

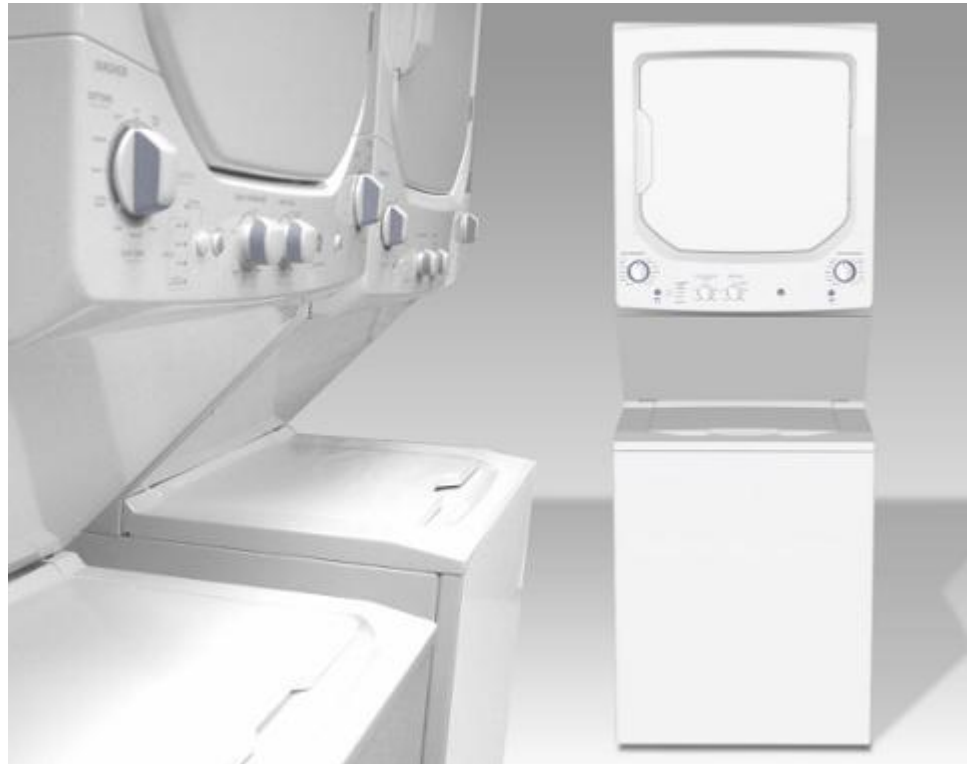
24" & 27" Unitized Laundry Centers

GTUP270EMWW

GTUP270GMWW

GTUP240EMWW

GTUP240GMWW



imagination at work

IMPORTANT SAFETY NOTICE

The information in this presentation is intended for use by individuals possessing adequate backgrounds of electrical, electronic, & mechanical experience. Any attempt to repair a major appliance may result in personal injury & 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 & properly fastened.

GE Factory Service Employees are required to use safety glasses with side shields, safety gloves & steel toe shoes for all repairs.



Dyneema® Cut Resistant Glove



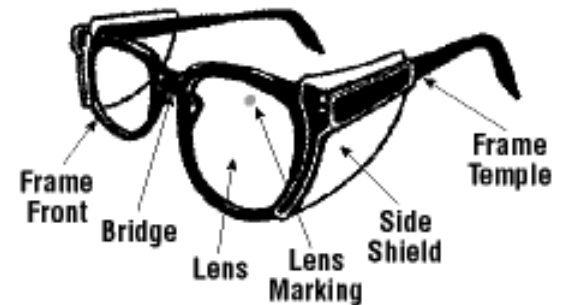
Steel Toe Shoes



Plano Safety Glasses



VR Gloves – provide shock protection



**Prescription Safety Glasses
Safety Glasses
must be
compliant with
ANSI Z87.1-2003**

Product Information



Model/Serial Tag

Located inside dryer on front panel

Mini-Manual

Taped on the inside of the service panel

Unitized Laundry Center

DRYER 27" Design Differences

New 27"

- Drum capacity 5.9 ft³
- Drum access area: 303 in²
- Heater power: 5400W
- 4 drying cycles (Timed, Auto Cottons, Easy care, Delicate)
- Auto cottons cycle available
- Wrinkle care option
- Exhaust max. length: 48 ft

Old 27"

- Drum capacity 5.7 ft³
- Drum access area: 234 in²
- Heater power: 4500W
- 3 drying cycles (Timed, Permanent press, Delicate)
- No auto cottons cycle available
- No wrinkle care option
- Exhaust max. length: 48 ft

Product Weight 240 Lbs

Unitized Laundry Center

27" Washer Design Differences

New 27"

- Capacity 3.18 ft³
- Index rinse(w/basket spin) & Deep rinse
- Adaptive fill and Manual Fill capability
- ATC temperature control
- Washer **Electronic Control**
- LED status indicators
- Quick Release Lid Lock

Old 27"

- Capacity 2.7 ft³
- Deep rinse only
- Manual fill capability
- Discrete water temperatures
- Washer Electromechanical Timer
- Cycle indicator thru timer
- Slow release Lid Lock (ptc)

Unitized Laundry Center

DRYER 24" Design Differences

New 24"

- Capacity 4.4 cu. ft.
- Drum access area: 150 in²
- 4 Heat levels available
- Delicate cycle available
- Lint filter in the door
- Front serviceable as per spec.
- *EOC removed* "End Of Cycle Signal"
- *Height 3" taller*

Old 24"

- Capacity 3.4 cu. ft.
- Drum access area: 133 in²
- 3 Heat levels available.
- No delicate cycle available
- Lint filter at the rear of the drum
- Some parts require rear access to service
- EOC signal

Unitized Laundry Center

24" Washer Design Differences

New 24"

- Capacity 1.87 ft³
- Index rinse(w/basket spin) & Deep rinse
- Adaptive fill and Manual Fill capability
- ATC temperature control
- Washer **Electronic Control**
- LED status indicators
- Quick Release Lid Lock

Old 24"

- Capacity 1.75 ft³
- Deep rinse only
- Manual fill capability
- Discrete water temperatures
- Washer Electromechanical Timer
- Cycle indicator thru timer
- Mechanical Brake
- Transmission + I Motor

Product Controls



Programs

- OFF
- Heavy duty
- Whites
- Colors
- Easy care
- Delicates
- Speed Cycle
- Extra Spin

T Board

- 2 buttons
- Start / Pause
- Options
- 5 Leds
- "Shower Rinse"
- "Deep Rinse"
- Wash (Indicator)
- Rinse (Indicator)
- Spin (Indicator)

Water Level

- Automatic (if Adaptive Fill is needed)
- Minimum
- Medium
- High
- Maximum

Temperature

- Cold - 60
- Cool - 70
- Warm - 80
- Hot - 110

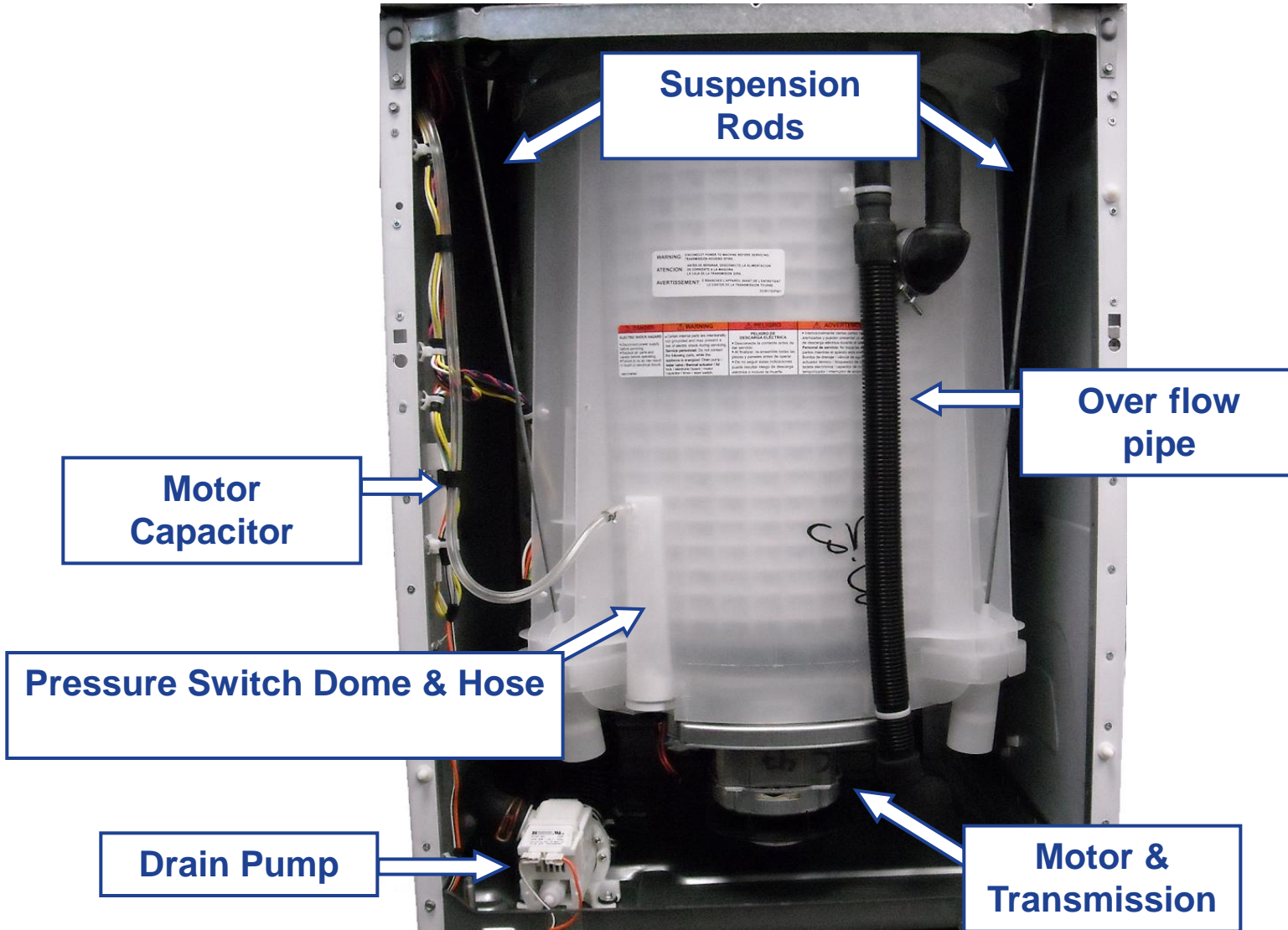
Start Button

Timer

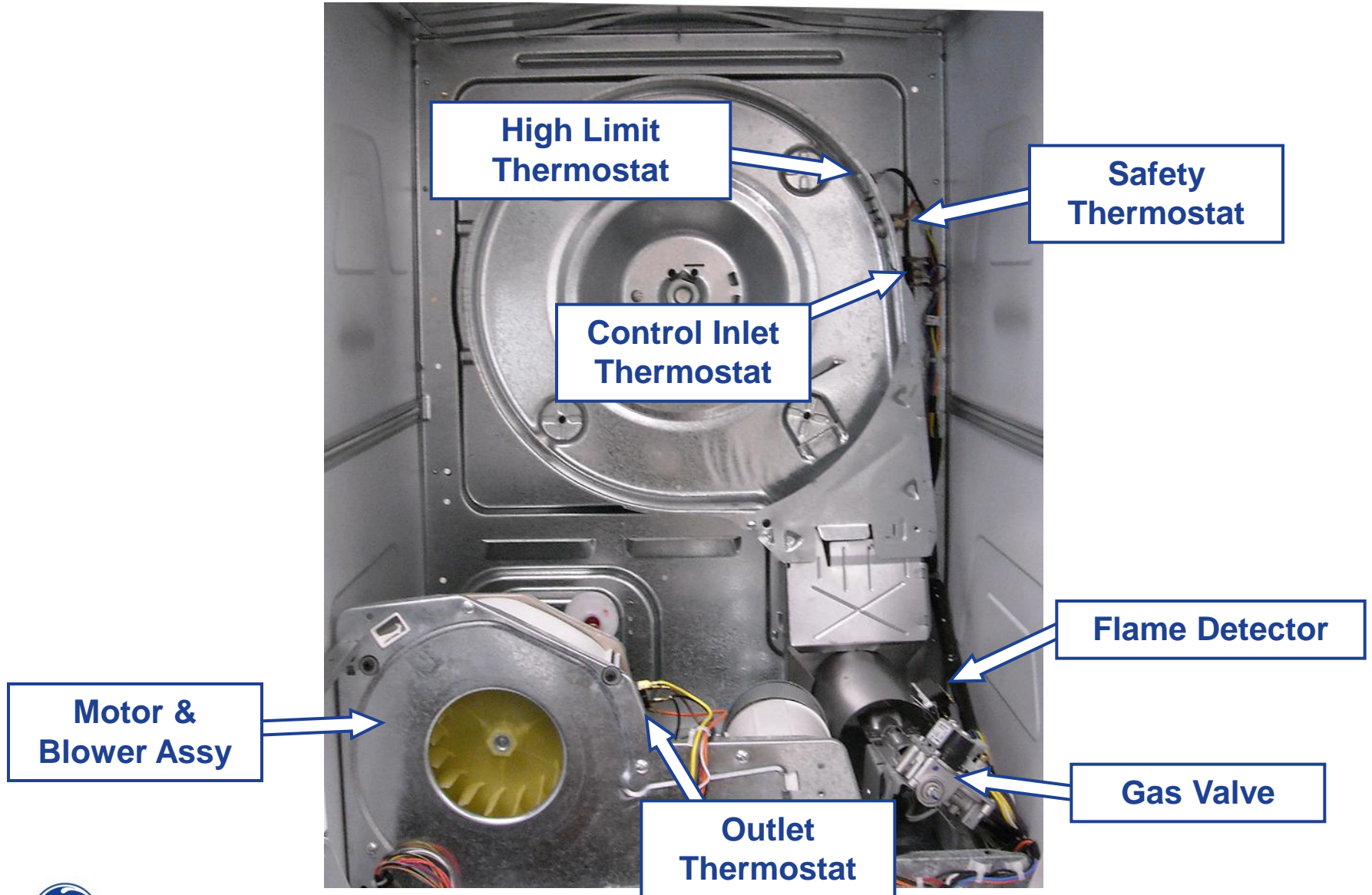
Dryer Controls

Washer Controls

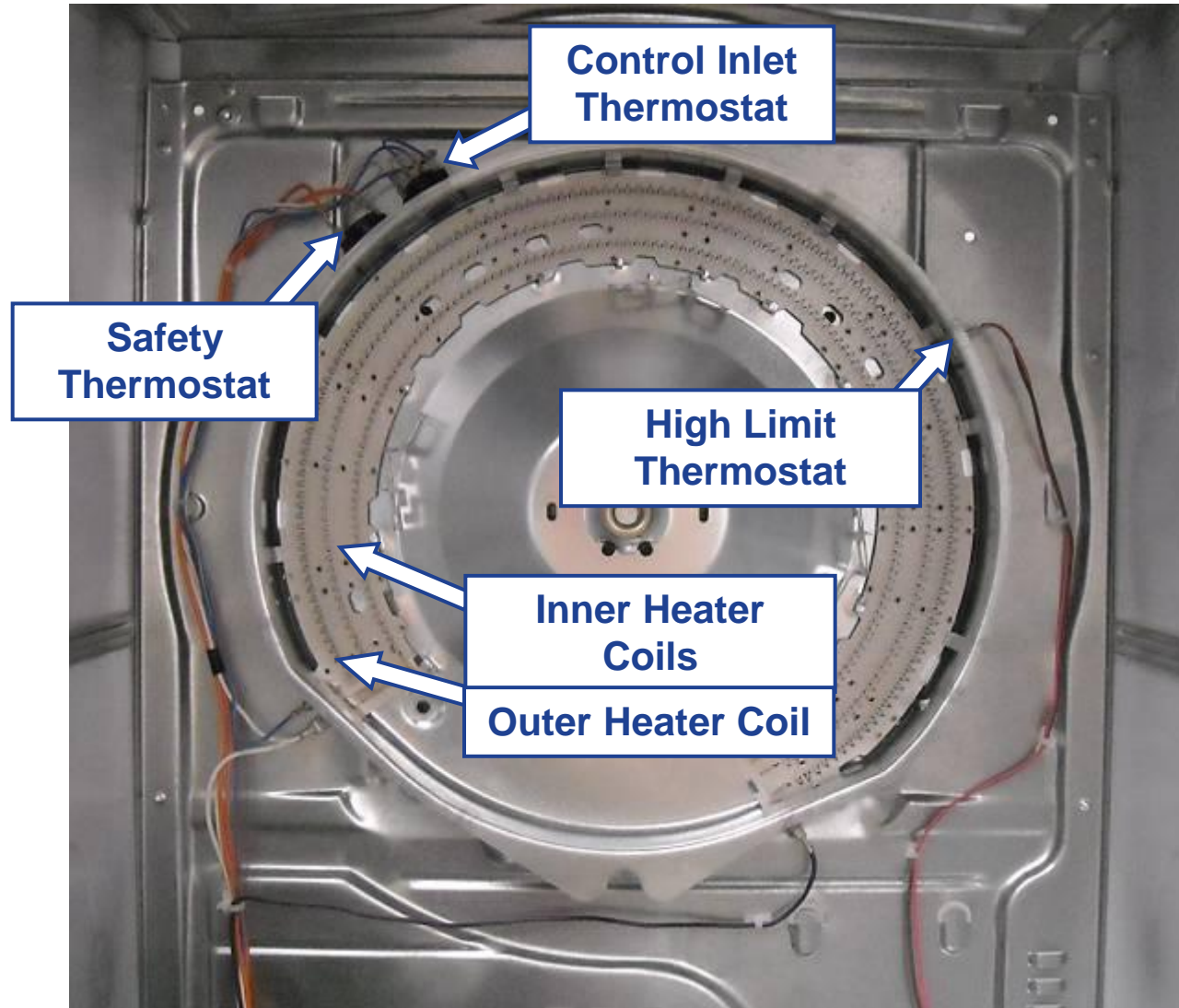
Washer Components



Gas Dryer Components



Electric Dryer Components



Control Panel Access

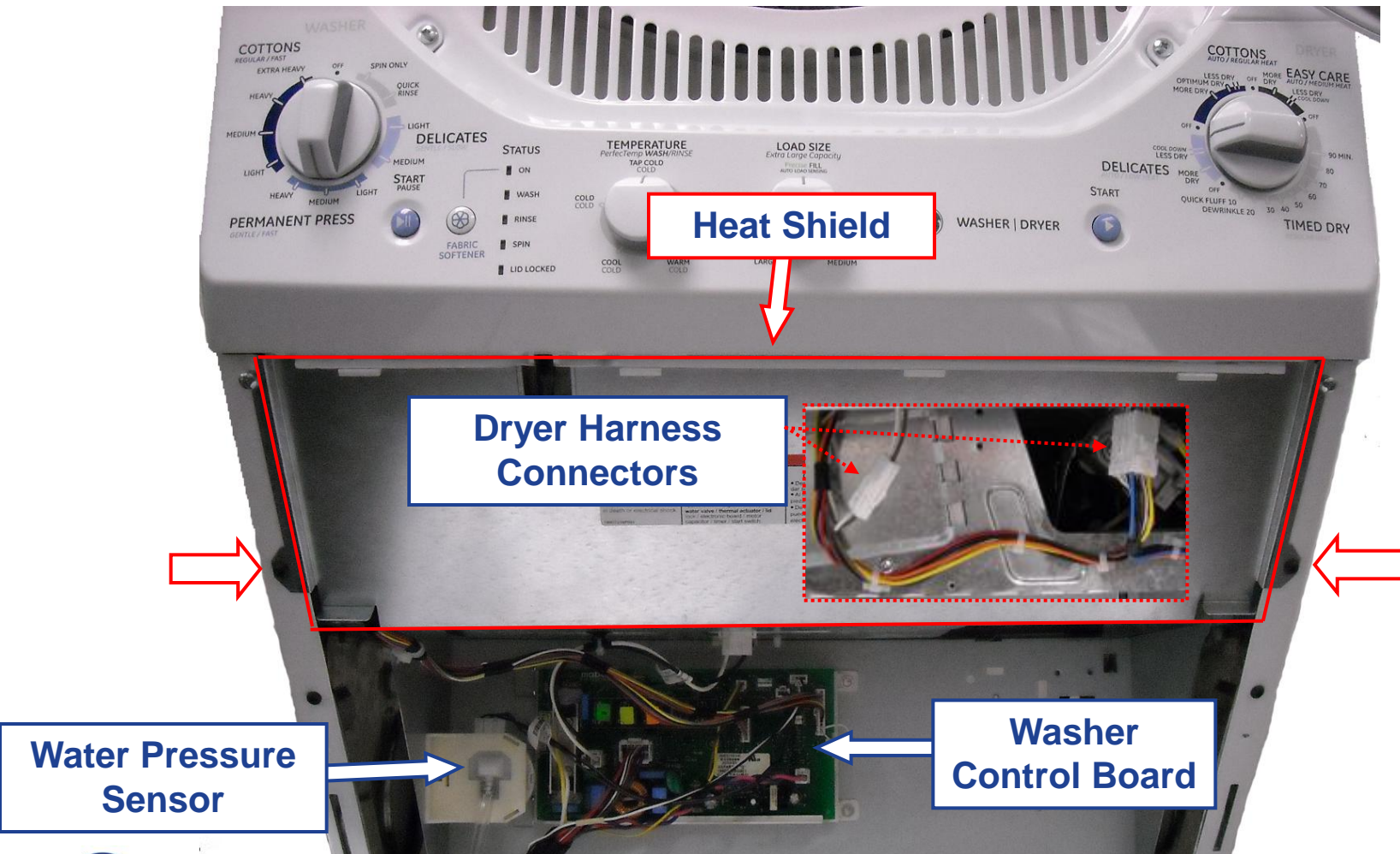
To access the service panel; remove the two Phillips screws at the top left and right of the panel. Lift up on the panel and pull forward to release the panel from the cabinet.

The mini manual is taped to the backside of the service panel.



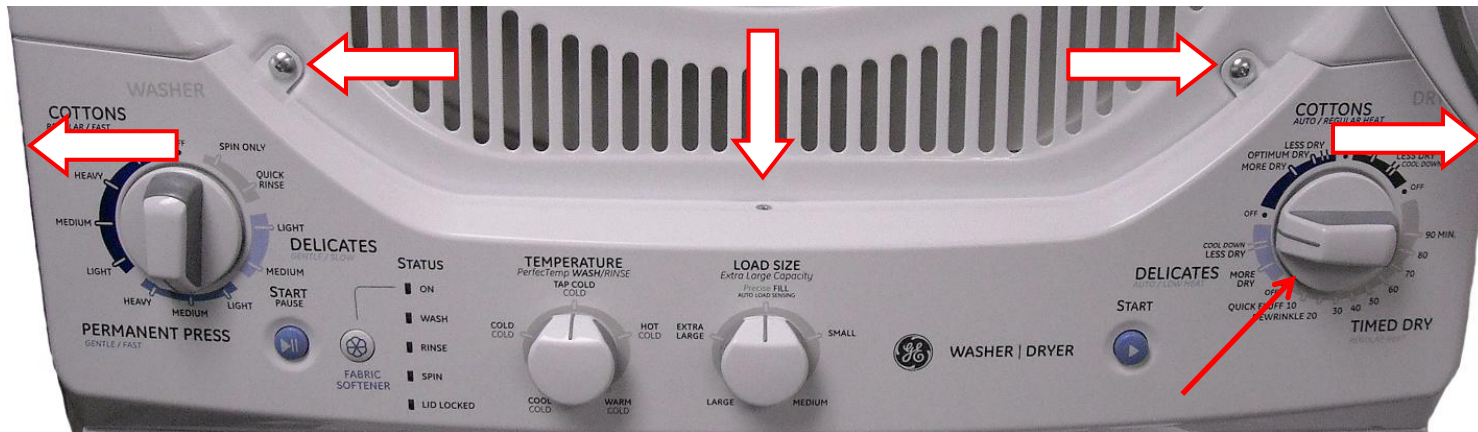
Control Panel Access

The washer control and pressure switch are accessible after removing the service panel. To access the dryer harness wiring connectors; remove two Phillips screws from the heat shield and pull the shield forward to remove.



24" Control Panel Access

To access the washer/dryer controls; remove five Phillips screws, one on each side of the control panel and three on the front opening. Remove the dryer control knob and tilt the panel forward.



