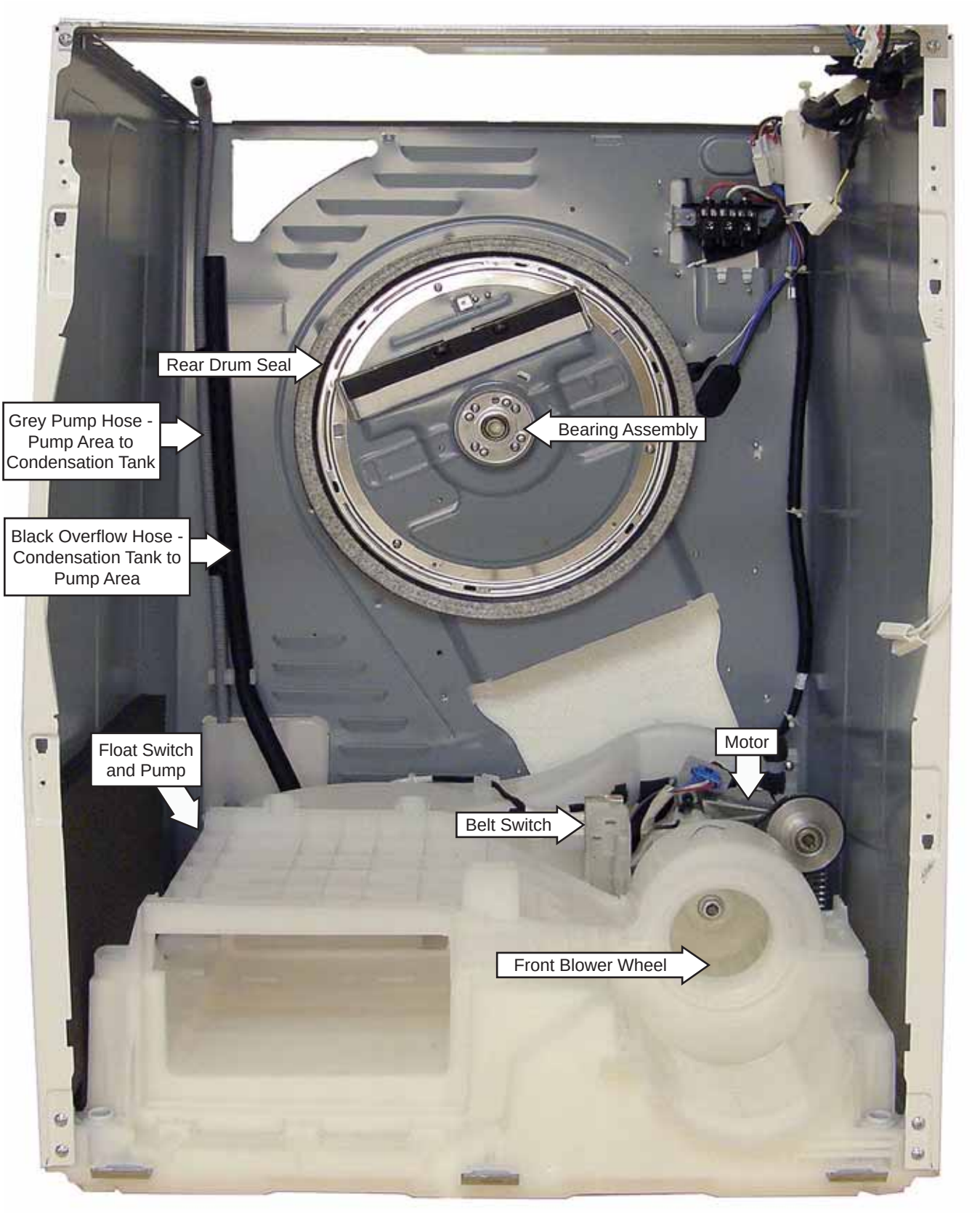
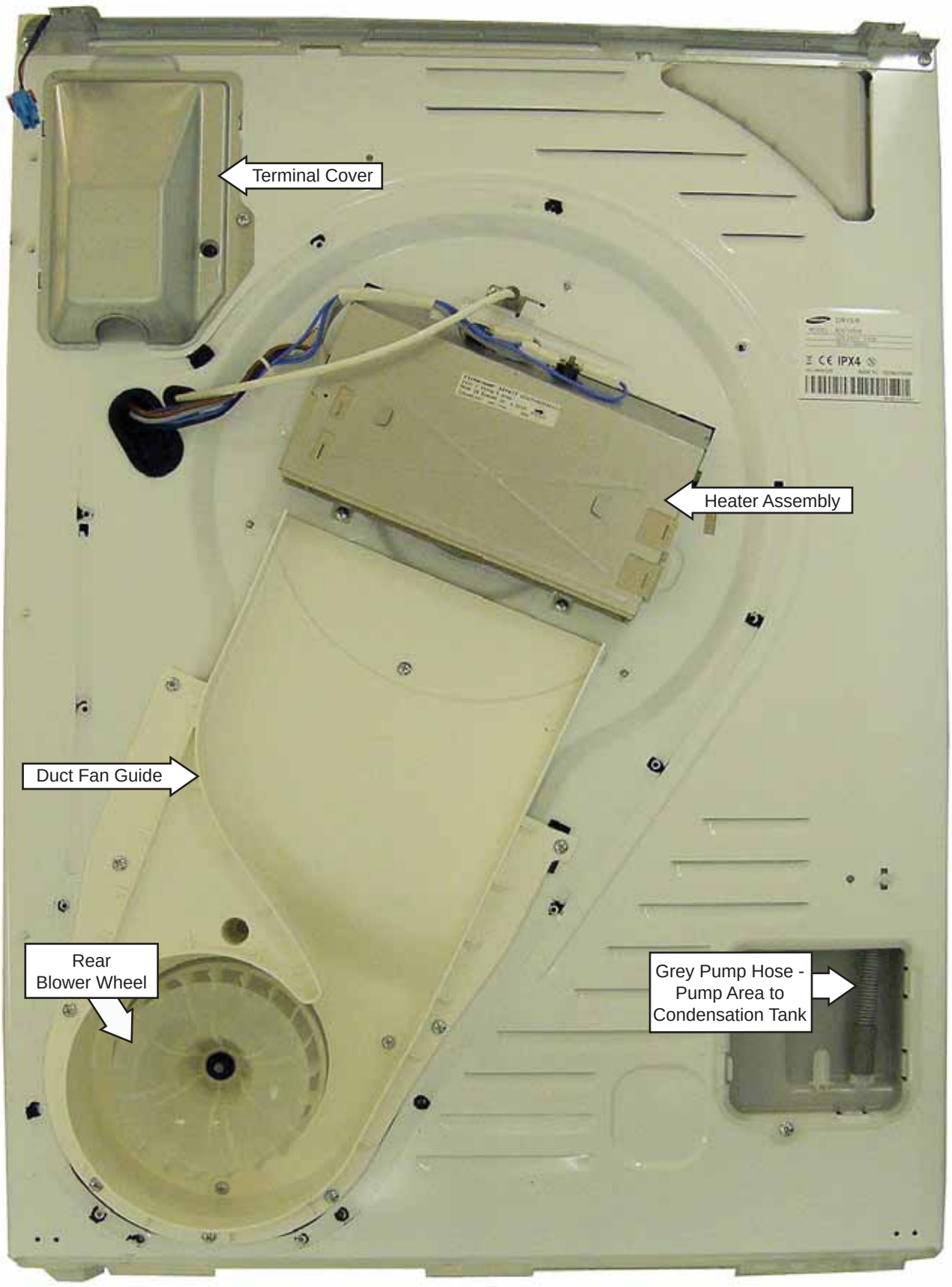
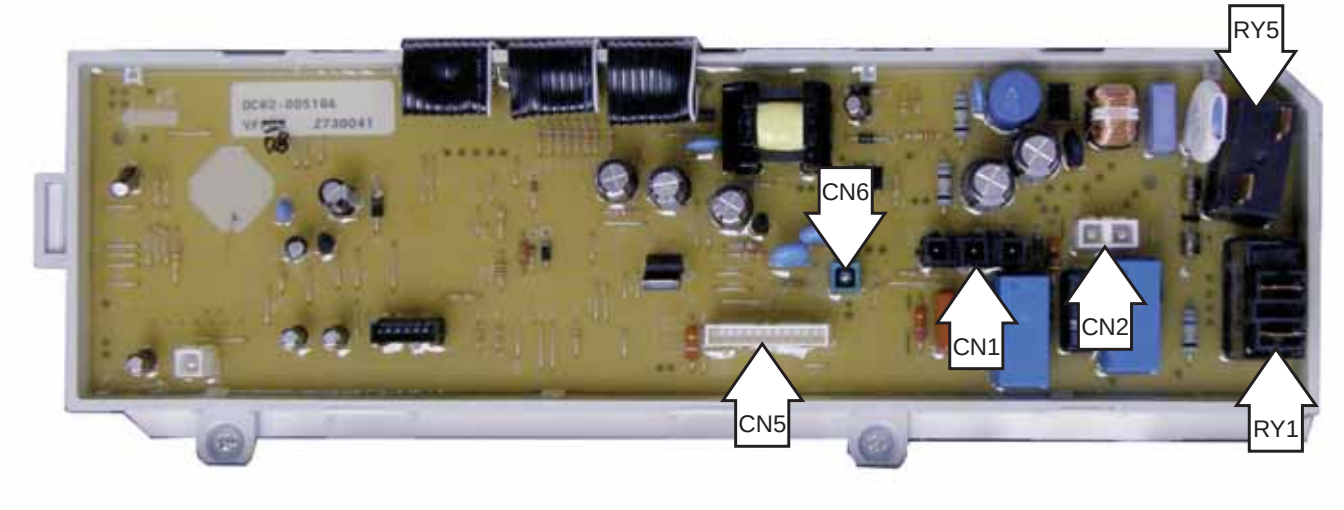
Front view - cabinet interior



Rear view - duct cover removed



Control Board Connections



CN1 - Motor, Belt Switch, Manual Reset Thermostat

CN2 - Condensate Pump, Heater 2

CN5 - DC output to Door Switch, Lamp, Moisture Sensor, Water Level (Front Switch), Inlet Thermistor, Outlet Thermistor

CN6 - Neutral

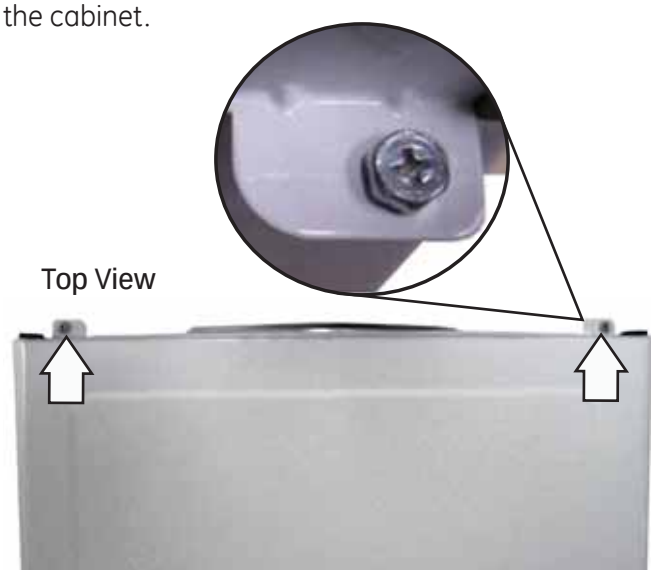
RY1 - Power Relay

RY5 - Heater 1 Relay

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, and then lifted to disengage it from the cabinet.



