

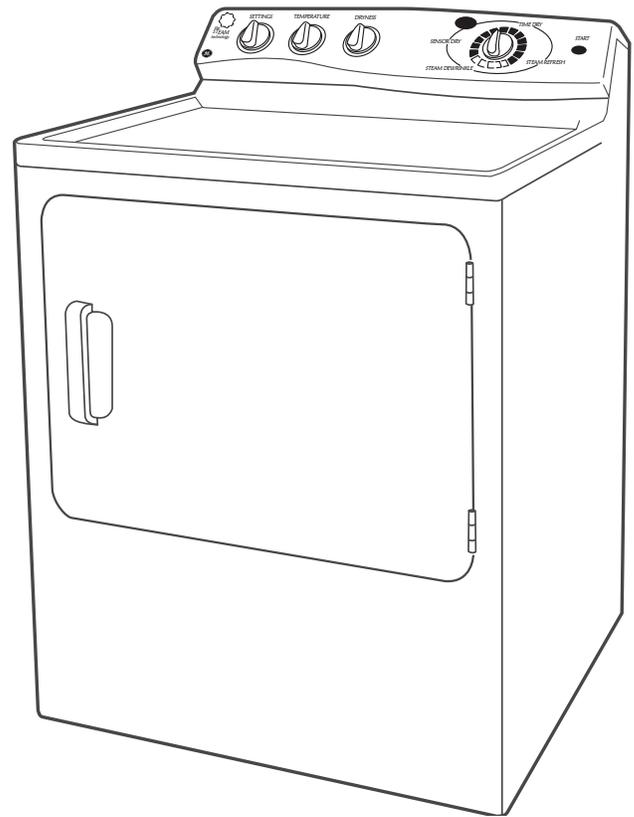
GE Appliances

Technical Service Guide

December 2010

Profile Stainless Steel Drum Gas and Electric Dryers with Steam

PTDS650EM
PTDS650GM



31-9205



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

If the information in this manual is not followed exactly, fire or explosion may result causing property damage, personal injury or death. If you smell gas:

- Do not try to light any appliance.
- Do not touch any electrical switch; do not use any phone in the building.
- Immediately call the gas supplier from a neighbor's phone. Follow the gas supplier's instructions.
- If you cannot reach the gas supplier, call the fire department.

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

Steam and SensorDry Plus™ Features

Profile 650 model dryers now incorporate two new steam features. These units do not utilize a separate steam generator. These dryers use a water valve and a steam nozzle that functions as a “misting” orifice. It works in conjunction with the heat generated by the dryer to de-wrinkle clothing.

Located in the *Timed Dry Cycles*, the steam cycles are:

- **Steam Refresh** - Freshens up to five slightly wrinkled dry garments, reducing wrinkles and odors to extend for another wear.
- **Steam Dewrinkle** - Helps remove stubborn wrinkles from larger loads, quickly and conveniently, even from clothes left in the dryer from the day before.

A “Y” connector installed on the washer’s cold water inlet hose supplies water to the dryer. The water valve inlet is located at the bottom left on the rear panel of the dryer. A hose carries the water to the misting orifice.

Other Features Include:

- Rotary electronic controls with Adaptive Logic - Simplify cycle selection with easy-to-use rotary dial controls. Adaptive Logic allows the dryer to adapt to household conditions for efficient performance.
- 5 heat selections - Offer enhanced drying performance and fabric care.
- Cycle countdown display with LED indicators - Know exactly how much time is left for each cycle with bright display and lights.



- Antibacterial cycle - Reduces certain types of bacteria by 99.9%
- Delicate cycle with low-heat setting - Low-heat setting and gentle wash cycle help protect delicate garments.

- Deluxe dryer rack - Allows tumble-free drying of items like washable sweaters, sneakers, and stuffed animals.

- Damp Dry cycle - Allows you to remove select items for hang drying or damp ironing.

- Large 7.0-cubic foot stainless steel dryer drum

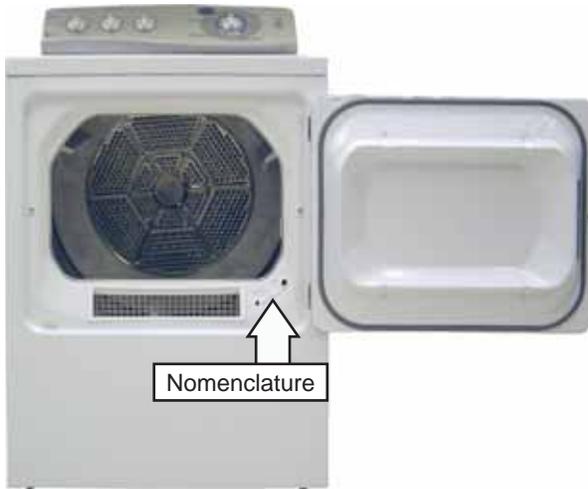
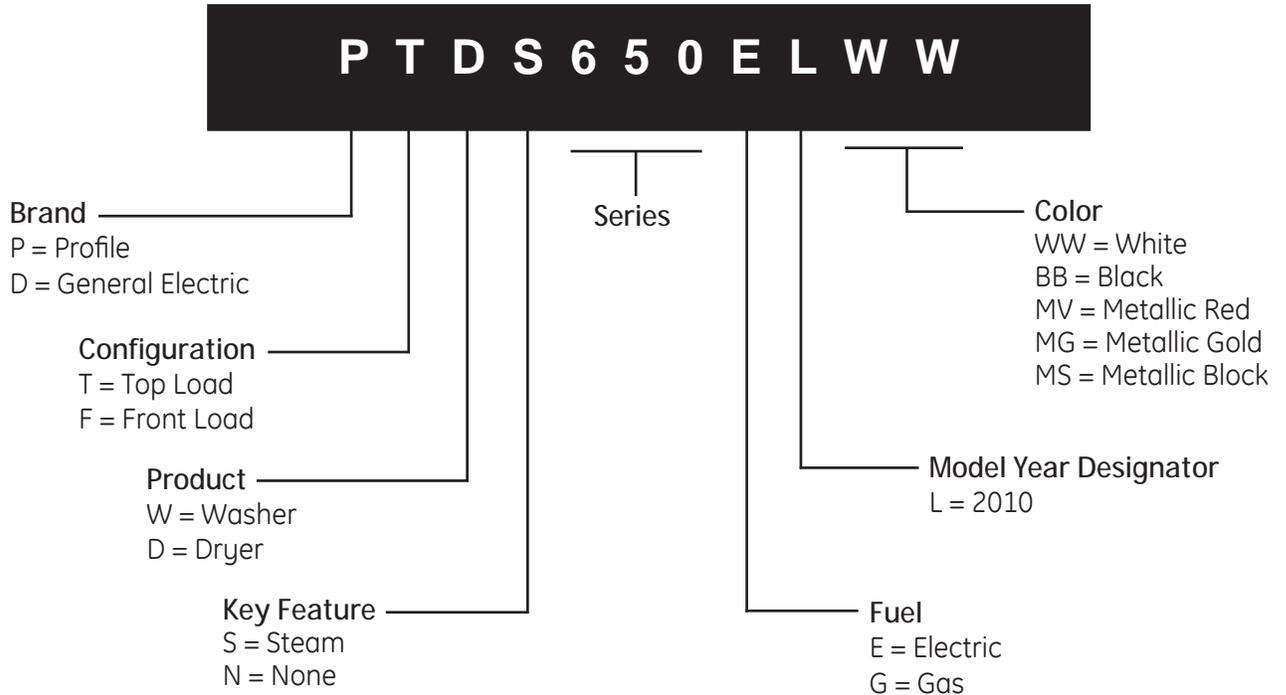
- Drum Lamp

- Dual Thermistors - Thermistors are more sensitive to temperature changes and can relay the information faster than thermostats. The dryer

utilizes dual thermistors to monitor incoming air temperature as well as air temperature leaving the drum. The sensors work together with the heater and the blower to provide consistent, even heat.

- SensorDry Plus™ - A moisture sensor allows the control to monitor the fabric for moisture content and end the cycle at the desired moisture level.
- Built-in service test mode. Specific dryer components can be operated. Error codes are recorded and accessible on the control panel display.
- Flush Door Handle
- Reversible Door

Nomenclature



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: ZT123456S = December, 2010

Z - DEC	2010 - T
A - JAN	2009 - S
D - FEB	2008 - R
F - MAR	2007 - M
G - APR	2006 - L
H - MAY	2005 - H
L - JUN	2004 - G
M - JUL	2003 - F
R - AUG	2002 - D
S - SEP	2001 - A
T - OCT	2000 - Z
V - NOV	1999 - V

The letter designating the year repeats every 12 years.

Example:
T - 2010
T - 1998
T - 1986

Water Line Connection

WATER SUPPLY REQUIREMENTS

Hot and cold water faucets **MUST** be installed within 42 in. (107 cm) of your washer's water inlet. The faucets **MUST** be 3/4 in. (1.9 cm) garden hose-type faucets so inlet hoses can be connected. Water pressure **MUST** be between 10 and 120 pounds per square inch. Your water department can advise you of your water pressure.

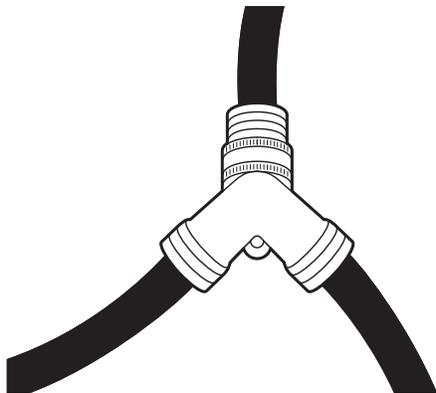
Note: A water softener is recommended to reduce buildup of scale inside the steam nozzle if the home water supply is very hard.

CONNECTING INLET HOSES

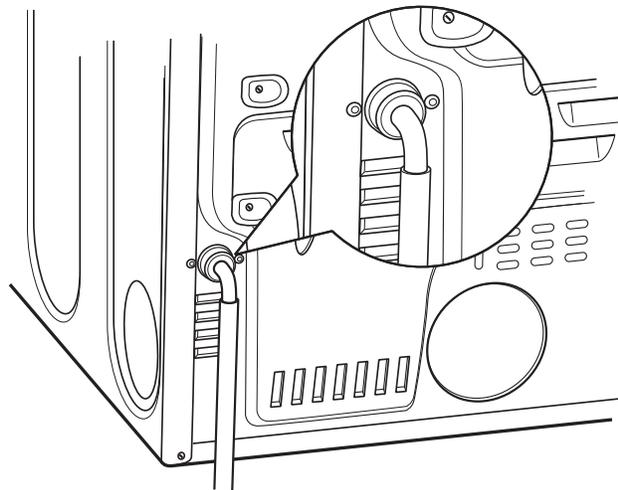
To produce steam, the dryer must connect to the cold water supply. Since the washer must also connect to the cold water, a "Y" connector is inserted to allow both inlet hoses to make that connection at the same time.

Note: Use the new inlet hoses provided; never use old hoses.

1. Turn the cold water faucet off. Remove the washer inlet hose from the washer fill valve connector (cold).
2. Ensure the rubber flat washer is in place and screw the female coupling of the short hose onto the washer fill valve connector. Tighten by hand until firmly seated.
3. Attach the female end of the "Y" connector to the male coupling of the short hose. Ensure the rubber flat washer is in place. Tighten by hand until firmly seated.

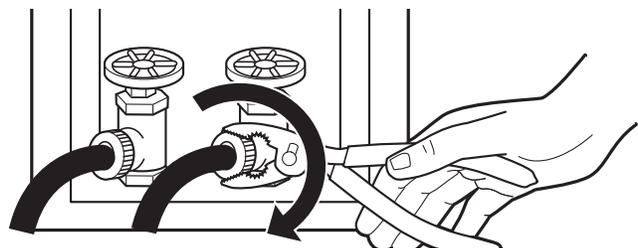


4. Insert the filter screen in the coupling of the washer's inlet hose. If a rubber flat washer is already in place remove it before installing the filter screen. Attach this coupling to one male end of the "Y" connector. Tighten by hand until firmly seated.
5. Ensure the rubber flat washer is in place and attach the dryer's long inlet hose to the other male end of the "Y" connector. Tighten by hand until firmly seated.
6. Ensure the rubber flat washer is in place and attach the other end of the dryer's long inlet hose to the fill valve connector at the bottom of the dryer back panel. Tighten by hand until firmly seated.



7. Using pliers, tighten all the couplings with an additional two-thirds turn.

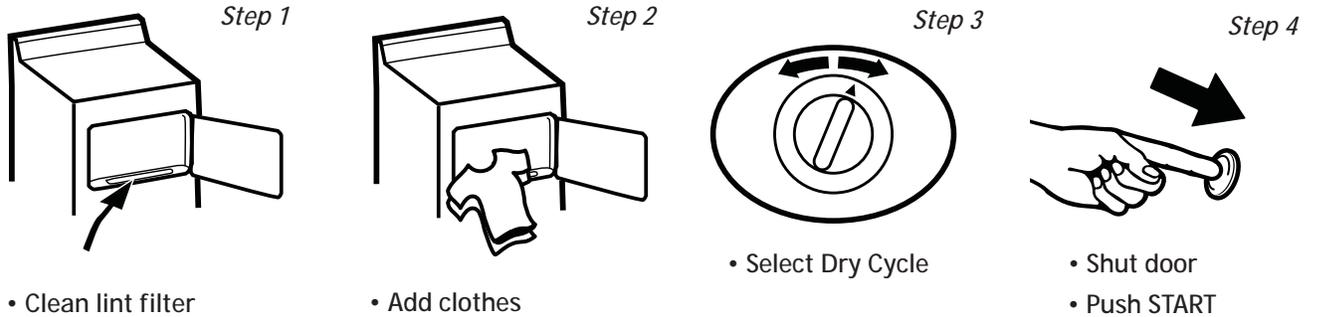
Note: Do not overtighten. Damage to the couplings may result.



8. Turn the water faucet on.
9. Check for leaks around the "Y" connector, faucet and hose couplings.

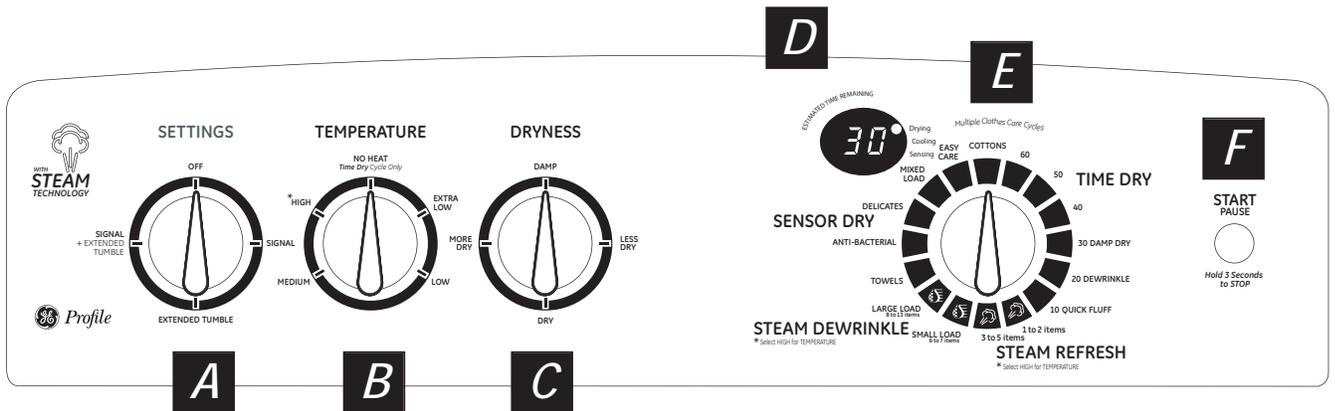
Control Features

About the control panel



Quick Start Guide

Note: When making a selection with any knob, simply point the knob anywhere within the shaded range for that setting.



About the control settings.

A End of Cycle Signal

This signal will sound just before the end of the cycle to remind you to remove the clothes.

If you select the *EXTENDED TUMBLE* option, the signal will sound at the end of the drying time and will sound several times during the *EXTENDED TUMBLE* cycle. This will remind you that it is time to remove the clothes.

Note:

- Remove garments promptly at the sound of signal. Place clothes on hangers so wrinkles won't set in.
- Use the *END OF CYCLE SIGNAL* especially when drying fabrics like polyester knits and permanent press. These fabrics should be removed so wrinkles won't set in.
- If the beeper is turned off, the dryer will go in Idle state and the control will display a "00" for up to 6 minutes unless the door is opened or the *Stop/Cancel* key is pressed.

Extended Tumble (Wrinkle Care)

Use this option to minimize the wrinkles in clothes. It provides approximately 1 hour of no-heat tumbling after the clothes are dry.

If the *EXTEND TUMBLE* option is selected, at the end of the cycle, "00" will be displayed on the segment display. At this moment, the control beeps every 90 seconds, provided the user turned the beeper on. If the user turns off the beeper, then there will not be any beep. If the user deselects (i.e., turns off) the *EXTEND TUMBLE* option while the cycle is in *EXTEND TUMBLE* mode, then the dryer immediately stops. If the *EXTEND TUMBLE* and *SIGNAL* option is selected, the signal will sound every five minutes while *EXTEND TUMBLE* is running.

B Temperature

HIGH	For regular to heavy cottons. Note: <i>STEAM DEWRINKLE</i> and <i>STEAM REFRESH</i> require the High Temperature setting.
MEDIUM	For synthetics, blends, delicates, and items labeled <i>permanent press</i> .
LOW	For delicates, synthetics, and items labeled <i>tumble dry low</i> .
EXTRA LOW	For delicates, synthetics, and items labeled <i>tumble dry low</i> .
NO HEAT	For <i>fluffing</i> items without heat. For use only with the <i>TIMED DRY</i> cycles.