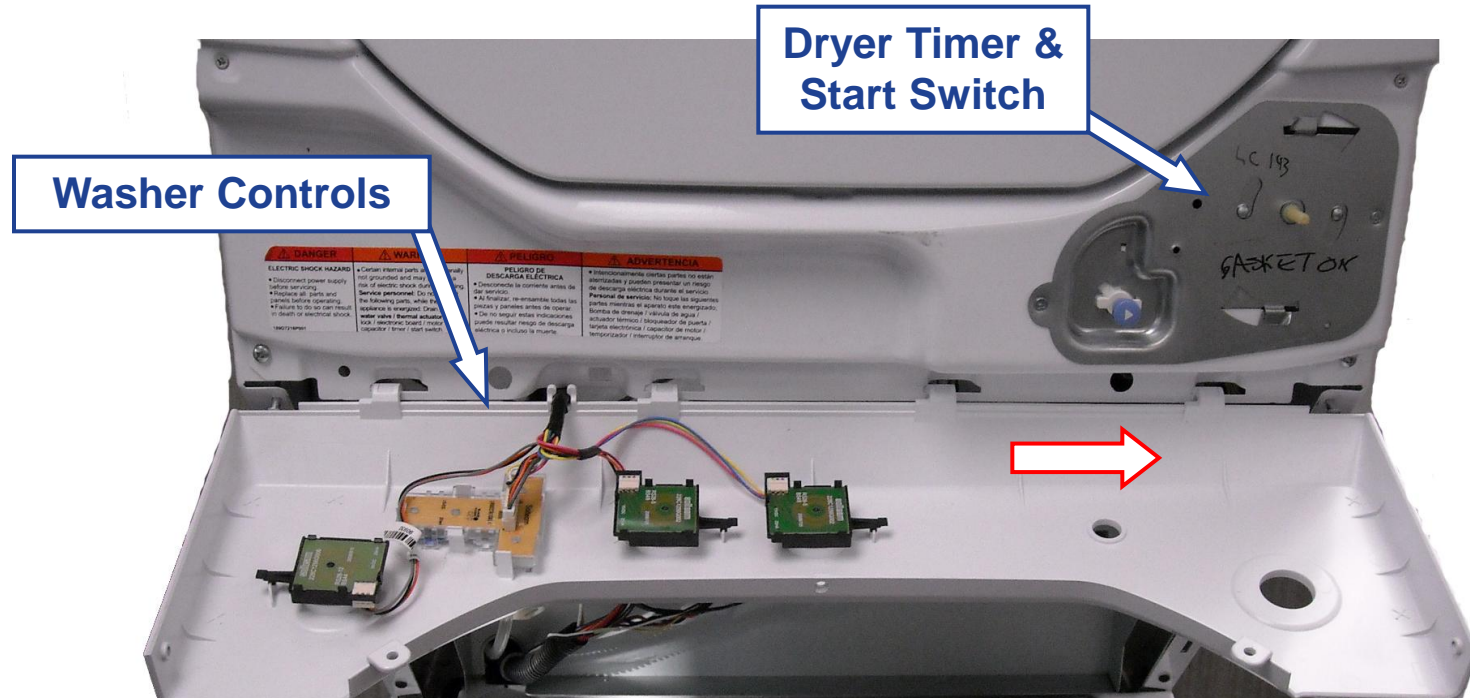
27" Control Panel Access

To access the washer/dryer controls; remove six Phillips screws, two on each side of the control panel and two on the front bottom door opening. Remove the dryer control knob and tilt the panel forward.



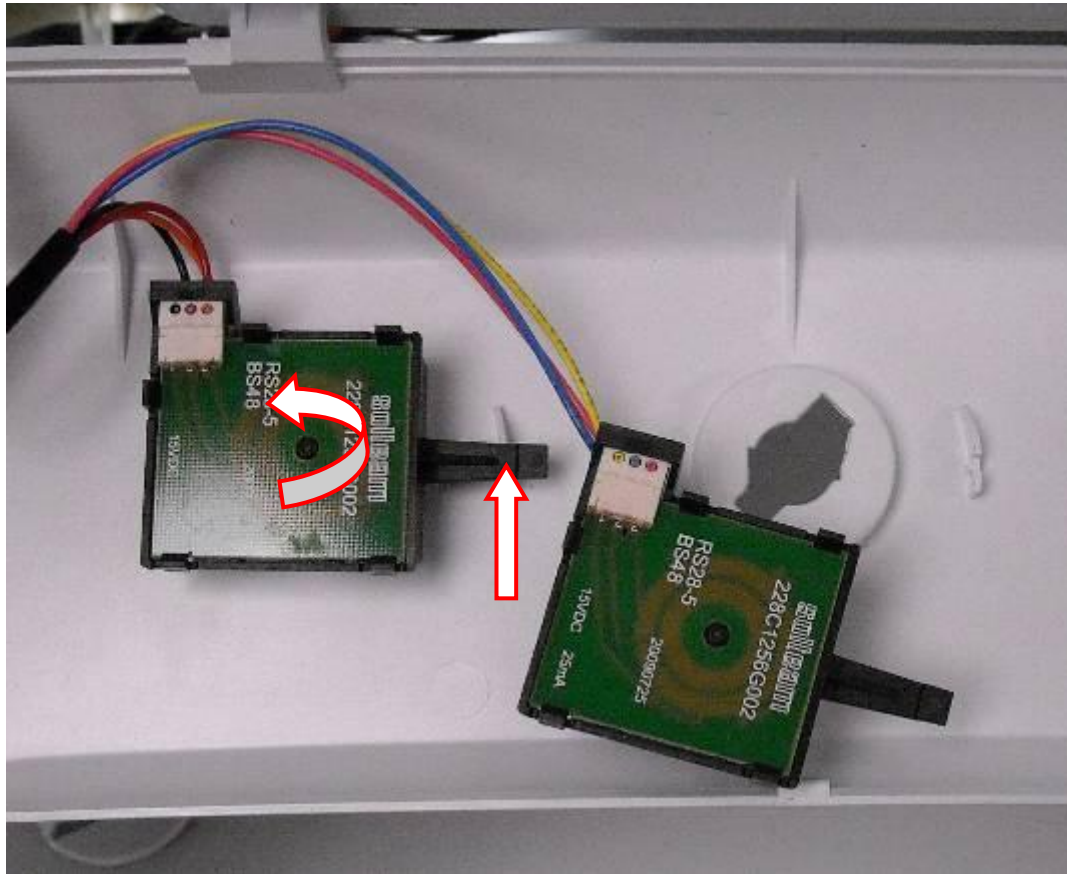
Control Panel

To remove the control panel from the cabinet; slide the panel to the right to release the locking tabs from the slots. The washer controls are installed on the control panel, dryer timer and start switch remain on the dryer front panel.



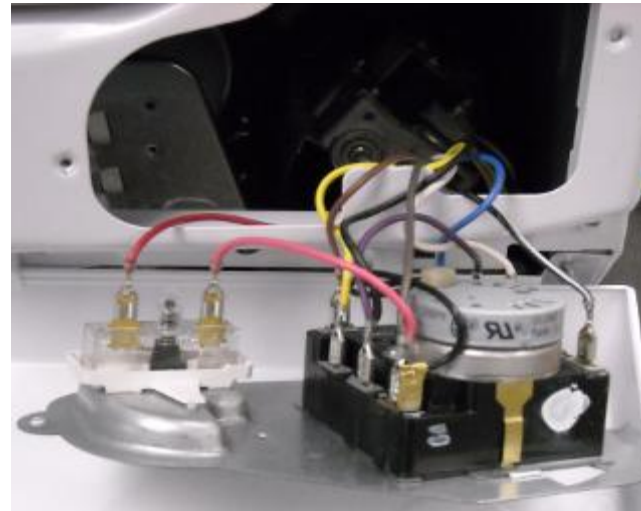
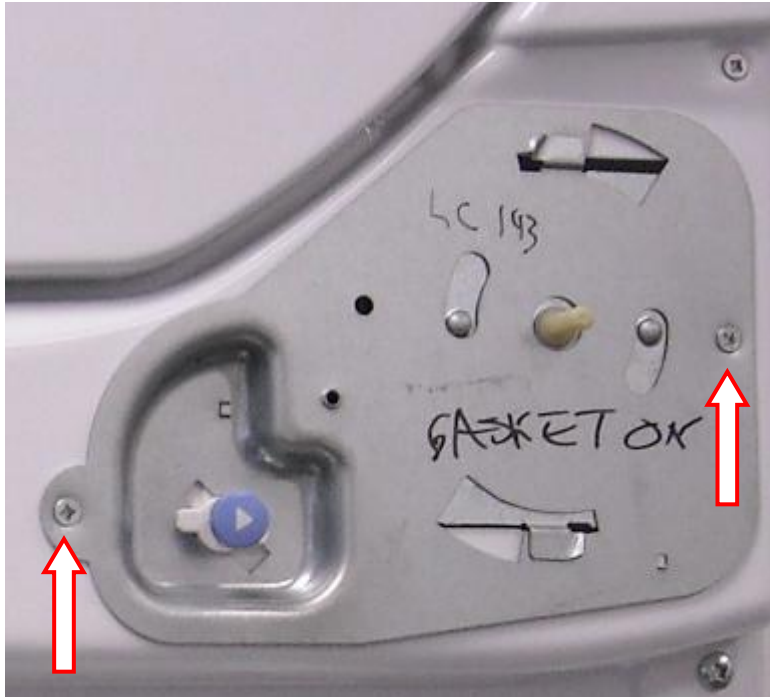
Control Panel

To replace any of the washer controls; remove the selection knob from the front, lift the locking lever and rotate the control to the left to release from the control panel.



Control Panel

To replace the dryer timer or start switch (Timer motor dropping resistor EL); remove two Phillips screws from the control bracket and remove the bracket from the front panel. Both the dryer timer and start switch are twist lock connected to the control bracket.



Gas Model

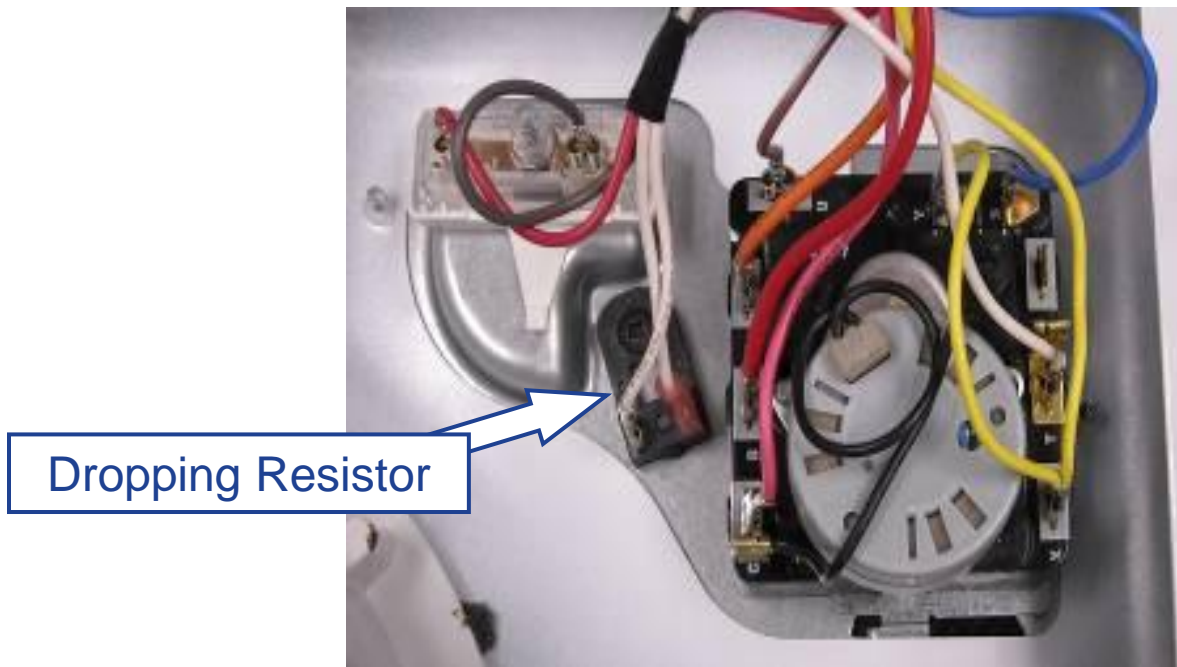


Electric Model

Dropping Resistor

Control Panel

The timer dropping resistor (on electric models) controls the run time during automatic cycles. This 4500 ohm resistor is in series with the timer motor, when the thermostat trips turning off the heat – the resistor drops the 240 vac heater circuit to 120 vac to run the timer motor. The resistor is held in place on the bracket with a single Phillips screw.

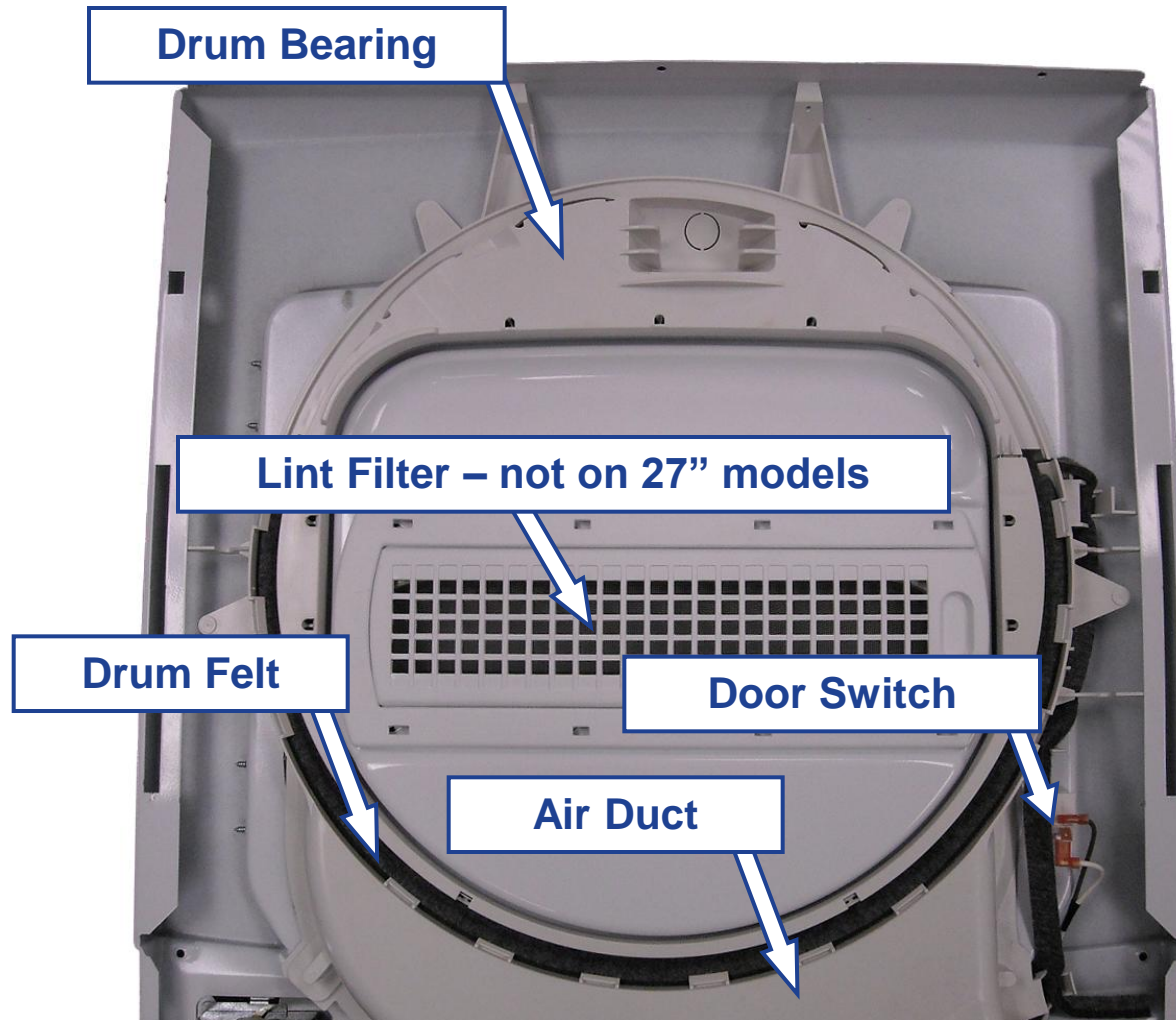


Dryer Front Panel Removal

To remove the dryer front panel; unplug the harness connectors behind the heat shield. Remove the four Phillips screws from the front of the panel and three ¼" hex head screws from the panel top. Pull out on the bottom of the panel and lift to release the panel from the dryer drum.

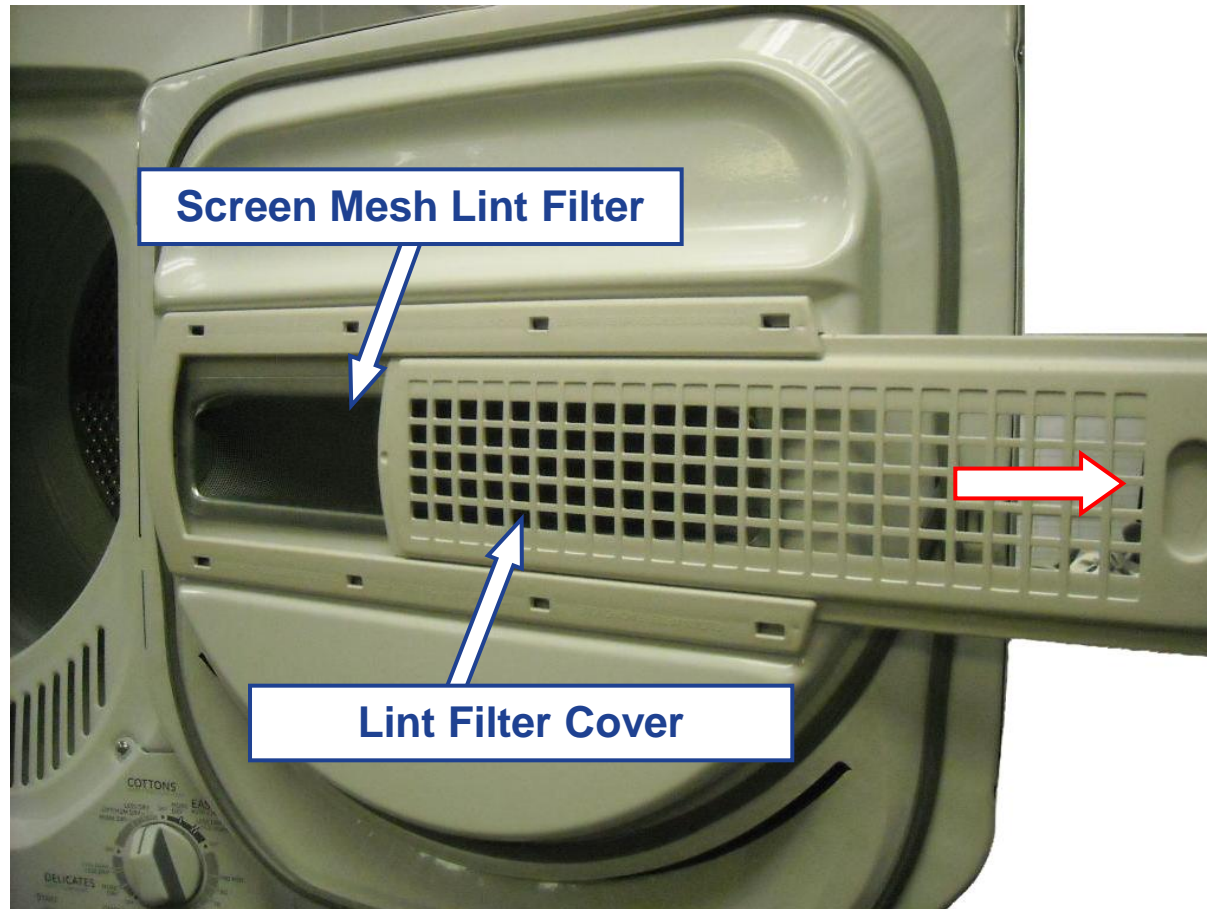


24" Dryer Front Panel



24" Dryer Front Panel

The lint filter is housed in the dryer door. To clean the lint filter, slide the cover from the screen mesh filter and wipe off the lint from the mesh screen after each cycle.



27" Dryer Front Panel

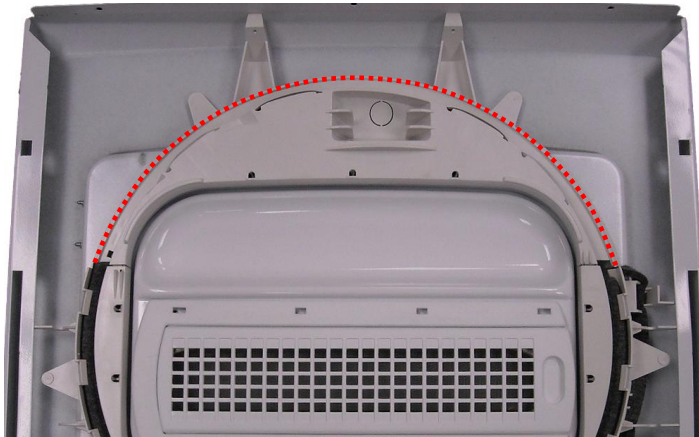
The lint filter is housed in the dryer front. To clean the lint filter, slide the filter up from the front panel and wipe off the lint screen after each cycle.



Dryer Front Panel Installation

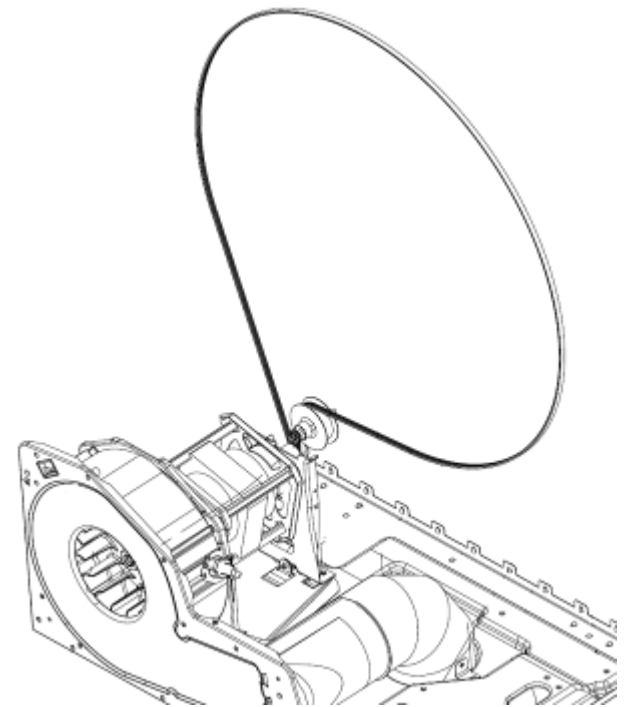
When removing or re-installing the dryer front panel; remove the dryer door. Remove the bottom screw from each hinge and loosen the second screw, lift the door off of the dryer front.

Removing the dryer door allows for easier manipulation of the dryer front as you place the dryer front on the top of the cabinet and reach through the door opening to push up on the dryer drum for placement on the front top bearing.



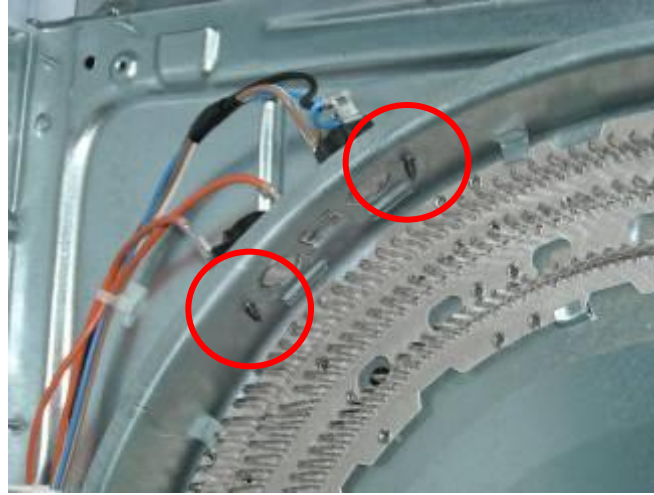
Dryer Drum Removal

To remove the dryer drum; lift up on the drum and push the idler pulley to the right locking it onto the motor bracket, releasing tension on the belt for removal. The dryer drum can then be removed from the dryer by pulling it forward. When re-installing the dryer belt, position the belt on the drum and pulleys and unlock the idler to tension the belt. Rotate the drum by hand CCW several times to ensure proper belt alignment.