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.

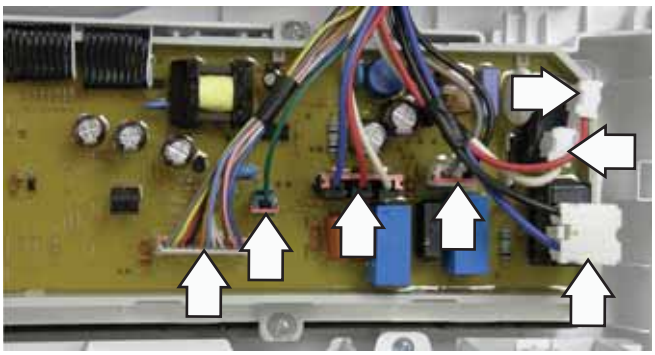
To remove the control panel:

1. Remove the top panel. (See *Top Cover*.)
2. Pull to remove the condensation tank.
3. Remove the 2 Phillips-head screws that attach the top of the control panel to the top brace.

3. Remove the 2 Phillips-head screws that attach the front of the control panel to the cabinet front.

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

5. Disconnect the control panel wires and harnesses.



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.

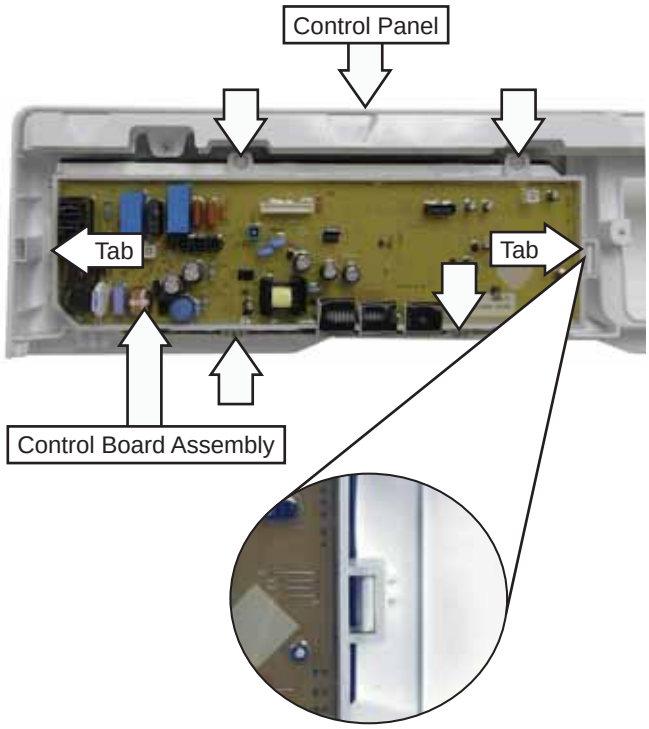
The control will shut down 15 minutes after the last button press or the end of the cycle.

To remove the control board:

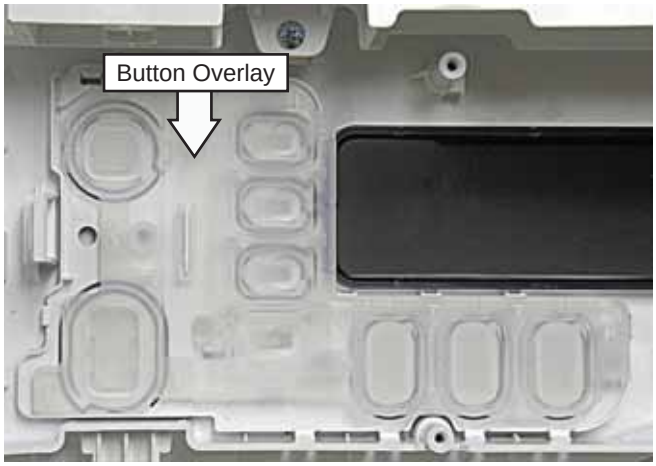
1. Remove the control panel. (See ***Control Panel***.)
2. Pull the cycle knob off. Note the alignment of the "D" shaft when installing the knob.
3. Place the control panel face down on a protective surface.
4. Remove the 4 Phillips-head screws that attach the control board assembly to the control panel.
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 Test Mode***.)

Specific failures associated with the control board can initiate error codes tE2, tE4, dE, od, HE, HE4, bE2, 3E1, 3E2, and 5E. (See ***Error Codes***.)

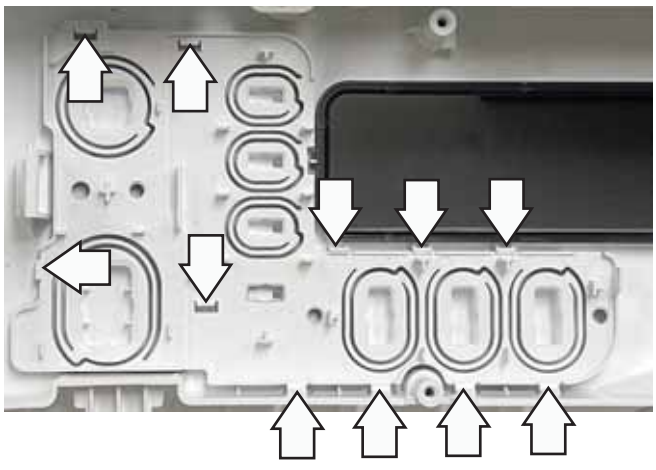


Note: In the next step, the button overlay is inserted into the rear of the buttons on the control panel.



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

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



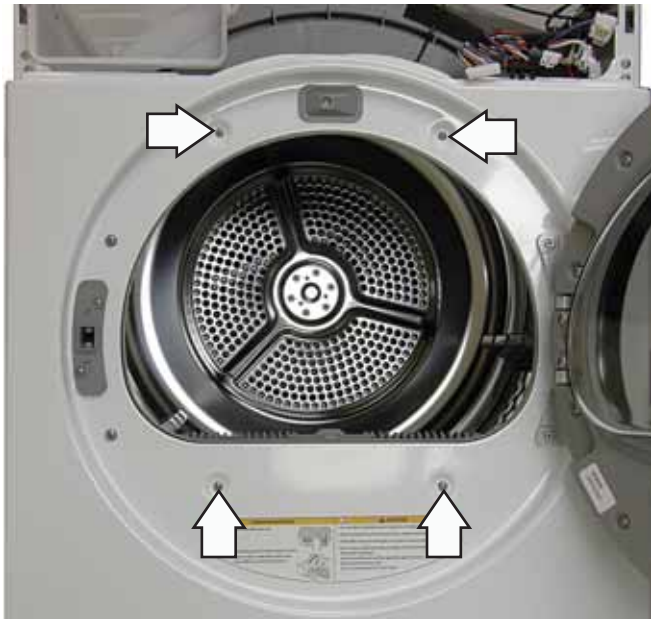
Front Panel

Removal of the front panel provides access to the drum support and front blower wheel. The front panel is inserted into 3 hooks attached to the bottom of the cabinet and held in place with 8 Phillips-head screws. The door switch is attached to the front panel.

To remove the front panel:

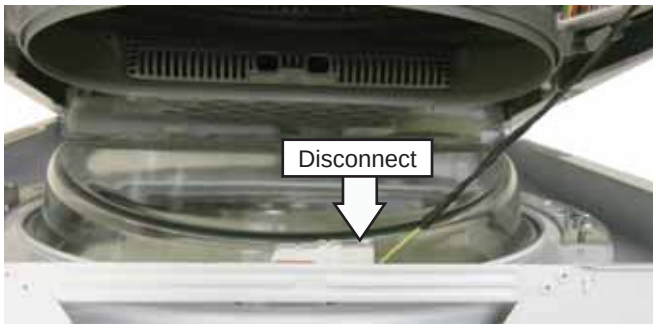
1. Remove the top panel. (See ***Top Panel***.)
2. Remove the control panel. (See ***Control Panel***.)
3. Open the condenser access panel, and then remove the access panel from the front panel by sliding to the left or right and then lifting up.

4. Open the door, and then remove the 2 Phillips-head screws located in front of the lint filter and the 2 Phillips-head screws located above the door opening.