C Dryness - Selection only used for *SENSOR* cycles. *TIMED CYCLES* run for the selected time at the selected temperatures.

MORE DRY	Use for heavy-duty fabrics.
DRY	Use for a normal dryness level suitable for most loads. This is the preferred cycle for energy savings.
LESS DRY	Use for lighter fabrics.
DAMP	For leaving items partially damp.

About the control settings.

D Estimated Time Remaining Display

- Displays the **approximate** time remaining until the end of the cycle.
- If the estimated time remaining is 60 minutes or more, "1H" will flash in the display, followed by the additional remaining minutes. When the time remaining is less than 60 minutes, the timer will count down.

Message Displayed	Description
	The message "PAUSE" will scroll across the display when the dryer's cycle is paused. The cycle may be restarted by pressing the START button.
	The message "door" will be displayed when the door is opened during the dryer's cycle.
	The message "HEAT" will be displayed when the start button is pressed for a steam refresh or de-wrinkle cycle. Turn the temperature knob to "High" and press the start button.

E Drying Cycles—Sensor cycles automatically determine fabric dryness. Timed cycles run for the selected time.

COTTONS	For cottons and most linens.
EASY CARE	For wrinkle-free, permanent press and delicate items, and knits.
DELICATES	For delicate items, special-care fabrics and knits.
MIXED LOAD	For loads consisting of cottons and poly-blends.
TIMED DRY	Set the Cycle Selector at the desired drying time.
DAMP DRY	For leaving items partially damp.
DEWRINKLE	For removing wrinkles from items that are clean and dry or that are very lightly damp.
QUICK FLUFF	For freshening or fluffing up already dry clothing, fabric, linens and pillows. Use with NO HEAT . Provides 10 minutes of no-heat tumbling.
DRYEL	Designed for use with DRYEL® "dry-clean only" fabric care system. See product package for directions. For questions or issues related to the use and performance of DRYEL, call 1.800.214.8913, or visit the DRYEL Website at www.dryel.com .
ANTI-BACTERIAL	This option reduces certain types of bacteria by 99.9%, including: <i>Staphylococcus aureus</i> , <i>Pseudomonas aeruginosa</i> and <i>Klebsiella pneumoniae</i> *. The anti-bacterial process occurs when high heat is used during a portion of the drying cycle. NOTE: Do not use this cycle on delicate fabrics. *The Anti-Bacterial Cycle is Certified by NSF International (formerly National Sanitation Foundation) to NSF Protocol P154 Sanitization Performance of Residential Clothes Dryers.
KNITS	For knits with fabric care labels that say "Machine Dry".
TOWELS	For most towels and linens.



NSF Protocol P154
Sanitization Performance of
Residential Clothes Dryers

About the control settings.

STEAM REFRESH (on some models) For slightly wrinkled dry garments. Significantly reduces wrinkles. After the *STEAM REFRESH* Cycle, the unit will beep (if Signal is selected) and display "00."
Steam Refresh Large is recommended for 3-5 garments and Small for 1-2 garments.

NOTE: Steam cycles are not intended for use with towels.

NOTE: A single extremely light fabric item may need to have an additional item included in = the STEAM REFRESH cycle to achieve optimum results.

Important - the temperature setting must be set to HIGH and water must be turned on before running the STEAM REFRESH cycle.

STEAM DEWRINKLE (on some models) For use with larger loads than *STEAM REFRESH*. Ideal for loads left in dryer for an extended time.
STEAM DEWRINKLE Large is recommended for 8-13 garments and Small for 6-7 garments.

NOTE: Steam cycles are not intended for use with towels

Important! - the temperature setting must be set to HIGH and water must be turned on before running the STEAM DEWRINKLE cycle.

F **START**—Close the dryer door. Press **START**. Opening the door during operation will stop the dryer. To restart the dryer, close the door and press **START** to complete the cycle. If the dryer is running, press once to pause the cycle; press again to continue the cycle. If the dryer is paused for more than 24 hours, the cycle will be cancelled. To stop the cycle, hold the button for 3 seconds.

NOTE: Drying times will vary according to the type of heat used (Electric, Natural or LP gas), size of load, types of fabrics, wetness of clothes and condition of exhaust ducts.

G **Wrinkle Care**

Use this option to minimize the wrinkles in clothes. It provides approximately 15 minutes of no-heat tumbling after the clothes are dry.

This option can only be used with the *COTTONS*, *EASY CARE* and *DELICATES* cycles. If you are using *CYCLE SIGNAL* and you select the *WRINKLE CARE* option, a signal will sound at the end of the drying time and several times during the *WRINKLE CARE* cycle. This will remind you that it is time to remove the clothes.

If *WRINKLE CARE* is not *ON*, the dryer will stop once the timer reaches the *WRINKLE CARE* mark on the cycle dial.

Sensor Dry

Sensor Dry (on some models)

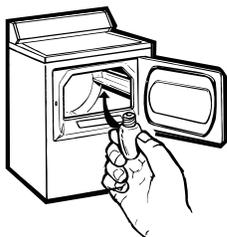
This feature is only activated in the **COTTONS**, **EASY CARE** and **DELICATES** cycles.

The **SENSOR DRY** provides greater drying accuracy than standard machines, resulting in shorter dry times and better clothes care. As the clothes tumble, they touch a moisture sensor. The sensor will stop the heating cycle as soon as the clothes have reached the selected dryness.

Important

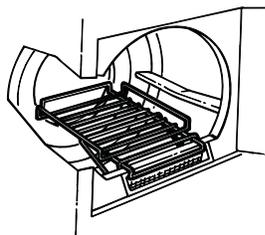
This dryer will adjust the initial estimated drying time of the sensor dry cycles as it "learns" its installation and usage profile. Please allow several weeks for the dryer to customize itself to "you".

Initial estimated cycle times will adjust up or down during this learning period.



Drum Lamp

Before replacing the light bulb, be sure to unplug the dryer power cord or disconnect the dryer at the household distribution panel by removing the fuse or switching off the circuit breaker. Reach above dryer opening from inside the drum. Remove the bulb and replace with the same size bulb.



Drying Rack (on some models)

A handy drying rack may be used for drying delicate items such as washable sweaters.

Hook the rack over the lint filter so the rack extends into the dryer drum.

NOTE:

- *The drying rack must be used with the **TIMED CYCLE**.*
- *Do not use this drying rack when there are other clothes in the dryer.*

Stainless Steel Drum (on some models)

The stainless steel used to make the dryer drum provides the highest reliability available in a GE dryer. If the dryer drum should be scratched or dented during normal

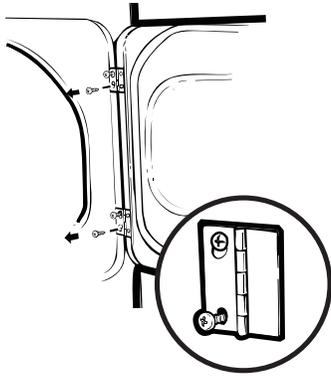
use, the drum will not rust or corrode. These surface blemishes will not affect the function or durability of the drum.

Reversing the Door

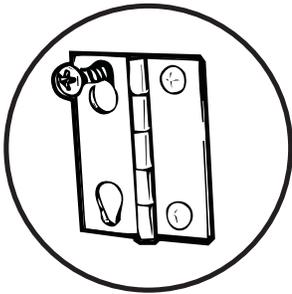
Reversing the Door

Tools needed:

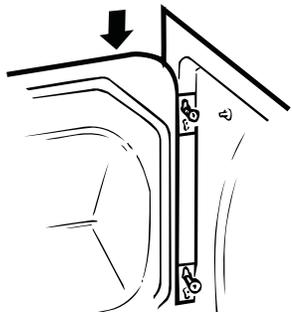
- Standard #2 Phillips screwdriver
- Tape-tipped putty knife



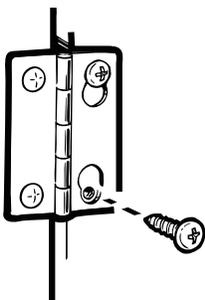
- 1 Open the door and remove the filler plugs opposite the hinges. With the door completely open, remove the bottom screw from each hinge on the dryer face. Insert these screws about half way into the **TOP** holes, for each hinge, on the opposite side (where you removed the filler plugs). Apply firm pressure to get the screw started in new holes.



- 2 Loosen top screw from each hinge on the dryer face half way. With one hand holding the top of the door and the other hand holding the bottom, remove the door from the dryer by lifting it **UP** and **OUT**.



- 3 Rotate the door 180°. Insert it on the opposite side of the opening by moving the door **IN** and **DOWN** until the top hinge and the bottom hinge are resting on the top screws inserted in step 1.

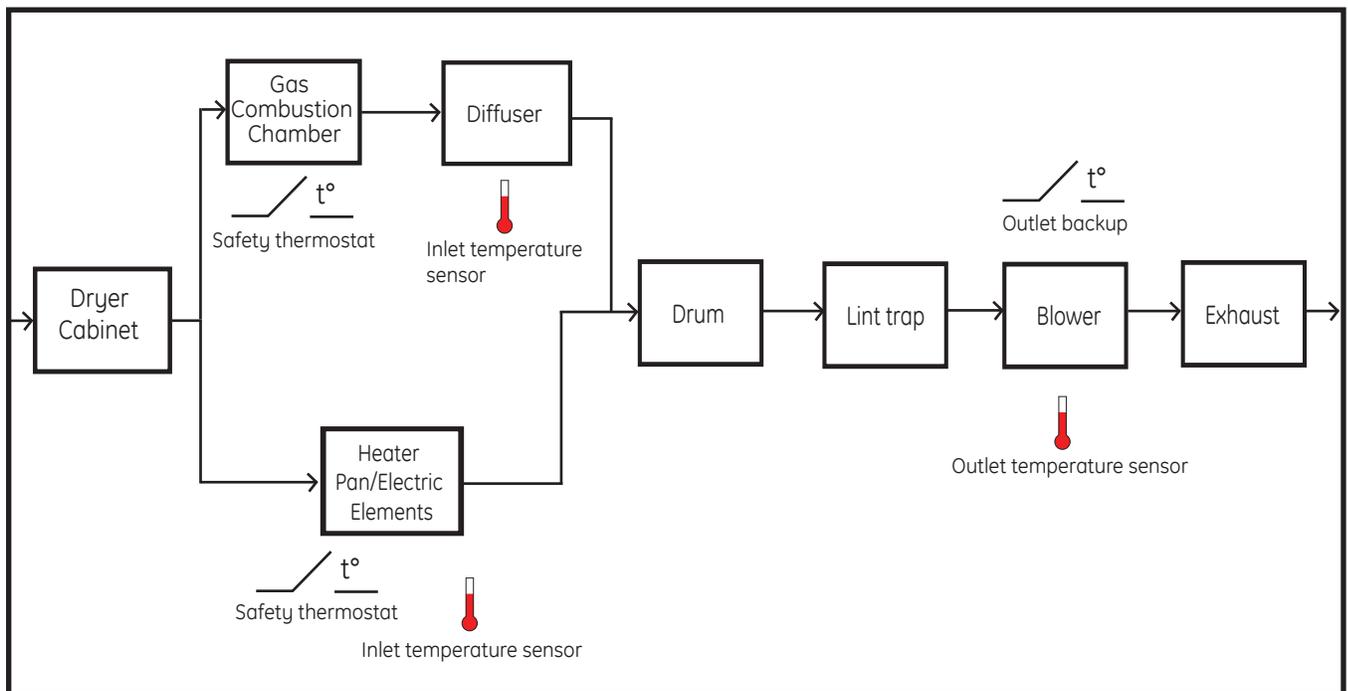


- 4 Remove the remaining screws from the side of the opening from which the door was removed. With these screws, secure each hinge at the bottom. Tighten the two top screws of each hinge. Reinsert the plastic plugs on the side from which the door was removed.

Operation Overview

Air enters the dryer cabinet, passing thru the heating elements and into the drum. The hot air heats the wet clothes and gradually removes 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 two temperature sensors: an inlet sensor located near the heating elements, and an outlet sensor located at the blower. An additional safety thermostat, located near the heating elements, shuts off the heating elements if they overheat. Also, the outlet backup thermostat, located near the blower, provides additional safety and cycles the heaters if temperature goes above the outlet temperature range.

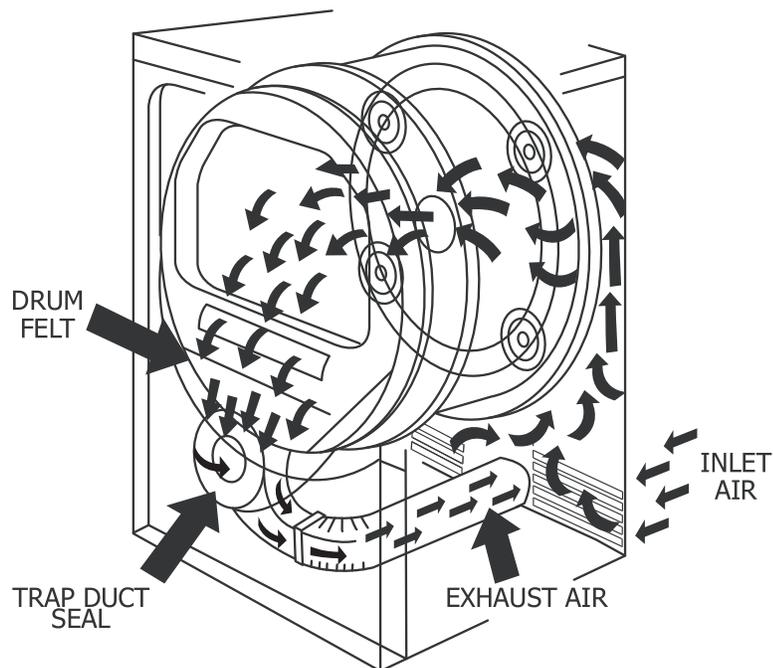
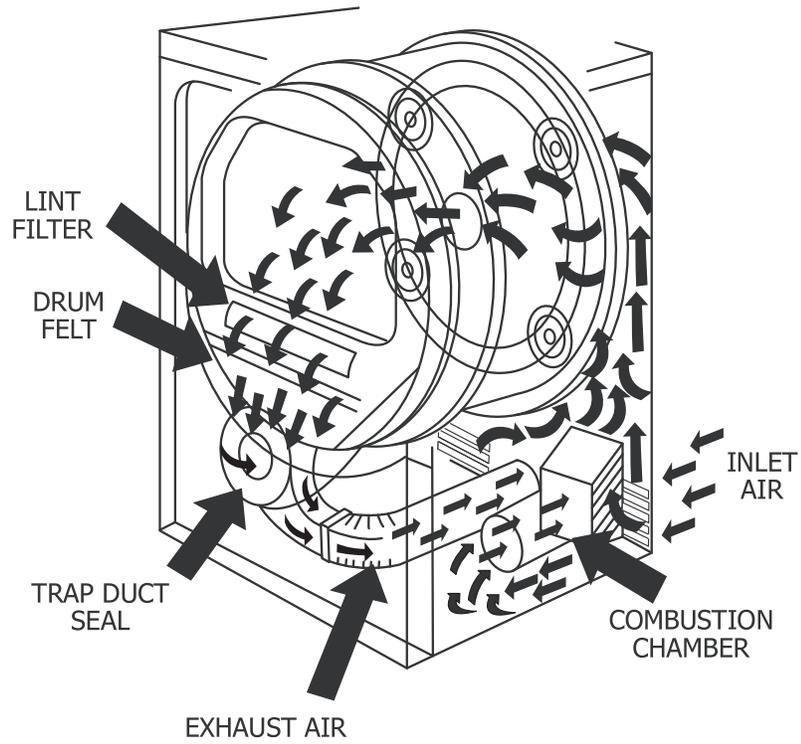
Dryer Air Flow System



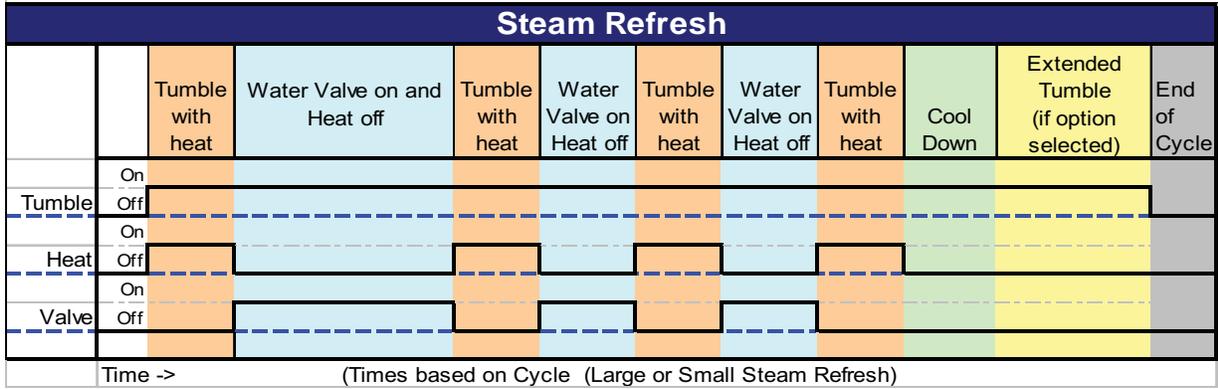
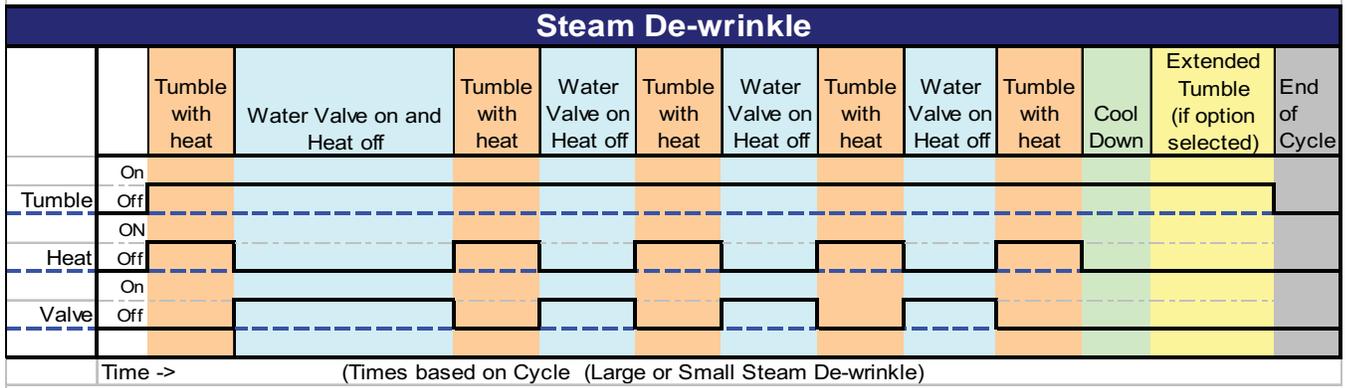
The typical dryer cycle progresses as follows:

1. A cycle is selected and the start key is pressed.
2. The motor is activated.
3. The heater elements (burner for gas models) are activated. The elements (burner) 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 (burner for gas models) are activated. The elements (burner) cycle on and off until the load has achieved the desired dryness level.
5. If timed drying is selected, the heater elements (burner for gas models) are activated and cycle on and off for the selected time at the selected temperature.
6. If *STEAM DEWRINKLE* or *STEAM REFRESH* is selected, the water valve is activated during heater elements cycle on time (burner on time for gas models). See Cycle Matrix Chart on page 15.
7. The heater elements (burner for gas models) discontinue operation after the dryness level or elapsed time has been achieved.
8. The motor continues operating until the clothes temperature drops below specified temperature (Cool Down).
9. The display turns off.