Dryer Thermostats

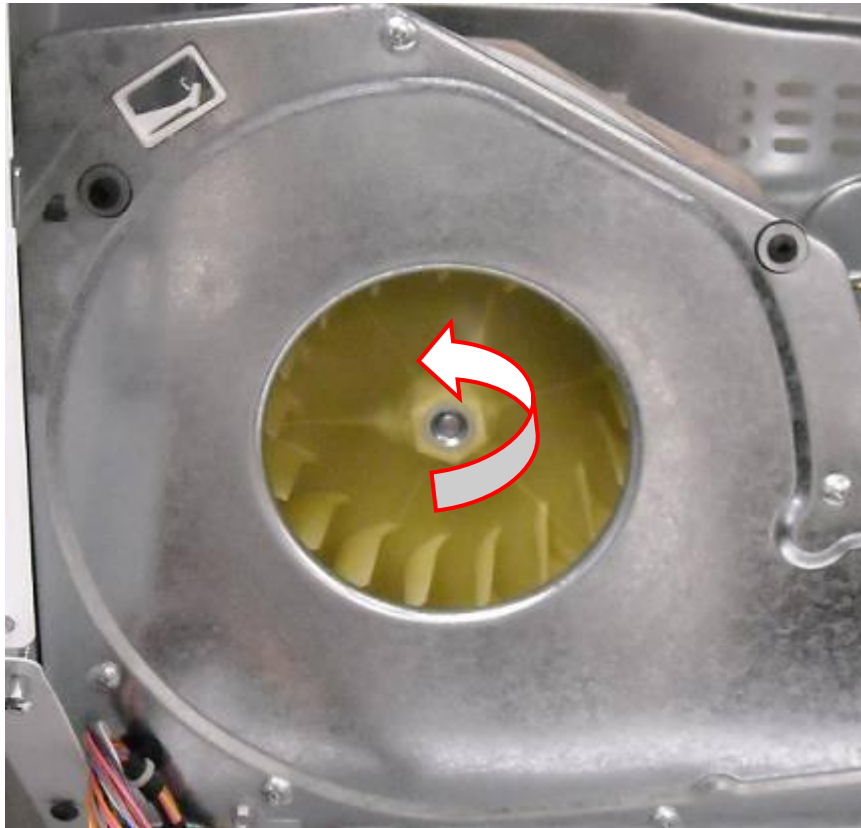
The dryer thermostats can be replaced by removing a single Phillips screw and removing the stat from a locking tab.



The control inlet thermostat on gas models utilize two locking tabs instead of a Phillips screw.

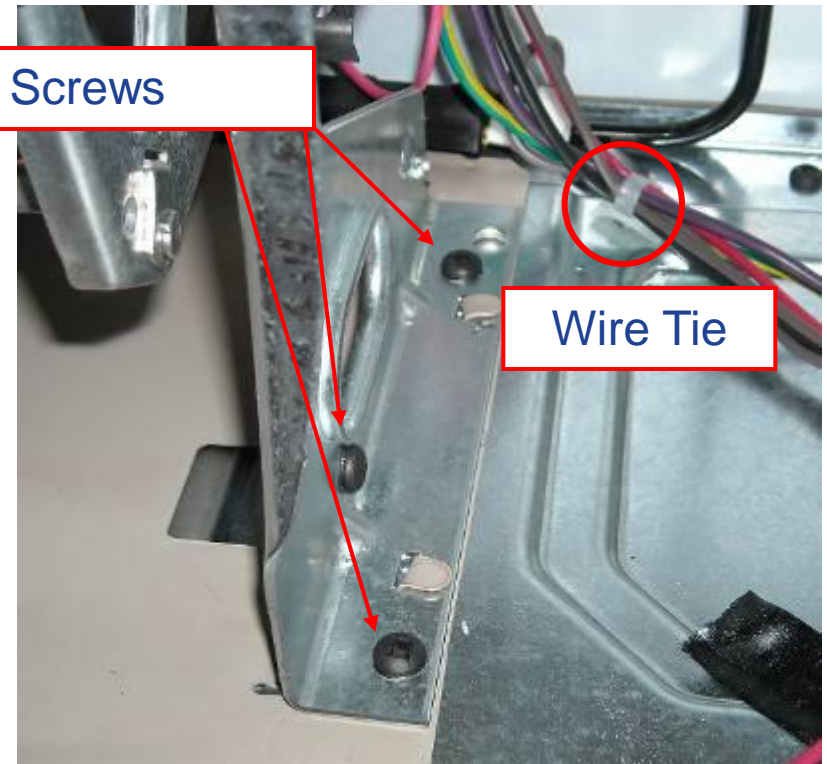
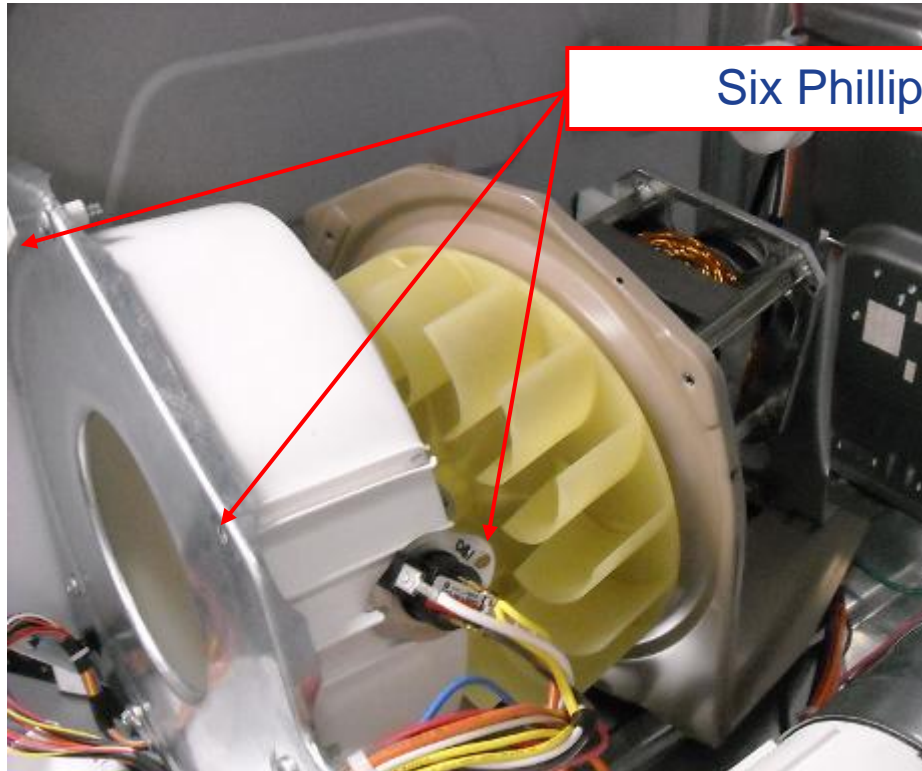
Motor & Blower

The blower wheel is mounted to the motor shaft with an integral threaded nut. To remove the blower wheel; lock the motor shaft and turn the blower nut CCW with a 15/16" (24mm) socket.



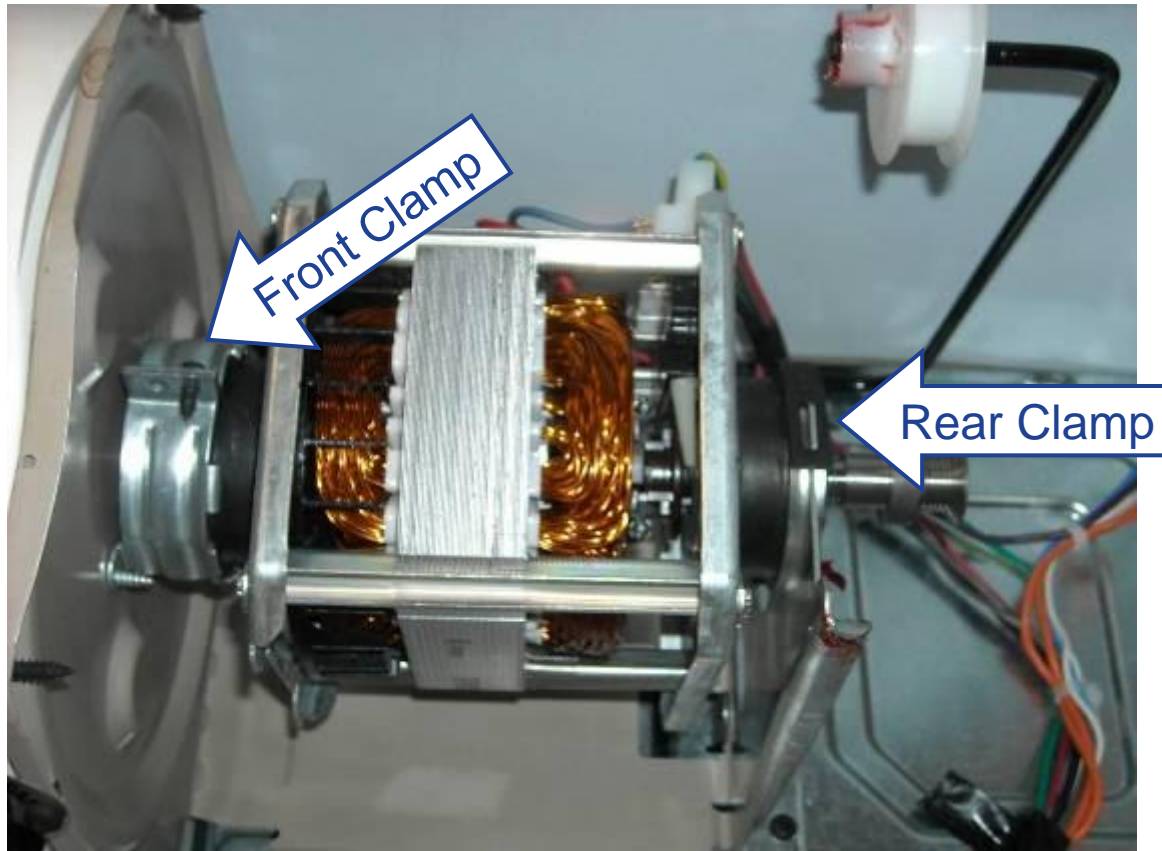
Motor & Blower

To remove the motor/blower assembly; remove three Phillips screws from the front blower housing and the control thermostat. Remove three Phillips screws from the rear motor bracket, disconnect the motor harness wire tie and move the assembly to the rear of the dryer.



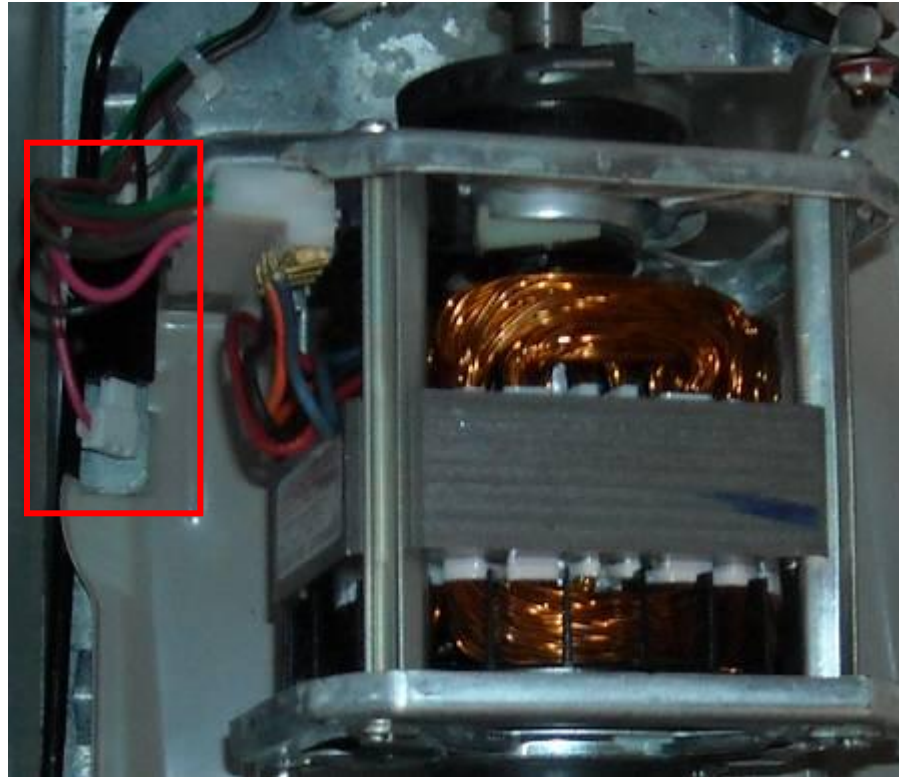
Motor & Blower

To replace the drive motor; you can pull the assembly as previously mentioned or, loosen the front motor clamp and compress the rear clamp to unsnap it from the rear motor bracket. Remember to unscrew the blower wheel.



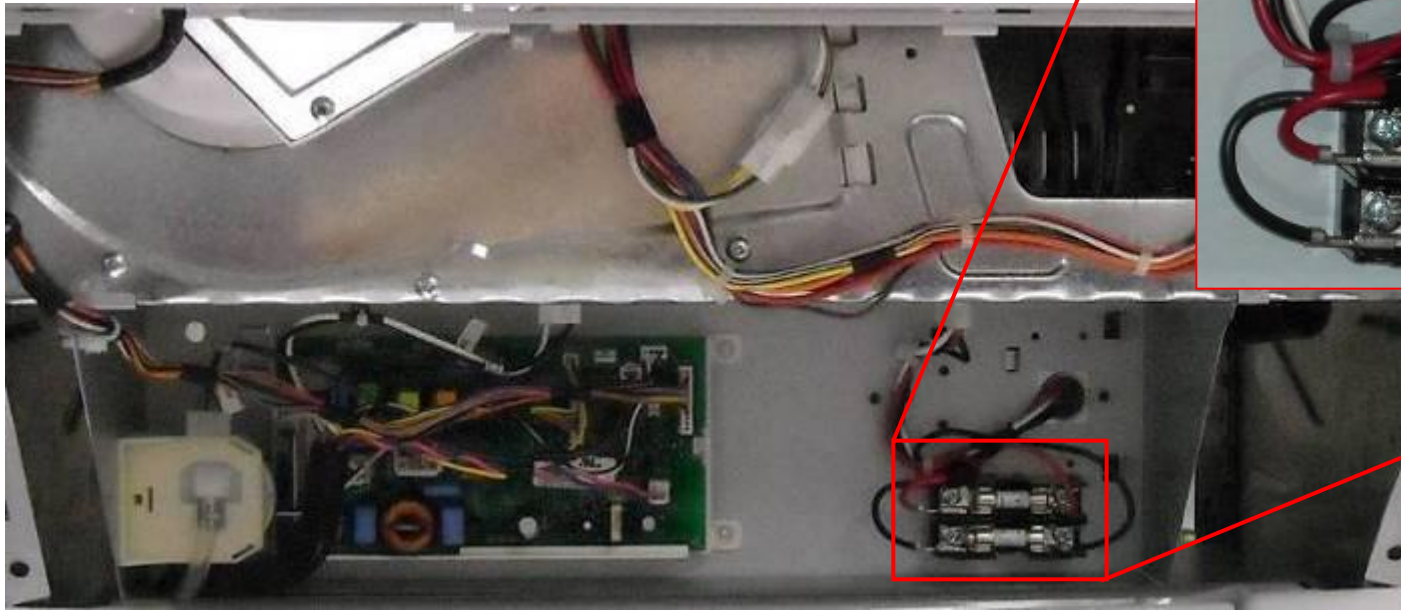
Belt Switch

The belt switch is mounted to the left side of the motor plate and is attached with two Phillips screws. This switch cuts power to the motor in the event the belt breaks.



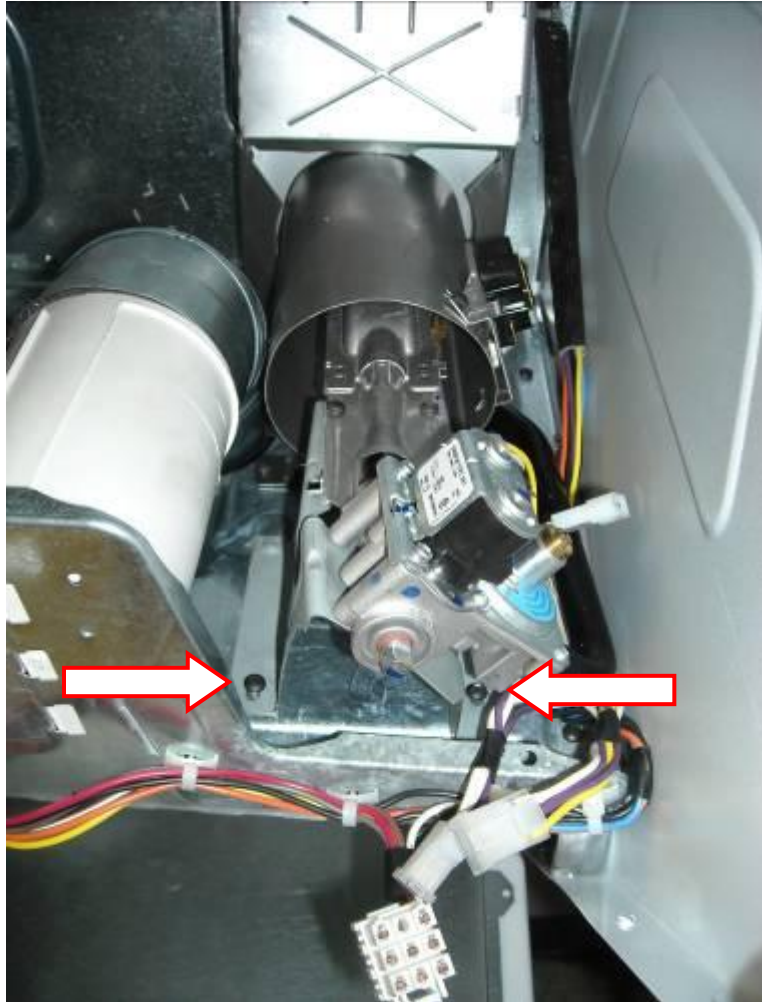
Safety Fuses - Electric Dryer

Both line wires to the dryer are over current protected by a 30 amp cartridge type fuse. Before removing the access panel make sure power is disconnected to the dryer. If either of these fuses are open, check resistance line to line and each line to ground for possible shorts. Never just replace a fuse without follow up testing. Power from the house circuit comes in on the right side of the fuse holder.



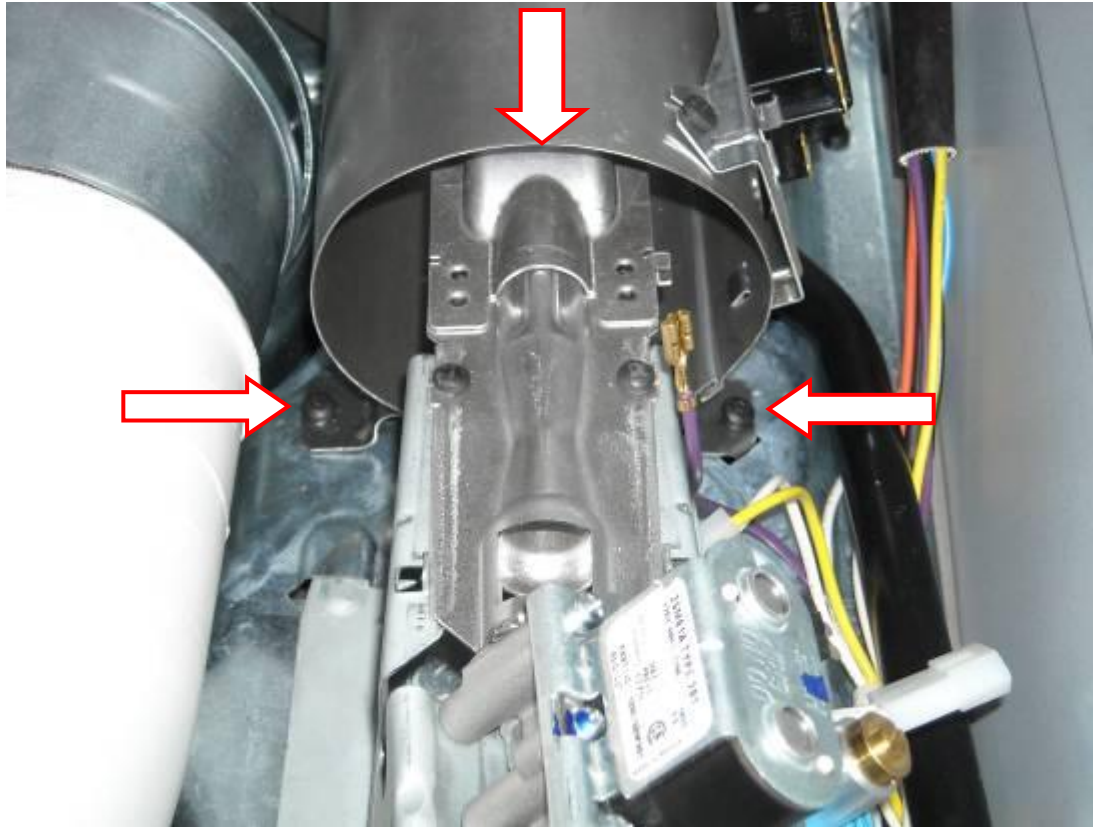
Gas Valve

To remove the gas valve assembly; the gas needs to be turned off and disconnected from the home gas line. Disconnect the wiring from the valve, igniter and the flame detector. Remove two Phillips screws from the valve bracket at the base.



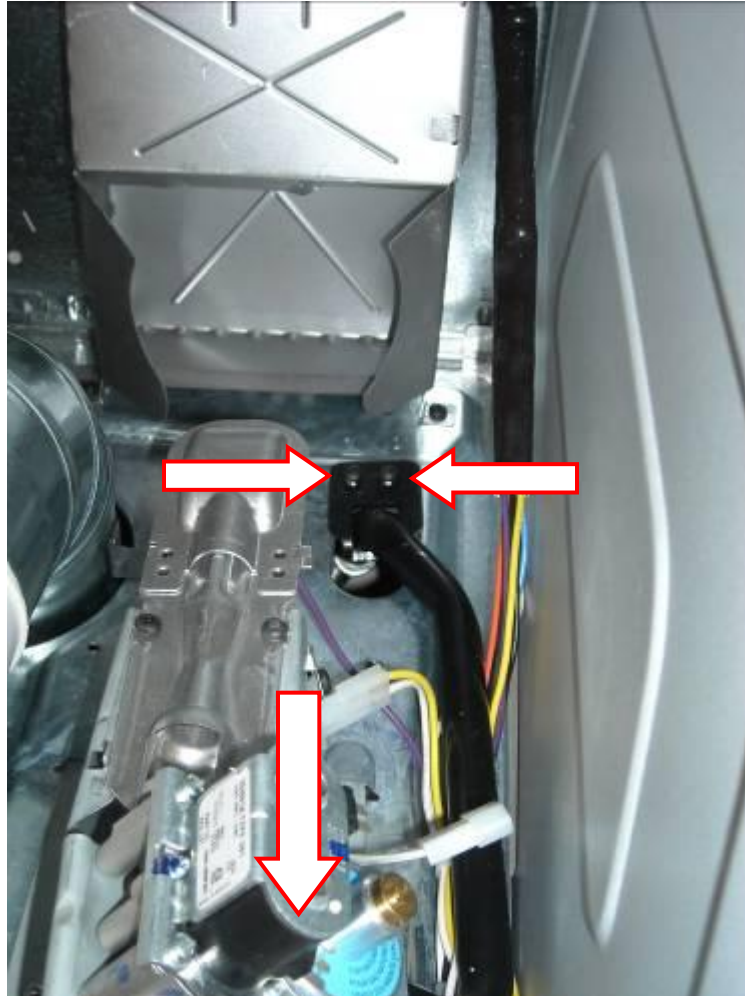
Gas Valve

Remove the two Phillips screws holding the combustion chamber to the dryer base and carefully pull the chamber to the front of the dryer taking care not to break the igniter. Lift and remove the combustion chamber.



Gas Valve

Remove the two Phillips screws holding the valve gas line to the dryer base.
Pull the gas valve forward while lifting the gas line through the dryer base.



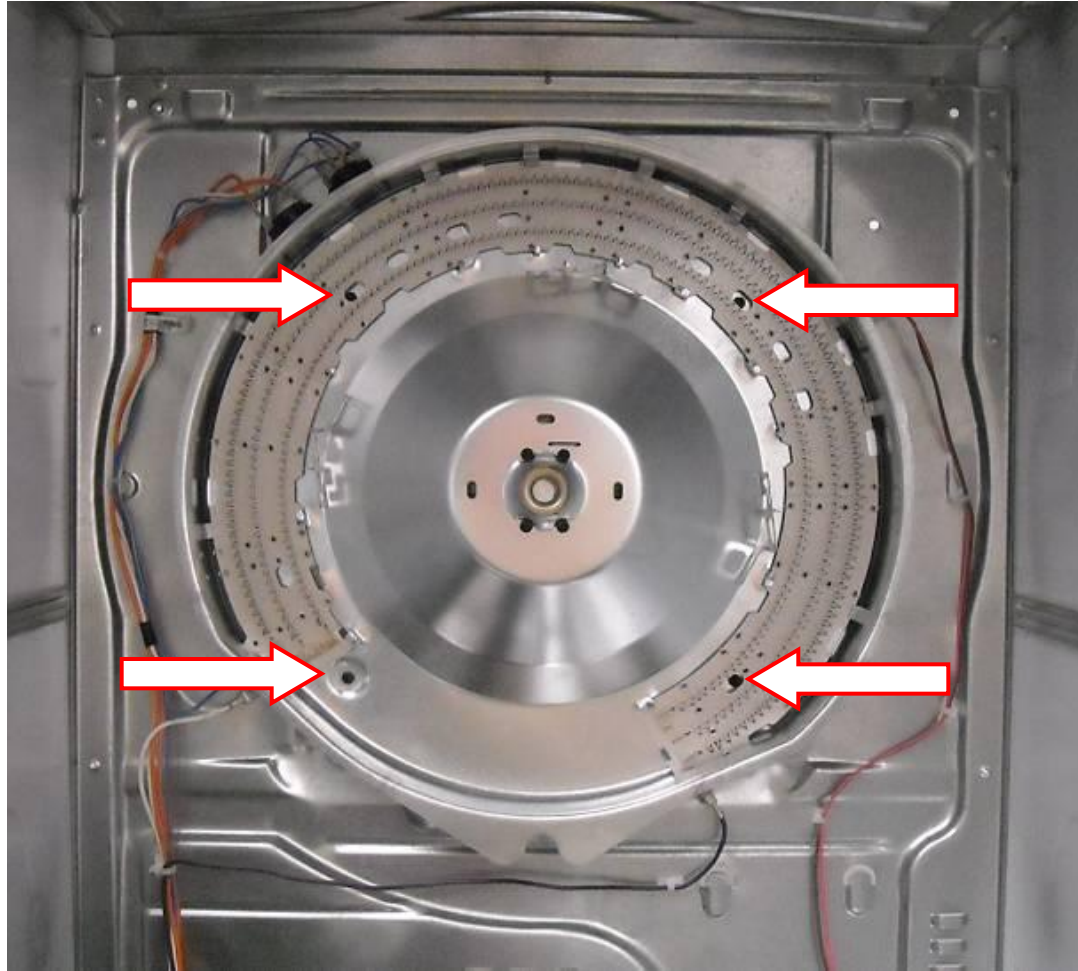
Igniter & Flame Detector Gas Dryer

The igniter and flame detector are held by single Phillips screws on the right side of the gas valve and combustion chamber.