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

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



7. Tilt the panel forward, and then lift the front panel off of the cabinet.

Door Switch

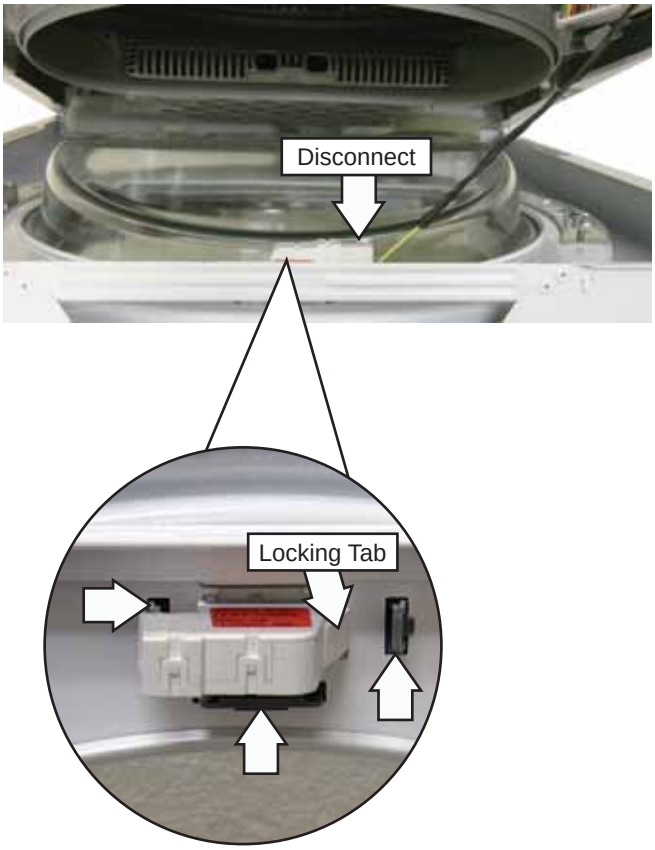
The door switch is fastened to the front panel by 2 locking tabs. A grey housing covers the door switch and needs to be removed before the switch can be removed. When the dryer door is closed, the switch will complete the motor circuit, allowing dryer operation. When the door is open, the switch will open the motor circuit, interrupting dryer operation.

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

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

To remove the door switch:

1. Tilt the front panel forward. (See ***Front Panel***.)
2. Disconnect the door switch wire harness.
3. Press three tabs on the grey housing and pull housing from the front panel.
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.

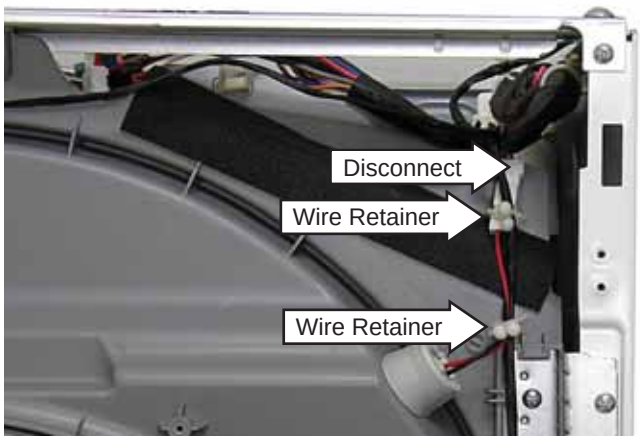
View inside drum support

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 approximately 12 VDC at the disconnected lamp harness. A connected harness and operable LEDs will measure approximately 7 VDC.

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.



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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.

Outlet Thermistor

The outlet thermistor is located on the drum support. 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.

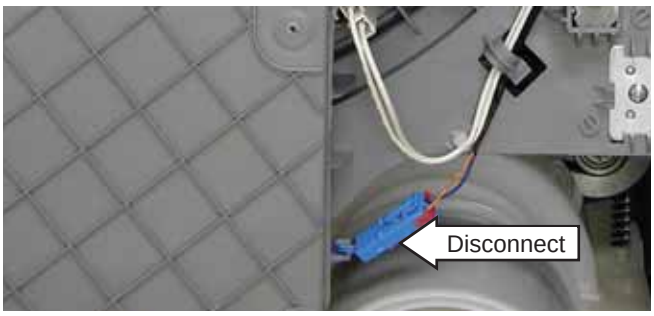
The thermistor has an approximate resistance value of:

- 12 - 13K Ω at 140°F
- 24 - 29K Ω at 104°F
- 55 - 69K Ω at 68°F

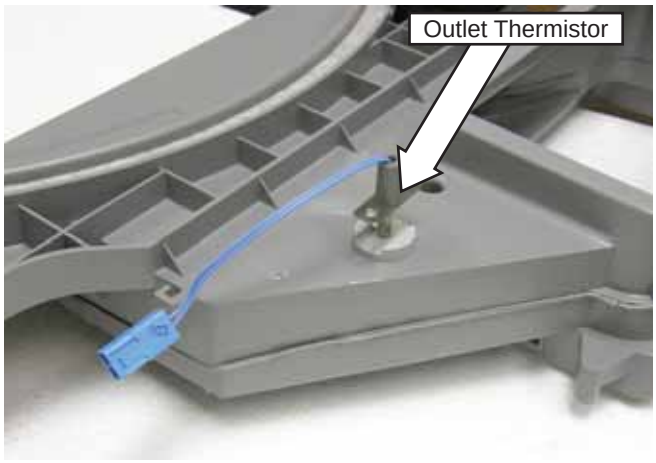
Operation of the thermistor can be checked by using the service test mode. (See ***Service Test Mode***.)

Specific failures associated with the outlet thermistor can initiate error codes tE4 and od. (See ***Error Codes***.)

To access the outlet thermistor, it is necessary to remove the front panel. (See ***Front Panel***.) Disconnect the wire harness and pull the thermistor from the drum support.



Note: The thermistor fits in a rubber grommet that is attached to the drum support. If unable to reach the thermistor for removal, it may be necessary to remove the drum support. (See ***Drum Support***.)



Drum support removed for clarity

Drum Support Assembly

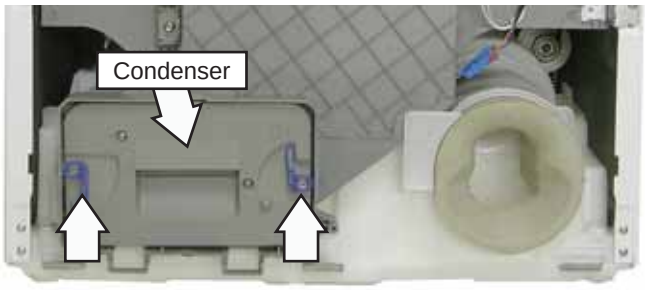
The drum support assembly houses the lint filter, drum lamp, outlet thermistor, and drum rollers. It is located behind the front panel.

The drum support is attached to the cabinet with 4 Phillips-head screws and 4 hooks that engage 4 cutouts in the cabinet. There are also 3 Phillips-head screws under the condenser that secure the drum support to 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 cover, control panel, and front panels. (See ***Top Cover***, ***Control Panel***, and ***Front Panel***.)
2. Turn two latches on the condenser to the unlocked position and slide the condenser from the dryer.

Note: The access door will not close properly with the latches in the unlocked position.



Latches shown in locked position

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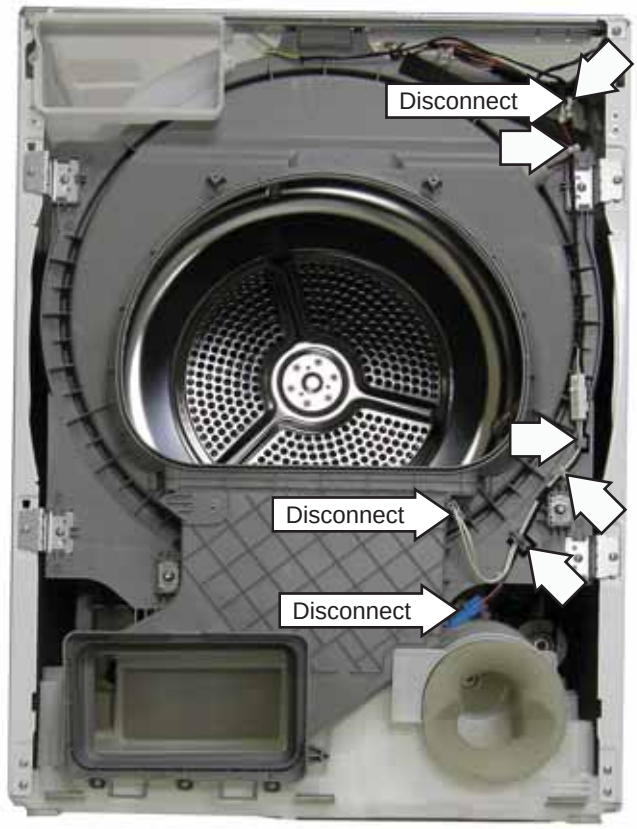
3. Slide the foam air diverter and front air cover forward to remove from the dryer.

4. Disconnect the drum lamp, outlet thermistor, and touch sensor wire harness and remove it from the 5 wire retainers.



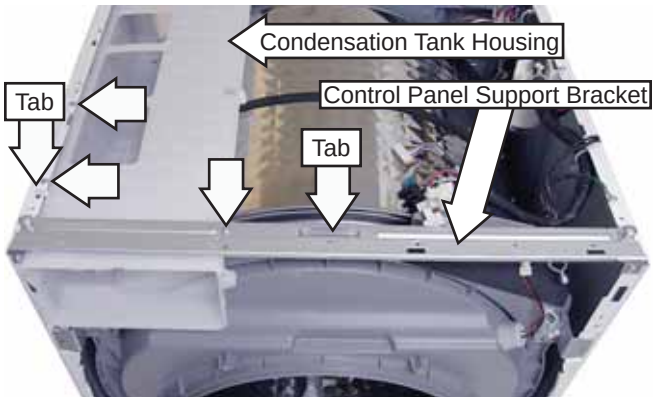
5. Position the wire harness out of the way.

6. Remove the 3 Phillips-head screws under the condenser that secure the drum support to the cabinet.

7. Remove the 4 Phillips-head screws that attach the drum support to the cabinet.

8. Remove the 3 Phillips-head screws that secure the condensation tank housing to the cabinet, and then pull and twist the housing forward slightly until the housing tab is free from the frame.

9. Lift the drum support up, pull the bottom out, and then disengage the drum support tab from the control panel support bracket.



Touch Sensors

The touch sensor consists of 2 sensors permanently attached to the drum support.

Note: The 2 touch sensors in the drum support are not replaceable. To replace the sensors, replace the drum support.

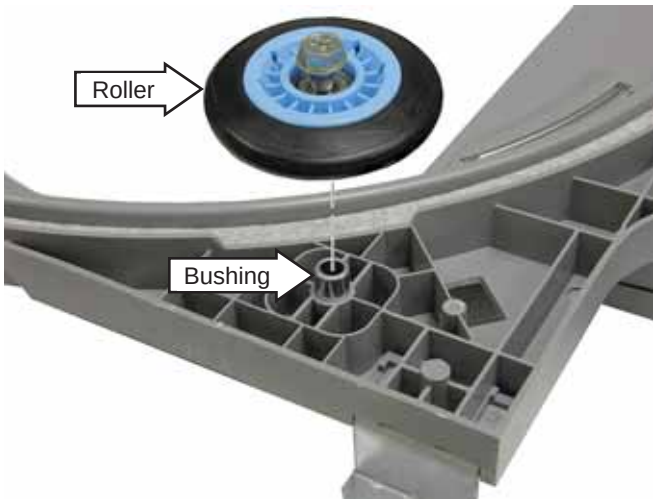
The sensors are connected to the main control board. The sensors are spaced approximately 1/2-in. apart, creating an open circuit to the control.