Airflow

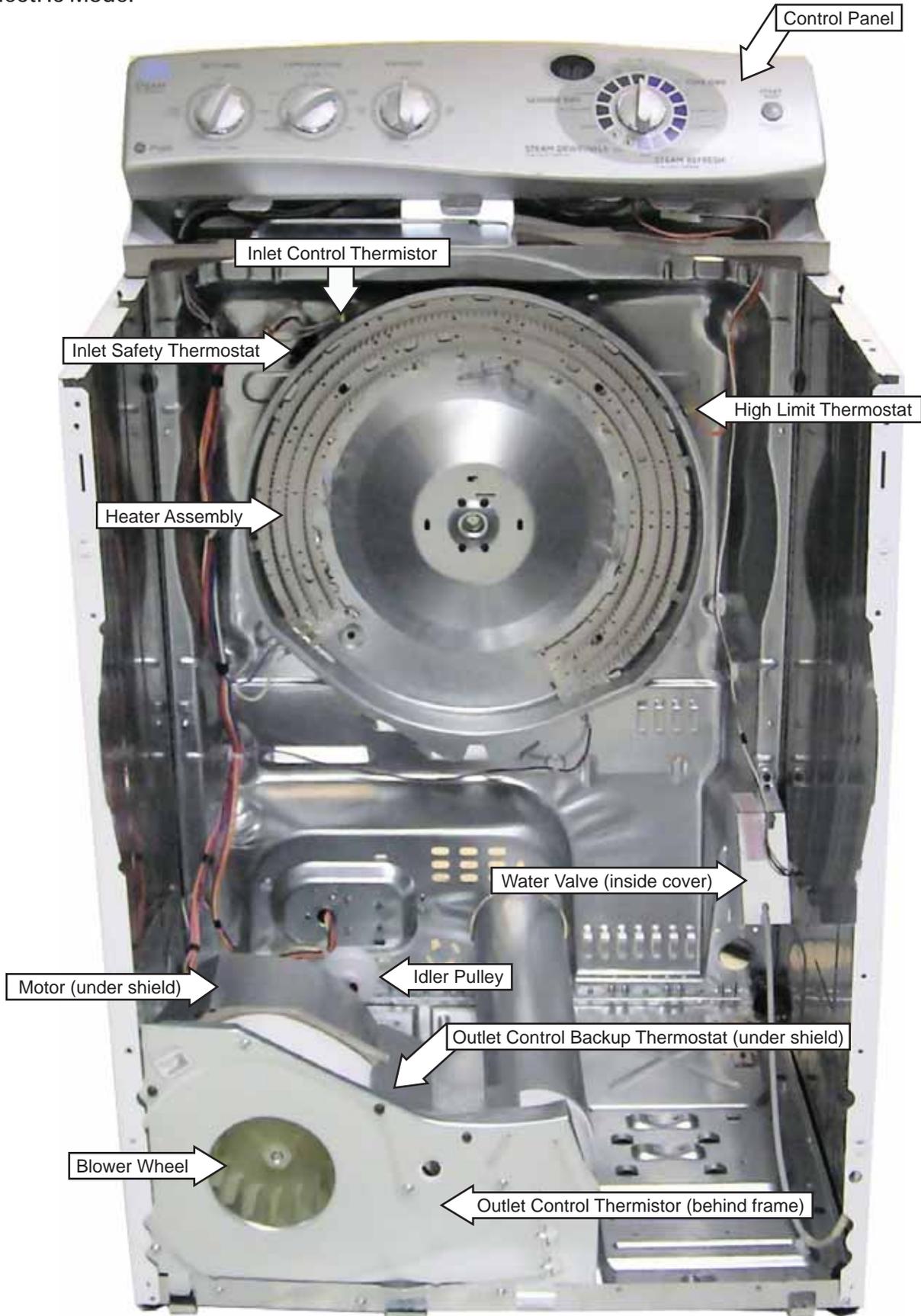


Cycle Matrix Chart

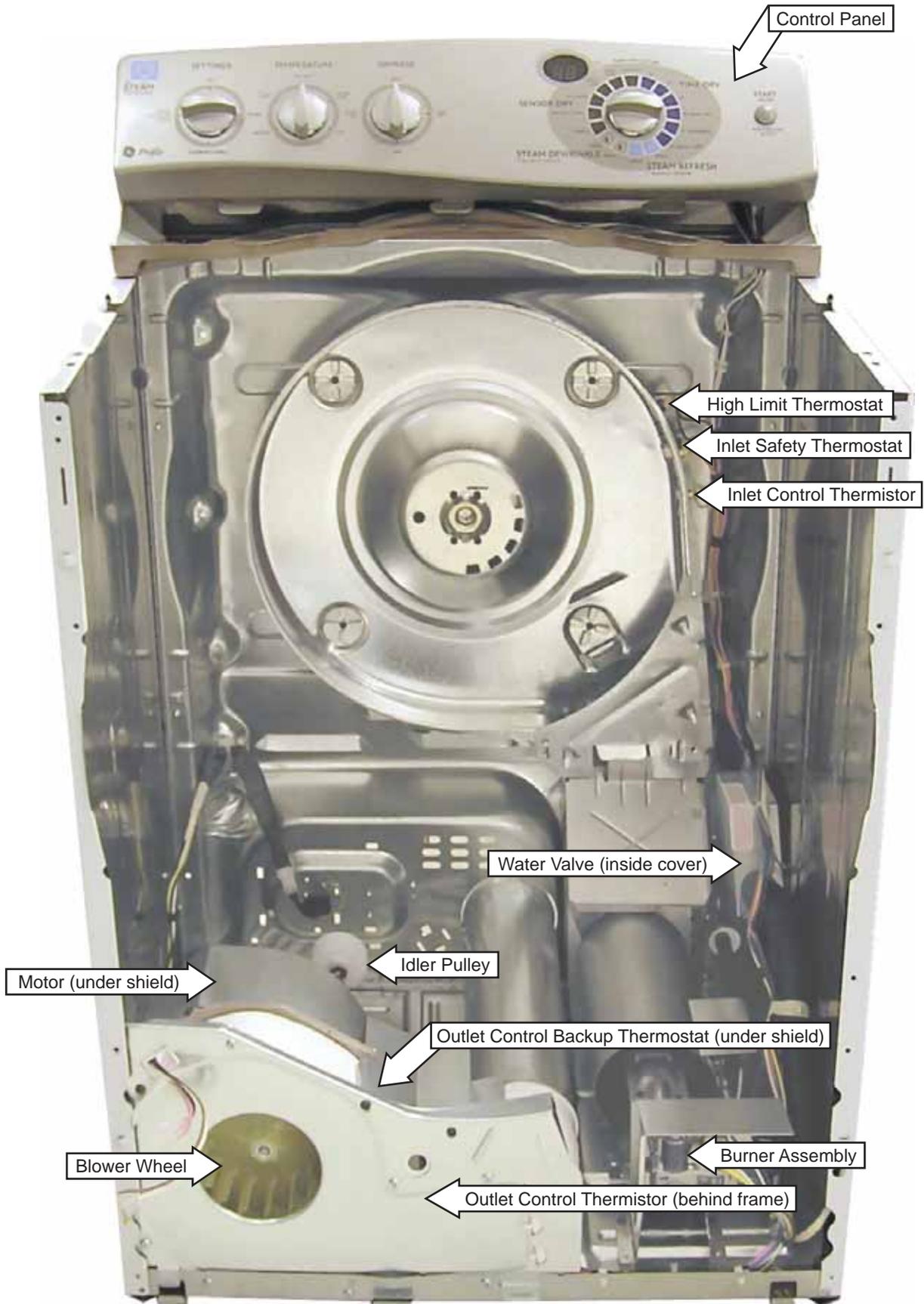


Component Locator Views

Electric Model

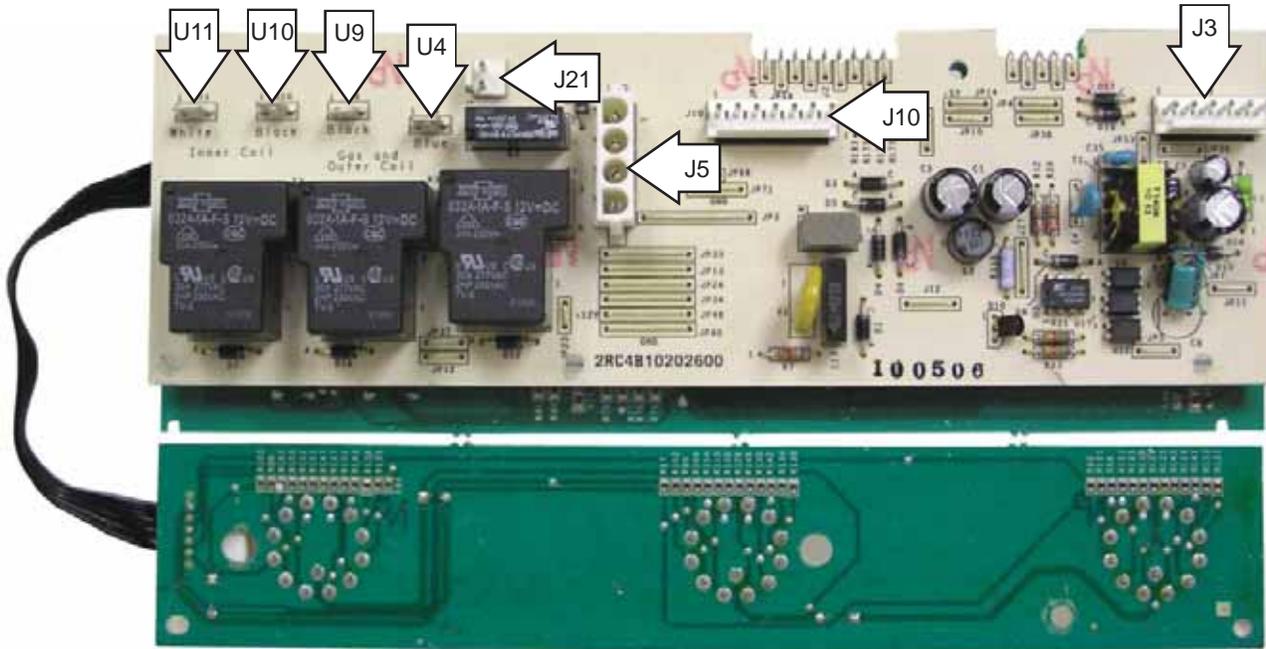


Gas Model



Control Board Connector Locator View

Electronic Control - Rear View (Electric and Gas Models)



J3 - Model Selector

J5 - L1 and Neutral Supply to Control Board, Door State Signal, Water Valve, Motor

J10 - Moisture Sensor Rods, Outlet Control Thermistor, Inlet Control Thermistor

J21 - Water Valve Relay

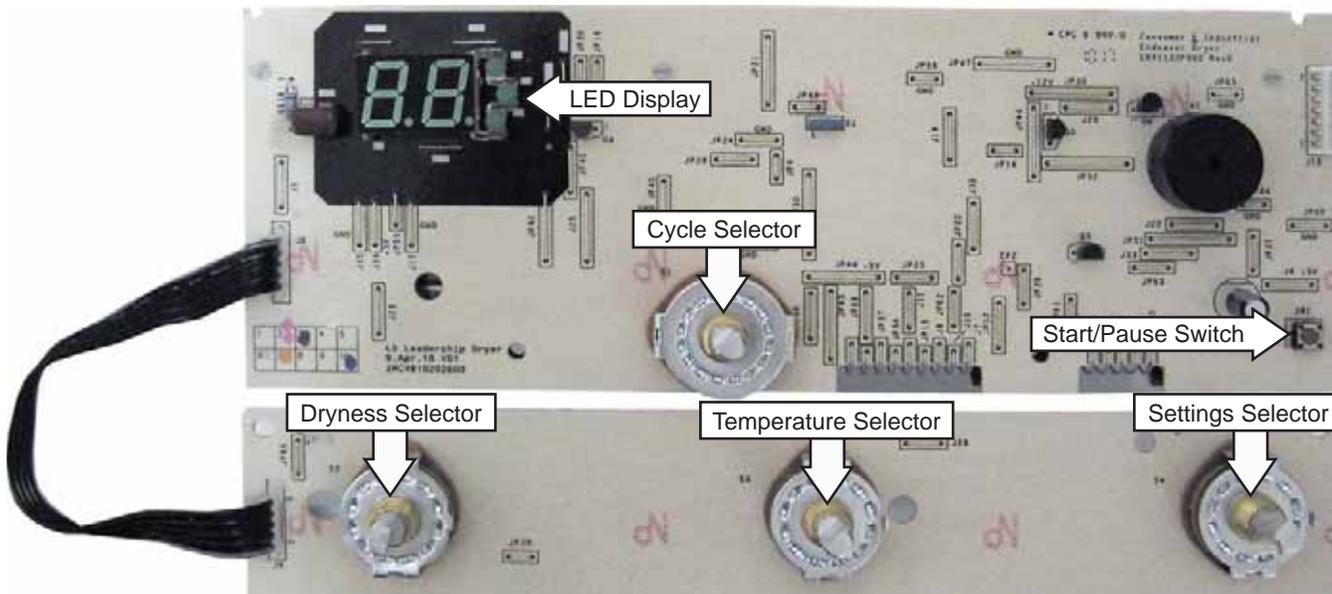
U4 - Outer Coil (Electric Heat), Gas Valve (Gas Heat)

U9 - Outer Coil L1 (Electric Heat), Line (Gas Heat)

U10 - Inner Coil L1 (Electric Heat)

U11 - Inner Coil (Electric Heat)

Electronic Control - Front View (Electric and Gas Models)



Dryer Components

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

Caution: After any service, repair, or installation of a new component, ensure all vapor shields are properly installed.

Note: Combined Phillips-head/square-drive recess screws are utilized throughout this appliance. Either Phillips or square-drive screwdrivers can be used to extract or install these screws.

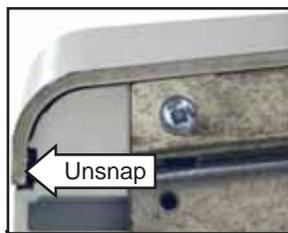
Control Panel

It is necessary to remove the control panel from the backguard and place it in the service position to access the control board. The control panel is attached to the dryer with 4 Phillips-head screws and 3 lock tabs that protrude from the bottom.

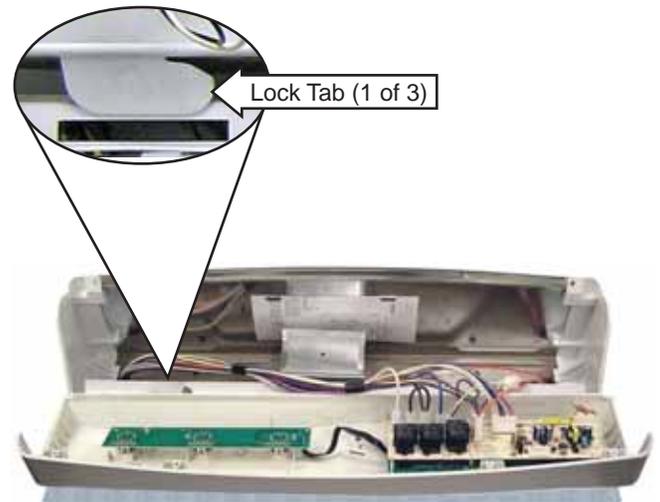
Caution: To prevent damage to the control panel, place a protective surface on the top panel.

To place the control panel in the service position:

1. Remove 4 screws from the rear of the control panel.
2. Gently pull on each corner to unsnap the control panel from the sides of the unit.



3. Rotate the control panel forward approximately 1 inch, then slide it to the right to unlock the 3 bottom lock tabs.
4. Lift up the panel and place it facedown on the protective surface.



Service Position

Top Panel

The top panel is fastened at the front by 2 screws and at the rear by 3 lock tabs that protrude from the bottom of the control panel.