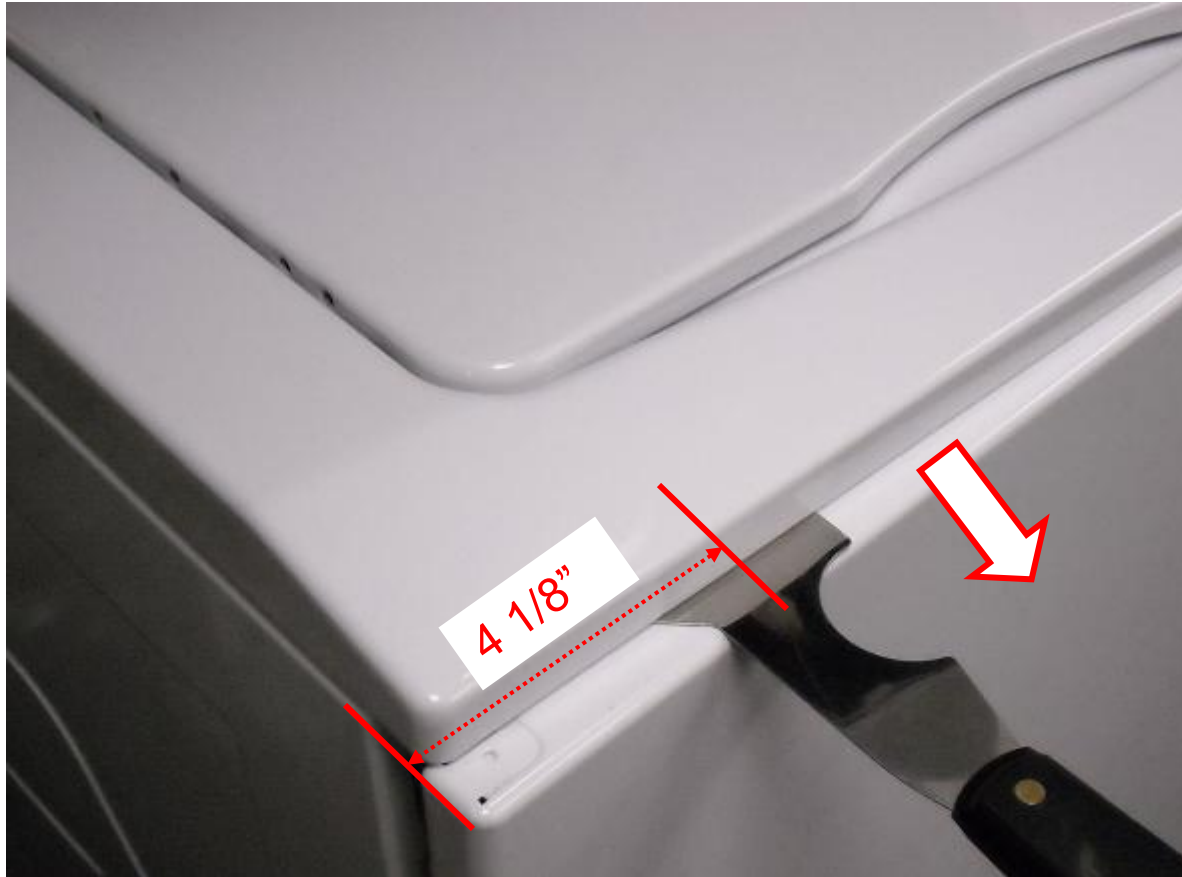
Electric Dryer Heater Housing

The electric heater can be replaced by removing four Phillips screws in the housing after removing the thermostats and heater wiring.



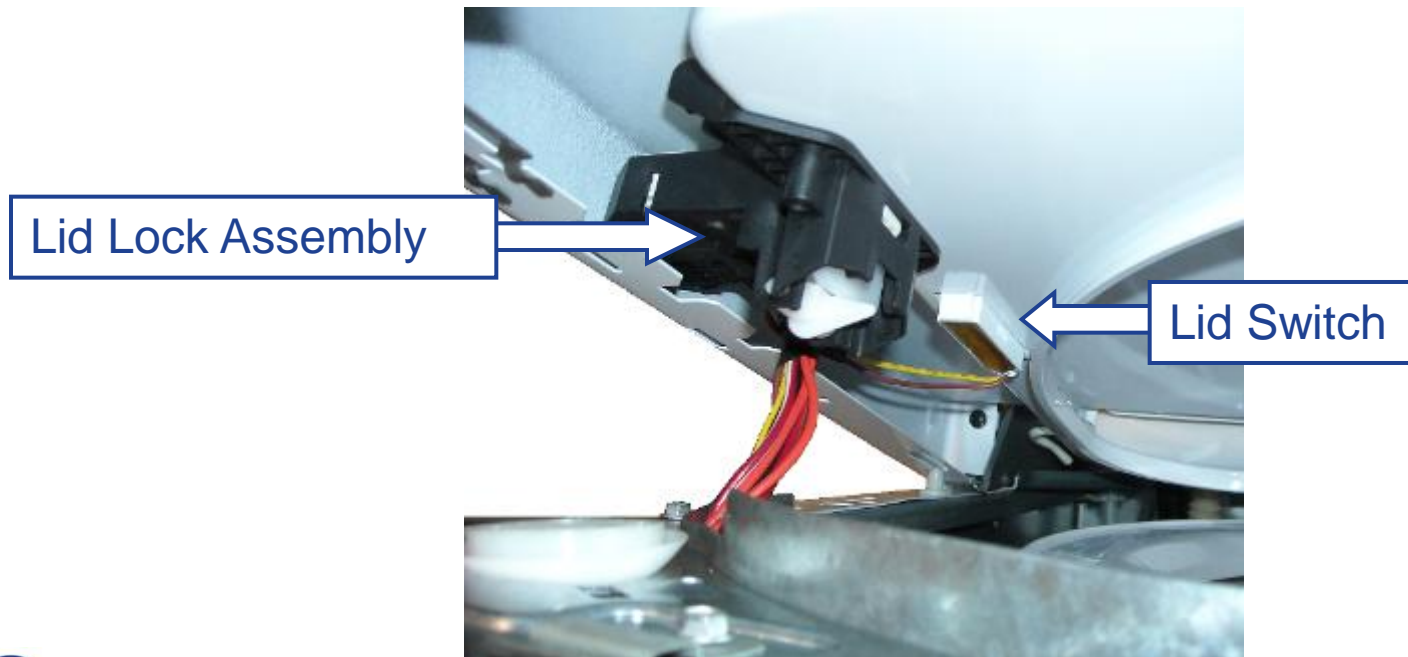
Washer Front Panel

To remove the washer front panel; insert a putty knife between the washer top and front panel 4 1/8" in from each side. While pressing in on the locking tabs pull the washer front panel forward to release. Lift up on the front panel to release it from the bottom front two retaining hooks.



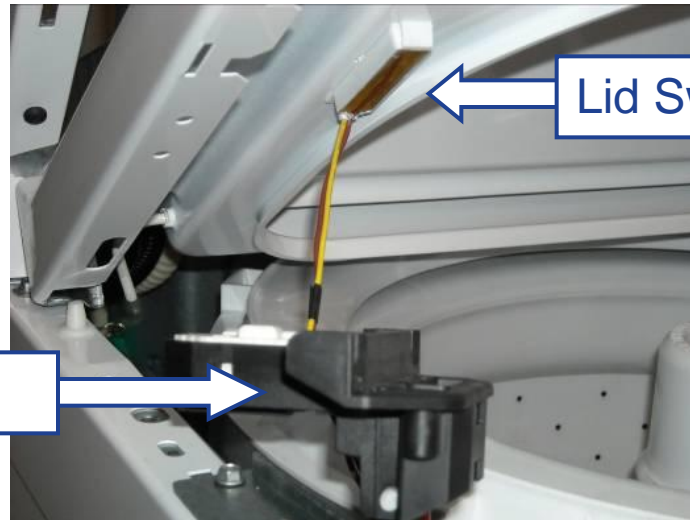
Washer Top

To remove the washer top; remove the two ¼" hex screws from the front panel brackets and lift up from the front. This allows access to the lid lock and the lid switch.



Washer Top Lid Lock

To remove the lid lock assembly; remove two Phillips screws from the washer top and pull the lid lock from the washer top. Note: Some early models used T15 Torx.

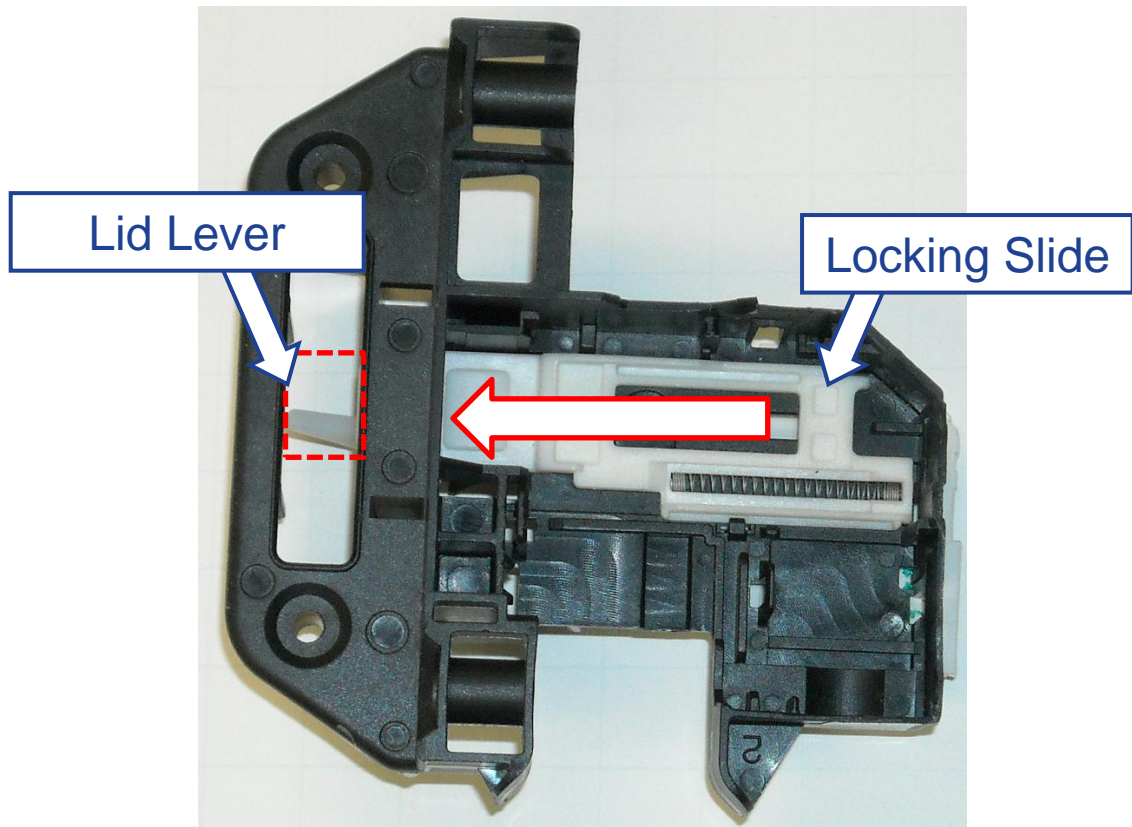


Washer Top Lid Lock - Operation

Any time the lid is in the down position the lid actuator presses down on the lid lock lever. The locking slide then moves over into the actuator to lock the lid. To test the machine with the lid up; remove the lid actuator and install it into the lock opening on the washer top. Place a magnet on the lid reed switch.



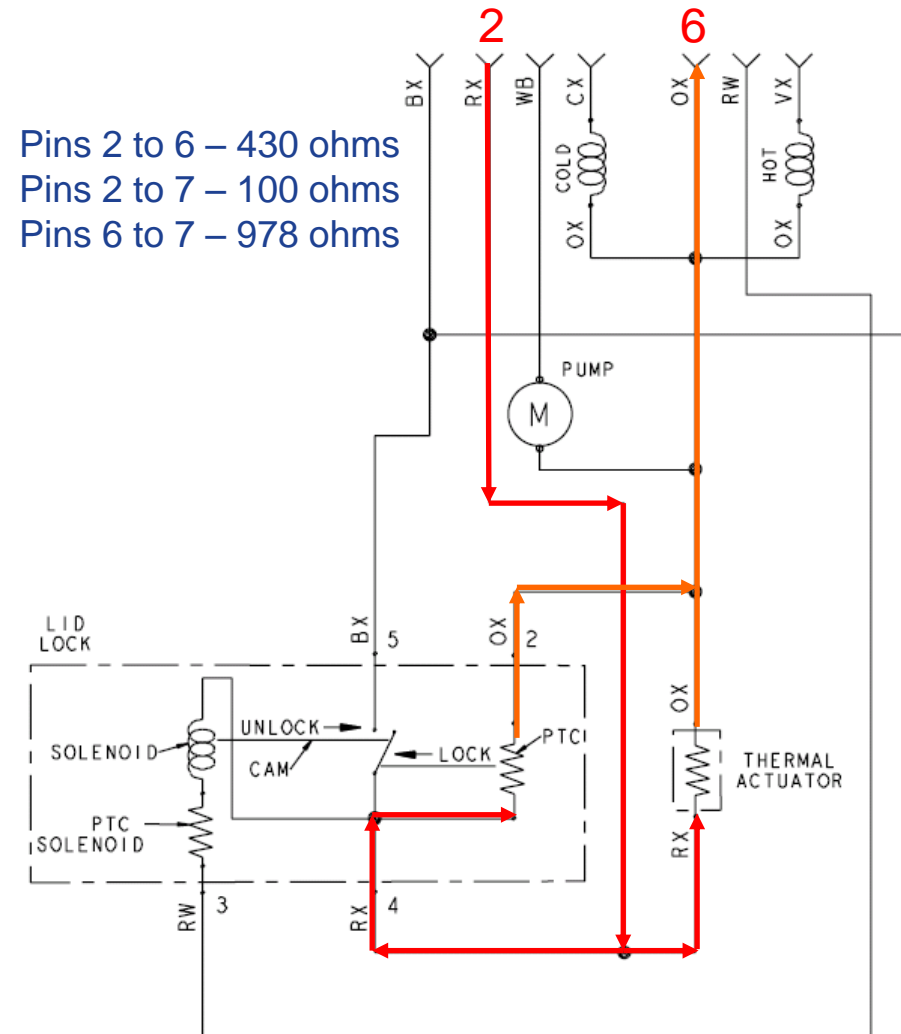
Lid Actuator



Shown with mechanism removed

Washer Top Lid Lock - Operation

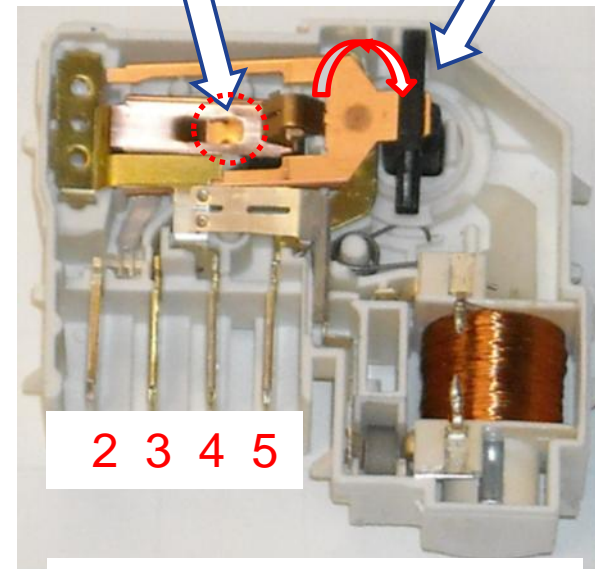
When the washer goes into spin or rinse, the control activates the thermal actuator and the lid lock PTC heater (Positive Temperature Coefficient) from control terminals 2 & 6. The PTC heats the lock bimetal which in turn puts downward pressure on the locking pin.



Locking Pin Up

PTC Heater

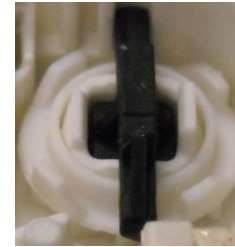
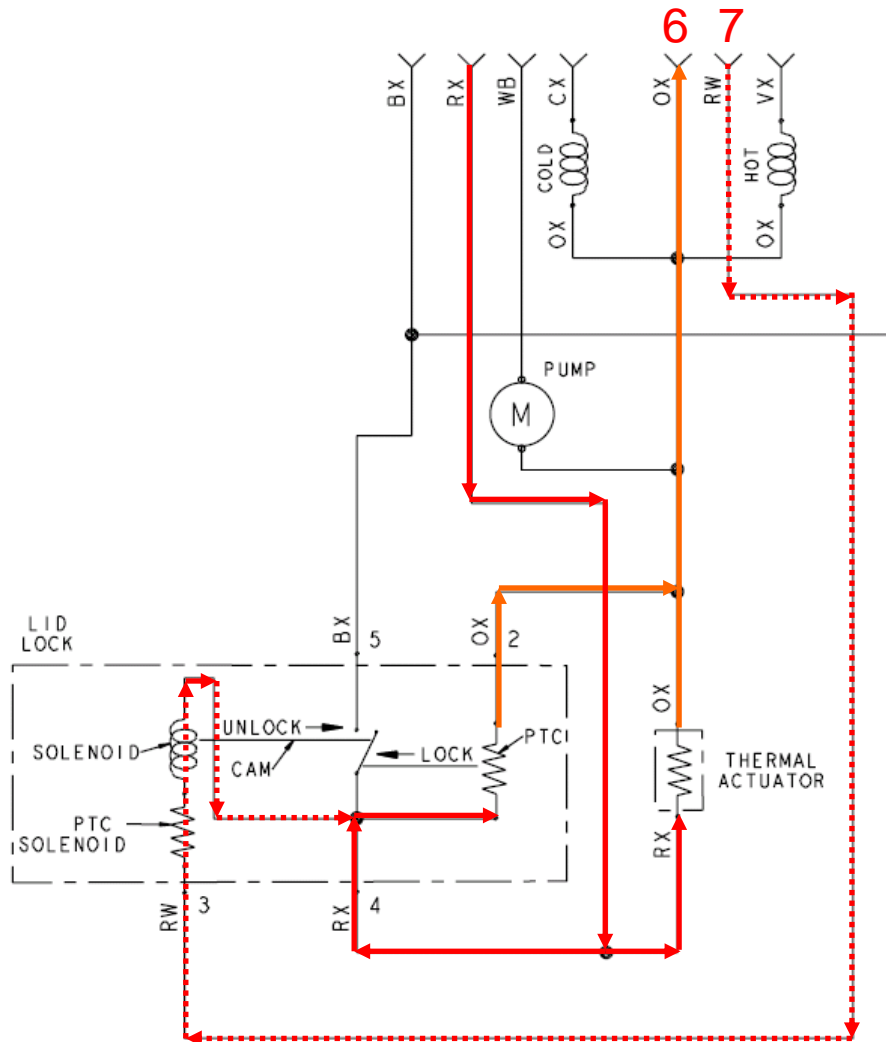
Locking Pin



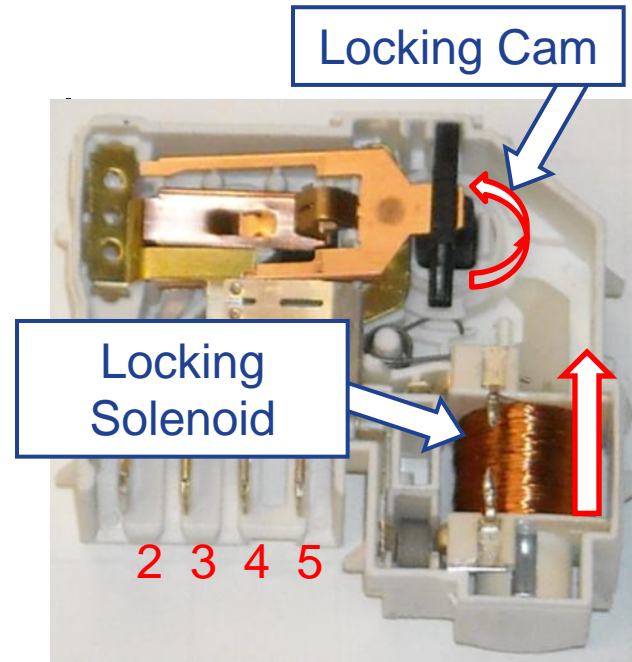
Terminals 2 to 3 – 978 ohms
Terminals 2 to 4 – 878 ohms
Terminals 3 to 4 – 100 ohms

Washer Top Lid Lock - Operation

The control then sends power (pins 6 & 7 momentarily) to the locking solenoid to rotate the lock cam which allows the black locking pin to drop and secure the locking slide so the lid can not be opened.