- 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. This low resistance 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.

Drum Rollers

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

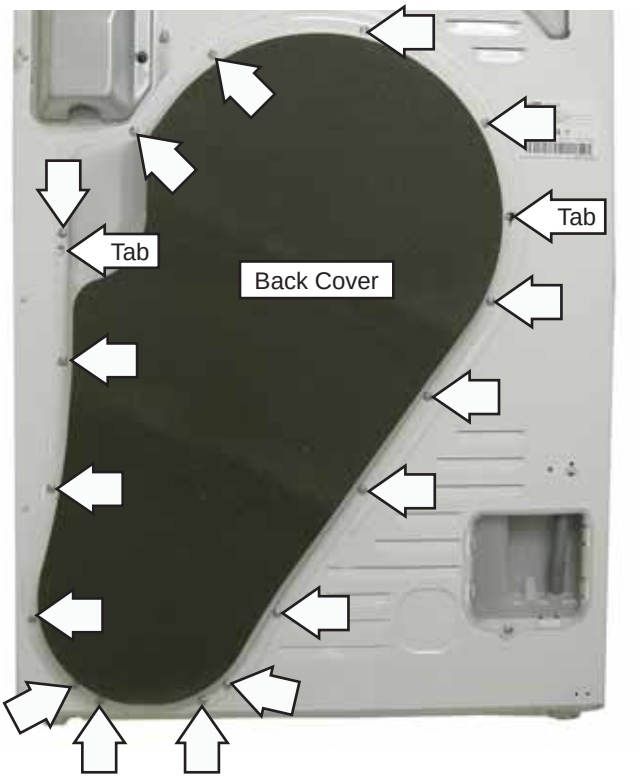
The rollers can be replaced by removing the drum support. (See ***Drum Support Assembly***.) Each roller is part of an assembly that consists of a roller, 1/2-in. hex-head screw, and a bushing.



Back Cover

It is necessary to remove the back cover to access the heater assembly, inlet thermistor, manual reset thermostat, and rear blower wheel.

The cover is attached to the back of the cabinet with 16 Phillips-head screws and 2 slots that engage 2 tabs on the cabinet.



Condensate Pump

The moisture collected in the condenser area flows to the pump area. The condensed water can either be pumped away to a drain line (e.g. into a standpipe shared with the clothes washer) or stored in a container within the dryer to be emptied later. Regardless of the configuration, the pump and float work the same way.

Under normal conditions, the pump will run for 20 seconds at the beginning of a cycle and 20 seconds at the end of a cycle, or if excess water accumulates in the sump area.

The white collar on the float switch is magnetic. As it rises, it trips the contacts in the switch to send a signal to the control board to activate the pump.

If using the condensation tank: An overfill condition triggered by the float switch will cause the pump to run for 20 seconds. After 4 attempts, if the overfill is not cleared, the machine will pause and the ***Tank Full*** LED light will illuminate.

The user can press the *START/PAUSE* button to repeat the above overfill process. This can be done unlimited times as long as the overfill condition still exists.

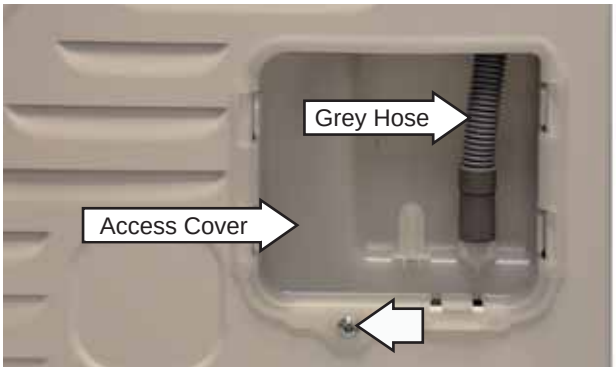
Operation of the pump and float switch can be checked by using the service test mode. (See ***Service Test Mode***.)

Specific failures associated with the pump and float switch can initiate error code 5E. (See ***Error Codes***.)

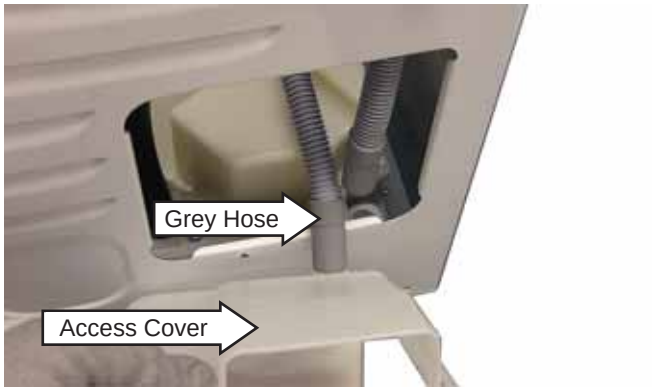
The condensate pump can be accessed thru the rear of the dryer.

To remove the condensate pump:

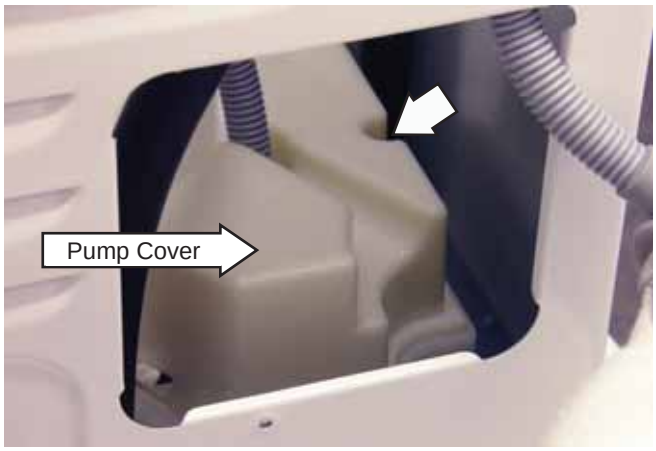
1. Pull to remove grey hose from pump access cover.
2. Remove 1 Phillips-head screw and pump access cover.



3. Pull to remove grey hose from pump access cover.



4. Remove 1 Phillips-head screw and pump cover from cabinet base.

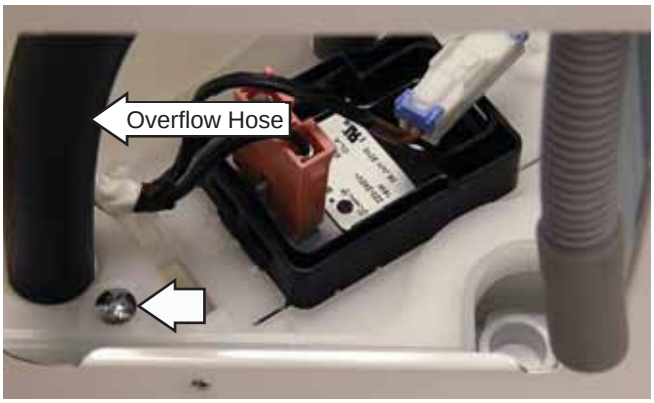


5. Remove 1 Phillips-head screw that secures the pump assembly to the base located toward the middle of the dryer.

(*Continued Next Page*)

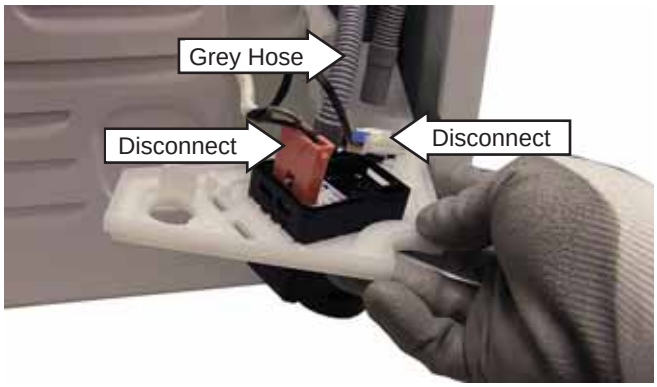
6. Remove 1 Phillips-head screw that secures the pump assembly to the base located toward the back of the dryer.

7. Pull up on the black overflow hose to remove from the pump assembly.

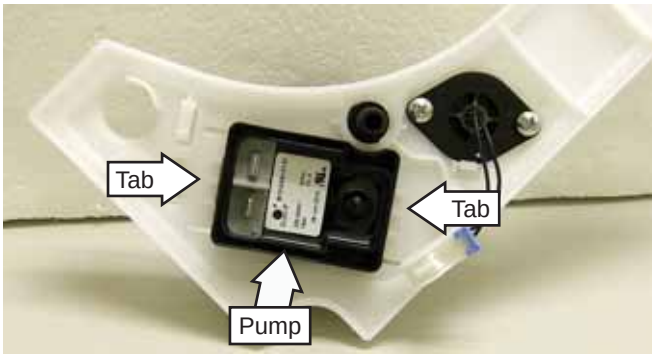


8. Remove the pump assembly from the dryer base, and then disconnect the wire harness from the float switch and pump.

9. Remove the grey hose connected to the pump.



10. Press the tabs on each side of the pump to remove from the pump support bracket.



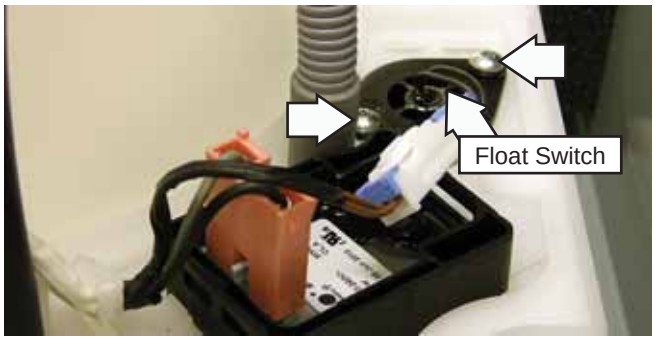
Float Switch

The white collar on the float switch is magnetic. As it rises, it trips the contacts in the switch to send a signal to the control board to activate the pump.