To remove the top panel:

1. Remove the control panel. (See *Control Panel*.)
2. Remove 2 screws that secure the top panel to the cabinet.
3. Pull the top cover toward you while lifting up the front edge to release the side catches. Slide the top cover to the left to release it from the 3 tabs.



Front Panel

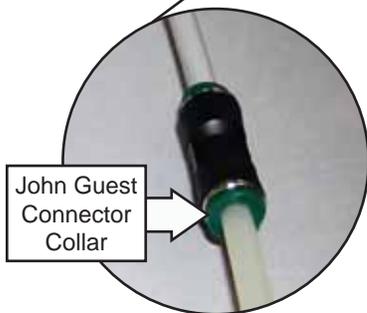
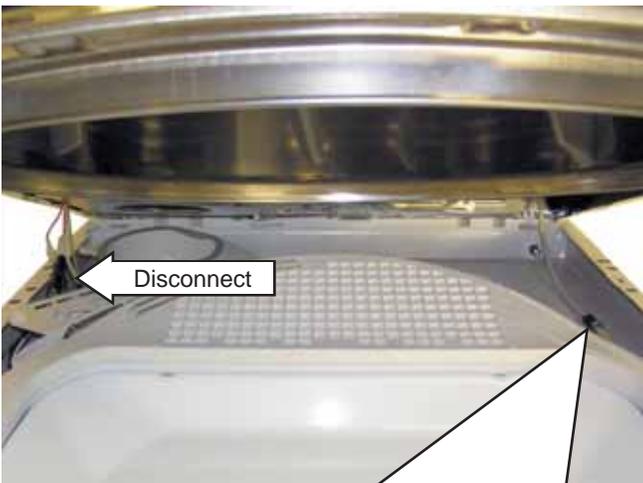
The front panel is fastened to the cabinet at the inside front by 2 screws and at the bottom by 3 tabs protruding from the base of the cabinet.

To remove the front panel:

1. Remove the top panel. (See *Top Panel*.)
2. Remove 2 screws from the front inside edge of the front panel.



3. Tilt the top edge of the front panel out and disconnect wiring to the door switch, light, and sensor rods.
4. Press on the John Guest connector collar and release the water line.

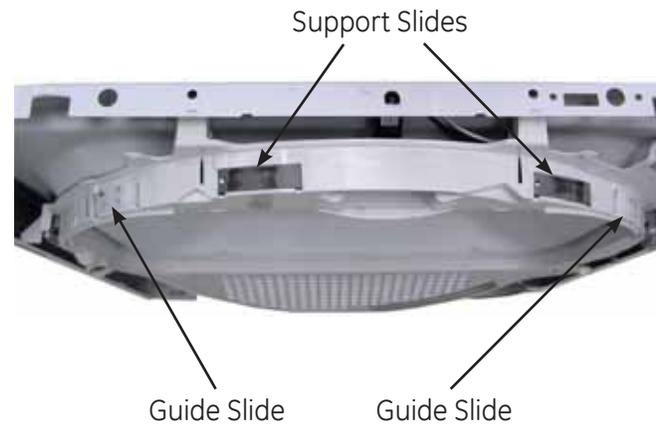


5. Lift the front panel off the bottom 3 tabs.

Drum Slide Assembly

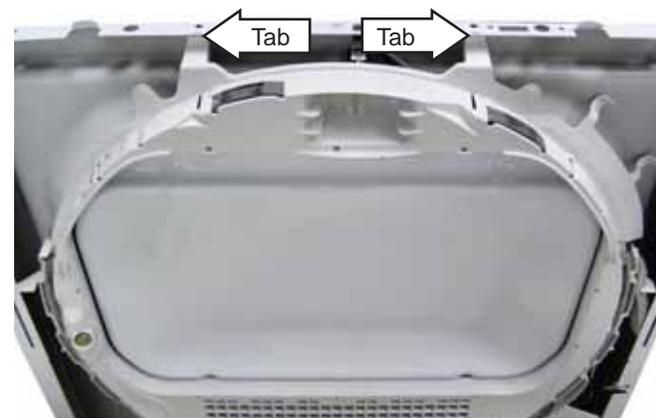
The drum slide assembly is located on the back side of the front panel and utilizes 4 drum slides. Two white outer slides are used as guides, and 2 dark color center (top) slides are used to support the weight of the drum. When replacing the slides, the dark-colored support slides must be used to replace the top support slides. Guide slides may also be replaced with support slides.

Caution: Do not replace the center (top) support slides with the white guide slides. Damage to the dryer will result.



To remove the drum slide assembly:

1. Remove the top and front panels. (See *Top Panel* and *Front Panel*.)
2. Remove the light bulb.
3. Grasp the top of the drum slide assembly and pull down and inward to release the assembly from the 2 tabs located at the top of the front panel.



Air Duct Assembly

The air duct assembly houses the drum seal, steam nozzle, and the 2 sensor rods. It is located on the back side of the front panel.

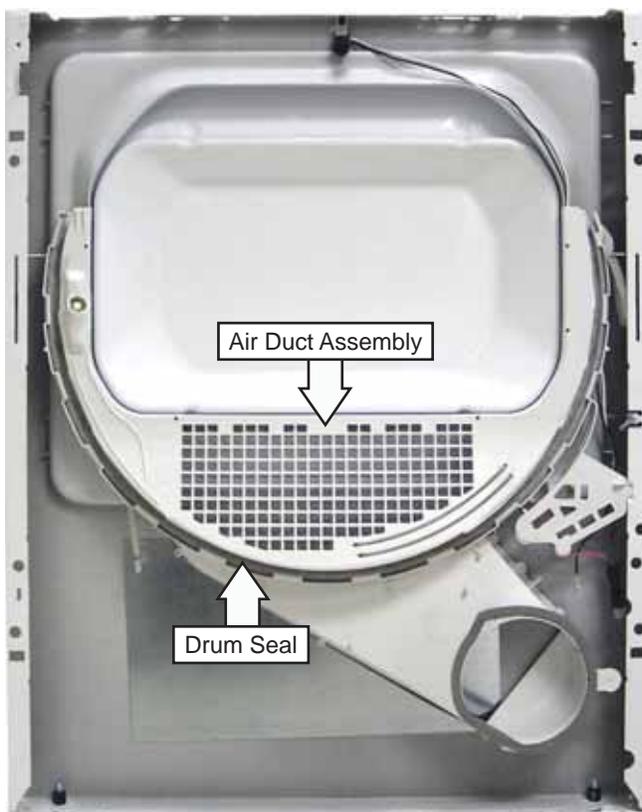
Note: The sensor rods are part of the air duct assembly. To replace the sensor rods, the air duct assembly must be replaced.

To remove the air duct assembly:

1. Remove the top and front panels. (See *Top Panel* and *Front Panel*.)
2. Remove the drum slide assembly. (See *Drum Slide Assembly*.)
3. Grasp each side of the air duct assembly and unsnap the air duct from the front panel.
4. Disconnect the sensor wires.

Caution: Upon reassembly, ensure that the door switch, drum light, and sensor wiring are retained and routed properly to avoid contact with the drum.

Note: The drum seal can be replaced by extracting the seal from the channel located in the air duct assembly.



Steam Nozzle

The steam nozzle is located inside the front of the dryer on the right side of the air duct assembly. The steam nozzle consists of a brass orifice and a fine filter screen. If the orifice should become plugged or restricted, it should not be cleaned. Replace a plugged or restricted steam nozzle.



The steam nozzle can be replaced without disassembly of the dryer. Replacement can be performed by opening the dryer door to access the steam nozzle. A 7/16" or 11-mm nut driver can be used to unscrew the nozzle from the air duct assembly.



Note: The replacement steam nozzle will have thread lock pre-applied to the screw threads.

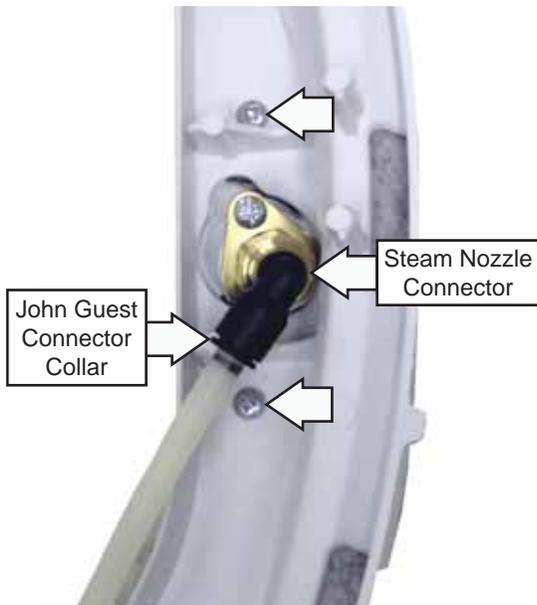


Nozzle with Thread Lock Applied

(Continued Next Page)

To replace the steam nozzle connector:

1. Remove the air duct assembly.
2. Press on the John Guest connector collar and release the water line from the steam nozzle connector.
3. Remove the 2 Phillips-head screws that attach the nozzle housing to the air duct.
4. Pull the nozzle housing out from the air duct.



5. Remove the Phillips-head screw that attaches the nozzle to the nozzle housing.



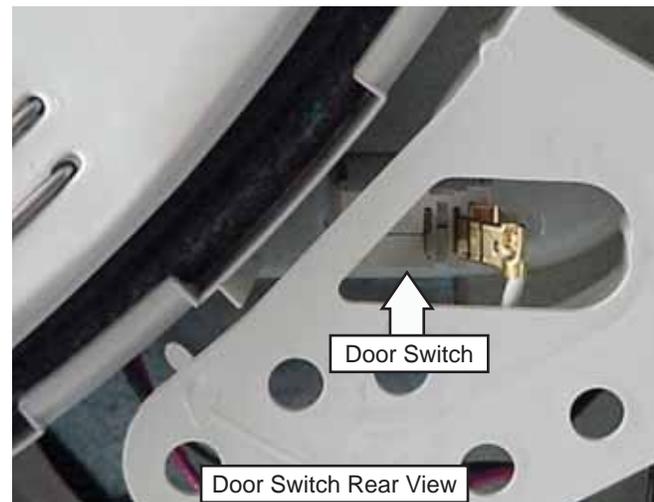
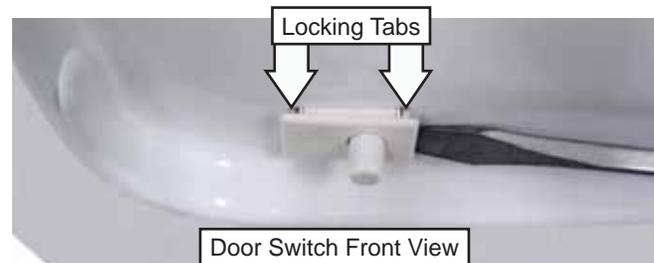
6. Pull the nozzle connector out of the housing.

Door Switch

The door switch is fastened to the front panel by 2 locking tabs (1 on each side). When the dryer door is closed, the switch will complete the drum motor circuit, allowing dryer operation. When the door is open, the switch will open the drum motor circuit, interrupting dryer operation. Opening the dryer door will also cause the door switch to close the drum light circuit, allowing the drum light to be energized.

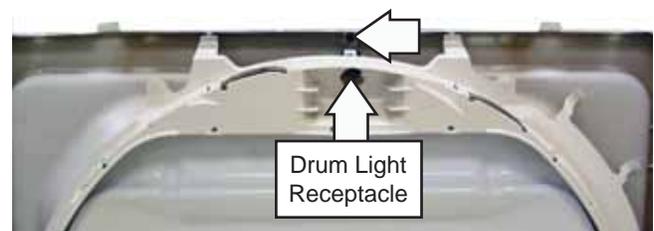
Operation of the inlet control thermistor can be checked by using service test mode t9. (See *Service Test Mode*.)

Specific failures associated with the door switch can initiate error code E6. (See *Service Test Mode*.)



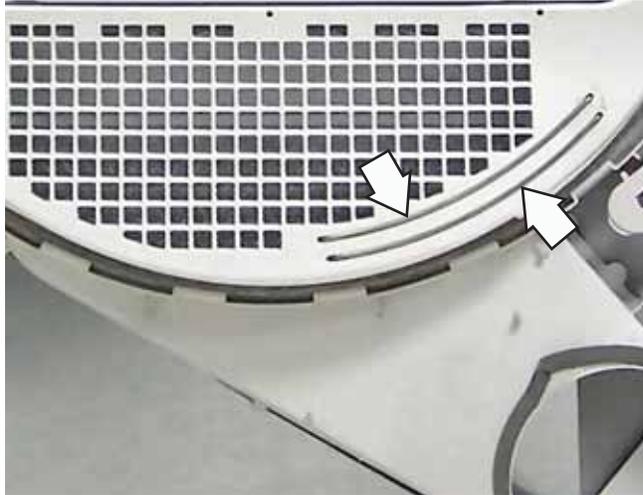
Drum Light Receptacle

The drum light receptacle is attached to the inside of the front panel with a single Phillips-head screw. It is necessary to remove the front panel and drum slide assembly to replace the drum light receptacle.



Moisture Sensor

The moisture-sensing circuit consists of 2 sensor rods. They are mounted beneath the lint filter on the drum side of the air duct.



Note: The 2 sensor rods in the air duct assembly are not replaceable. To replace the sensor rods, replace the air duct assembly. (See *Air Duct Assembly*.)

- The sensor rods are connected to the main control board. The rods are spaced approximately 1/2-in. apart, creating an open circuit to the control.
- The control board utilizes a low-voltage capacitor that is located in the wire harness near the sensor rods and can be replaced as a separate component.
- The capacitor 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 rods, the clothes create a very low resistance between the rods. 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.
- 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 sensor rods. This could produce a false dryness reading.

- Empty drum detection is not required for these models. The control shall run for the minimum dry time if no load is present.

The dryer will signal when the clothes are at 17% moisture level if equipped with a damp signal that has been selected.

Approximate values for dryness level:

Damp = 17%

Less dry = 10%

Dry = 2-6%

More dry = <2%

Operation of the moisture sensor can be checked by using service test mode t8. (See *Service Test Mode*.)

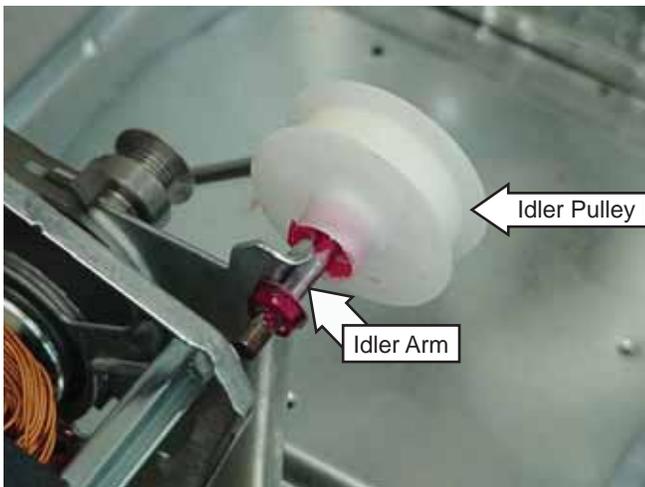
Drive Belt

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

The drive belt (Part #WE12M22) is a 4-rib belt and extends from under the motor pulley, over the top of the idler pulley, and around the perimeter of the dryer drum. (See belt diagram.) Belt tension is maintained by the idler pulley and driven by a pulley attached to the motor shaft.

To remove the drive belt:

1. Remove the top and front panels. (See *Top Panel*, and *Front Panel*.)
2. Reach under the left-hand side of the drum, push the idler pulley down and to the right, and lock the idler arm on the top corner of the motor bracket to release belt tension. (See photo. Drum removed for clarity.)



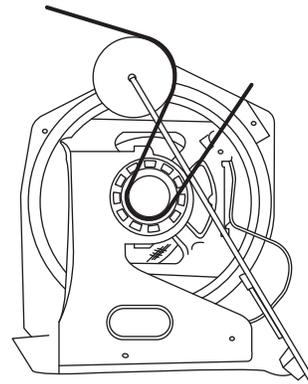
3. Remove the belt from the motor pulley and remove through the front of the dryer.

To install the drive belt:

1. Remove the top and front panels. (See *Top Panel and Front Panel*.)
2. Reach under the left-hand side of the drum, push the idler pulley down and to the right, and lock the pulley shaft on the top corner of the motor bracket. (See photo.)
3. Place the belt in position around the center of the drum through the front of the dryer.
4. Place the belt in position around the motor pulley (see diagram), release the idler pulley from the motor bracket, and guide onto the belt.

Note: Check to make sure the belt is in place and not twisted before installing the top and front panels.

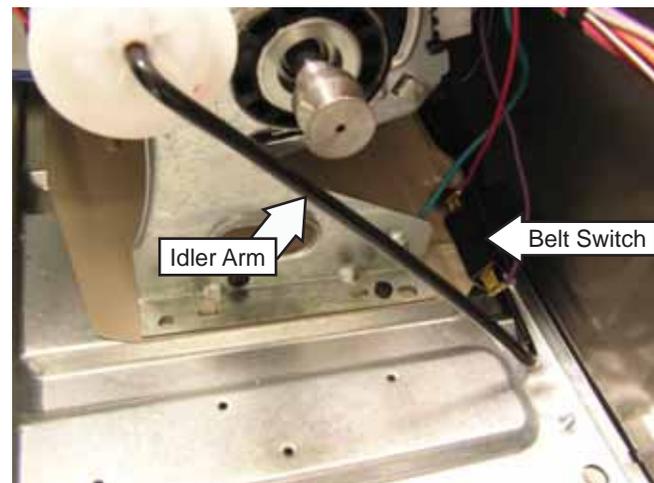
Belt Installed on Pulleys



Belt Switch

A belt switch, activated by the idler arm, is fastened to the motor bracket by 2 screws. Should the drive belt break, the belt switch will open the drive motor circuit, interrupting dryer operation.