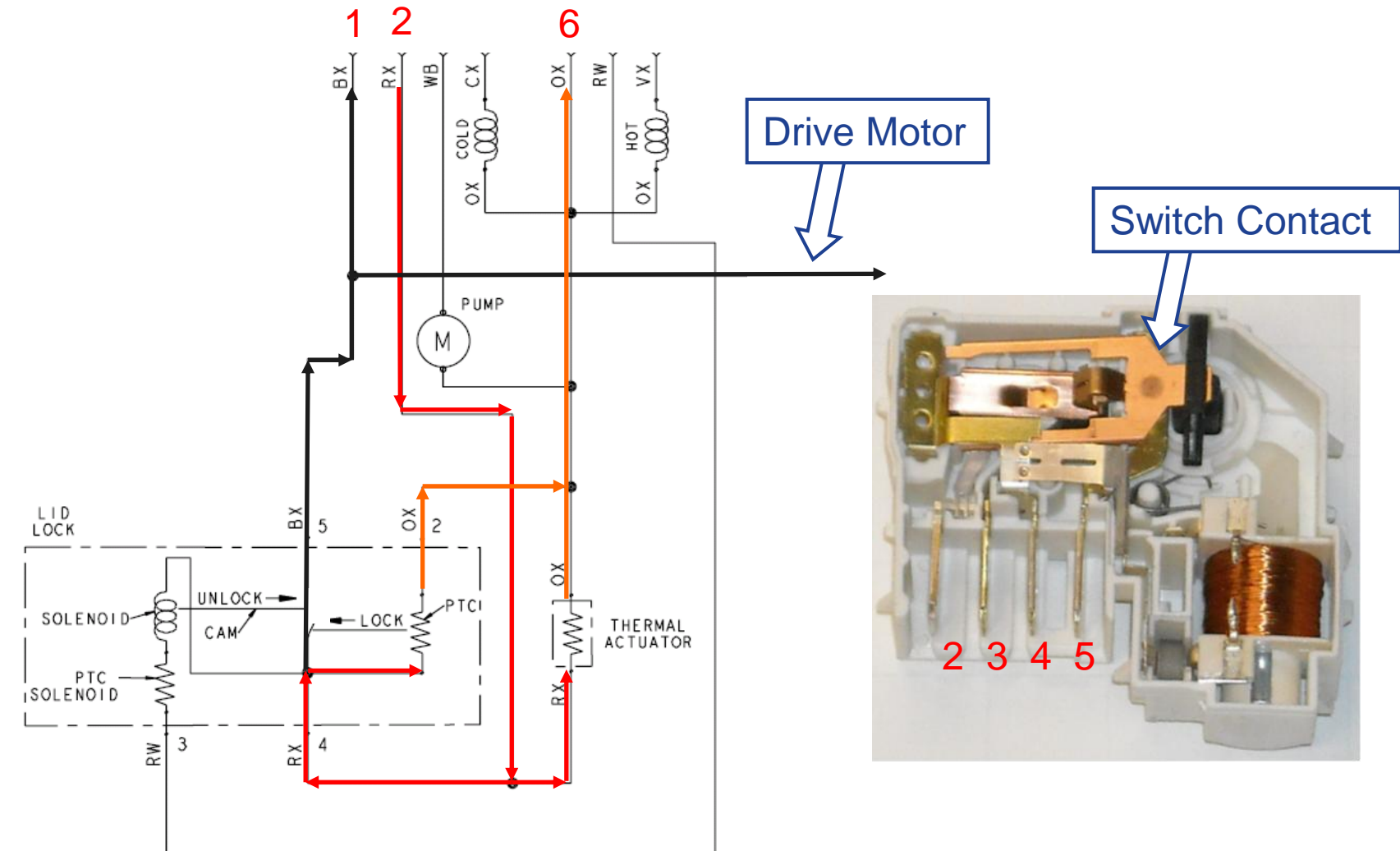


Locking Pin Down



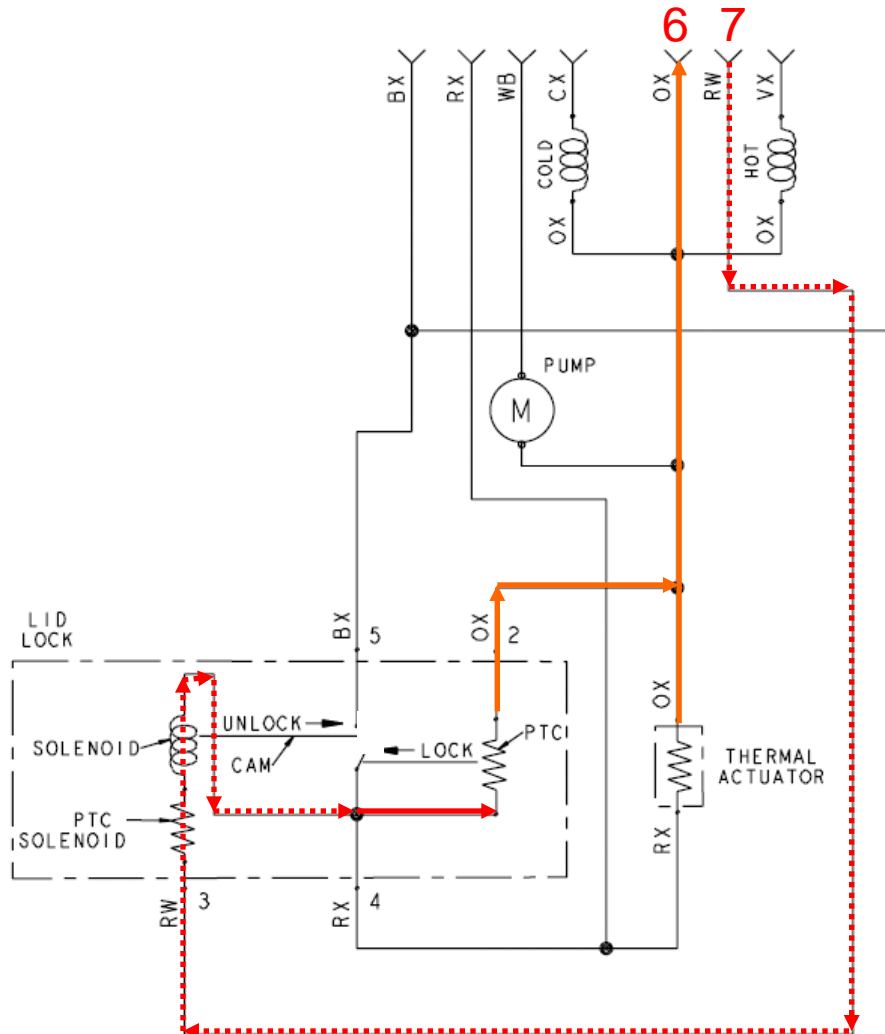
Washer Top Lid Lock - Operation

If the lid is down and the locking pin drops, contacts 4 to 5 inside the lid lock assembly complete a circuit from pins 1 to 2 at the main control. The control will be able to activate the drive motor for spin.

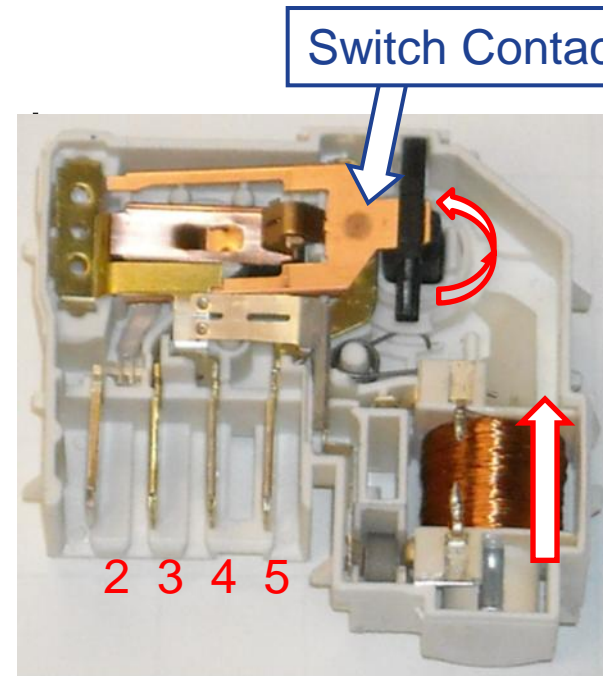


Washer Top Lid Lock - Operation

The lid will remain locked until the end of the spin cycle and the control has received 0 rpm feedback from the motor Hall sensor. The control will then unlock the lid by energizing the lock solenoid through pin 7 to 6.

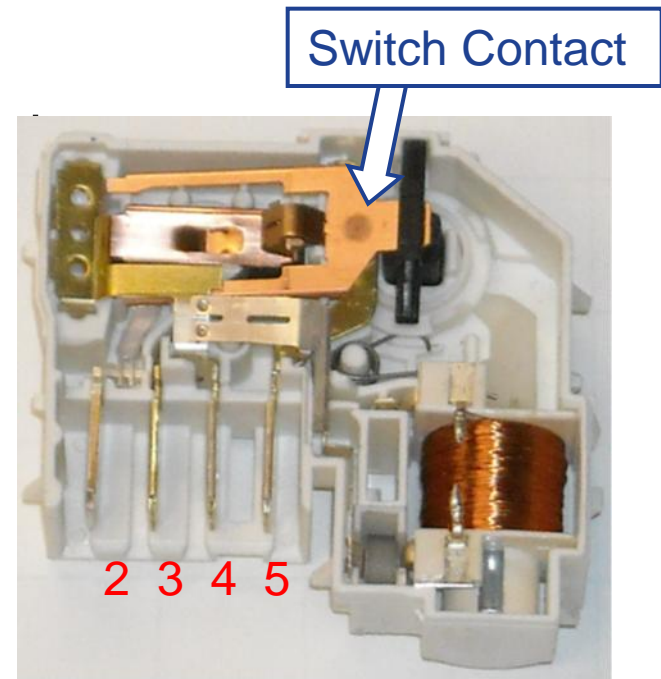
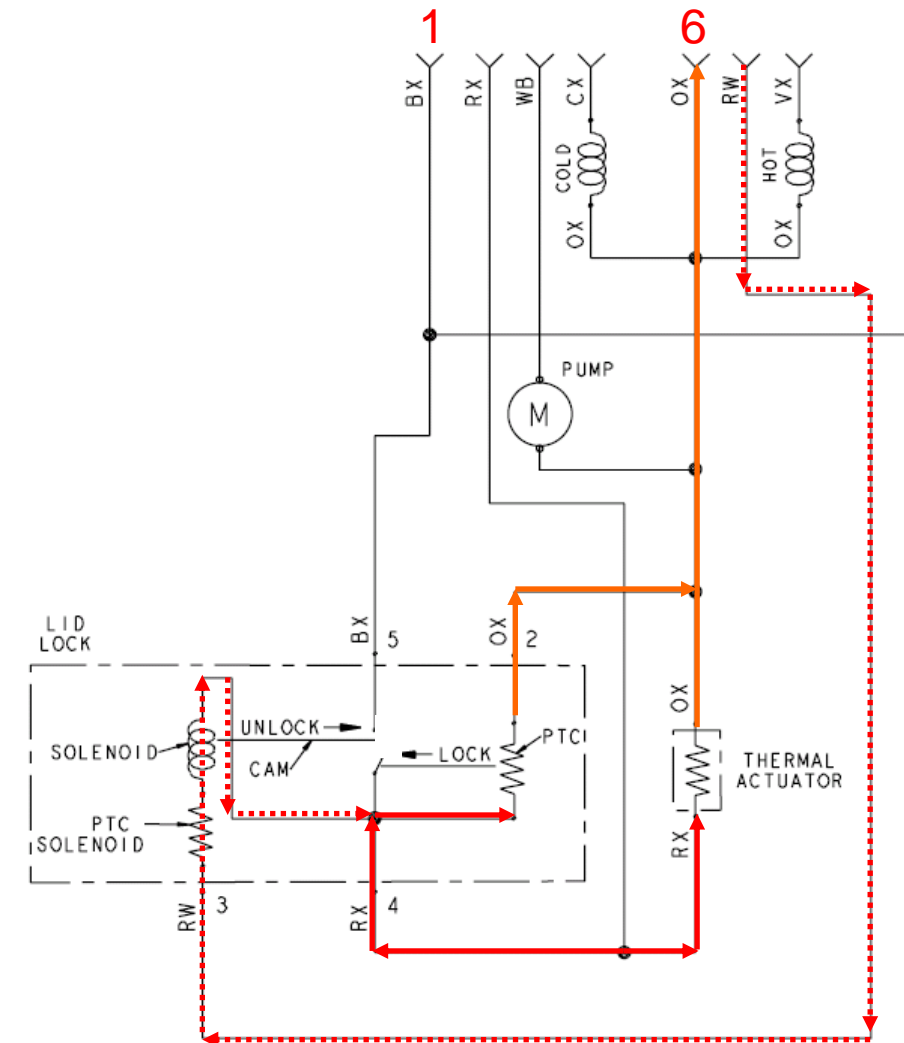


Locking Pin Up

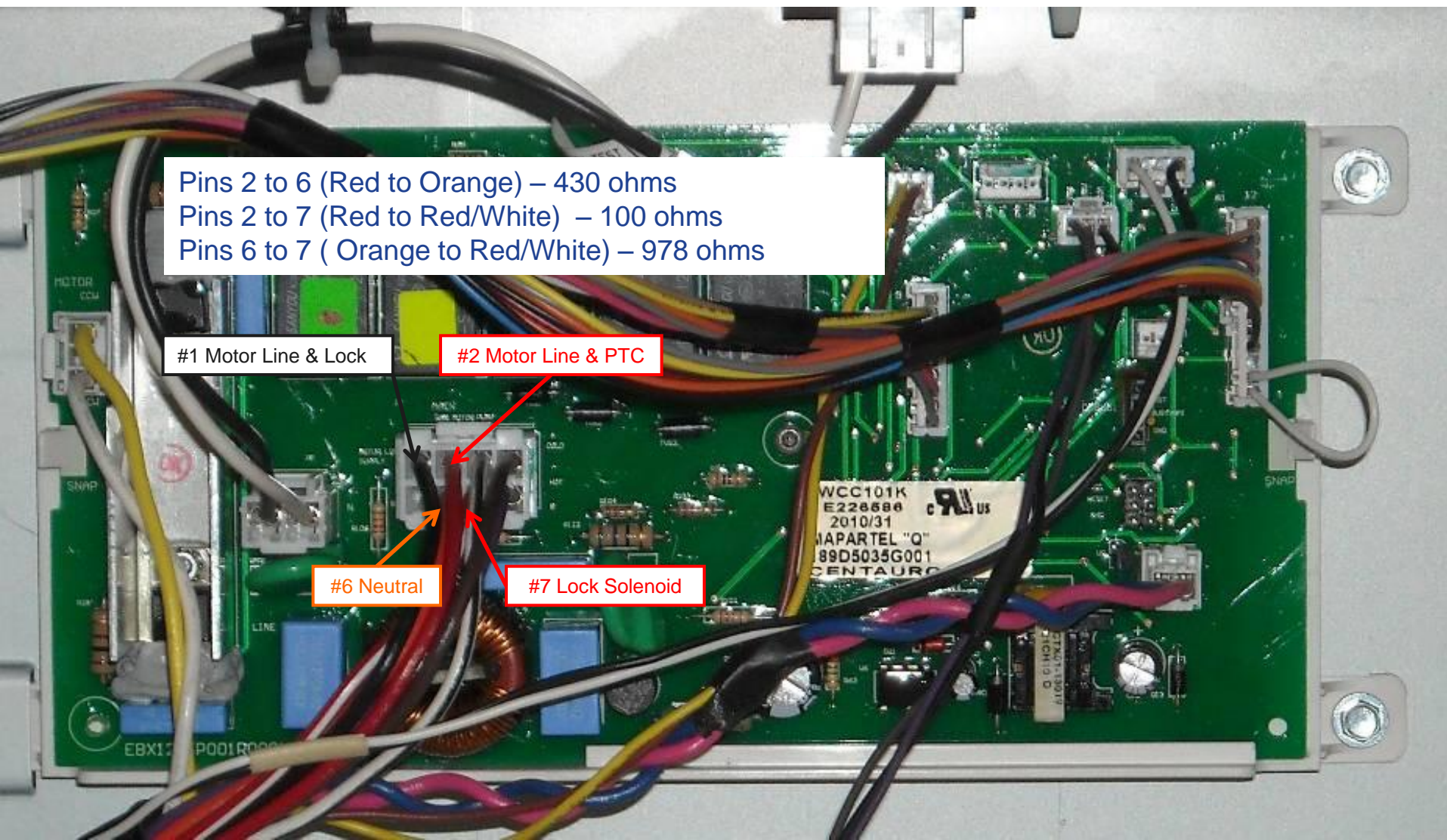


Washer Top Lid Lock - Operation

If the lid lock contacts 4 to 5 do not close; the control will pulse the locking solenoid five times to attempt to lock the lid. If after five attempts the lock contact has not closed, the control will pause for 4.25 minutes and attempt the lock routine again (3x.) If the lid will not lock, the control will enter a failure mode and display a failure code to the user.

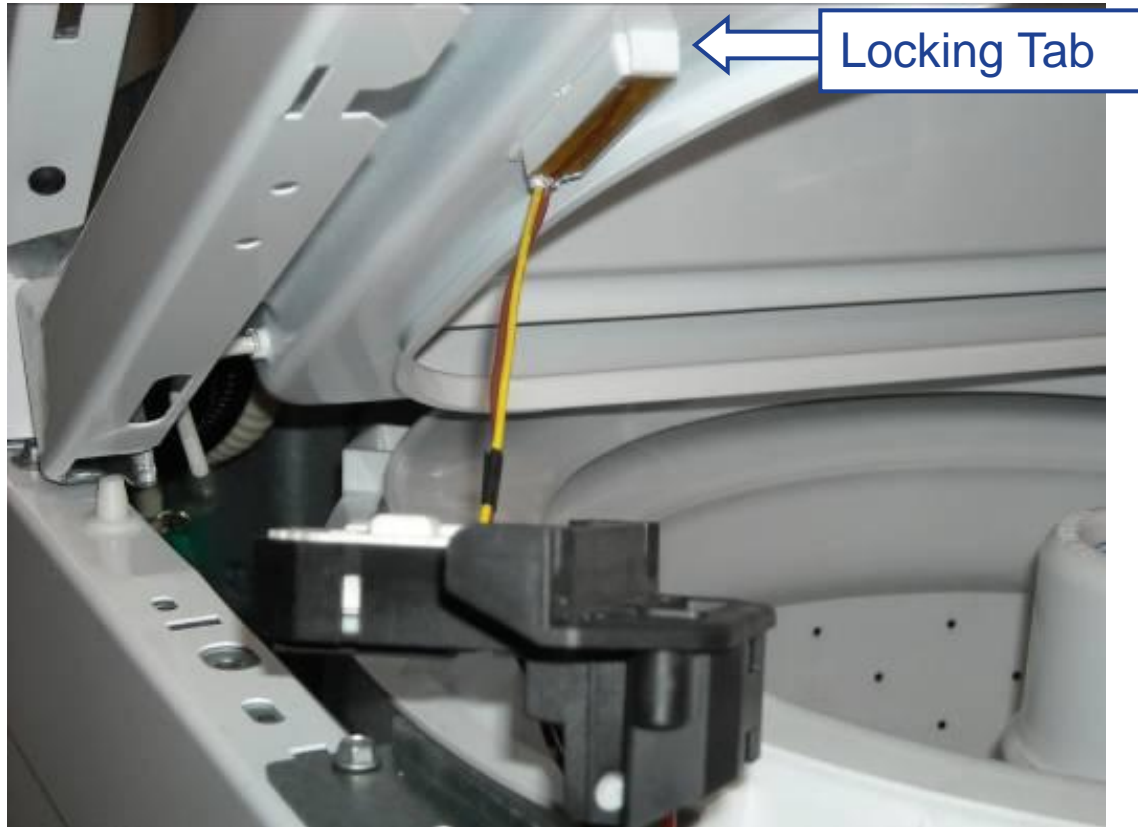


Washer Main Control Board – Lock Circuits



Washer Top Lid Switch

To remove the lid switch; press in on the front locking tab to release the lid switch and pass it through the opening on the washer top. The complete washer top can then be removed from the unit.



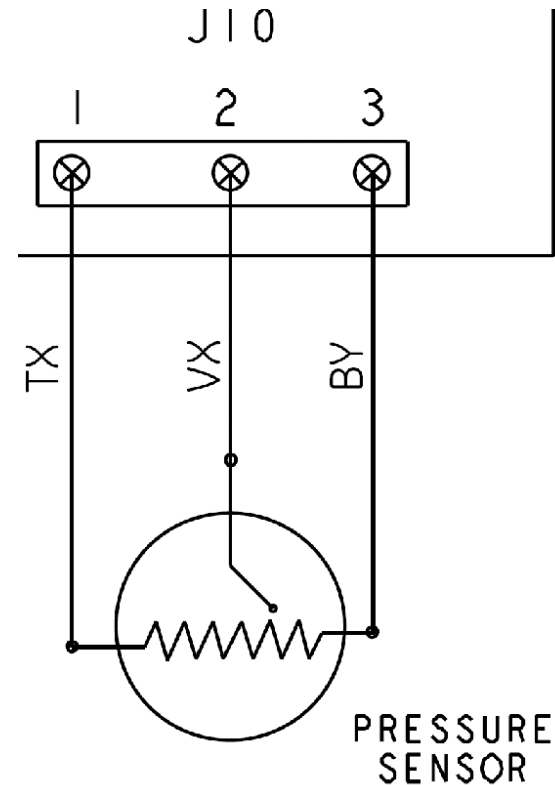
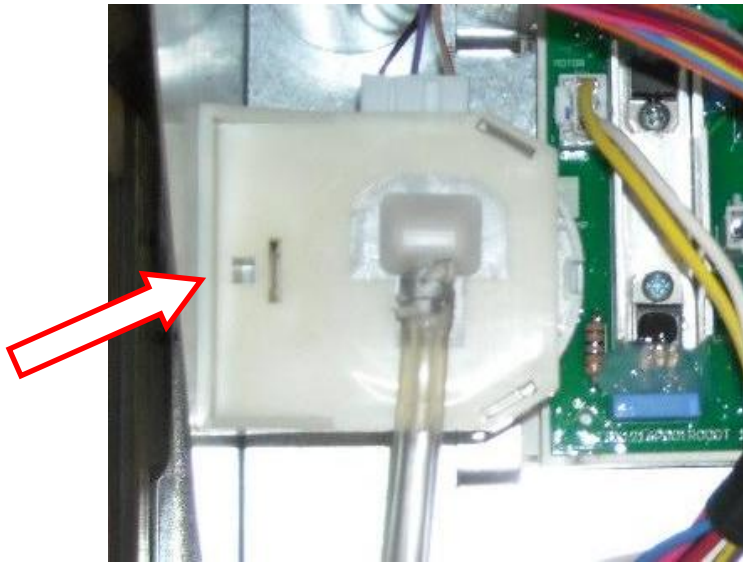
Washer Top Lid Switch

The lid switch is a magnetically operated reed switch which is closed by a magnet located on the lid. The lid switch interrupts all functions of the machine when the user opens the lid during operation. The cycle light will flash when the lid is open.



Water Pressure Sensor

The water pressure sensor is mounted to the left of the washer control board with a single ¼" hex head screw. The sensor operates on low voltage dc which can be read from the control board connector J10. The voltage will increase from 1.2 vdc (empty) to 3.6 vdc (full) across terminals 1-2, Tan to Violet. Terminals 2-3, Violet to Black, will read the inverse voltage, the voltage will decrease on fill. Test is performed at the control board with the harness attached.



Washer Agitator Removal

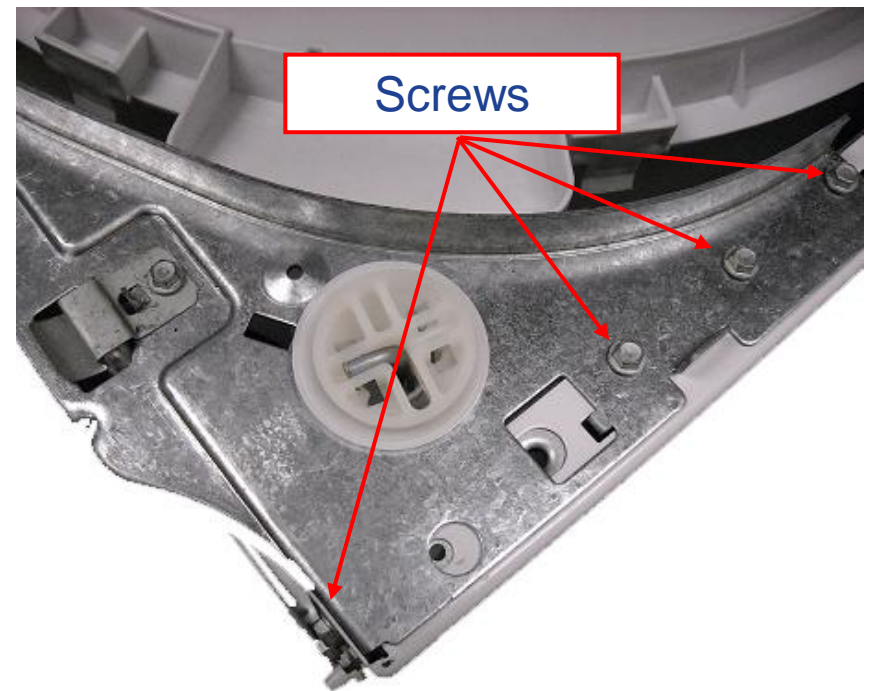
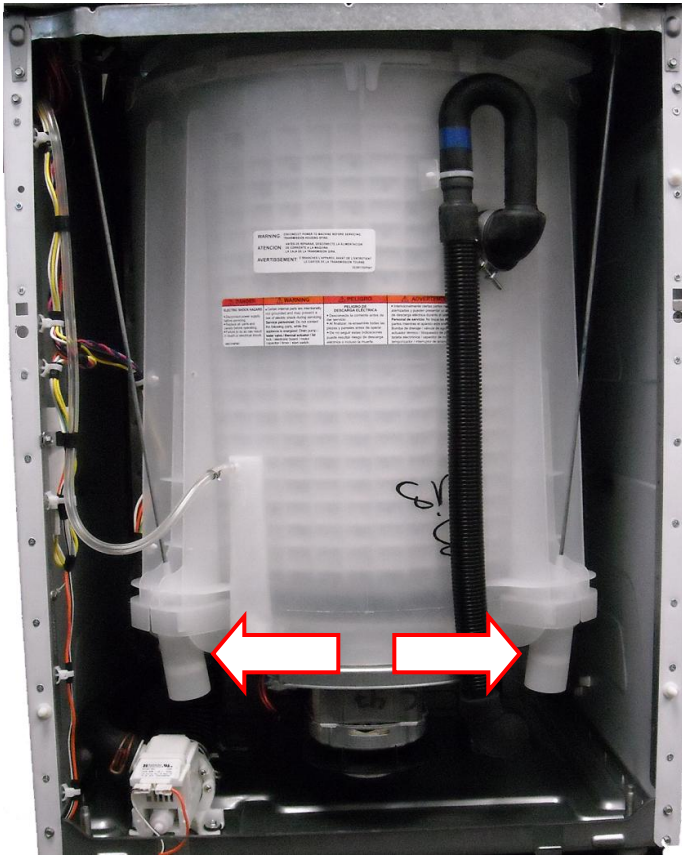
To remove the agitator; pull the fabric softener dispenser from the top of the agitator. Using a 13"-15" socket extension, remove the 3/8" (10mm) hex bolt from the bottom inside of the agitator (CCW.) Lean the washer tub forward and use an agitator pull strap to remove.



Washer Tub - Spin Basket

To remove the spin basket; disconnect the two front suspension rods by lifting up the tub and releasing the support rods, tilt the washer tub forward. Remove the top front cabinet frame by removing the four Phillips head screws on each side of the frame.

Note: Some early models used ¼" hex head screws.