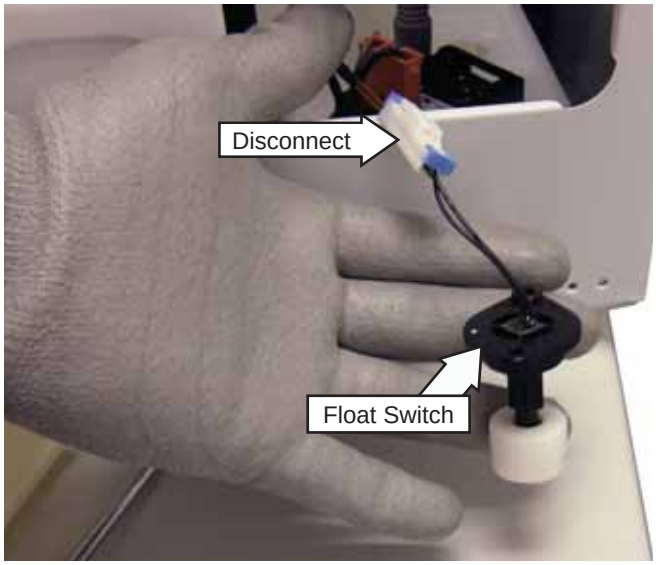
To remove the float switch:

1. Remove the pump cover from the cabinet base. (See *Condensate Pump*.)

2. Remove 2 Phillips-head screws and float switch from pump support bracket.



3. Disconnect the float switch from the wire harness.



Heater Assembly

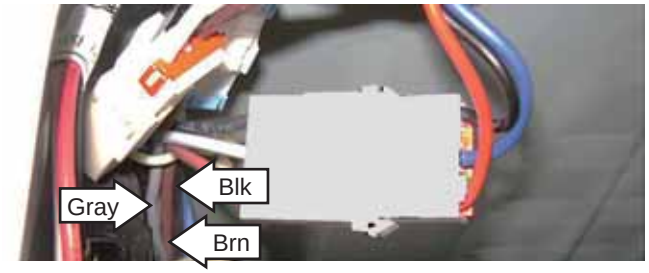
WARNING: Sharp edges may be exposed when servicing the heater. Use caution to avoid injury. Wear Kevlar gloves or equivalent protection.

The heater assembly is located on the back of the cabinet. It consists of 2 ribbon elements fastened to a single housing, auto reset thermostat, and manual reset 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 W, draws approximately 7 amps at 240 VAC and has an approximate resistance value of 34 Ω. Heater2, rated at 600 W, draws approximately 2.5 amps at 240 VAC and has an approximate resistance value of 92 Ω.

Both heaters can be checked from CN2 pin 2 (black) to RY5 (red) for the approximate resistance value of 126 Ω.

The heaters can be checked individually for confirmation at the heater connecter. The approximate resistance values from gray to brown is 34 Ω and from gray to black is 92 Ω.

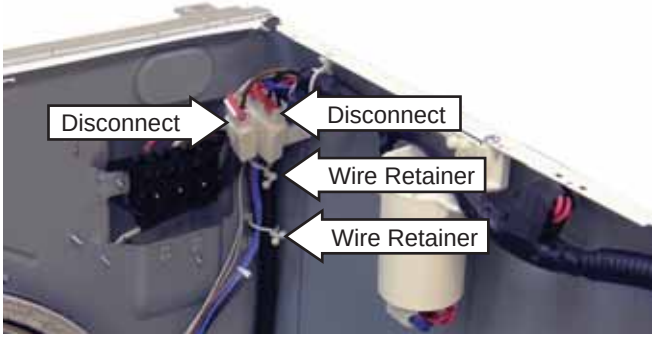


Operation of the heater assembly can be checked by using the service test mode. (See ***Service Test Mode***.)

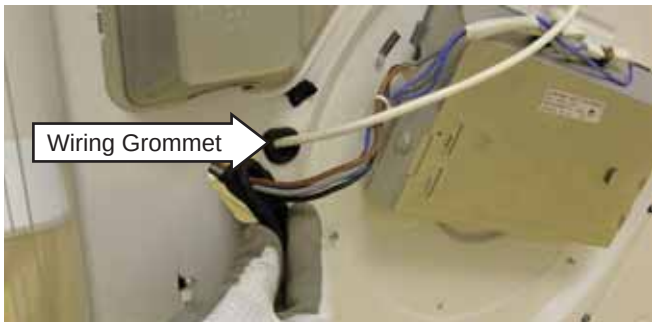
To access the heater assembly, it is necessary to remove the top and back cover. (See ***Top Cover*** and ***Back Cover***.)

To remove the heater assembly:

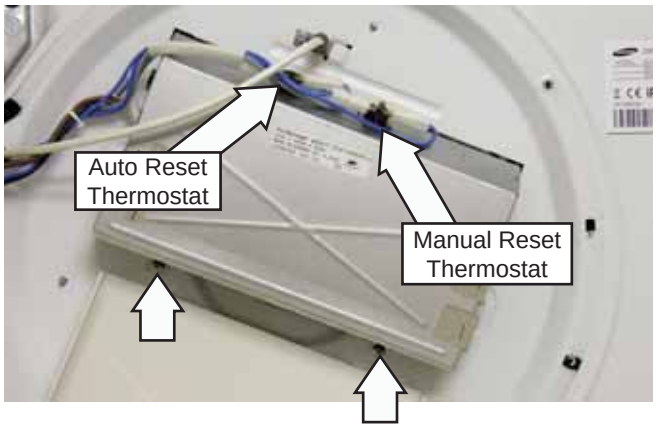
1. Remove the top and back cover. (See ***Top Cover*** and ***Back Cover***.)



2. Disconnect the 2 wire harnesses located inside the cabinet at the right rear top corner.
3. Remove the element assembly wiring from the 2 wire retainers.
4. From the rear of the cabinet, peel back the wiring grommet from the wiring entry opening.
5. Pull the wiring thru the wiring entry opening.



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



Auto Reset Thermostat

The auto reset thermostat is attached to the top of the heater assembly and located to the left of the manual reset thermostat, as viewed from the back of the dryer. Two gray wires are connected to the auto reset 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 auto reset thermostat opens at 212°F (100°C) and will automatically reset at 176°F (80°C).

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

Manual Reset Thermostat

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

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

The manual reset thermostat opens at 293°F (145°C).

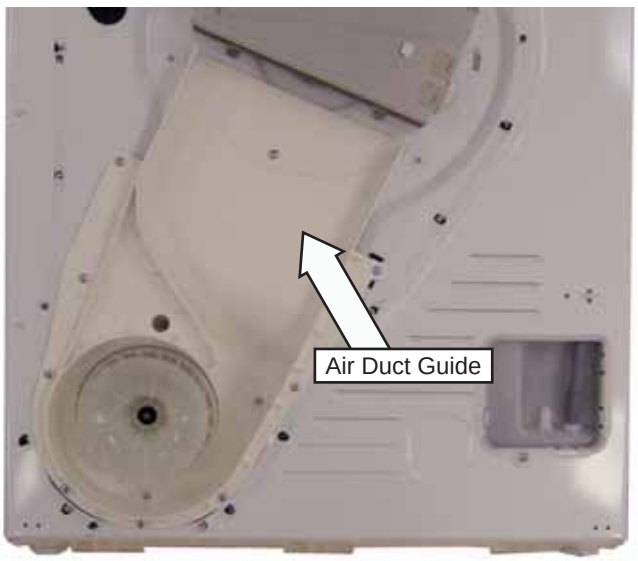
If the manual reset thermostat trips, do not reset until the following dryer components have been checked thoroughly for damage or deformation.

Heater: Remove heater and check for any physical and functional damage. (See ***Heater Assembly***.)

Motor: Check motor and blowers for proper operation.

Air Duct guide: Examine carefully and look for any deformation due to the excess heat that caused manual reset thermostat to trip. A warped or deformed air duct guide can effect drying performance.

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



Inlet Thermistor

The inlet thermistor is located above the heater assembly. The thermistor measures incoming 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:

Temperature	Resistance
32°F	162.21K Ω
50°F	98.32K Ω
68°F	61.46K Ω
86°F	39.51K Ω
104°F	26.05K Ω
122°F	17.59K Ω
140°F	12.14K Ω
158°F	8.54K Ω
176°F	6.12K Ω
194°F	4.46K Ω
212°F	3.30K Ω

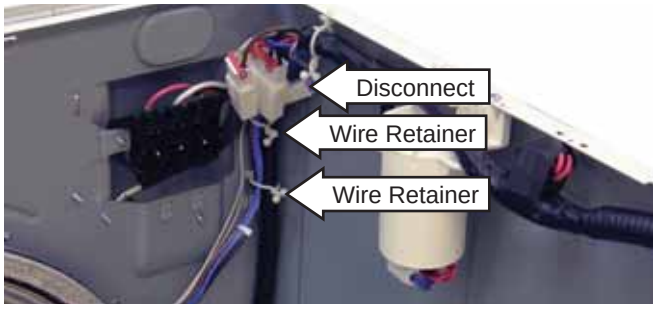
Operation of the thermistor can be checked by using the service test mode. (See ***Service Test Mode***.)

Specific failures associated with the inlet thermistor can initiate error codes tE2 and od. (See ***Error Codes***.)

To access the inlet thermistor it is necessary to remove the top and back cover. (See ***Top Cover*** and ***Back Cover***.)

To remove the inlet thermistor:

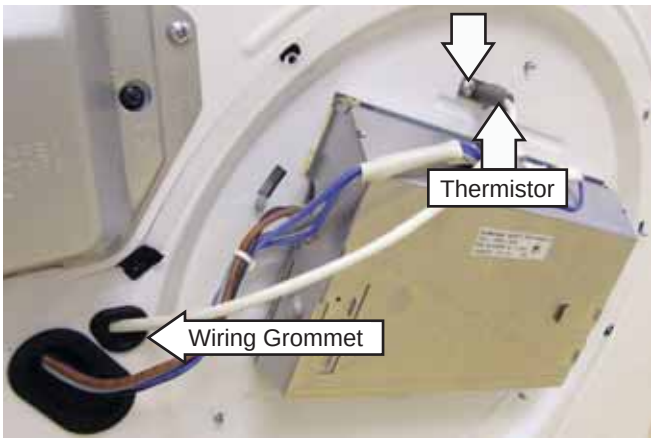
1. Remove the top and back cover. (See ***Top Cover*** and ***Back Cover***.)
2. Disconnect the wire harness to the thermistor.
3. Remove the thermistor wiring from the 2 wire retainers.