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

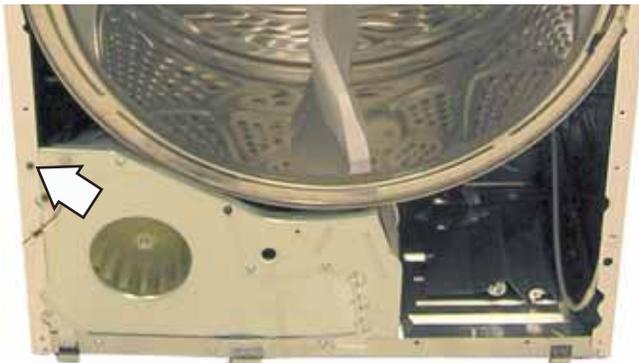


Drum

The drum is made of 304 stainless steel and has three replaceable baffles.

To remove the drum:

1. Remove the top and front panels. (See *Top Panel* and *Front Panel*.)
2. Remove the drive belt from the motor. (See *Drive Belt*.)
3. Remove the Phillips-head screw from the left side of the cabinet and gently spread the sides apart to provide clearance for the tub.



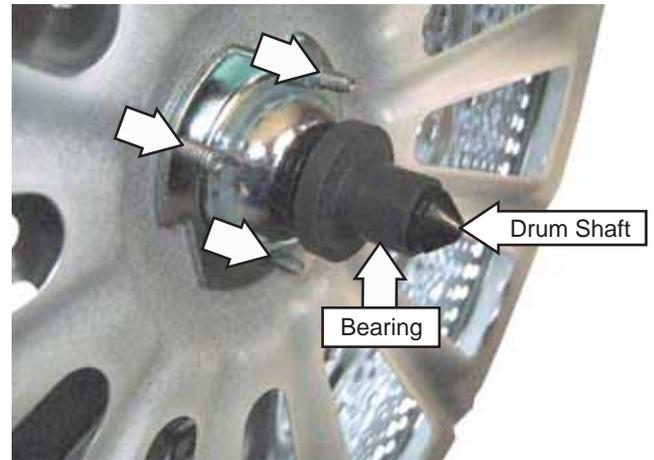
4. Using the belt as a handle, pull the drum forward and guide out of the cabinet.



Drum Shaft and Bearing

The drum shaft is attached to the rear of the drum with three T-20 Torx screws. The bearing can be removed by pulling it off the shaft. The drum shaft and bearing fit into the bearing retainer in the center of the heater assembly (electric models) or diffuser assembly (gas models).

To access the drum shaft and bearing, it is necessary to remove the drum. (See *Drum*.)



Idler Assembly

The idler assembly maintains proper tension on the belt to minimize belt slippage. The idler assembly consists of an idler pulley that rotates on an idler arm. The pulley is retained on the arm using a cap nut. The idler arm is positioned on the chassis and inserted in a slot in the motor base plate. The assembly is located to the left of the motor.

To remove the idler assembly:

1. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum*.)

WARNING: The idler arm is under high tension. To prevent injury, do not let the idler arm snap back.

2. Release tension on the idler assembly by unlocking the idler arm from the top right corner of the motor support.
3. Remove the idler arm from the slot in the motor base plate.



4. Remove the idler assembly from the dryer.

Water Inlet Valve

The water inlet valve is located inside the cabinet at the bottom right hand corner. The water valve is enclosed under a metal cover. The cover is attached to the dryer with a Phillips-head screw and a tab located at the bottom.

The valve has an approximate resistance value of 563 Ω .

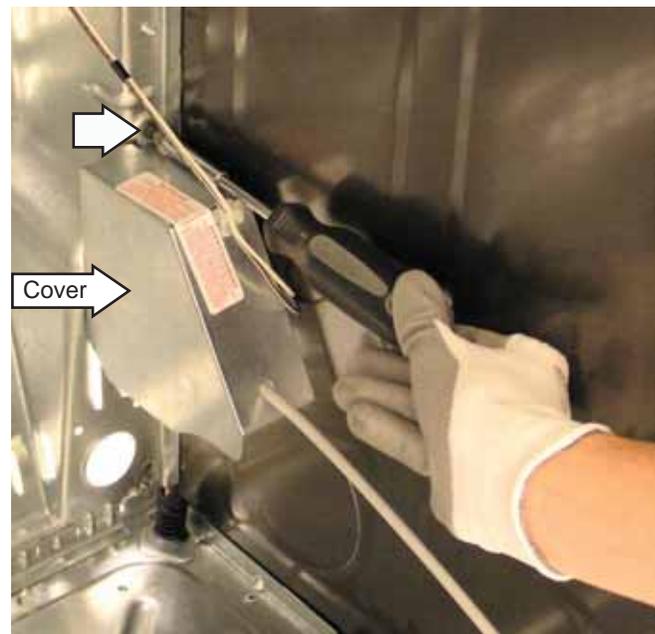
Operation of the water inlet valve can be checked by using service test mode tb. (See *Service Test Mode*.)

To replace the inlet water valve:

1. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum*.)
2. On gas models, cut the wire harness tie that is attached to the valve cover. (Not necessary on electric dryers)

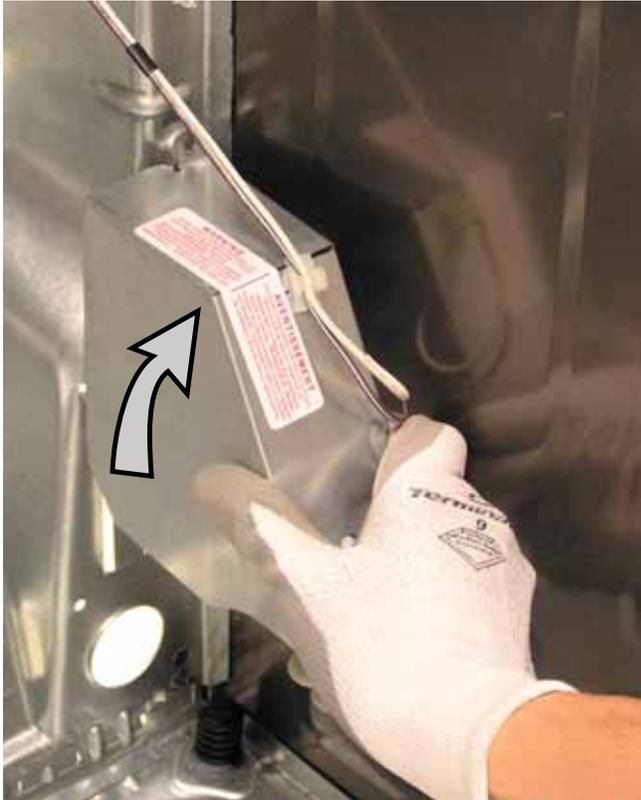
Note: Wire tie must be replaced for correct harness routing. A new wire tie is included with the replacement water valve.

3. Remove the Phillips screw that holds the top of the cover to the cabinet.



(Continued Next Page)

4. Rotate the valve cover towards the front of the cabinet until the inlet hose clears the back of the cabinet. Then lift the assembly to clear the bottom locking tab to release.

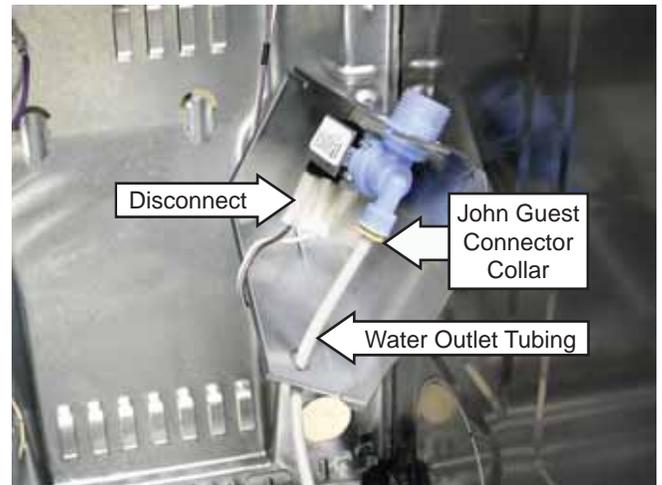


Note: In the following steps, capture any residual water that may escape from the valve, fill hose, and tubing.

5. Once the assembly is free, disconnect the water inlet hose.



6. Disconnect the coil wiring.
7. Press the John Guest connector collar and remove the water outlet tubing.



8. Slide the water inlet valve out from the slot.

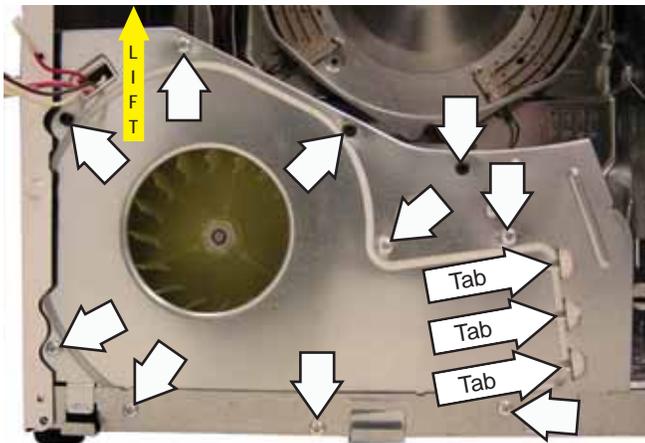


Blower Wheel

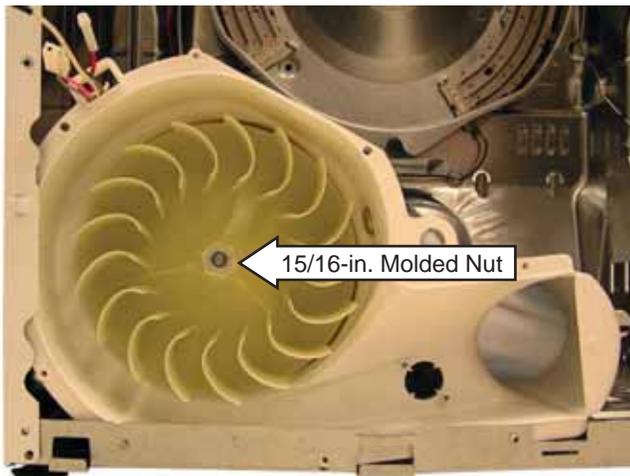
The blower wheel is held to the motor shaft with a 15/16-in. (24-mm) molded nut. To remove the blower wheel, it is not necessary to remove the motor from the front frame. The blower wheel can be removed by removing the front frame from the chassis. The front frame is attached to the chassis with 10 Phillips-head screws and 3 tabs.

To remove the blower wheel:

1. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum.*)
2. Remove the door wiring from the entry hole in the top left corner of the front frame.
3. Remove the 10 Phillips-head screws and the thermostat shield from the front frame.
4. Lift the front frame up from the left side to clear the bottom 2 tabs and the 3 duct tabs.



5. Hold the motor shaft from turning and use a 15/16-in. (24-mm) socket to remove the blower wheel from the motor shaft.



Motor

The motor is a single-speed, dual-shaft, 1/4-hp, 1725-rpm motor with an automatic reset overload protector. The overload protector is an internal component of the motor and cannot be replaced separately. The motor contains a centrifugal switch that serves three purposes: It disengages the motor start winding (M6), engages the motor run winding (M5), and closes the circuit contacts (M1 to M2) for the heat source.

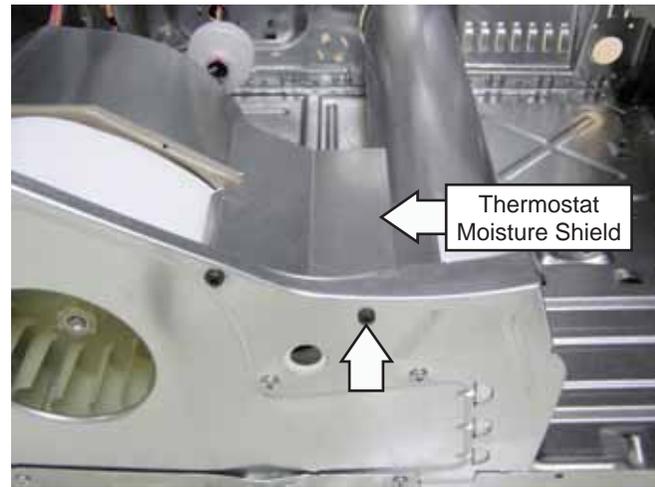
Motor resistance values:

Start winding = 5 ohms

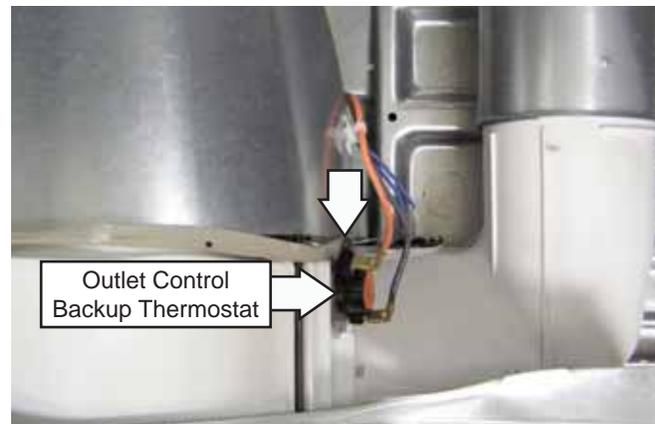
Run winding = 4 ohms

To remove the motor:

1. Disconnect power to the unit.
2. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum.*)
3. Remove the Phillips-head screw and the thermostat moisture shield from the front frame.



4. Remove the Phillips-head screw and the outlet control backup thermostat from the blower housing.

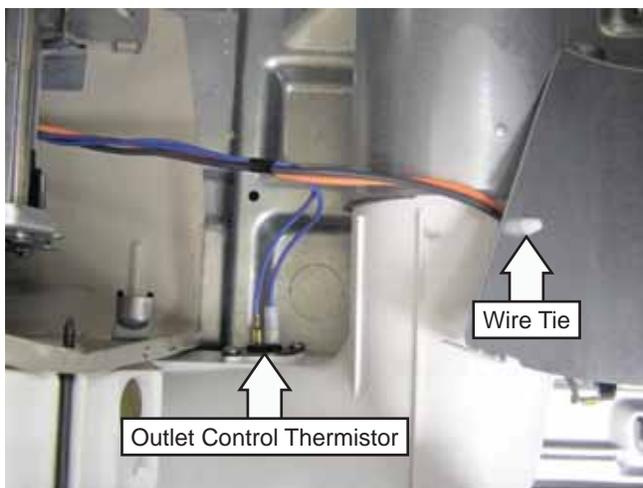


Note: In the following step, the motor moisture shield is attached to the motor bracket with a Phillips-head screw and 2 tabs that engage a slots in the motor bracket.

5. Remove the Phillips-head screw, then disengage the motor moisture shield from the motor bracket.

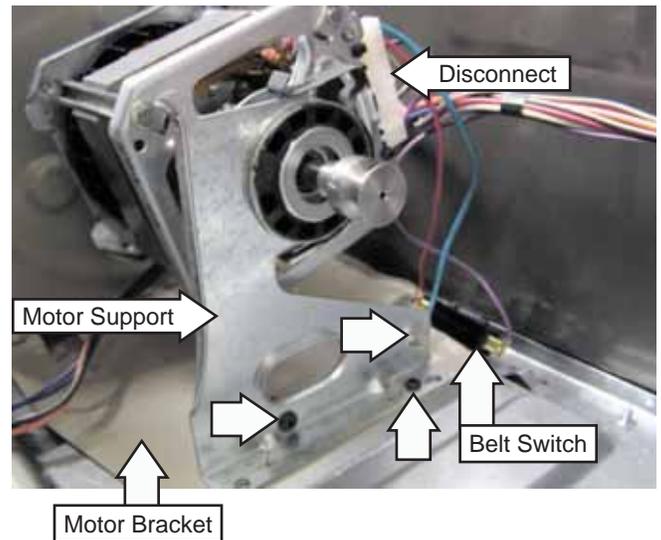


6. Invert the motor moisture shield, then compress and remove the wire tie from the shield.
7. Disconnect wires attached to the outlet control thermistor.

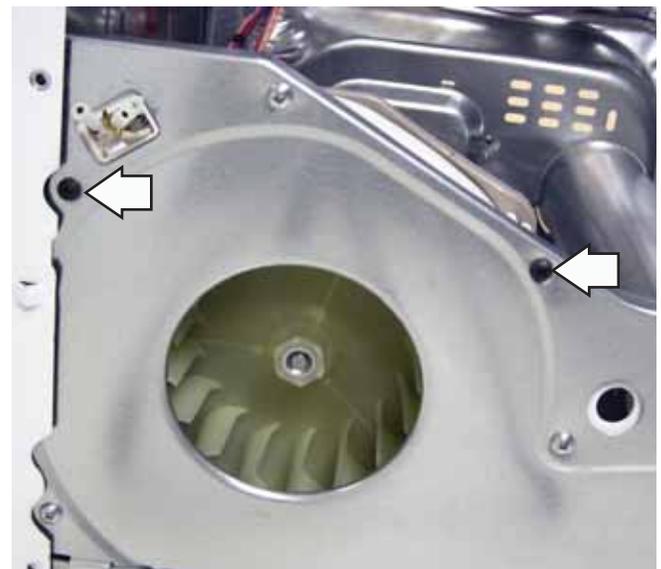


8. Remove the idler pulley assembly from the motor bracket. (See *Idler Pulley*.)

9. Disconnect the motor wire harness.
10. Disconnect the wires attached to the belt switch.
11. Remove the 1/4-in. hex-head screw that attaches the ground wire to the motor support.
12. Remove the single vertical and single horizontal Phillips-head screws that attach the motor bracket and motor support to the chassis.