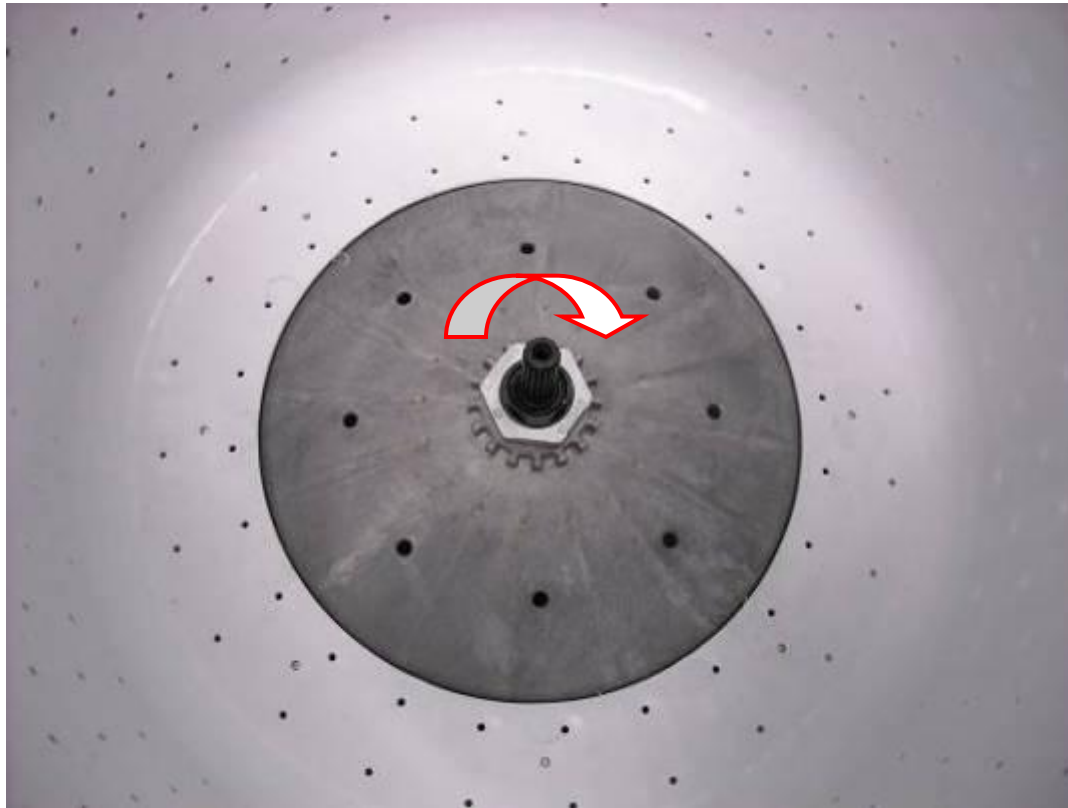


Washer Tub - Spin Basket

Unsnap the tub cover from the top of outer tub and remove. Using a 1-11/16" impact socket or tub nut spanner wrench, remove the basket nut. (Clockwise to loosen.)

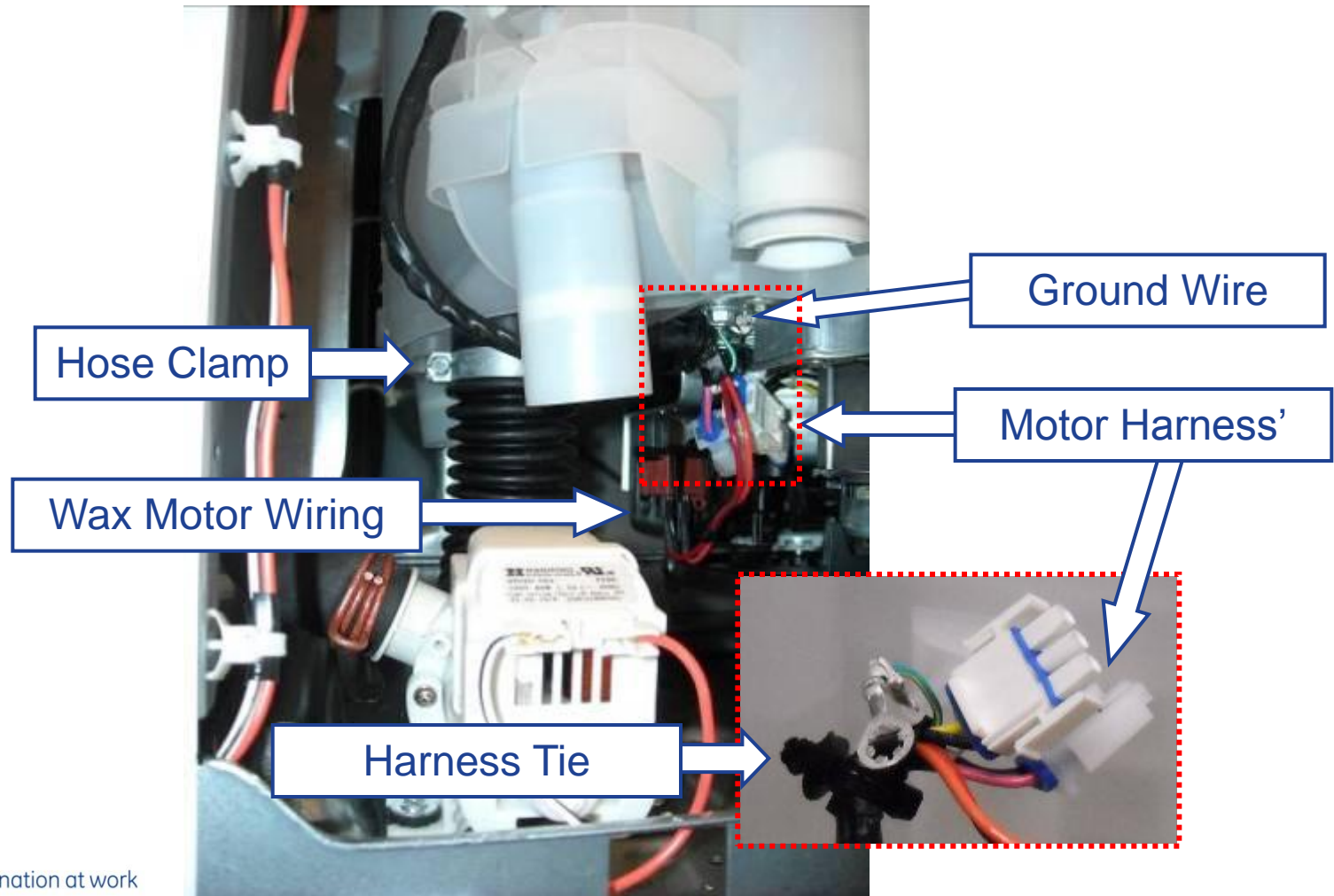
Lift the basket from the outer tub.

When reinstalling the basket nut - torque to 85 foot pounds.



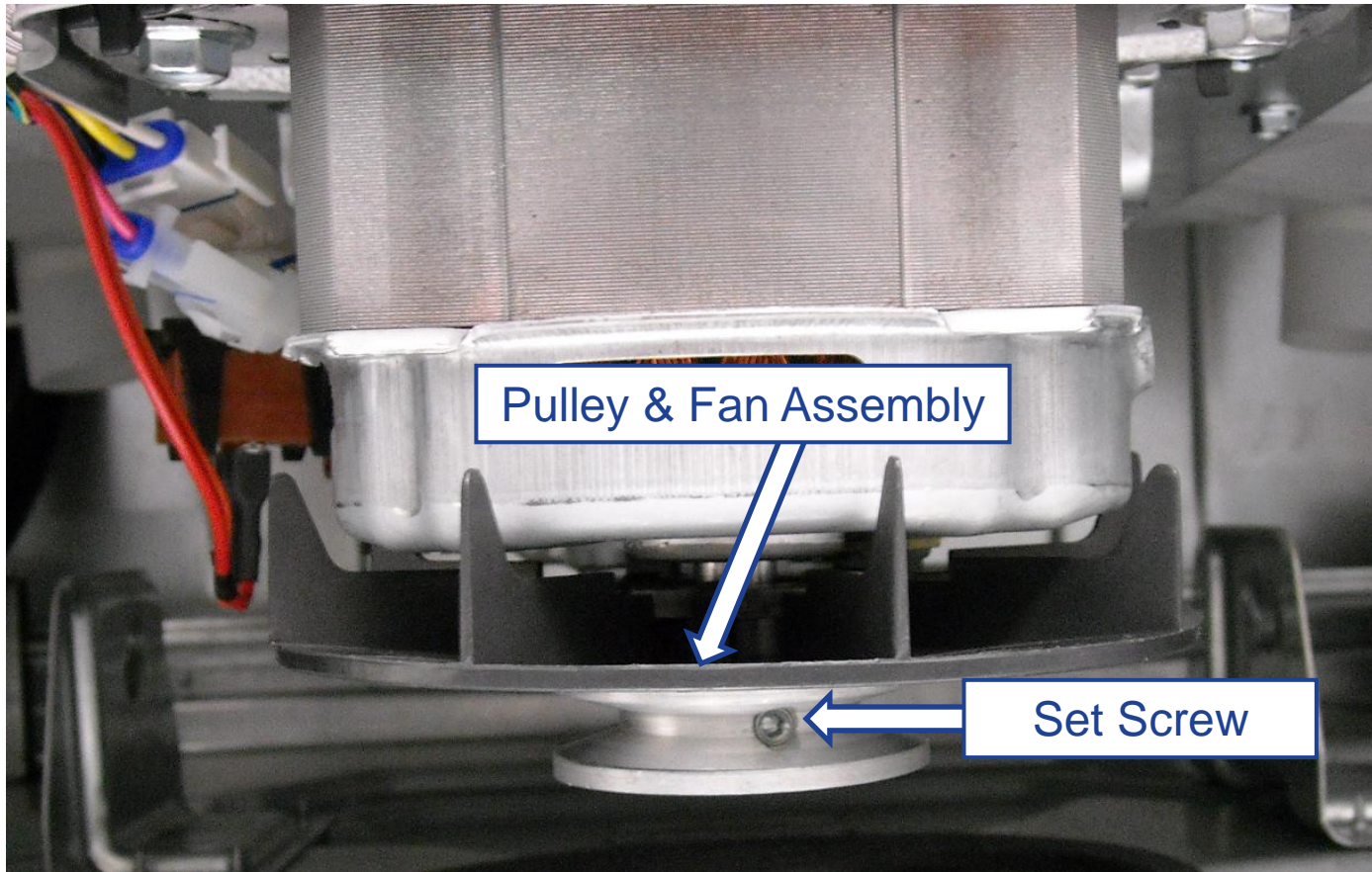
Washer Outer Tub

To remove the outer tub; disconnect the motor harness, wax motor harness and ground wire. Pry down on the harness tie to remove the harness from the frame. Disconnect the drain hose from the bottom of the tub by loosening the hose clamp.



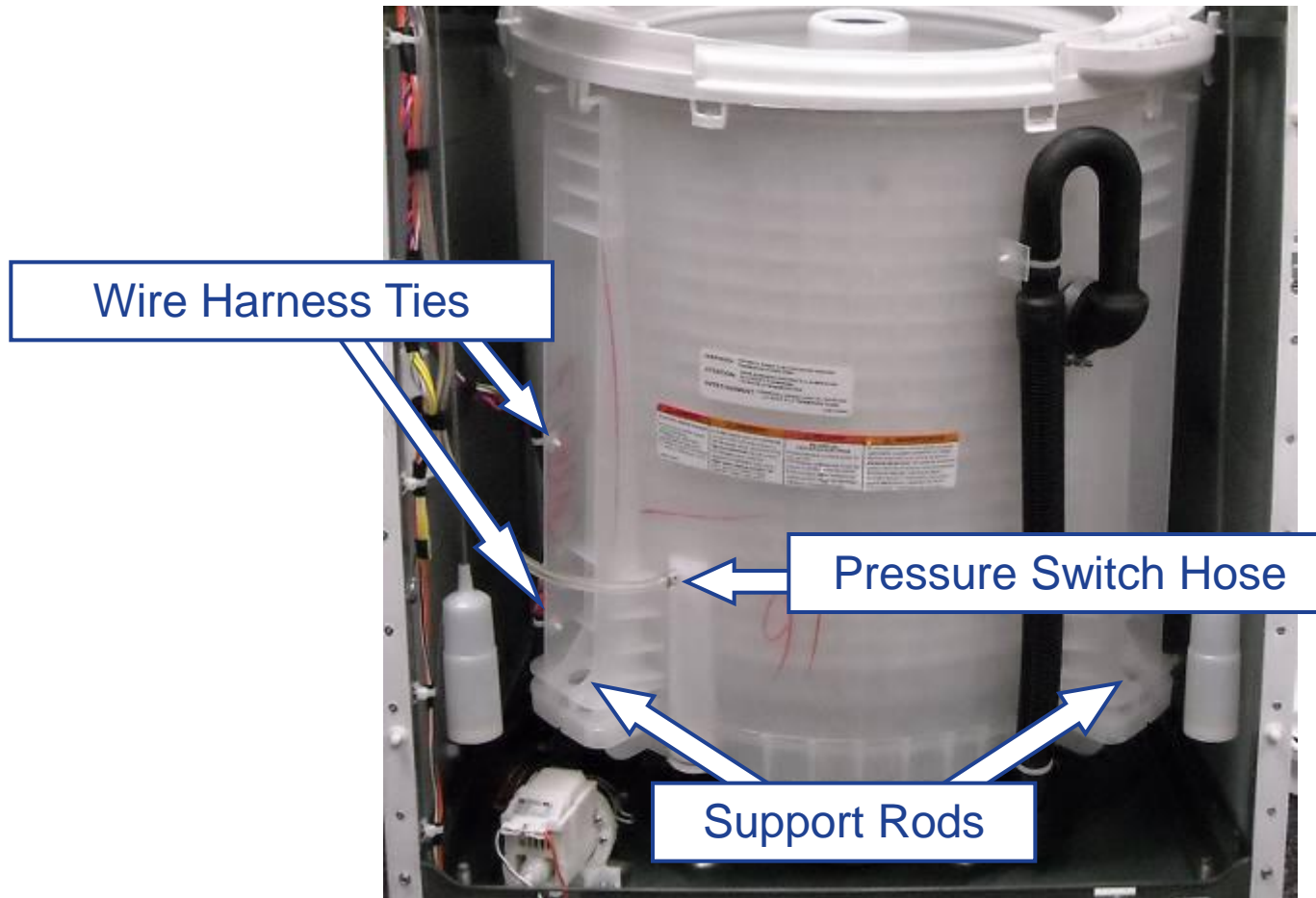
Washer Outer Tub

Before completely removing the outer tub; it is best to protect or remove the motor pulley/cooling fan. The blade is made of plastic and can be damaged if the weight of the tub is placed on the fan. To remove the pulley/fan – roll the belt off of the pulley and loosen the 1/8" hex set screw to remove the fan and pulley.



Washer Outer Tub

Disconnect the wire harness ties and pressure switch hose from the outer tub. Lift the outer tub and release the two front suspension rods. Move the outer tub to the rear of the machine at the bottom and tilt it forward to access the rear support rods.



Washer Outer Tub

Once the outer tub is tilted forward; reach in at the rear and push the rear support rods out of the tub slots to release. The tub assembly can now be rotated forward and out of the cabinet.



Inlet Water Valve

To replace the water inlet valve; the entire unit must be removed from its location. There is a 1/4" hex head screw that must be removed from the rear of the appliance.

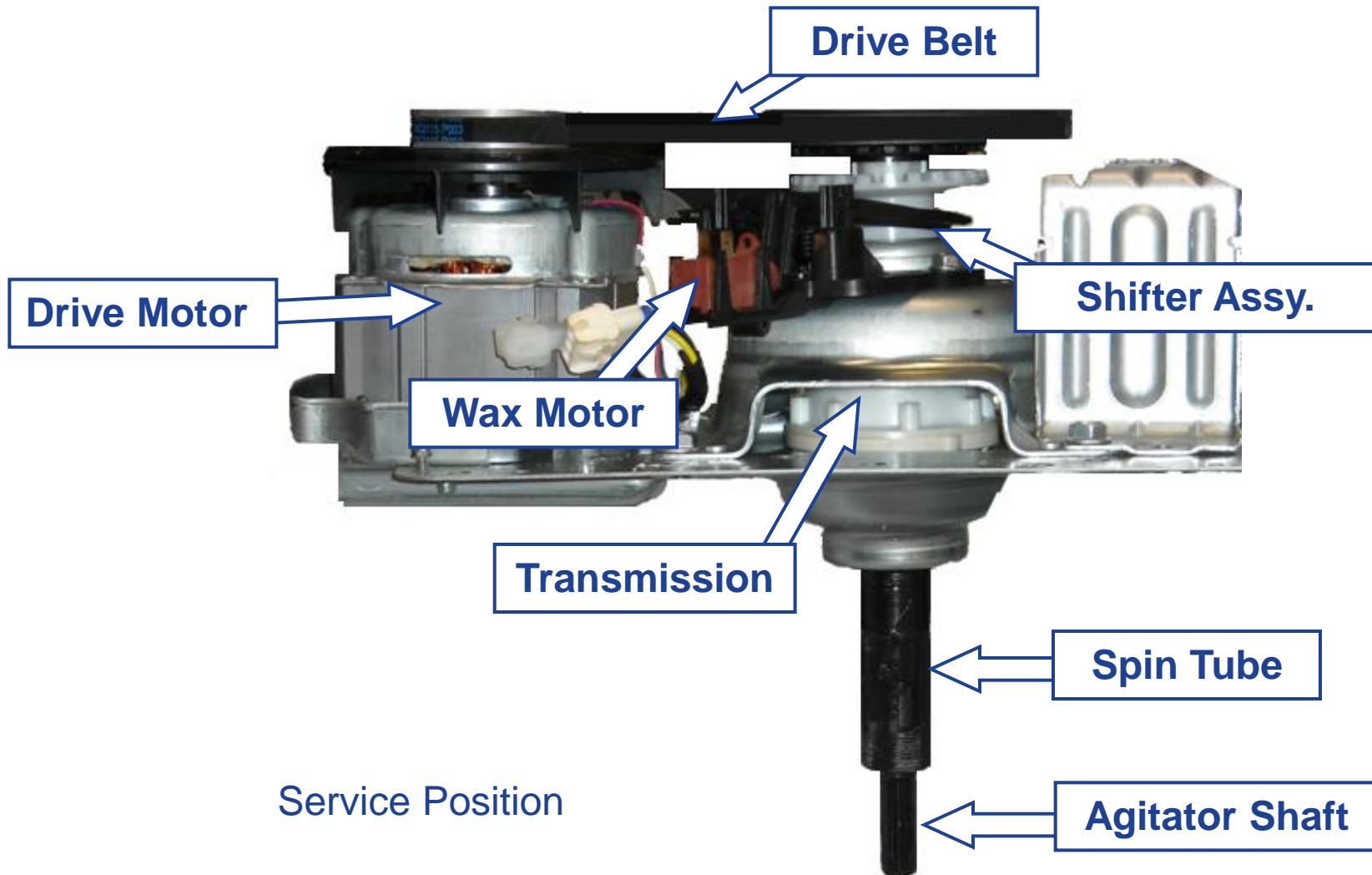


Inlet Water Valve

Once the inlet hoses and the mounting screw are removed the water valve can be pulled from the inside of the machine. To access the valve fully, remove the two damper rods at the front of the tub and lean the wash tub forward.

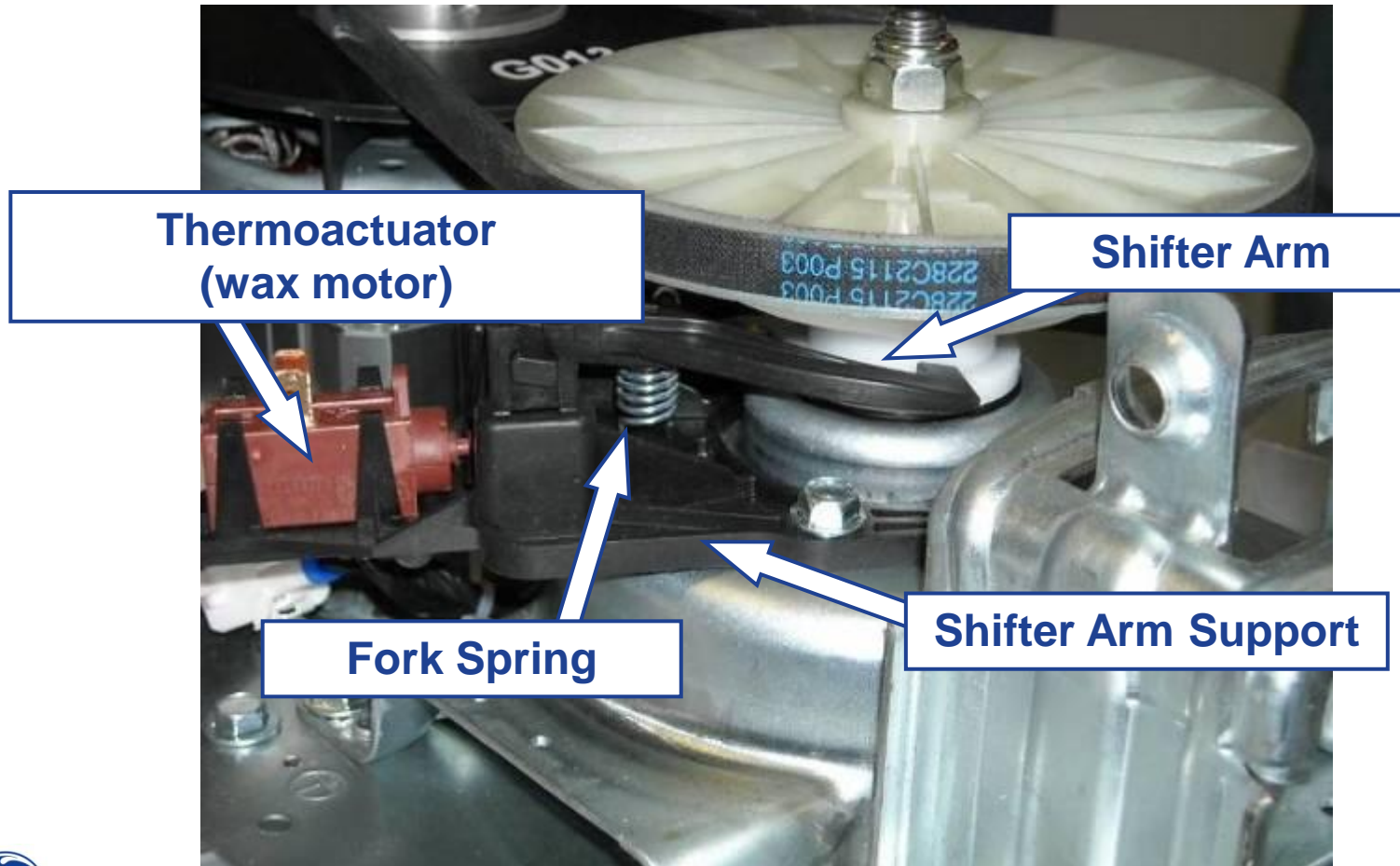


Washer Motor & Transmission



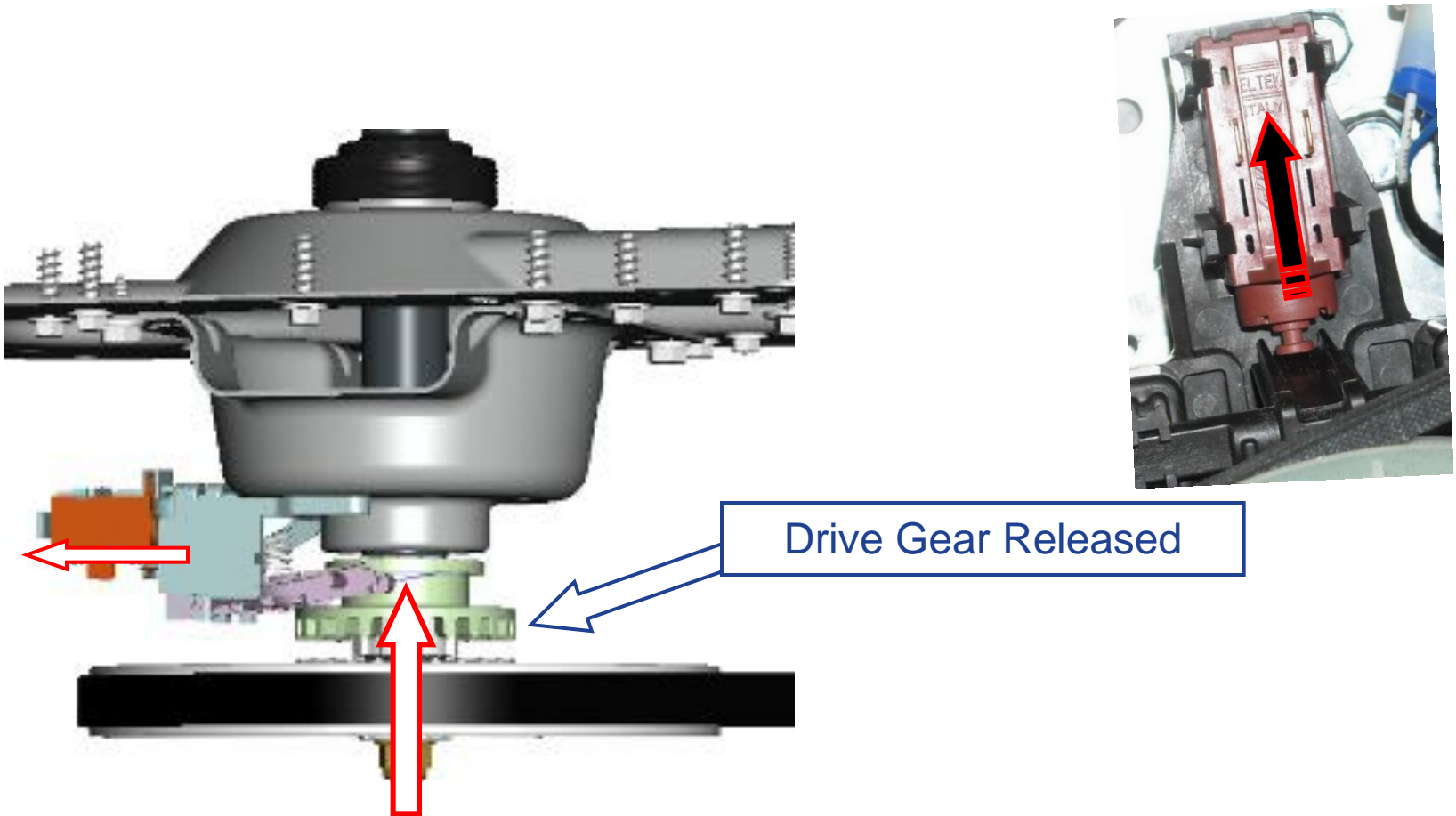
Washer Transmission - Shifter System

The transmission mode of operation is controlled by a Thermoactuator or commonly called a wax motor. The wax motor controls a spring loaded actuator fork which determines if the transmission will be in the agitate or spin mode of operation.