Drum removed for clarity

(*Continued Next Page*)

4. From the rear of the cabinet, peel back the wiring grommet from the wiring entry opening.
5. Pull the wiring thru the wiring entry opening.
6. Remove the Phillips-head screw and thermistor from the back of the dryer.



Rear Blower Wheel

The rear blower wheel can be replaced without removing the motor assembly.

To remove the rear blower wheel:

1. Remove the back cover. (See ***Back Cover***.)
2. Remove the 14-mm nut that secures the rear blower wheel to the motor shaft. (Turn nut clockwise to remove.)
3. Pull the rear blower wheel off of the motor shaft.

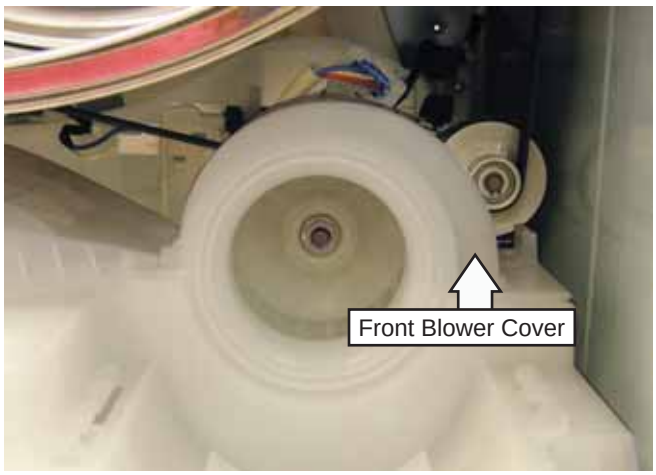
Drum Belt

The drum belt extends from the motor pulley to around the perimeter of the dryer drum.

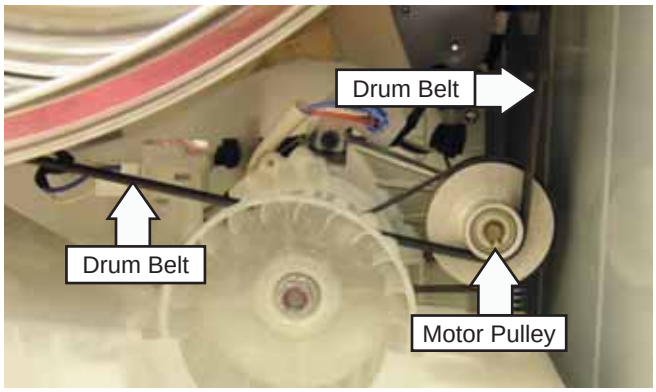
Note: If removing the drum belt to remove the drum, it would be beneficial to support the motor with the special tool as described in this section before removing the belt.

To remove the drum belt:

1. Remove the top cover, control panel, and drum support assembly. (See ***Top Cover***, ***Control Panel***, and ***Drum Support Assembly***.)
2. Pull up on the front blower cover to remove the cover tabs from the base.



3. Pull on the drum belt to roll drum belt from motor pulley.



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4. Remove the belt from the drum and pull the belt out thru the front of the dryer.

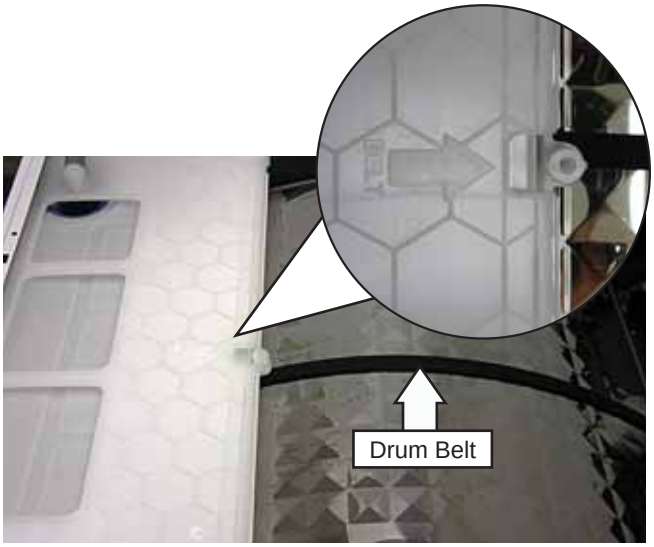
To install the drum belt:

The motor support bracket has a hole that is used with the notch in the motor housing to hold the motor assembly while replacing the belt. Use the special tools required to lift and support the motor assembly.

WARNING: The spring tension on the motor pulley is extremely strong. Keep hands clear while using tool to pry on motor pulley.

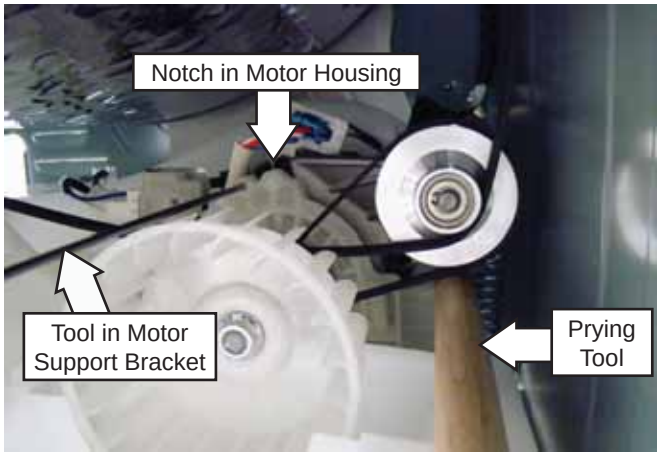
1. Lift the front of the drum up, and then place the belt in position around the circumference of the drum.

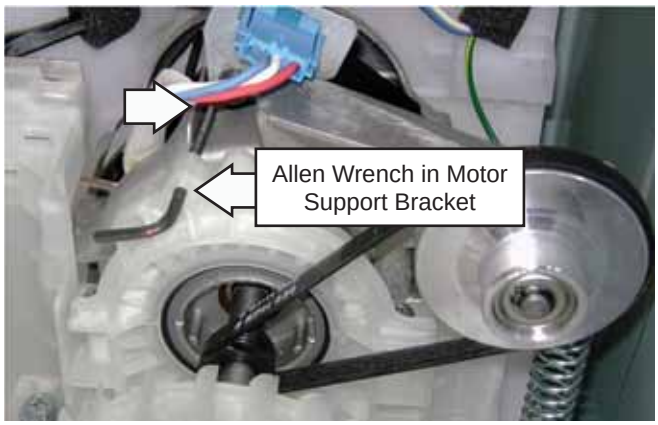
Note: The belt should be oriented so that it lines up with the notch in the condenser tank.



2. Place a prying device under the motor pulley and lift, and then slide the special tool into the hole on the motor support bracket. (The special tool is about the same diameter as an 1/8-in. Allen wrench.)
3. Place the belt on the motor pulley.
4. Using the prying device, lift the motor pulley, and then remove special tool from the hole in the support bracket.
5. Slowly lower the motor pulley and guide the belt into position.

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



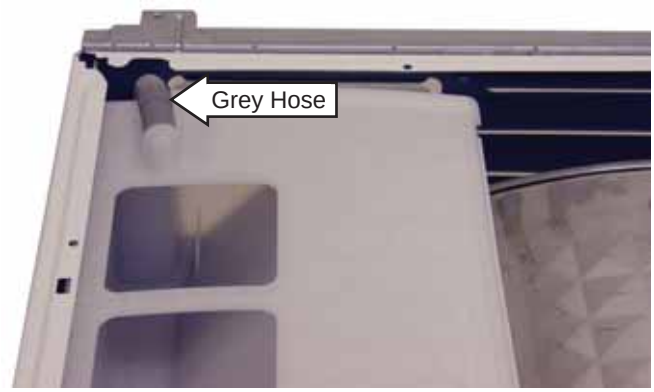


Drum and Bearing

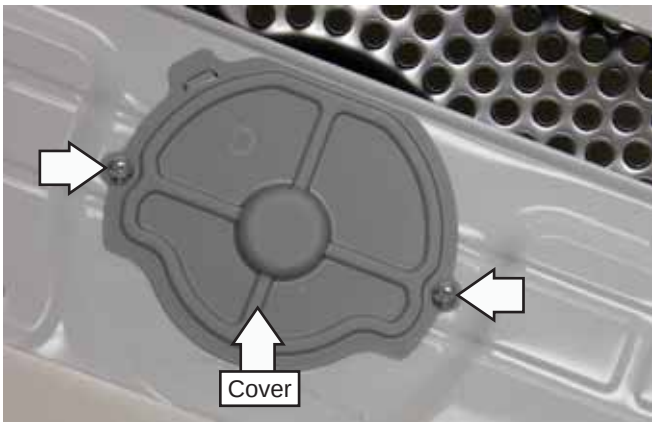
The dryer drum is made of 304 stainless steel and has three replaceable drum baffles attached to the inside. The drum rotates clockwise at approximately 50 rpm.

To remove the drum:

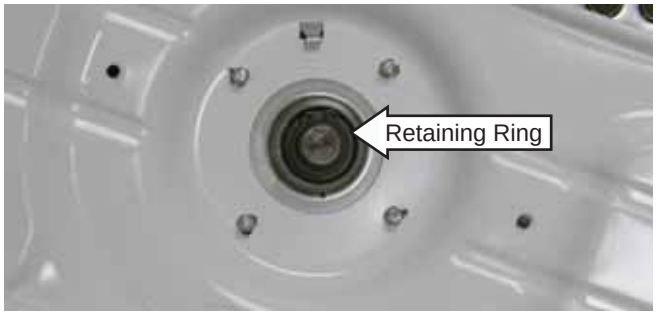
1. Remove the back cover, top cover, control panel, front panel, drum support assembly, and belt. (See ***Top Cover***, ***Drum Belt*** and ***Drum Support Assembly***.)
2. The condensation tank housing should be resting on the drum after removal of the drum support assembly. Remove the grey and black hose from the housing, and then remove the housing from the dryer.