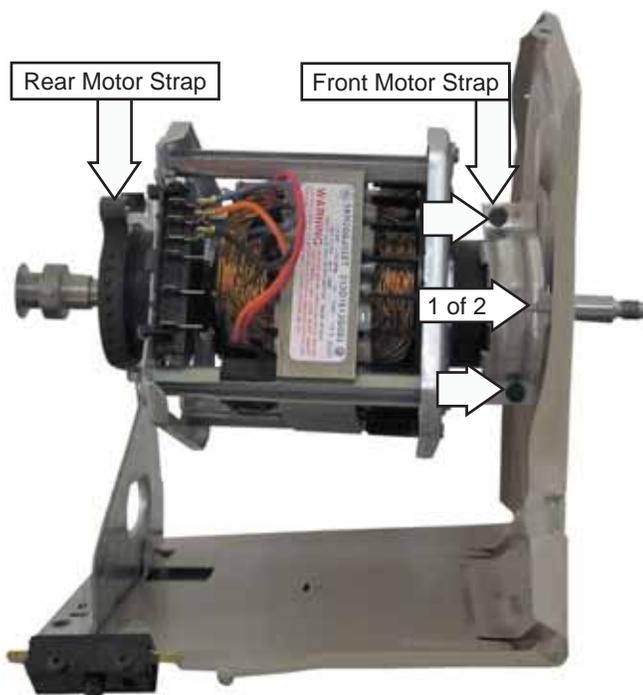
13. Remove the 2 Phillips-head screws that hold the top of the motor base plate to the blower housing.



14. Raise the rear of the motor bracket to clear the tab protruding from the bottom of the chassis. Slide the motor bracket back until the bracket tabs clear the slots in the chassis. Remove the motor and blower wheel assembly from the chassis.

Note: When installing the motor and blower wheel assembly, ensure that the 2 rear tabs on the motor bracket are inserted into the slots in the motor support, and the 2 front tabs on the motor bracket are inserted into slots provided in the chassis.

15. Hold the motor shaft from turning and use a 15/16-in. (24-mm) socket to remove the blower wheel from the motor shaft. (See *Blower Wheel*, step 5.)
16. Remove the 2 Phillips-head screws that attach the front motor strap to the motor bracket.
17. Lift and remove the motor and motor support from the motor bracket.
18. Compress and remove the rear motor strap from the motor support.
19. Note the position of the front motor strap. Loosen the two 1/4-in. hex-head screws and remove the front motor strap from the motor.



Note:

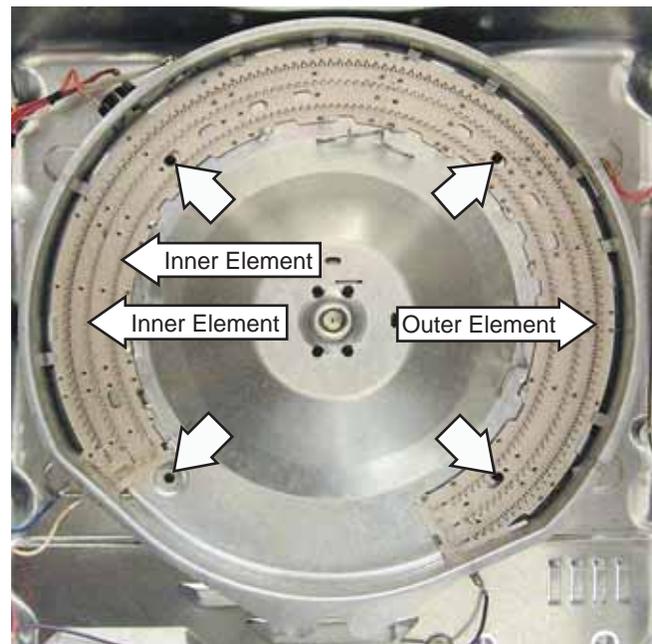
1. When installing the motor to the motor bracket, install the motor with the motor harness terminals at the 9:30 o'clock position.
2. After installing the motor, ensure both moisture shields are properly installed.

Heater Assembly

The heater assembly is located behind the drum. It consists of inner and outer open-wire elements, each formed in a zigzag pattern fastened to a single housing. The inner element consists of 2 elements wired in parallel with each. The inner element and the outer element are controlled by separate relays on the control board.

When energized, the outer element draws approximately 12.5 amps at 240 VAC. The outer element has a resistance value of 19.2 Ω . When energized, the 2 inner elements draw approximately 12.5 amps at 240 VAC. The 2 inner elements have a combined resistance value of 19.2 Ω .

To access the heater assembly, it is necessary to remove the top panel, front panel, and drum. (See *Top Panel*, *Front Panel*, and *Drum*.) Lead wires can then be removed from the elements, inlet safety thermostat, inlet control thermistor, and high limit thermostat. (See *Component Locator Views*.) The heater assembly is attached to the cabinet with 4 Phillips-head screws.



Burner Assembly and LP Conversion

The burner assembly consists of the gas valve coils, gas valve, burner, and inlet pipe.

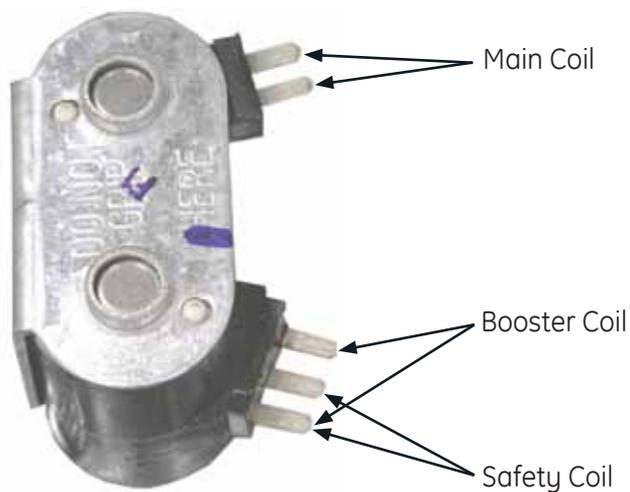
To convert the dryer from natural gas to LP gas, the burner assembly must be replaced. The burner cannot be converted to LP gas. Refer to LP conversion kit WE25x217.

Gas Valve Coils

The burner assembly has a gas valve that utilizes 3 coils. A double coil (safety and booster coils combined) and a single main coil are located on top of the gas valve in front of the combustion chamber opening. All coils can be replaced separately.

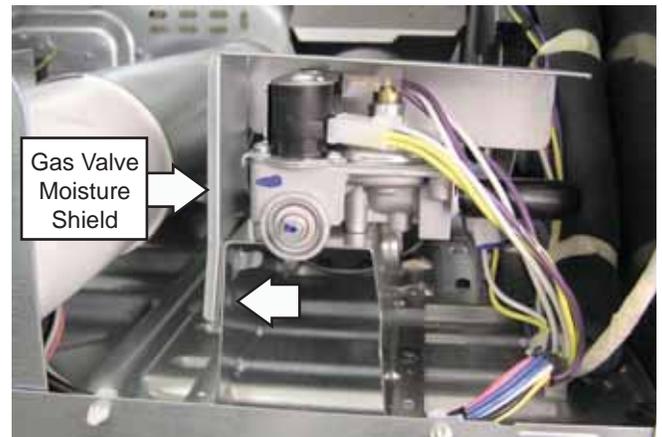
Gas valve coil assembly resistance values:

- Safety coil terminals - 1400 Ω
- Booster coil terminals - 580 Ω
- Main coil terminals - 1300 Ω

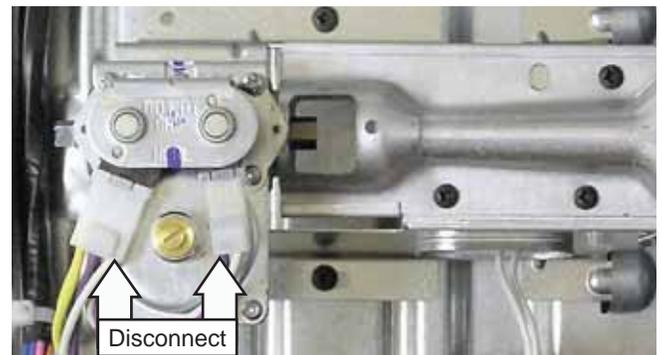


To remove the double and main coils:

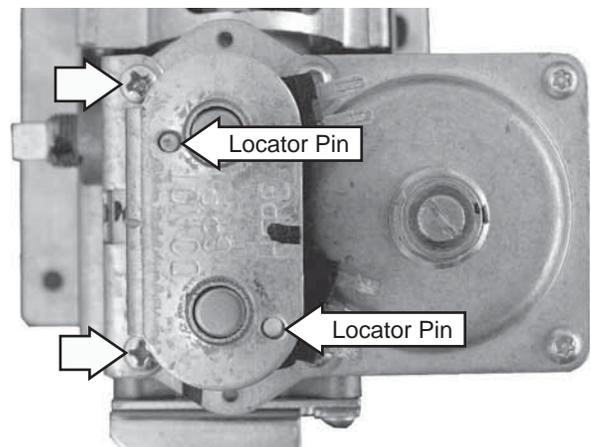
1. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum*.)
2. Remove the Phillips-head screw then pull the gas valve moisture shield forward.



3. Disconnect the wire harness from both coils.



4. Note the position of the locator pins inserted in the coil bracket.
5. Remove the 2 Phillips-head screws that attach the coil bracket to the valve body.



6. Lift the bracket vertically. Lift coils to remove.

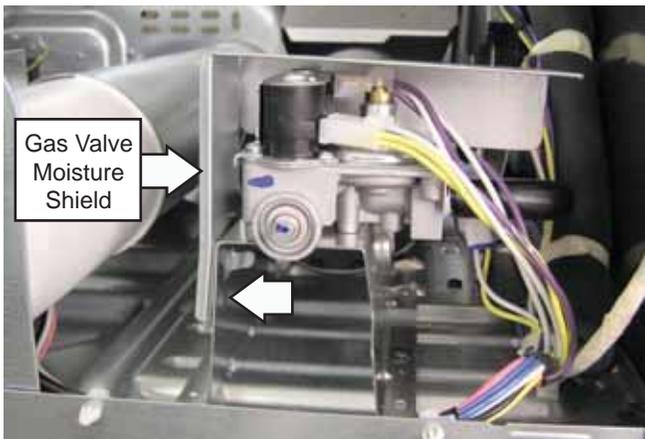
Note: Upon reassembly, ensure the locator pins are inserted into the holes provided in the coil bracket.

Gas Valve

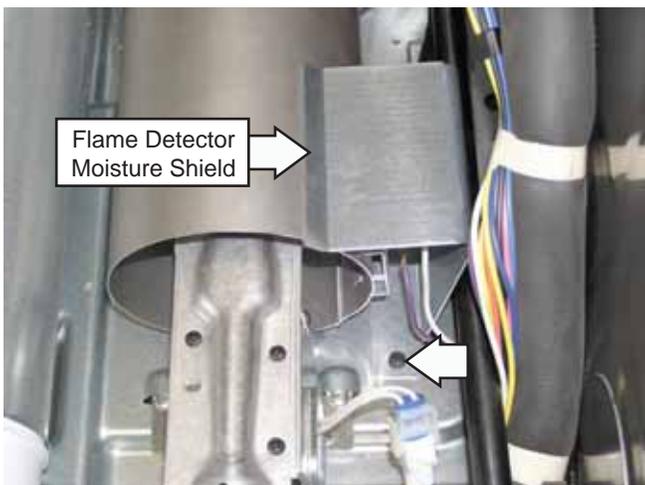
The gas valve is attached to a bracket located in the bottom, right, front corner of the dryer cabinet.

To remove the gas valve:

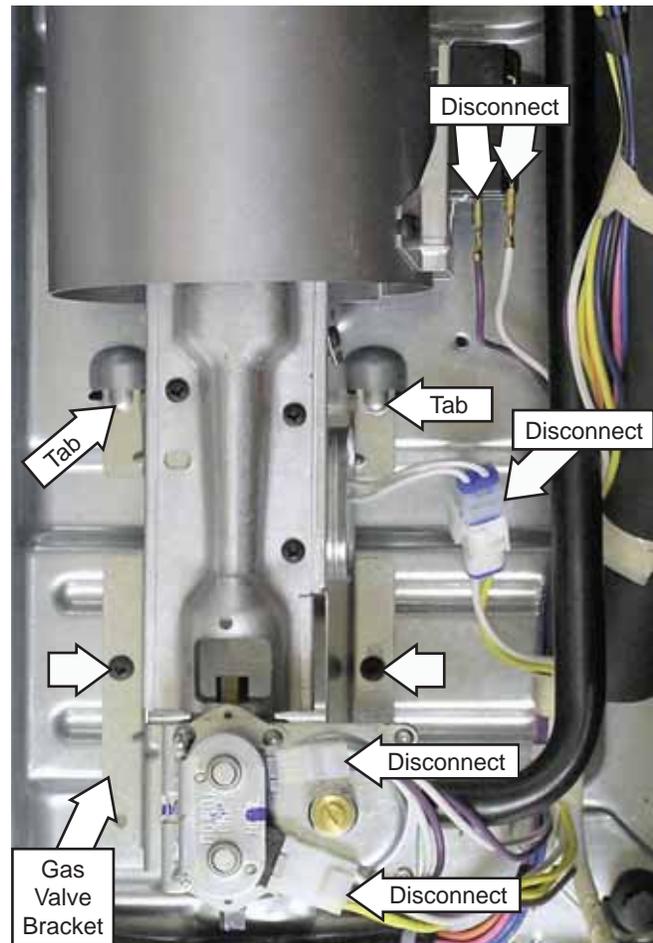
1. Shut off the gas supply to the unit.
2. Disconnect gas supply from the burner inlet pipe.
3. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum.*)
4. Remove the Phillips-head screw and pull the gas valve moisture shield forward.



5. Remove the Phillips-head screw that attaches the flame detector moisture shield to the dryer floor.
6. Pull the shield forward to release it from the combustion chamber.



7. Disconnect the ignitor wire harness and the 2 wires from the flame detector.
8. Disconnect the coil wire harness from each coil.
9. Remove the 2 Phillips-head screws that attach the gas valve bracket to the dryer floor.
10. Pull the bracket toward the front of the dryer to disengage tabs from dryer floor.



11. Remove the coils from the gas valve. (See *Gas Valve Coils.*)
12. Turn the bracket over. Remove the 3 Phillips-head screws that attach the gas valve to the gas valve bracket.

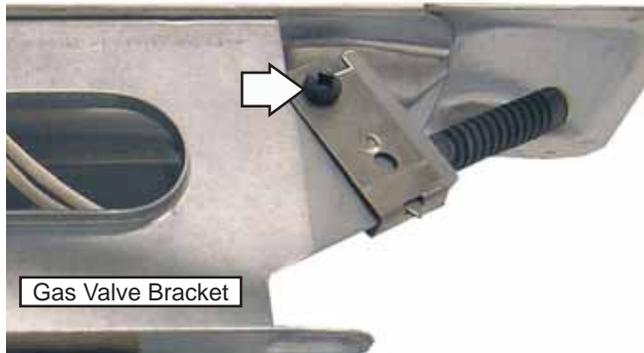
Caution: The ignitor is very fragile. To prevent breaking the ignitor, care must be taken when installing the gas valve.

Note: Upon reassembly, ensure the gas valve bracket is inserted under the 2 tabs located in the dryer floor.

Ignitor

The ignitor is located at the end of the burner assembly in the combustion chamber opening and has a maximum rating of 4 amps. The ignitor has an approximate resistance value of 300 to 500 Ω .

The ignitor is attached to the gas valve bracket with a Phillips-head screw. To access the ignitor, it is necessary to remove the burner assembly. (See *Gas Valve*, steps 1 through 9.)



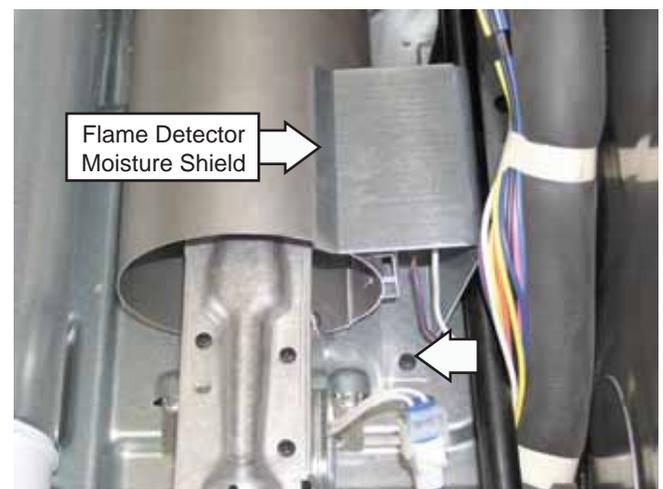
Caution: The ignitor is very fragile. To prevent breaking the ignitor, care must be taken when installing the burner assembly.

Flame Detector

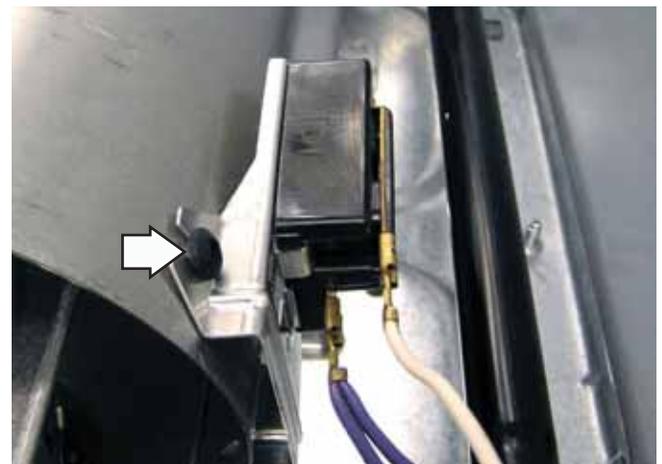
The flame detector is attached to the right side of the combustion chamber. It is necessary to remove the flame detector moisture shield to remove the flame detector.