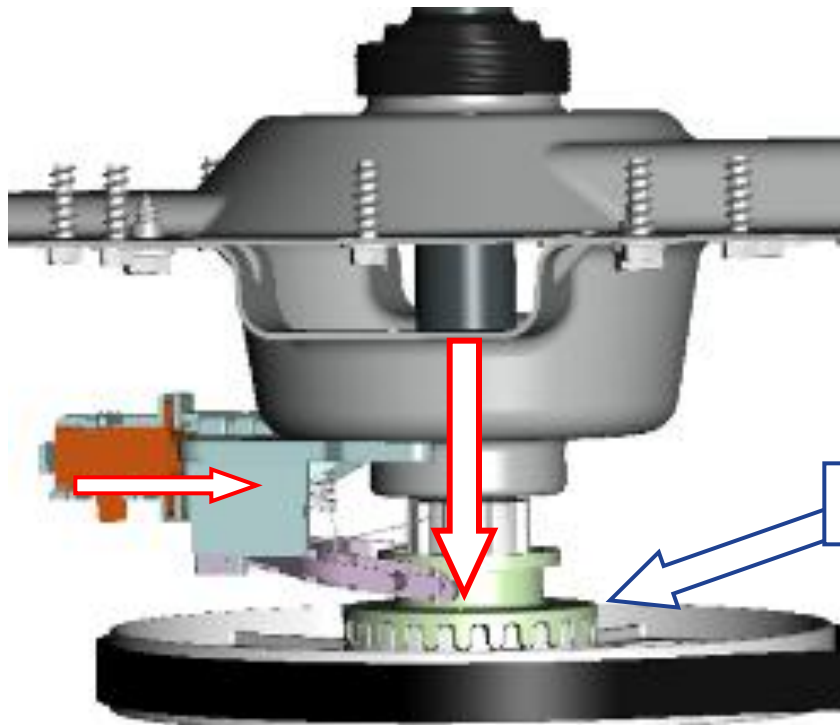
Washer Transmission - Shifter System

In the normal (deactivated) wash mode, the shifter fork is held in the upward position by the fork spring which releases the drive gear that controls power to the spin tube. In this mode all power is delivered to the transmission agitator shaft.

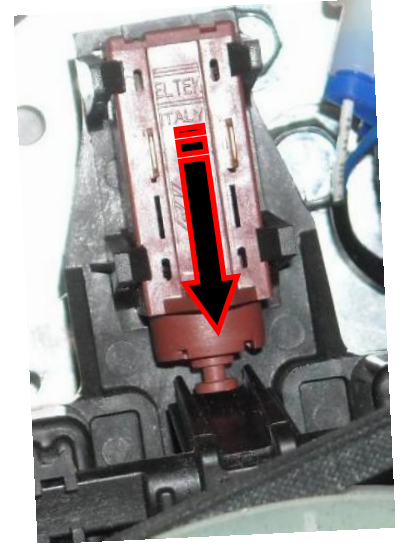


Washer Transmission - Shifter System

In the spin mode, the wax motor receives 120 vac from the control and the lid lock system. The expansion of the wax in the thermoactuator presses on the shifter fork which in turn engages the drive gear for the transmission spin tube.

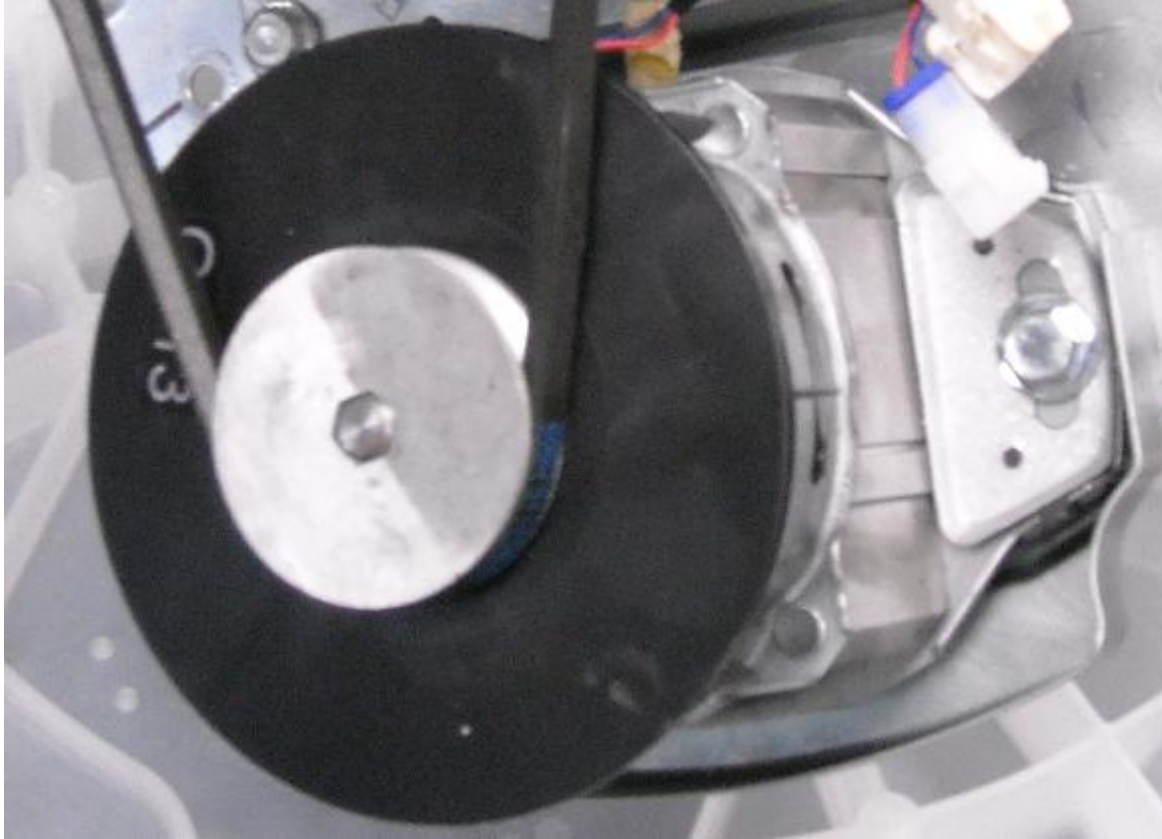


Drive Gear Engaged



Washer Motor & Transmission

The washer drive motor is a variable speed - reversing type motor with rpm feedback to the main board from an internal motor Hall sensor. The motor is attached to the transmission frame with two ½" hex bolts.



Washer Motor & Transmission

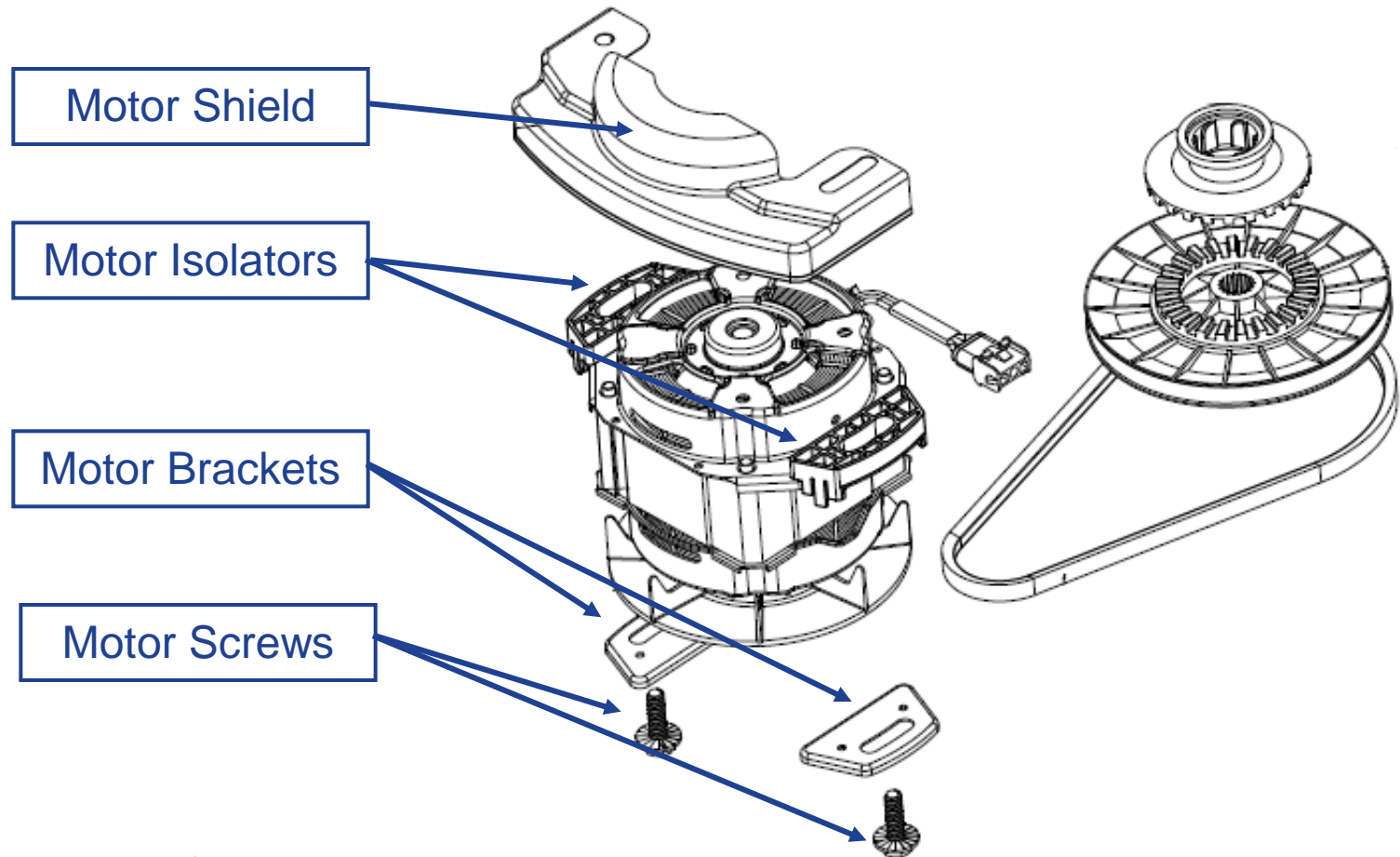
The motor brackets are slotted for easy belt removal and installation. Loosen the two ½” motor hex bolts to loosen the belt for service. The proper tension for the belt is ½” deflection when pressing on the belt between the two pulleys.

The pulley set screw is accessible after removing the belt. 1/8” hex wrench.



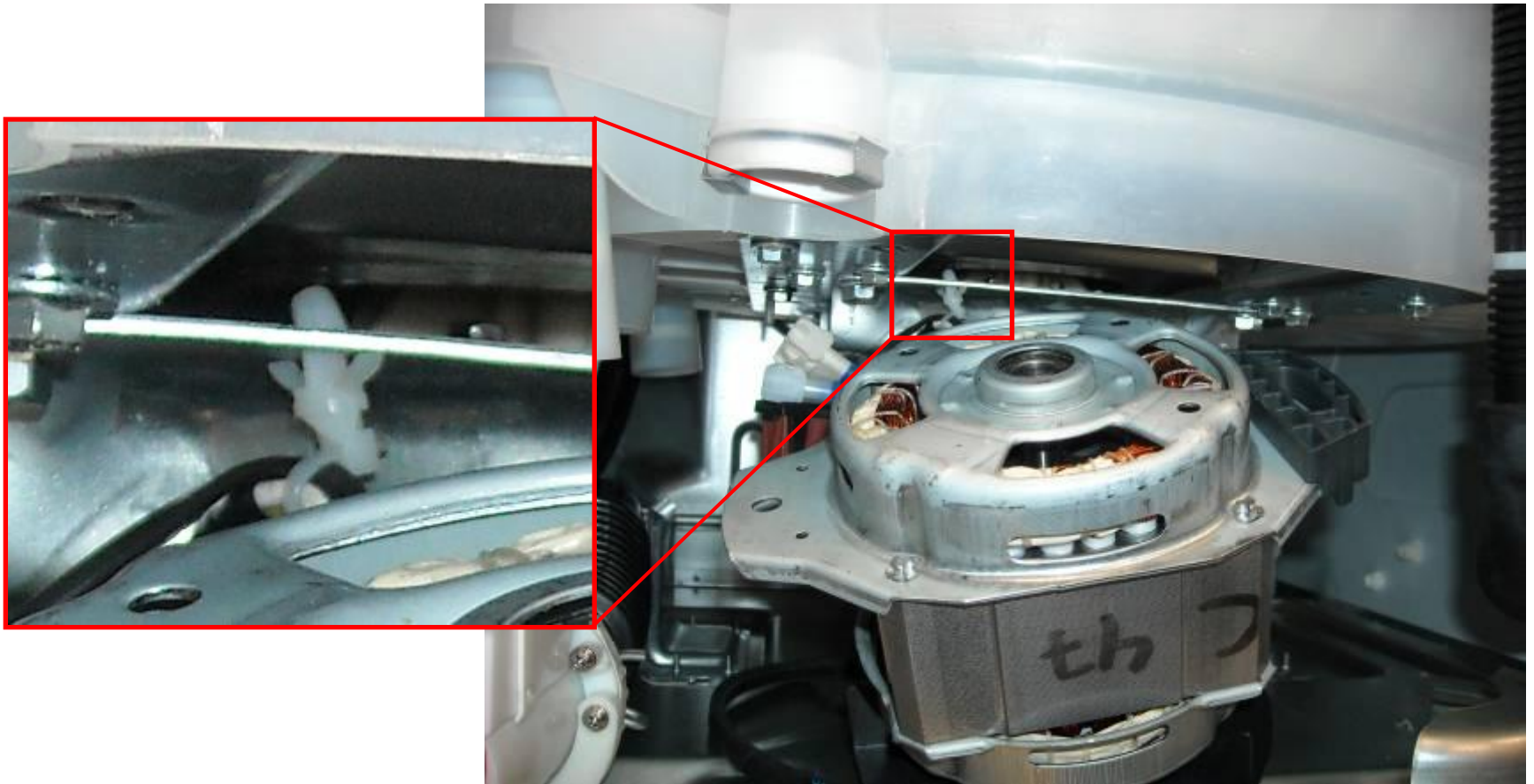
Washer Motor & Transmission

The motor can be replaced (with difficulty) without removing the washer tub if the installation requires it. To replace the motor; disconnect the washer harness plugs – loosen the motor mounting screws and remove the belt. Remove the two motor screws, motor, motor shield, mounting brackets and isolators.



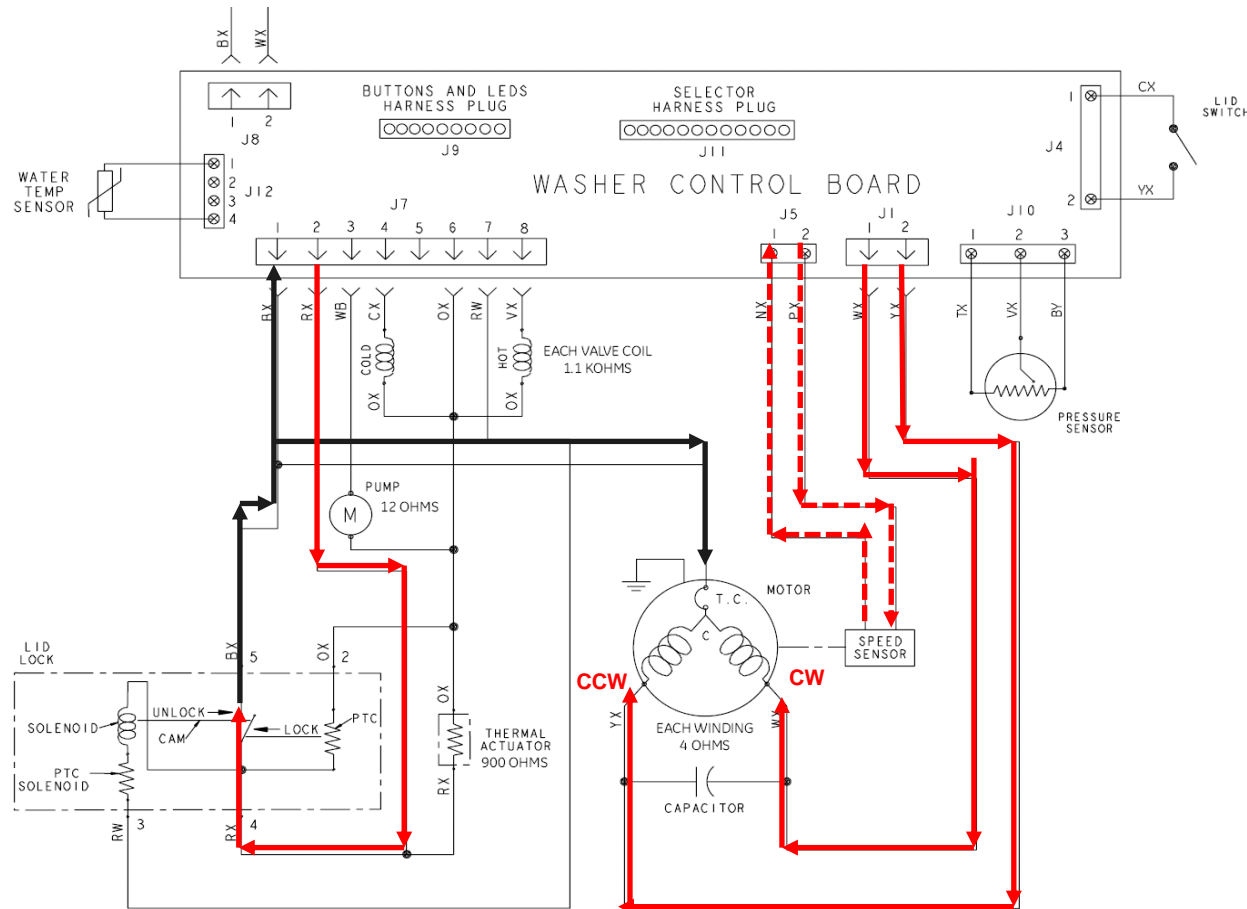
Washer Motor & Transmission

When the motor is released; disconnect or cut the wire tie holding the motor harness to the base frame. This wire tie comes with the replacement motor.



Washer Motor & Transmission

The washer motor is a variable speed reversible motor. 120 vac line power is supplied by the main board on pin J7-2 (Spin) or J7-1 (Wash) and neutral is switched for both CW & CCW windings from J1 pins 1&2. The motor has an internal Hall sensor which reports rpm information back to the control. Rpm feedback is a digital signal - 10 vdc on J5.



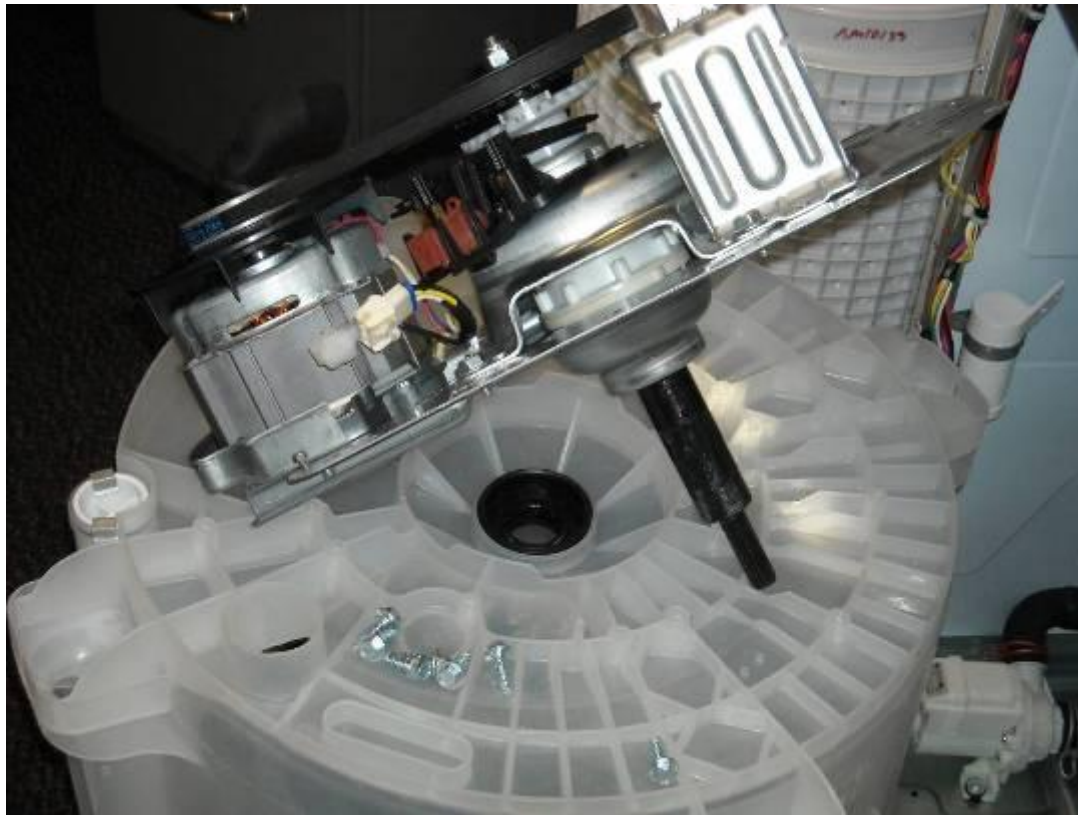
Washer Motor & Transmission

- The speed sensor in the motor operates on a 10 vdc signal from the control board. The control board reads the pulses from the motor to determine proper operation. This signal can not be read with a conventional multi-meter while operating. Besides diagnostic error code mode – disconnect the sensor harness from the control and read AC millivolts on the sensor harness while rotating the spin basket CCW.
- In wash mode, after the water valve turns off, it is normal for the motor to operate in a short stroke pattern before the regular agitation cycle begins. The motor will then run in both clockwise and counter clockwise rotation to provide 180 degrees of agitator arc.
- In the spin/rinse mode, the motor runs only in counter clockwise rotation. At spin startup it is normal for the motor to pulse a couple of times in each direction – this assures the shifter gear is set for spin. A clunking noise is normal during this startup routine.
- In spin the control will perform two ramp ups in speed to 290 rpm and then turn the motor off until 0 rpm is reached. The control will then energize the motor for full spin.

Final Spin speed is 670 rpm for 27" and 710 rpm for 24"

Washer Motor & Transmission

To replace the transmission; remove the wash tub assembly from the cabinet as previously described. Remove the hex bolts that hold the transmission assembly to the bottom of the tub. (16 bolts for 27" – 14 bolts for 24") Transfer the motor and belt to the new assembly and reverse the procedure. A new tub seal is supplied with the new transmission assembly and presses into the bottom of the tub.