3. Remove the 2 Phillips-head screws that attach the heater assembly to the back of the cabinet. (See ***Heater Assembly***.)
4. Remove the 2 Phillips-head screws and bearing cover from the back of the dryer.



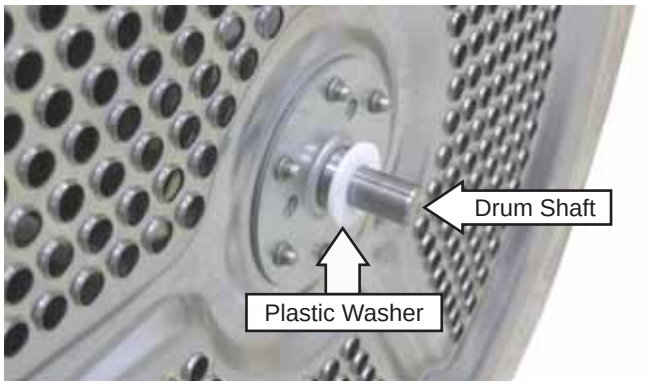
5. Using Truarc® plyers, remove the retaining ring from the drum shaft.



6. Lift and pull the drum out of the cabinet.

Note:

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



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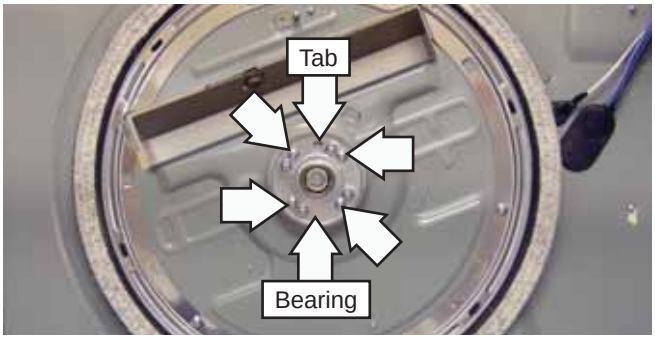
7. Remove the 4 Phillips-head screws that attach the bearing to the cabinet, and then release the tab located at the top.



Rear Drum Seal Assembly

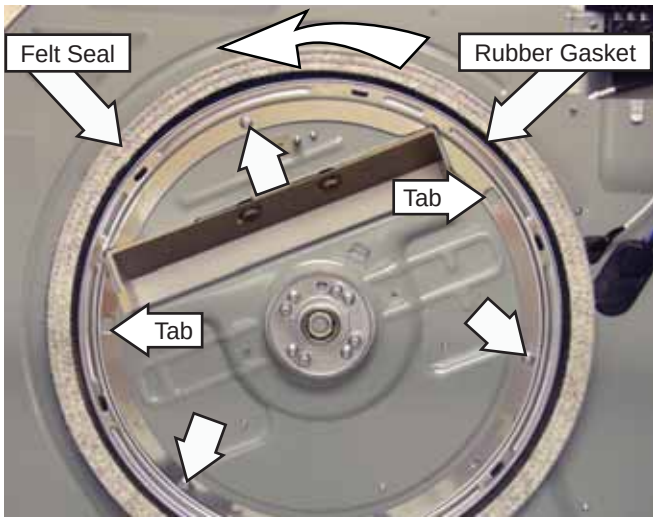
The rear drum seal assembly consists of a felt seal that is permanently attached to a rubber gasket and a circular bracket.

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.

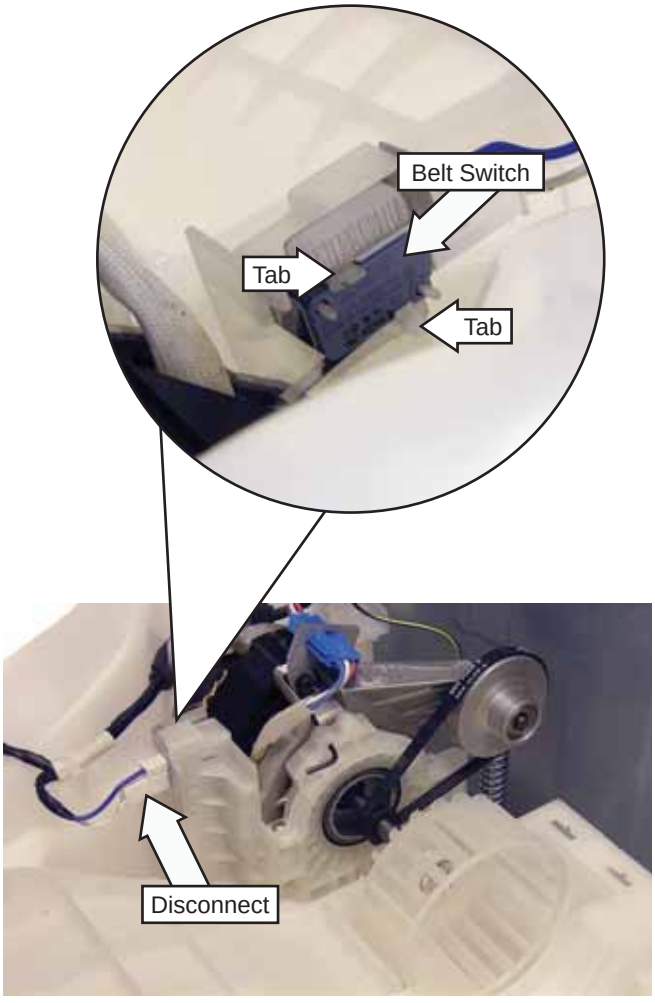
Belt Switch

The belt switch is located on the motor support housing. The switch is activated by the movement of the motor assembly. If the drive belt breaks or comes off the motor pulley, the belt switch opens power to the motor only.

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

To remove the belt switch:

1. Remove the drum. (See ***Drum and Bearing***.)
2. Disconnect the wire harness from the belt switch.
3. Press two tabs and remove switch from motor support housing.



Motor Assembly

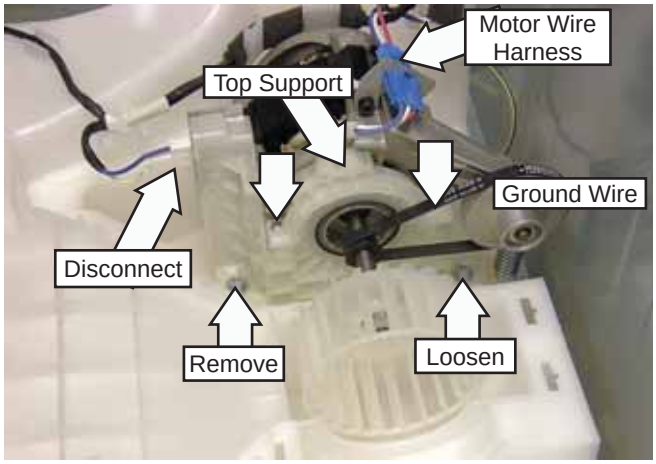
The motor is a 240 VAC motor and utilizes an 8uF start capacitor and internal automatic reset overload. The start winding resistance value is 20 Ω (white-red). The run winding has a resistance value of 14 Ω (white-blue).

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

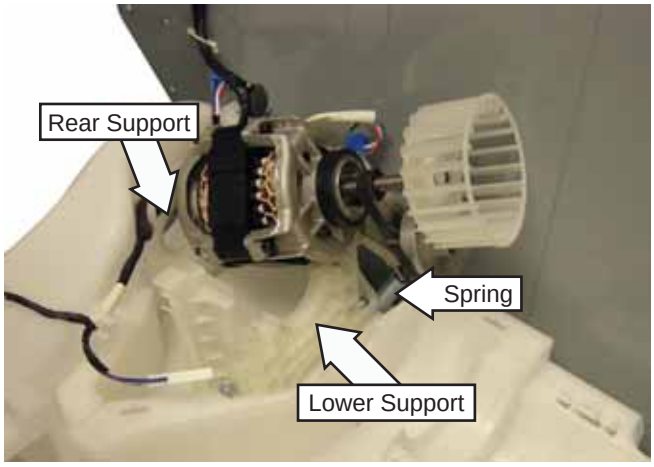
Specific failures associated with the motor can initiate error codes 3E1 and 3E2. (See ***Error Codes***.)

To remove the motor assembly:

1. Remove the drum and rear blower wheel. (See ***Drum and Bearing and Rear Blower Wheel***.)
2. Remove 2 Phillips-head screws and top motor support.
3. Remove the Phillips-head screw that secures the left side of the lower motor support to the base and loosen the Phillips head screw on the right side. (Do not remove the screw on the right side.)
4. Disconnect wire harnesses from the belt switch and motor assembly.



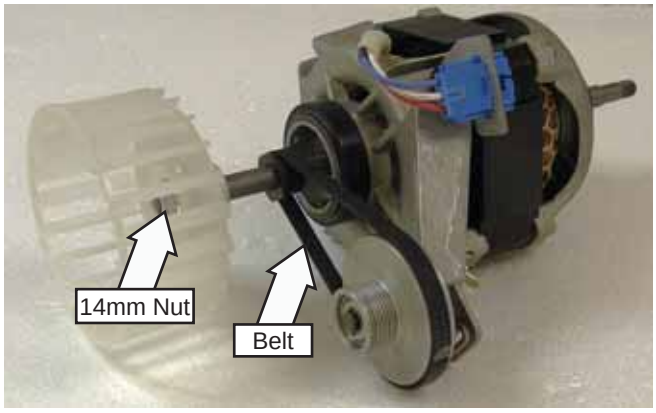
5. Remove ground wire from motor assembly.
6. Swing lower support forward and pull rear motor mount from rear housing.



7. Position the motor as shown to remove spring from base.

Note: The front blower wheel nut has "left-handed" threads for removal.

8. Remove the 14-mm nut. (Turn nut clockwise to remove.)
9. Pull the front blower wheel off the motor shaft.
10. Remove drive belt from motor and motor pulley.