To remove the flame detector:

1. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum*.)
2. Remove the Phillips-head screw that attaches the flame detector moisture shield to the dryer floor.
3. Pull the shield forward to release it from the combustion chamber.



4. Disconnect the 2 wires from the flame detector.
5. Remove the Phillips-head screw that holds the flame detector to the combustion chamber.

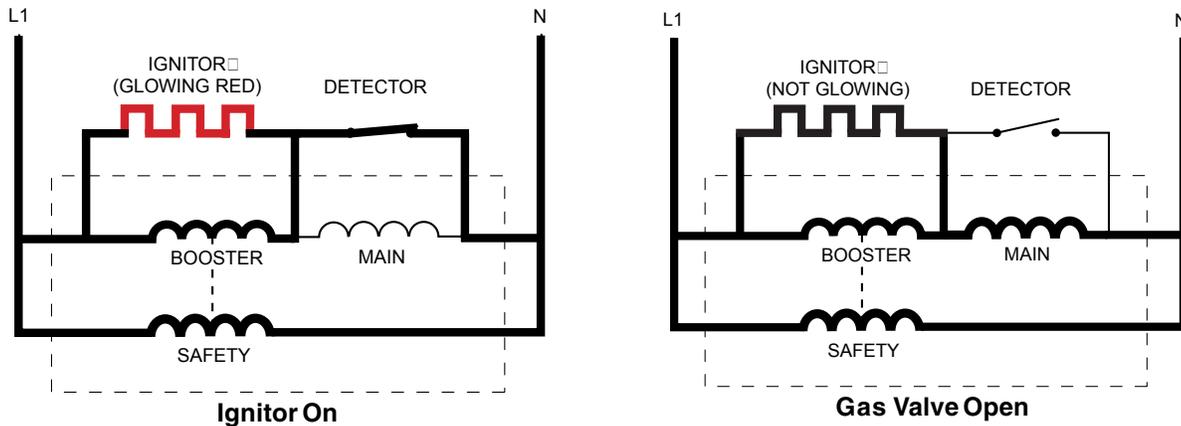


6. Remove the flame detector from the tab at the bottom.

Note: Upon reassembly, ensure the tab at the bottom of the flame detector is inserted into the slot located on the combustion chamber.

Ignitor Circuit Operation

The glo-bar ignitor circuit is made up of the following components: a gas valve with safety and main valves, ignitor, and a flame detector. The safety valve is actuated by a double coil that comprises a safety coil (resistance approximately 1350 ohms) and a booster coil (resistance approximately 550 ohms). Both coils are needed to open the safety valve. Once energized, the safety coil alone will hold the valve open. The main valve has a single coil (resistance approximately 1300 ohms).



The flame detector (< 1 ohm) is mounted on the combustion chamber. It is normally in the closed position (N.C.). The flame detector is opened by the radiant heat produced by the glo-bar and once open, the flame detector will be held open by the radiant heat produced by the gas flame.

When the control system calls for heat, the following circuits are energized:

1. Control relay K3 closes U9 to U4 sending L1 power through the Outlet and Safety thermostats to the gas valve.
2. Neutral circuit is from the dryer harness through the door switch and motor switch M2 to M1 to the gas valve.

When the glo-bar is heating, the booster and safety coils are both energized and will open the safety valve. The main valve is closed as its coil is bypassed by the N.C. flame detector. When the glo-bar reaches ignition temperature, in approximately 60 seconds or less, the flame detector is heated and opens, placing the main coil in series with the glo-bar. The main valve opens, allowing gas to flow into the combustion chamber and ignite. The main coil, now in series with the glo-bar, causes the glo-bar to cool down. However, the flame detector is held open by the radiant heat from the gas flame. The booster coil is now also in series with the main coil and is essentially inoperative. Should a momentary power failure occur, the gas valve will shut off and an attempt to restart will not occur until the flame detector cools and resets, in approximately 30 seconds.

Inlet Safety Thermostat

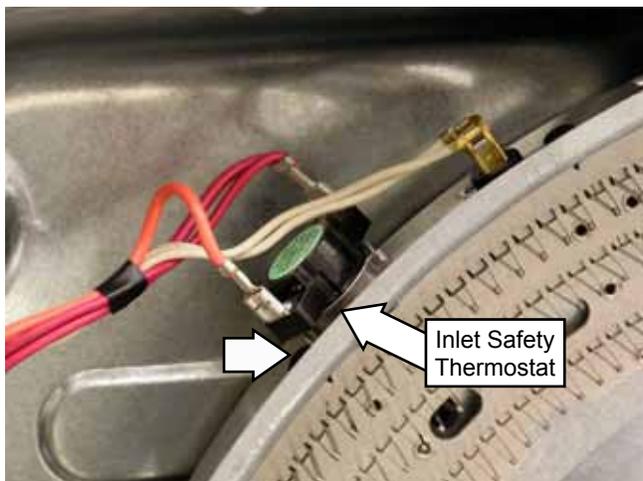
On electric models, the inlet safety thermostat is located on the top left area of the heater housing, to the left of the inlet control thermistor. On gas models, the inlet safety thermostat is located on the right side of the diffuser, above the inlet control thermistor. The thermostat monitors incoming air temperature.

If the thermostat reaches a temperature beyond its maximum temperature rating, it will trip and disable power to the heating elements (electric models) or burner assembly (gas models).

On electric dryers, the inlet safety thermostat opens at 210°F (99°C) and will automatically reset at 180°F (82°C). On gas dryers, the inlet safety thermostat opens at 300°F (149°C) and will automatically reset at 260°F (127°C).

To remove the inlet safety thermostat:

1. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum.*)
2. Disconnect the 2 wires from the inlet safety thermostat.
3. Remove the Phillips-head screw that attaches the inlet safety thermostat to the heater assembly or diffuser.
4. Lift and slide the thermostat from the heater assembly or diffuser.



Electric Model Shown

Inlet Control Thermistor

On electric models, the inlet control thermistor is located on the top left area of the heater housing, to the right of the inlet safety thermostat. On gas models, the inlet control thermistor is located on the right side of the diffuser, below the inlet safety thermostat. The thermistor monitors incoming air temperature and will respond to temperature changes of 3 °F. The thermistor relays this information to the control board.

The thermistor has a negative coefficient. As the temperature increases, the thermistor's resistance decreases.

Thermistor Resistance Values

Temperature °C	Temperature °F	Resistance K-Ohms
10	50	202
16	60	151
21	70	120
25	77	100
32	90	74
38	100	57
49	120	37
57	135	27
66	150	19
93	200	8
121	250	3

Operation of the inlet control thermistor can be checked by using service test mode t7. (See *Service Test Mode*.)

Specific failures associated with the inlet control thermistor can initiate error codes E2 and E4. (See *Service Test Mode*.)

Note: If the inlet control thermistor is detected as being faulty, the control shall cycle the heater relays by a fixed on/off time interval. For electric units the time interval is 60 seconds on and 60 seconds off. For gas units, the time interval is 90 seconds on and 60 seconds off.

To remove the inlet control thermistor:

1. Remove the top panel, the front panel, and the drum. (See *Top Panel, Front Panel, and Drum*.)
2. Disconnect the 2 wires from the inlet control thermistor.
3. Remove the Phillips-head screw that attaches the inlet control thermistor to the heater assembly or diffuser.
4. Lift and slide the thermistor from the heater assembly or diffuser.



Outlet Control Thermistor

The outlet control thermistor is located on the lower rear area of the blower housing. It is below the moisture shield and the outlet control backup thermostat. The outlet control thermistor measures outgoing air temperature and will respond to temperature changes of 3°F. The thermistor relays this information to the control board.

The outlet control thermistor has the same resistance values as the inlet control thermistor. (See *Inlet Control Thermistor*.)

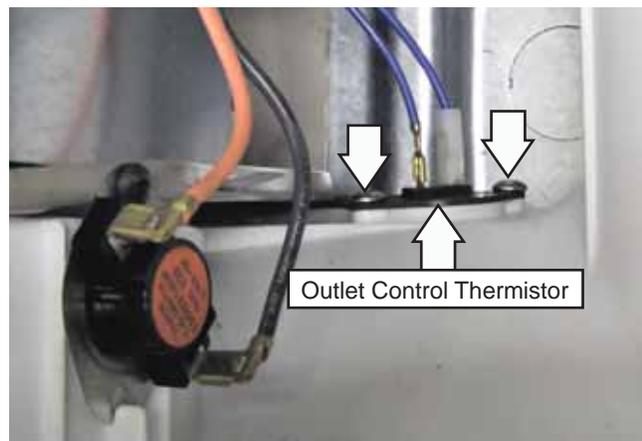
Operation of the outlet control thermistor can be checked by using service test mode t6. (See *Service Test Mode*.)

Specific failures associated with the outlet control thermistor can initiate error codes E3 and E5. (See *Service Test Mode*.)

Note: If the outlet control thermistor is detected as being faulty, the control shall cycle the heater relays by a fixed on/off time interval. For electric units, the time interval is 60 seconds on and 60 seconds off. For gas units, the time interval is 90 seconds on and 60 seconds off.

To remove the outlet control thermistor:

1. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum*.)
2. Remove the Phillips-head screw and the thermostat moisture shield from the front frame.
3. Disconnect the 2 wires from the outlet control thermistor.
4. Remove the 2 Phillips-head screws that attach the outlet control thermistor to the blower housing.



Electric Model Shown

Outlet Control Backup Thermostat

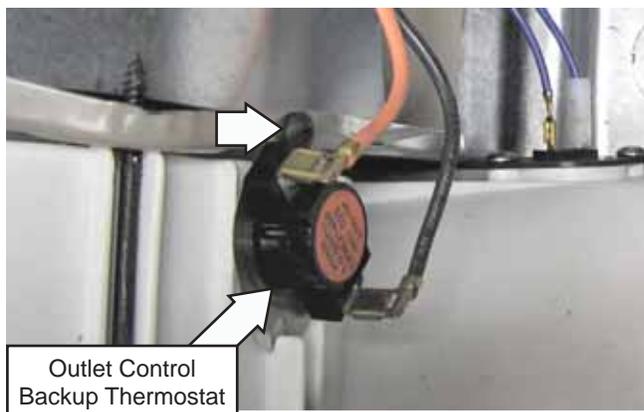
The outlet control backup thermostat is located on the upper, rear area of the blower housing. It is below the moisture shield and above the outlet control thermistor. The outlet control backup thermostat monitors the outgoing air temperature.

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

The outlet control backup thermostat opens at 165°F (74°C) and will automatically reset at 155°F (68°C).

To remove the outlet control backup thermostat:

1. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum.*)
2. Remove the Phillips-head screw and the thermostat moisture shield from the front frame.
3. Disconnect the 2 wires from the outlet control backup thermostat.
4. Remove the Phillips-head screw that attaches the outlet control backup thermostat to the blower housing.



Electric Model Shown

High Limit Thermostat

On electric models, the high limit thermostat is located on the top right area of the heater housing. On gas models, the high limit thermostat is located on the upper right side of the diffuser. The high limit thermostat monitors incoming air temperature.

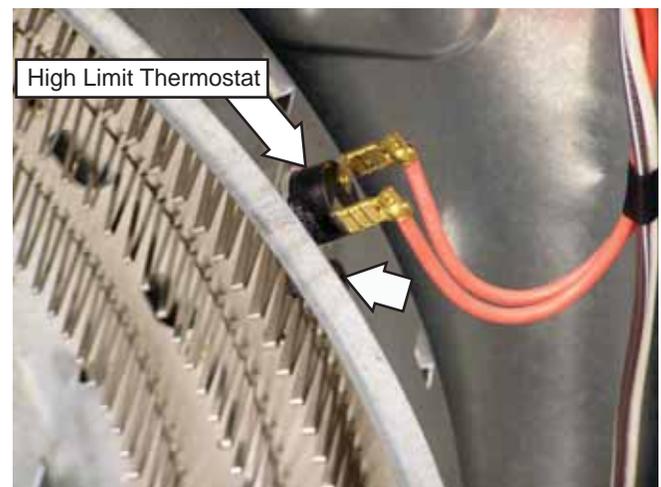
If the thermostat reaches a temperature beyond its maximum temperature rating, it will trip and disable power to the elements or burner assembly.

For the electric models, the high limit thermostat opens at 315°F (157°C) and will automatically reset at 250°F (121°C).

For the gas model, the open temperature is 180°F (82°C) and the close temperature is 165°F (74°C).

To remove the high limit thermostat:

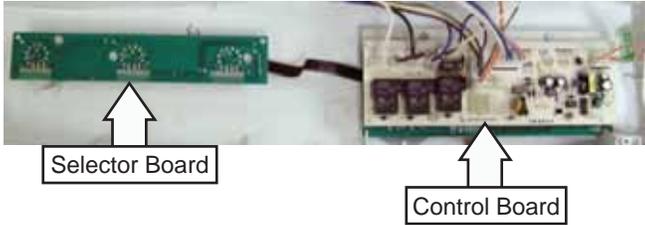
1. Remove the top panel, front panel, and drum. (See *Top Panel, Front Panel, and Drum.*)
2. Disconnect the 2 wires from the high limit thermostat.
3. Remove the Phillips-head screw that attaches the high limit thermostat to the heater assembly or diffuser.
4. Slide the thermostat from the heater assembly or diffuser.



Electric Model Shown

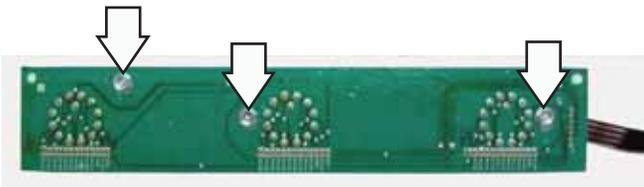
Electronic Control

The electronic control consists of a selector board and a control board. Both boards are connected to each other with a ribbon. The boards are attached to the back of the control panel and control all dryer functions. The boards are replaced as an assembly.

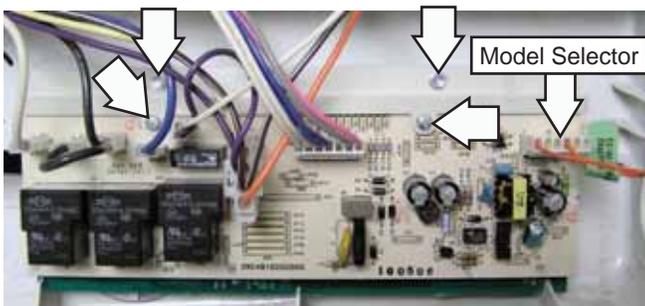


To remove the electronic control board:

1. Remove the knobs from the control panel.
2. Position the control panel in the service position. (See *Control Panel*.)
3. Remove the three 1/4-in. hex-head screws that attach the selector board to the control panel.



4. Disconnect the wire harnesses from the control board.
5. Remove the two 1/4-in. hex-head screws that attach the control board to the control panel.
6. Remove the 2 Phillips-head screws that attach the bracket to the control board.



Note: If replacing the electronic control, transfer the model selector harness to the replacement control board in the same location as on the original.

Temperature Setpoints

Heat Source	Temperature Setpoint	Heat Setting	Low Setpoint
Electric Inner Coil	Outlet	Extra Low	104°F
		Low	121°F
		Medium	130°F
	Inlet	High	137°F
		Extra Low	149°F
		Low	240°F
		Medium	250°F
		High	267°F
		Electric Outer Coil	Outlet
Low	116°F		
Medium	125°F		
Inlet	High		133°F
	Extra Low ¹		0
	Low		176°F
		Medium	201°F
		High	227°F
		Gas	Outlet
Low	115°F		
Medium	125°F		
Inlet	High		128°F
	Extra Low		152°F
	Low		195°F
		Medium	210°F
		High	220°F

¹ Does not use Outer Coil in Extra low heat setting.

Note: High Set Point is equal to Low set point +3 degrees.

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.

How to enter to service test mode and navigate:

Within 30 seconds of plugging the unit in, push and hold the **START/PAUSE** button and turn the cycle selection knob 180 degrees clockwise.

Upon entering the service mode, the control shall be in test selection mode and display the first test number (t1). Rotating the knob counterclockwise (CCW) shall decrement the test number in the display. Rotating the knob clockwise (CW) shall increment the test numbers in the display.

Once the test number is selected, pressing **START/PAUSE** shall begin the selected test. During a test, pressing the **START/PAUSE** button shall either move to the next part of the test or terminate that test and bring the control to the test selection mode (test number is displayed on the display).

Service Test Mode		Sequence	
t1	Dryer Model	START/PAUSE	Display model (e.g. 1g, 1e, 2e, 2g, etc.) or model number (part number)
		KNOB	Select next service mode test
t2	Software/EEPROM Version	START/PAUSE	Switch between S/W version and EEPROM version
		KNOB	Select next service mode test.
t3	CRC Check	START/PAUSE	Start EEPROM CRC check. Display will show "EP" if successful. Display will show "Er" if unsuccessful.
		KNOB	Select next service mode test.
t4	User Interface Test	START/PAUSE	Enter or exit user interface test. All LED's and segments should be lit.
		KNOB	Select next service mode test.
t5	Error Codes	START/PAUSE	Enter or exit error code test. Display error codes automatically. E0 means no errors.
		KNOB	Display current knob position number.
t6	Outlet Thermistor	START/PAUSE	Enter or exit outlet thermistor test. Display shows current temperature reading.
		KNOB	Select next service mode test.
t7	Inlet Thermistor	START/PAUSE	Enter or exit inlet thermistor test. Display shows current temperature reading.
		KNOB	Select next service mode test.
t8	Moisture Sensor	START/PAUSE	Enter moisture sensor test. Display shows current moisture sensor reading.
		KNOB	Select next service mode test.