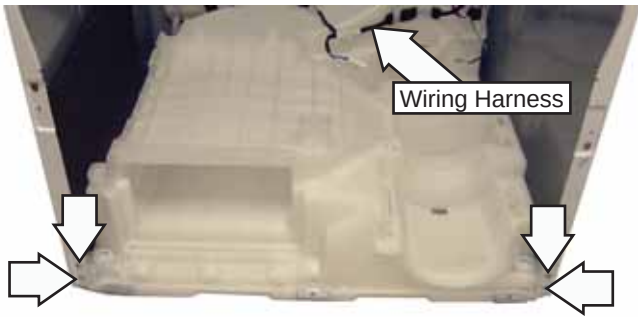


Base

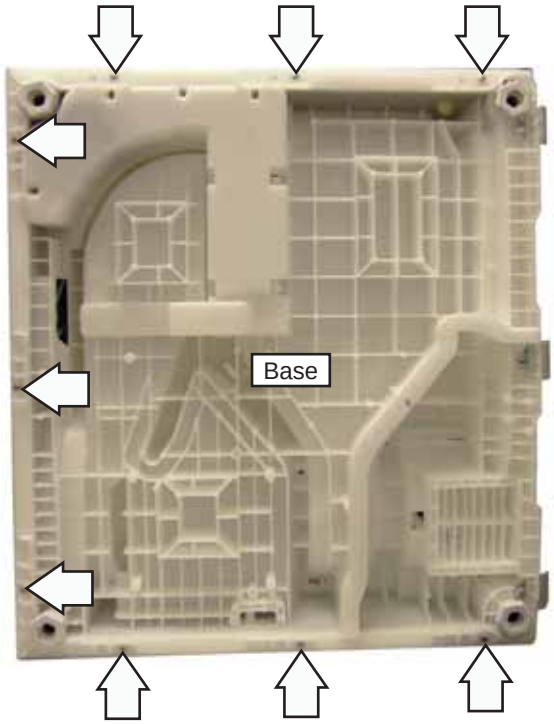
The base is made of plastic. The water reservoir for the pump is part of the base. It can be replace if damaged.

To remove the base:

1. Remove the motor assembly and condensate pump. (See ***Motor Assembly*** and ***Condensate Pump***.)
2. Remove wiring harness from the base.
3. Remove the 4 Phillips-head screws that secure the base to the front of the dryer frame.



4. Remove 9 Phillips-head screws and base from the dryer.



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:
With the power connected but the power button off, within 3 seconds: 1. Press the ***SIGNAL*** button. 2. Press the ***EXTEND TUMBLE*** button. 3. Press the ***SIGNAL*** button. 4. Press the ***EXTEND TUMBLE*** button. Upon entering the service test mode, the control will be in test selection mode tO1. Rotating the knob clockwise will increment the test numbers. Rotating the knob counterclockwise will decrement the test numbers. Scroll thru the list of tests by rotating the knob CW or CCW. Once the desired test is highlighted, press ***START/ PAUSE*** to begin the test. During a test, press ***POWER*** to terminate it and go back to test selection mode.	Press the ***POWER*** button during the test selection mode to exit the service test mode. **Note:** A dryer left in the test mode will exit the test mode after a period of approximately 15 minutes.

(Continued Next Page)

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	*START/PAUSE*	Displays software version number	
		POWER	Returns to service mode screen	
t02	Error Codes	*START/PAUSE*	Displays software version number	
		START/PAUSE	Clears highlighted error code from machine (During t02 test)	
		POWER	Returns to service mode screen	
t03	User Interface Test	*START/PAUSE*	Lights up LEDs	
		Any button but *POWER*	Beeps as button is pressed (During t03 test)	
		POWER	Returns to service mode screen	
t04	Door Switch Test	*START/PAUSE*	Display shows "d0" or "00"	"d0" = door is open "00" = door is closed
		POWER	Returns to service mode screen	
t05	Dryer Motor Test	*START/PAUSE*	Rotates dryer motor	"on" = motor rotate "d0" = door is open
		POWER	Returns to service mode screen	
t06	Thermistor 1 and 1600 W Heater Test	*START/PAUSE*	Displays temperature and rotates dryer motor	Heater turns on for a maximum of 5 minutes.
		POWER	Returns to service mode screen	
t07	Thermistor 2 and 600 W Heater Test	*START/PAUSE*	Displays temperature and rotates dryer motor	Heater turns on for a maximum of 5 minutes.
		POWER	Returns to service mode screen	
t08	Moisture Sensor Test	*START/PAUSE*	Displays status of the touch sensors	Touch the sensor with hand: "1" = be detected "0" = not detected
		POWER	Returns to service mode screen	
t09	Water Sensor and Pump Test	*START/PAUSE*	Displays water level and turns on the pump	Turns off drain pump when water level sensor detects empty. Maximum pump work time is 1 minute. “1” = detected “0” = not detected
		POWER	Returns to service mode screen	

Error Codes

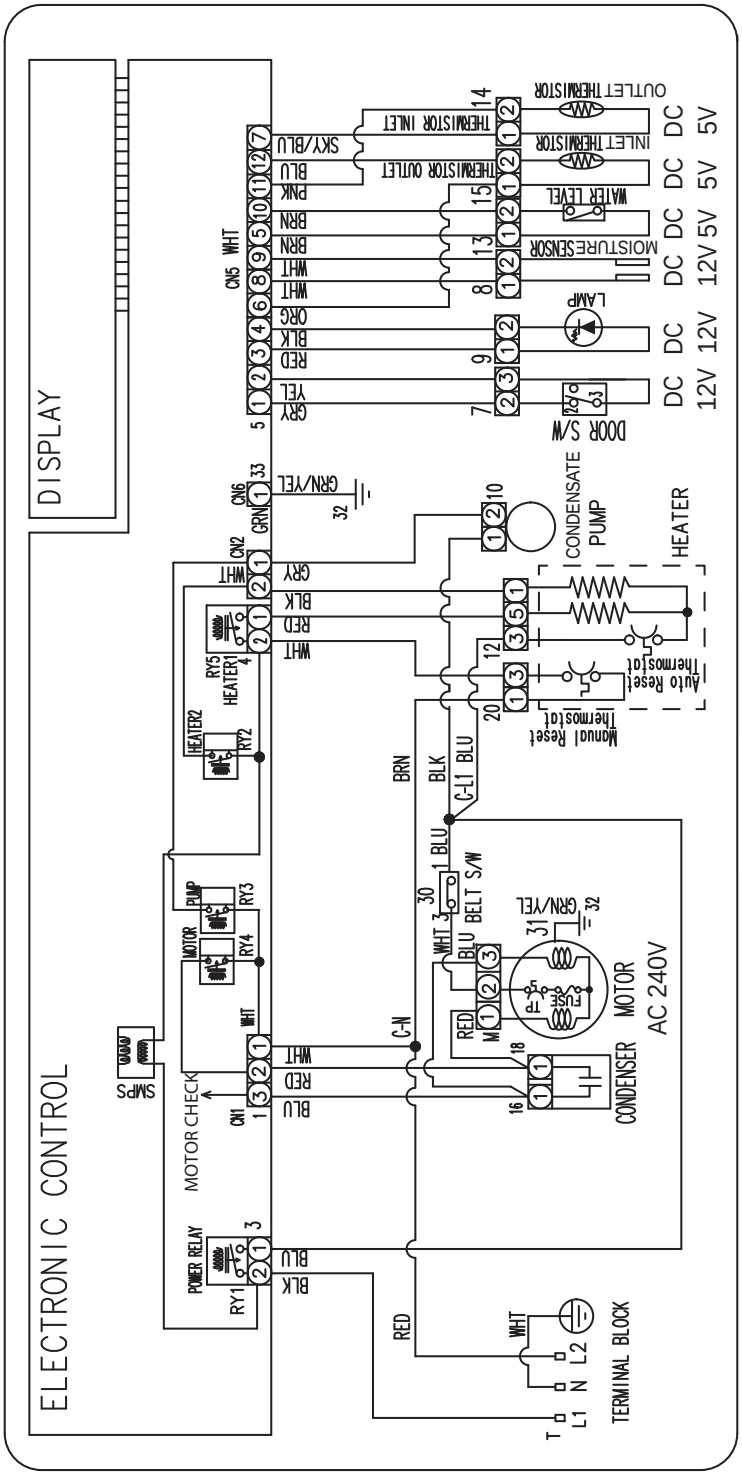
Error Code	Description	Trigger Condition	Action
E00	No Error	There are no errors to display.	
tE2	Inlet Thermistor Error	Thermistor voltage is over 4.8 V for more than 5 seconds. Thermistor voltage is under 0.2 V for more than 5 seconds.	• Check Inlet Thermistor connector and wiring. • Replace the Thermistor 1 as necessary. • Replace the PCB as necessary.
tE4	Outlet Thermistor Error	Thermistor voltage is over 4.8 V for more than 5 seconds. Thermistor voltage is under 0.2 V for more than 5 seconds.	• Check Outlet Thermistor connector and wiring. • Replace the Thermistor 2 as necessary. • Replace the PCB as necessary.
dE	Door Fail	Door interrupt voltage is continuously low level for more than 256 milliseconds.	• Check Door switch and Door switch wiring. • Replace the Door switch as necessary. • Replace the PCB as necessary.
od	Over Dry	The dry and cooling process is over 240 minutes. (Failure mode equals stuck heater relay. Replace MC board.)	• Check Thermistor 1 & 2 connector and wiring. • Replace the thermistor as necessary. • Replace the PCB as necessary.
HE	Heating Error	Heating Temperature is over 185 Fahrenheit for more than 10 seconds. (Failure mode equals stuck heater relay. Replace MC board.)	• Check the Heater and Heater connector. • Replace the PCB as necessary.
HE4	Heating Error (Filter Check)	Clean lint filter condition detected 3 consecutive times.	• Check the case filter & condenser • Check the duct fan. • Replace the PCB as necessary.
bE2	Button Error	When any key is continuously pressed for more than 30 seconds.	• Check for stuck keys on panel. • Replace the control panel as necessary. • Replace the PCB as necessary.
3E1	Motor Relay Open	When the motor state is "running", the control detects the high motor signal within 120 seconds. (The Motor Relay cycles on/off once every 30 seconds)	• Check wiring to PCB • Replace the PCB as necessary
3E2	Motor Relay Stuck	When the motor state is "stopped", the control detects the zero cross motor signal within 60 seconds.	• Check motor connector and wiring. • Replace the PCB as necessary
5E	Drain Fail	Water overflow condition detected 3 consecutive times.	• Check the water tank & water sensor. • Check the pump & drain pipe. • Replace the PCB as necessary.

Schematics and Wiring Diagrams

Electric Condenser 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.
- Cleaning of condenser to restore product drying performance.

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