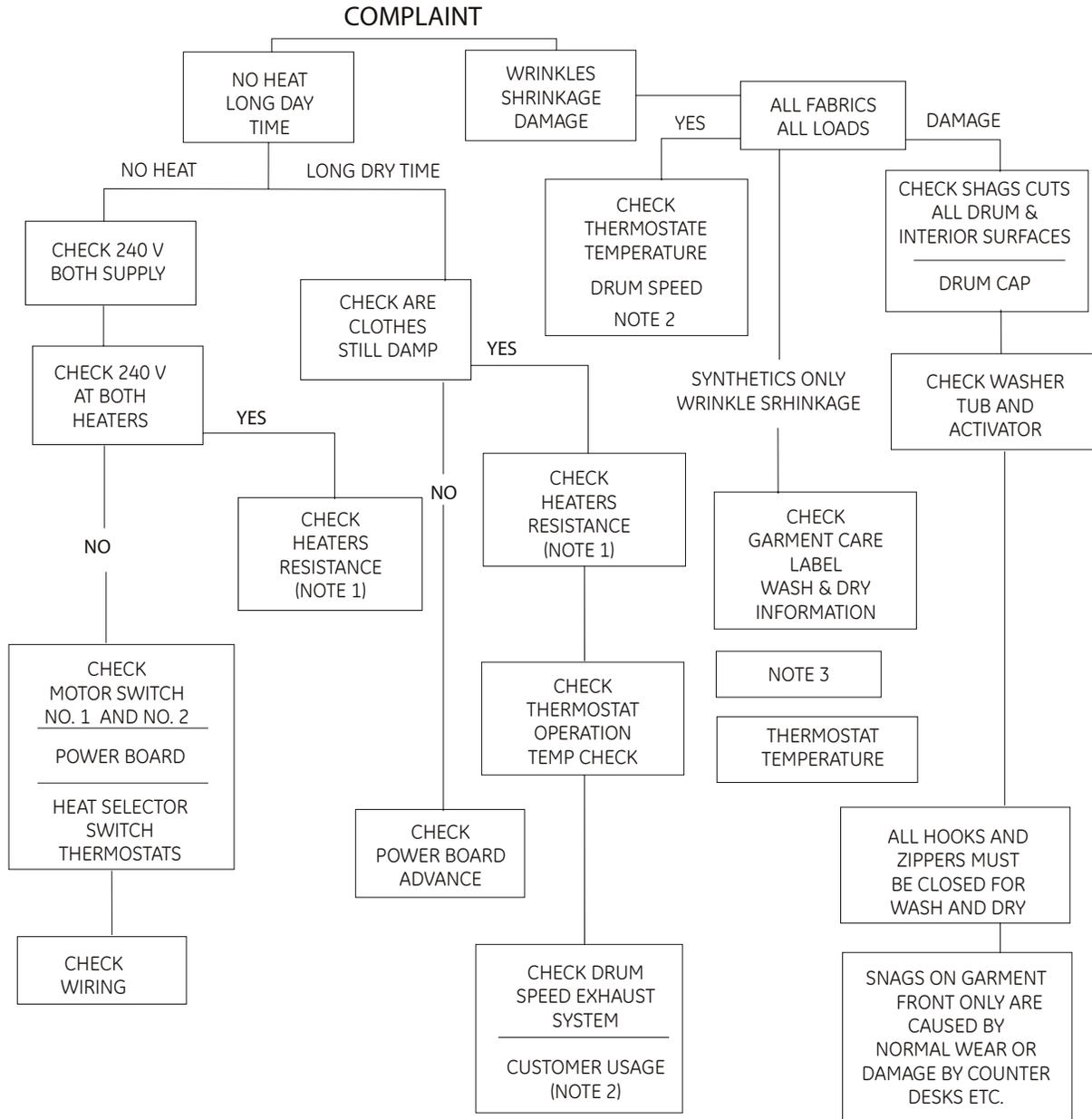
Service Test Mode		Sequence	
t9	Door Open/ Closed	<i>START/PAUSE</i>	Enter door open/closed test. "do" means door open. "dc" means door closed.
		<i>KNOB</i>	Select next service mode test.
tA	Brownout Signal	<i>START/PAUSE</i>	Enter brownout signal test. "EP" will be displayed if brownout circuit is working correctly and input voltage is greater than 90 VAC.
		<i>KNOB</i>	Select next service mode test.
tb	Water Valve Test	<i>START/PAUSE</i>	Enter water valve test and then toggle water valve on and off Note: Drum starts turning when water valve is on.
		<i>KNOB</i>	Select next service mode test.
tc	Restore EEPROM	<i>START/PAUSE</i>	Begin EEPROM write. Display will show "EP" if successful. Display will show "Er" if unsuccessful.
		<i>KNOB</i>	Select next service mode test.

Error Code Test t5	
Error Code	Description
E0	No errors
E1	Reading or writing improperly. Run service mode test "tc". If failure persists, replace control board.
E2	Check and replace inlet thermistor if necessary.
E3	Check and replace outlet thermistor if necessary.
E4	Check and replace inlet thermistor if necessary.
E5	Check and replace outlet thermistor if necessary.
E6	Door switch malfunction. Check and replace door switch if necessary.

Note:

- The display error codes test allows the service technician to examine and clear the fault log.
- The control will display the most recent error in the fault log upon entry into the display error codes test. If there are no errors in the fault log, the **E0** code will be displayed on the display.
- The control will clear the displayed error from the fault log if the *START/PAUSE* key is pressed during the display error codes test. After clearing the displayed error from the fault log, the dryer will display the next most recent error from the fault log.
- After clearing all errors from the fault log, the control will display the **E0** code on the display.
- The control will log the last 8 error codes in the memory stored in the control.
- The control will avoid logging multiple instances of the same error code.

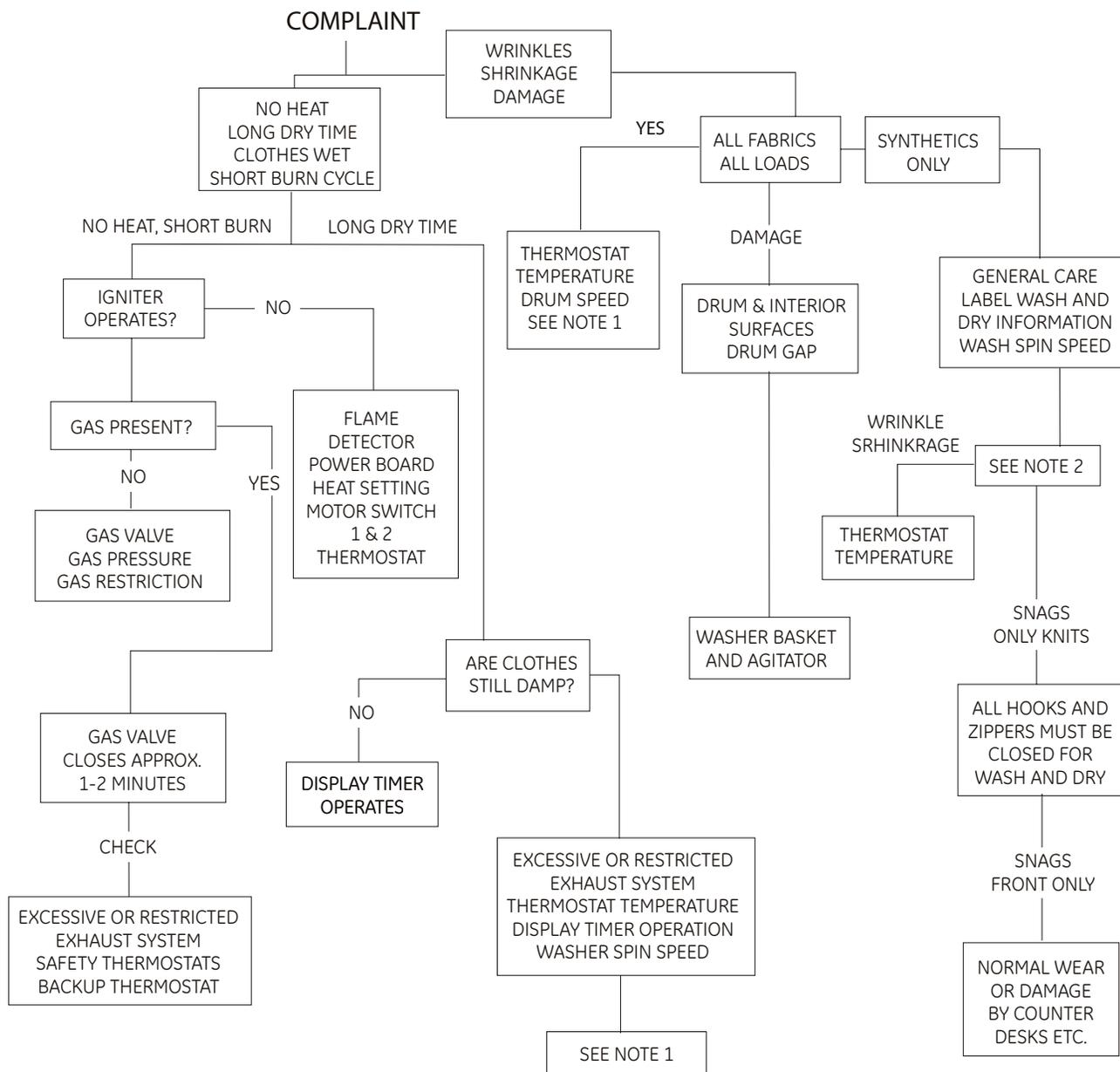
General Troubleshooting Guide - Electric Model



NOTES:

1. Heater element is shown on wiring schematic (on reverse side of this sheet). Check for infinite resistance between any heater terminal and dry cabinet. Heater failure could result from low air flow caused by improper sealing, kinked or excessive ducting or excessive line voltage.
2. Other factors contributing to long dry times, or clothes condition: load size, large bulky items, ambient temperature, room size (if not exhausted outdoor), washer spin speed, washer rinse temperature, gas supply (restrictions), and gas pressure.
3. Small loads (less than 3 lbs.) if not treated with destaticizer, could develop a static charge if over dried and cling to drum surface (no tumble), causing wrinkles, shrinkage, or melting. Use a fabric softener (washer or dryer), or add 2 large bath towels to act as a buffer when drying.

General Troubleshooting Guide - Gas Model

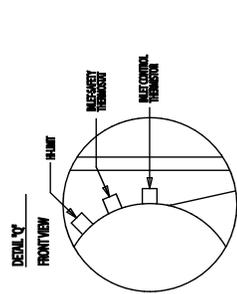
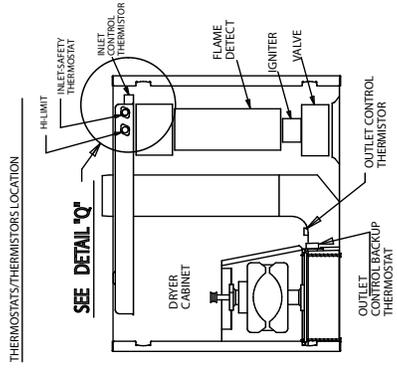


NOTES:

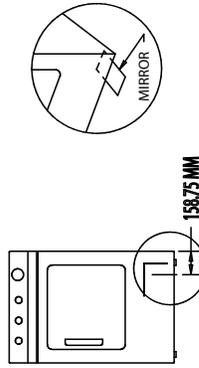
1. Other factors contributing to long dry times, or clothes condition: load size, large bulky items, ambient temperature, room size (if not exhausted outdoor), washer spin speed, washer rinse temperature, gas supply (restrictions), and gas pressure.
2. Small loads (less than 3 lbs.) if not treated with destaticizer, could develop a static charge if over dried and cling to drum surface (no tumble), causing wrinkles, shrinkage, or melting. Use a fabric softener (washer or dryer), or add 2 large bath towels to act as a buffer when drying.

Gas 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.



WHEN SERVICING THE DRYER



THE IGNITER FUNCTIONING AND THE FLAME CAN BE SEEN THROUGH A VIEWER HOLE LOCATED IN THE BASE OF THE DRYER. USE A MIRROR AS SHOWN IN THESE FIGURES

- LEGEND**
- X= CONTACTS ACTIVATED
 - O= CONTACTS DEACTIVATED
 - TC= THERMISTOR CONTROLLED
 - TVS= TRANSIENT VOLTAGE SUPPRESSOR
- NOTES:**
- SOLDER TRACES ON PC BOARD
 - GANGED CENTRIFUGAL SWITCH
 - POINT TO POINT TERMINALS
 - >> CONNECTOR JUNCTION
 - SCREWS (BONDING AND GROUNDING)

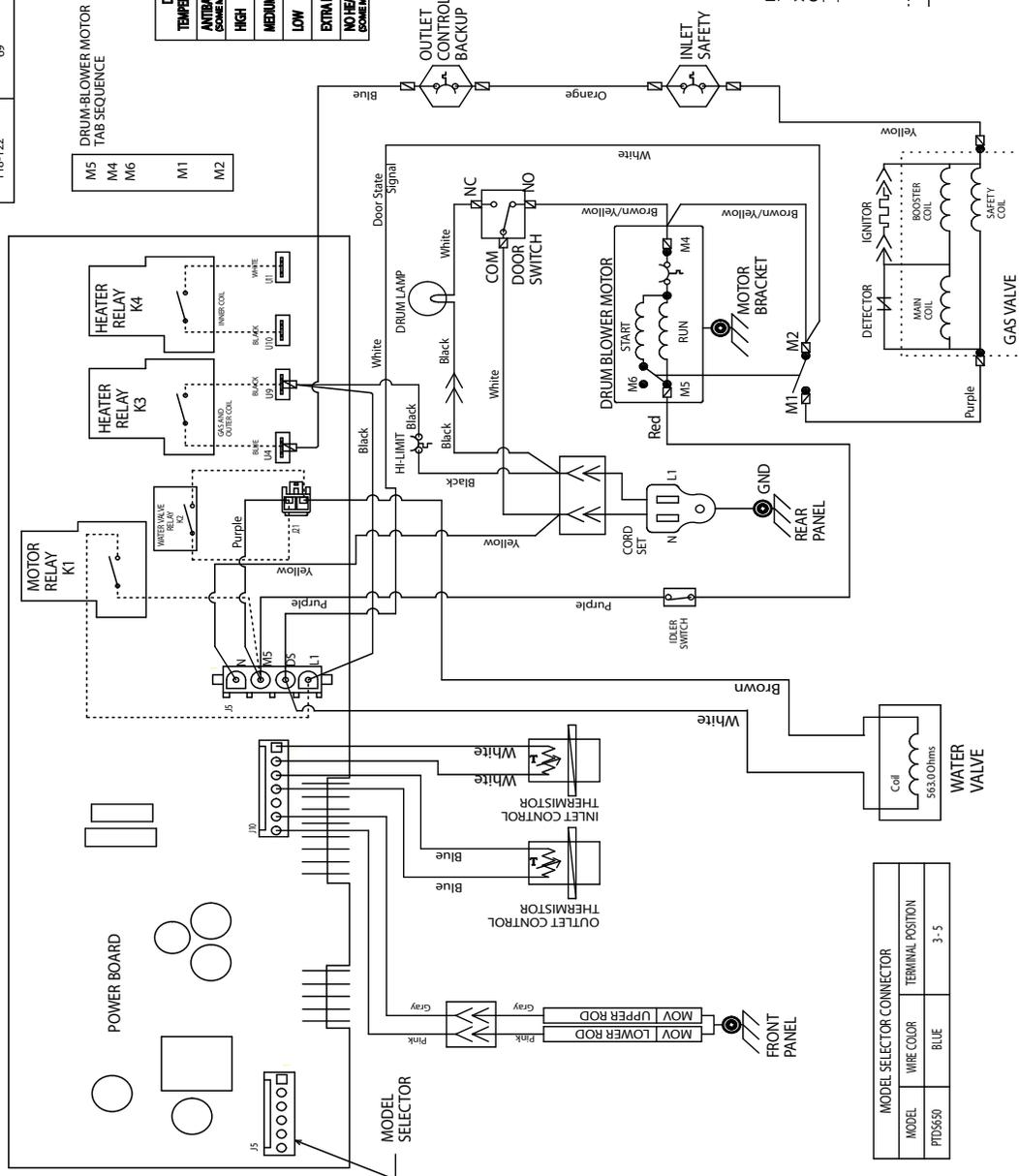
THERMISTAT	TEMPERATURE		TEMPERATURE °C	
	OPEN	CLOSE	OPEN	CLOSE
OUTLET CONTROL BACKUP	165 ± 5	155 ± 5	74 ± 3	68 ± 3
INLET SAFETY	300 ± 8	260 ± 12	149 ± 4	127 ± 7
HIGH LIMIT	315 ± 10	250 ± 15	157 ± 6	101 ± 9

THERMISTORS RESISTANCE VALUES AT

KOHMS	°F	°C
78-82	86	30
98-102	77	25
118-122	69	21

RELAYS

RELAY	FUNCTION	CONTROL
M5	DRUM BLOWER MOTOR	TC
M4	HEATER RELAY K4	TC
M6	HEATER RELAY K3	TC
M1	DRUM BLOWER MOTOR	TC
M2	DRUM BLOWER MOTOR	TC



MODEL SELECTOR CONNECTOR	WIRE COLOR	TERMINAL POSITION
MOV LOWER ROD	Pink	3
MOV UPPER ROD	Gray	5

Warranty



All warranty support provided by our Factory Service Centers, or an authorized Customer Care® technician. To schedule service, on-line, 24 hours a day, 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 support under the warranty.

For The Period Of: GE 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.

Second 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 **additional one-year limited warranty**, you will be responsible for any labor or related service costs.

Third through Fifth Year
From the date of the original purchase

The extra large or super capacity dryer drum and main electronic control board if any of these parts should fail due to a defect in materials or workmanship. During this **additional three-year limited warranty**, you will be responsible for any labor or related service costs.

What GE Will Not Cover:

- 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.
- 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