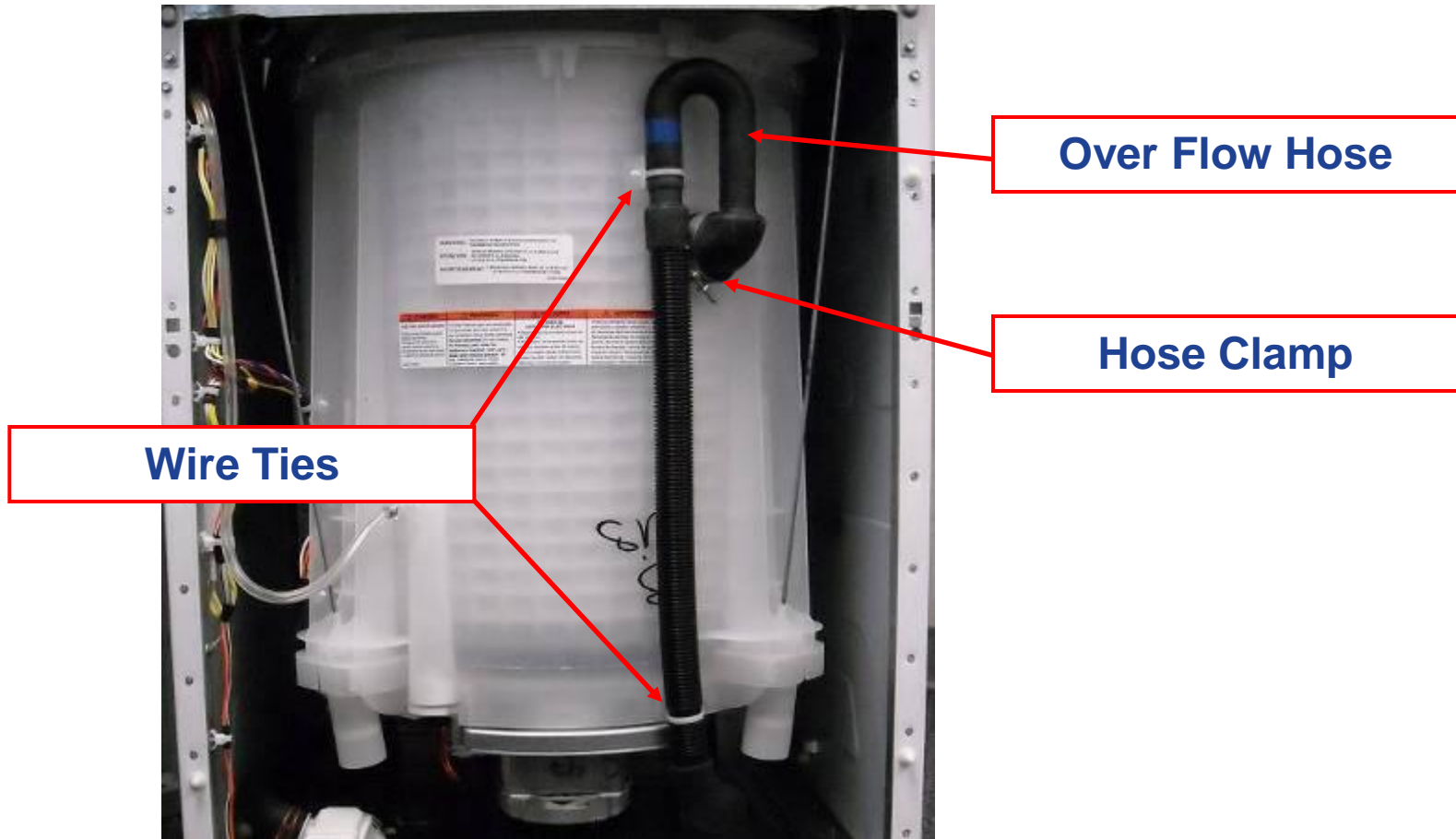
Outer Tub

The pressure dome on the right front of the tub has a clean out port on the bottom of the tub. Remove the two spring steel clamps to clean out the dome. Clean the O-ring and cap before reassembly and check for leaks after the repair.



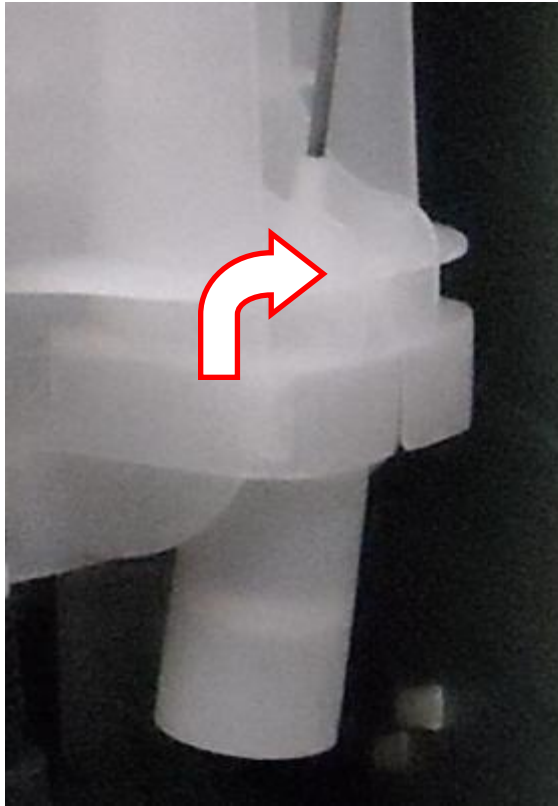
Outer Tub

The overflow hose is clamped on the left front of the tub and incorporates a high loop to minimize suds leak. If it should require replacement or exchange to a new tub the wire ties can be released and reused.



Outer Tub

To replace the tub support shocks; lift up on the tub and pull the support rod out of the slot in the tub. Lift the rod through the support cup and rotate the rod to align with the slot in the cup to remove.



Outer Tub

The outer tub cover unsnaps from the top of the tub. The seal is contained in the tub cover. When replacing; make sure the bleach dispenser is on the right front and is aligned by looking at the alignment clip on the cover and the tub.



Drain Pump

The drain pump is mounted in the bottom left front of the unit with two ¼" screws. The outlet hose from the bottom of the tub uses a 5/16" hex pipe clamp at the tub and spring clamps at the input and output of the pump.



Diagnostics

The washer control will allow for diagnostics to check for retained error codes and operate individual components in the machine. Errors are displayed either to the consumer (critical error) or to the service tech in diagnostics mode by the led status display. Not to worry, no counting flashing lights on this machine.



Diagnostics - Critical Failure

Two errors are deemed critical and will disable the machine until it is serviced. Other errors can self correct and the machine will continue to operate. The critical errors occur with the safety lid lock or lid switch and will be displayed to the consumer. If the control sees correct lid feedback the error will be cancelled.


CRITICAL FAIL MODE TABLE


NOTE:
WHEN ONE OR BOTH CRITICAL FAILURES OCCUR, THE WASHER IS DISABLED.
IT IS NECESSARY TO ENTER SERVICE MODE TO REESTABLISH THE WASHER.


- * FLASHING
- 1 LED ON
- 0 LED OFF


LED STATUS	LID SWITCH FAILURE	LID LOCK BROKEN	
	1	1	FS ON
	*	*	WASH
	0	0	RINSE
	0	*	SPIN
	*	0	LID LOCKED


STATUS

 ON

 WASH

 RINSE

 SPIN

 LID LOCKED

Diagnostics - Critical Failure

Lid switch failure is triggered by three consecutive wash/spin cycles where the control does not receive feedback from the lid switch.

Lid lock failure is triggered by a single spin cycle where the control does not receive feedback from the lid lock. The consumer can attempt to restart the machine but, if the failure still exists the machine will not run.

CRITICAL FAIL MODE TABLE

NOTE:

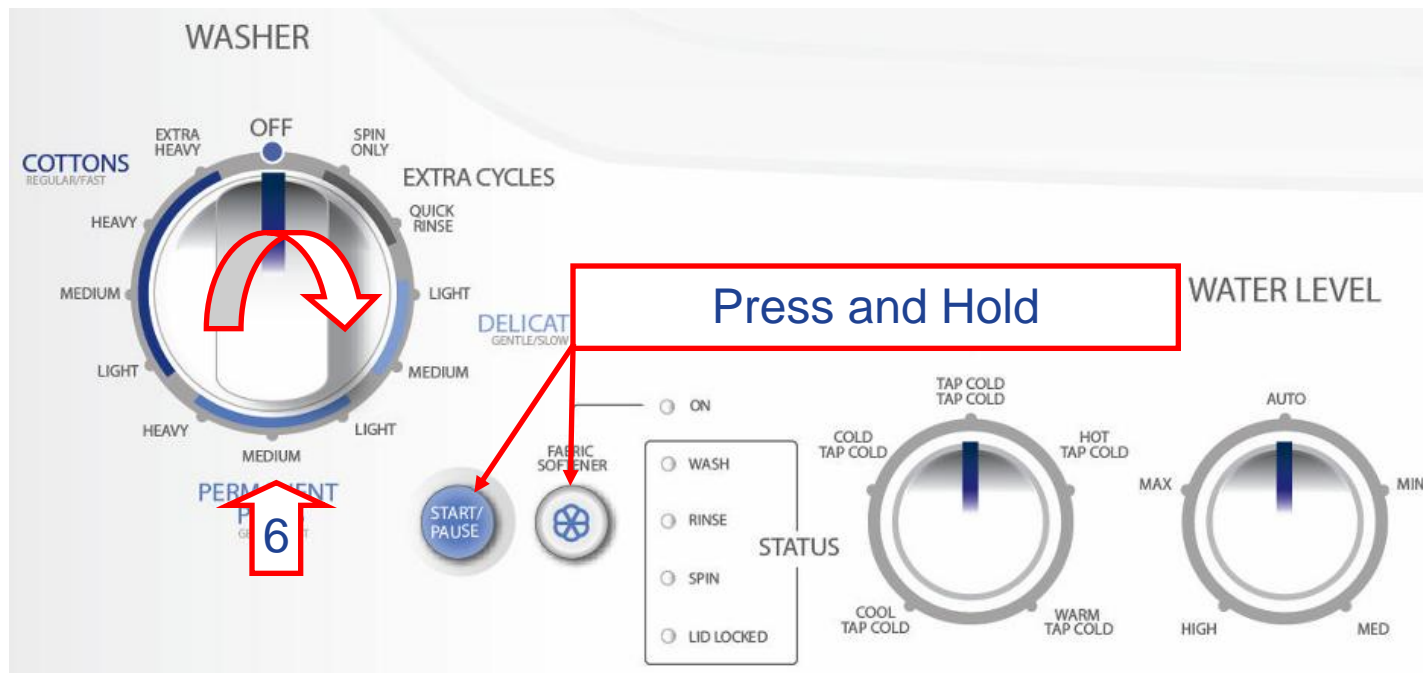
WHEN ONE OR BOTH CRITICAL FAILURES OCCUR, THE WASHER IS DISABLED.
IT IS NECESSARY TO ENTER SERVICE MODE TO REESTABLISH THE WASHER.

- * FLASHING
- 1 LED ON
- 0 LED OFF

	LID SWITCH FAILURE	LID LOCK BROKEN	
LED STATUS	1	1	FS ON
	*	*	WASH
	0	0	RINSE
	0	*	SPIN
	*	0	LID LOCKED

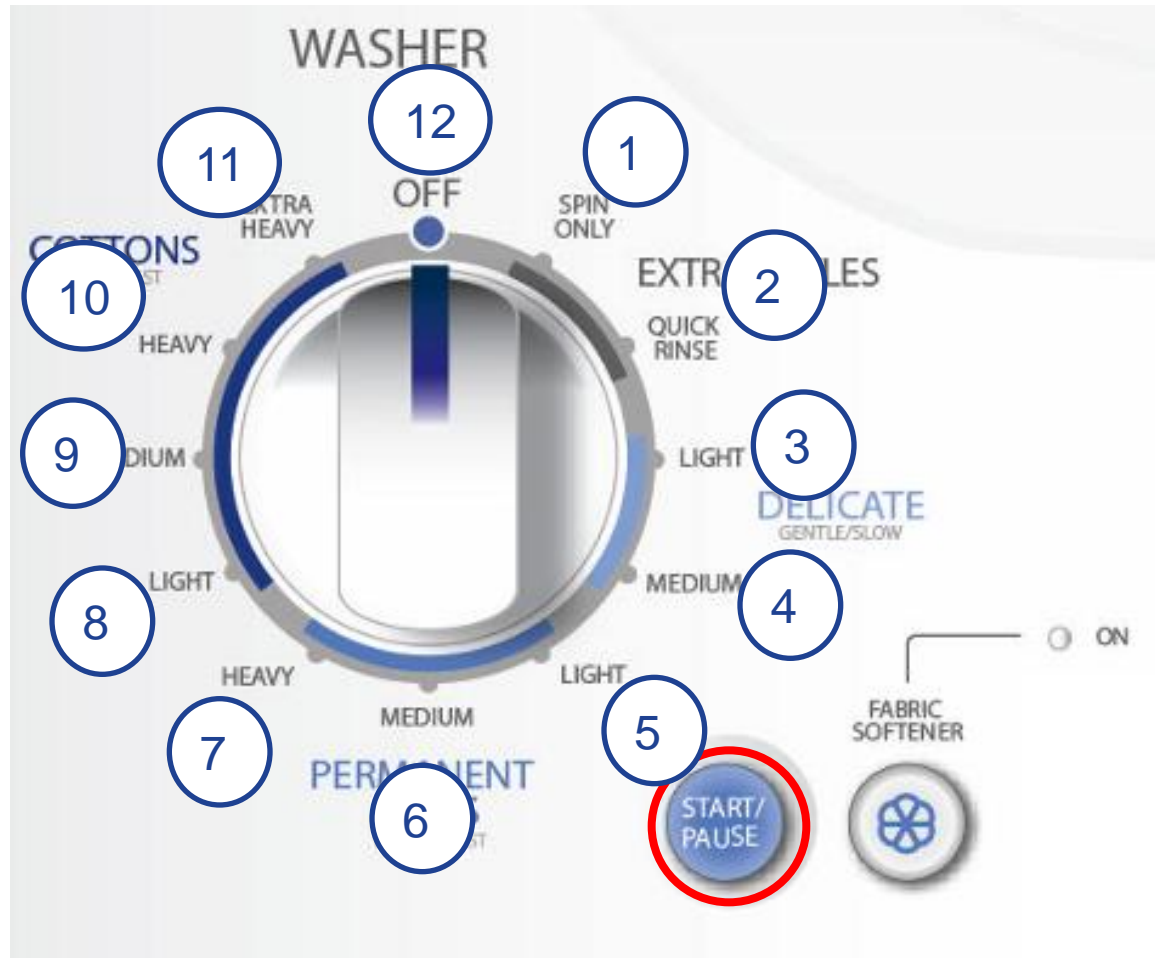
Diagnostics – Field Service Mode

To enter field service mode; press the “START” and “FABRIC SOFTENER” buttons at the same time and hold them while rotating the control knob from 12 to position 6. Think of this as a standard clock face, each knob position during diagnostic correlates to a number that aligns to a clock face. Once the washer control knob is at 6 o’clock keep holding the two buttons for three seconds and then release them.

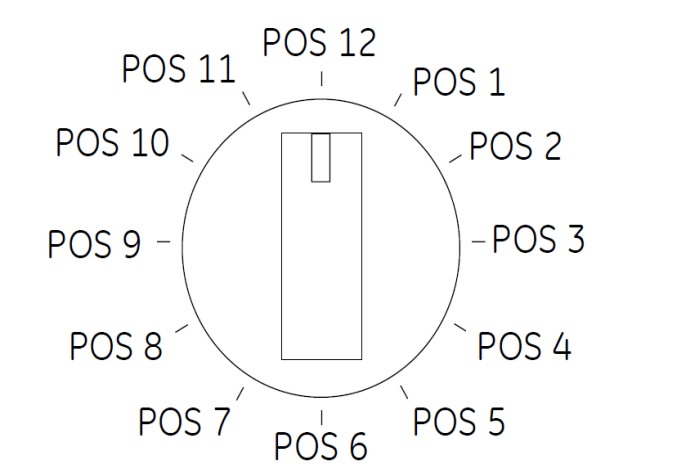


Diagnostics – Field Service Mode

Once you are in field service mode; use the washer control knob to advance through the different modes of operation and extract error codes from the control memory. After selecting a diagnostic function you may have to press the start/pause switch to activate that mode.



Diagnostics – Field Service Mode



SERVICE FUNCTION TABLE

CYCLE SELECTION POSITIONS

S = Press Start Switch to Activate

NOT USED	FABRIC SOFTENER BUTTON	ERROR CODES S	CLEAR CODES	MODEL CODE 27"	MODEL CODE 24"	ENTER / EXIT SERVICE MODE	SPIN AND SHIFTER SYSTEM S	DRAIN PUMP S	AGITATE S	HOT WATER VALVE S	COLD WATER VALVE S	START / PAUSE BUTTON S	
1	2	3	4	5	6	7	8	9	10	11	12	LED	
0	0	SEE ERROR CODES TABLE	B	0	0	*	0	0	0	0	0	0	FS ON
0	0		B	0	0	*	0	0	A	0	0	0	WASH
0	0		B	0	0	*	1	1	1	1	0	0	RINSE
0	0		B	0	1	*	1	1	0	0	1	1	SPIN
0	1		B	1	0	*	1	0	1	0	1	0	LID LOCKED

- * FLASHING
- 1 LED ON
- 0 LED OFF
- A LED ON IF THE SHIFTER IS IN AGITATE POSITION
LED OFF IF THE SHIFTER IS IN SPIN POSITION
- B LED BLINKS DURING CLEARING

Diagnostics – Field Service Mode

Diagnostic mode allows for operation of individual components; knob positions 7 through 11 select the component for testing and pressing the start button activates the component for testing.

To stop any individual test; rotate the washer knob to another position.

Position 7 (spin and shifter) you need to wait for the lid lock light to turn off before any other tests can be performed.

Position 2 & 12 test the individual push button for operation.

LED STATUS					KNOB POS	
0	0	0	0	0	1	NOT USED
1	0	0	0	0	2	FABRIC SOFTENER BUTTON
SEE ERROR CODES TABLE					3	ERROR CODES (S)
B	B	B	B	B	4	CLEAR CODES
1	0	0	0	0	5	MODEL CODE 27"
0	1	0	0	0		MODEL CODE 24"
*	*	*	*	*	6	ENTER / EXIT SERVICE MODE
1	1	1	0	0	7	SPIN AND SHIFTER SYSTEM (S)
0	1	1	0	0	8	DRAIN PUMP (S)
1	0	1	A	0	9	AGITATE (S)
0	0	1	0	0	10	HOT WATER VALVE (S)
1	1	0	0	0	11	COLD WATER VALVE (S)
0	1	0	0	0	12	START / PAUSE BUTTON (S)
LID LOCKED					LED	
					FS ON	
					WASH	
					RINSE	
					SPIN	

(S) = Press Start Switch to Activate

Diagnostics – Error Codes

Once in diagnostic mode the error codes can be obtained in knob position 3.

The control is capable of storing multiple error codes.

To advance through the error codes in event there are more than one, press the start button to scroll through the codes in memory.

ERROR CODES TABLE

KNOB POS	ERROR CODES														LED
	NO ERRORS EXIST	LOOSE BELT	BLOCKED MOTOR	FILLING TIMEOUT	OVERFLOW	PUMP TIMEOUT	THERMISTOR	NO SPEED	LID LOCK NOT OPEN / CLOSE	LID SWITCH	LID LOCK BROKEN	REPLACE CONTROL BOARD	REPLACE CONTROL BOARD	REPLACE CONTROL BOARD	
LED STATUS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	FS ON
	0	0	0	0	1	0	0	0	0	1	1	1	1	1	WASH
	0	0	0	0	1	1	1	1	1	0	0	0	1	1	RINSE
	0	0	1	1	0	0	0	1	1	0	1	1	0	1	SPIN
	0	1	0	1	1	0	1	0	1	0	0	1	0	1	LID LOCKED

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST
1 LED ON
0 LED OFF

Diagnostics – Error Codes

Filling Timeout

This error code is triggered by feedback from the pressure switch.

If the control does not receive a change of pressure from the pressure switch within 3 minutes, this code will be entered into memory.

The washer will enter a pause state and the user can attempt to restart the cycle.

This code will not be displayed to the consumer.

This can be caused by water valves turned off, pressure switch failure, siphoning or problems with the pressure switch wiring – hose or tub dome.

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST
1 LED ON
0 LED OFF

LED STATUS	KNOB POS				
		3			LED
1	1	1	1	1	FS ON
0	0	0	0	0	WASH
0	0	0	0	1	RINSE
0	0	1	1	1	SPIN
0	1	0	1	1	LID LOCKED

NO ERRORS EXIST	LOOSE BELT	BLOCKED MOTOR	FILLING TIMEOUT	OVERFLOW	PUMP TIMEOUT	THERMISTOR	NO SPEED	LID LOCK NOT OPEN / CLOSE	LID SWITCH	LID LOCK BROKEN	REPLACE CONTROL BOARD	REPLACE CONTROL BOARD	REPLACE CONTROL BOARD
1	1	1	1	1	1	1	1	1	1	1	1	1	1
0	0	0	0	1	0	0	0	1	1	1	1	1	1
0	0	0	0	1	1	1	1	1	0	0	0	1	1
0	0	1	1	0	0	0	1	1	0	1	1	0	1
0	1	0	1	1	0	1	0	1	0	0	1	0	1

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST
 1 LED ON
 0 LED OFF

Diagnostics – Error Codes

Pump Timeout

This failure happens when the timeout is reached for the drain pump time to reach the minimum water level, after 4.25 minutes of pumping and the water level minimum is not reached. After a maximum of 3 attempts to resume the cycle, the control goes to Idle State, the control stores this code in memory.

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST
1 LED ON
0 LED OFF

ERROR CODES TABLE											
KNOB POS											
LED STATUS	1	1	1	1	1	1	1	1	1	1	NO ERRORS EXIST
	0	0	0	0	1	0	0	0	0	0	LOOSE BELT
	0	0	0	0	1	1	0	0	0	0	BLOCKED MOTOR
	0	0	0	0	1	1	1	0	0	0	FILLING TIMEOUT
	0	0	0	1	1	1	1	1	1	1	OVERFLOW
	0	0	0	1	1	1	1	1	1	0	PUMP TIMEOUT
	0	0	1	1	1	1	1	1	1	1	THERMISTOR
	0	0	1	1	1	1	1	1	1	0	NO SPEED
3				0	1	1	1	1	1	1	LID LOCK NOT OPEN / CLOSE
				1	1	1	1	1	1	0	LID SWITCH
				0	0	1	1	1	1	0	LID LOCK BROKEN
				0	1	0	1	1	1	1	REPLACE CONTROL BOARD
				1	1	0	1	1	1	0	REPLACE CONTROL BOARD
				0	0	1	1	1	1	1	REPLACE CONTROL BOARD
				1	1	1	1	1	1	1	
				LID LOCKED							
				SPIN							
				RINSE							
				WASH							
				FS ON							

Diagnostics – Error Codes

Thermistor

This failure happens when the control can not detect the ATC thermistor.

The ATC is disabled and this failure code is saved on memory. This fault is not displayed to user and the defaults temperatures for filling are,

- Tap cold - cold valve only
- Cold - cold valve only
- Cool - cold and hot valve
- Warm - cold and hot valve
- Hot - hot valve only

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST
1 LED ON
0 LED OFF

ERROR CODES TABLE			
LED STATUS	KNOB POS		
1	1	1	NO ERRORS EXIST
0	0	0	LOOSE BELT
0	0	1	BLOCKED MOTOR
0	0	0	FILLING TIMEOUT
0	1	0	OVERFLOW
0	1	1	PUMP TIMEOUT
0	1	1	THERMISTOR
0	0	1	NO SPEED
0	1	1	LID LOCK NOT OPEN / CLOSE
0	0	1	LID SWITCH
0	1	1	LID LOCK BROKEN
1	1	1	REPLACE CONTROL BOARD
0	0	1	REPLACE CONTROL BOARD
1	1	1	REPLACE CONTROL BOARD
LID LOCKED	LED		
SPIN	WASH		
RINSE	FS ON		

Diagnostics – Error Codes

No Speed

This occurs when there is no motor speed sensor feedback. To test it, put the washer in Drain & Spin and wait until the motor starts up. If the motor speed sensor is not operating after 3 seconds, the washer will go to Pause. This error could be caused by the harness, motor speed sensor, or board.

On this failure, the control will save the failure in memory and continue working.

ERROR CODES TABLE

LED STATUS				LED	ERROR CODES
0	1	2	3	4	
0	1	1	1	1	NO ERRORS EXIST
0	1	0	1	1	LOOSE BELT
0	0	1	1	1	BLOCKED MOTOR
0	0	0	1	1	FILLING TIMEOUT
0	1	1	1	1	OVERFLOW
0	0	1	0	1	PUMP TIMEOUT
0	0	1	1	0	THERMISTOR
0	1	1	1	1	NO SPEED
1	1	1	1	1	LID LOCK NOT OPEN / CLOSE
0	0	1	1	1	LID SWITCH
0	0	1	1	1	LID LOCK BROKEN
1	1	1	1	1	REPLACE CONTROL BOARD
0	0	1	1	1	REPLACE CONTROL BOARD
1	1	1	1	1	REPLACE CONTROL BOARD
LID LOCKED					
SPIN					
RINSE					
WASH					
FS ON					

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST
1 LED ON
0 LED OFF

Diagnostics – Error Codes

Lid Lock Not Open/Close

Lid Lock (Service and Display to user)
This failure occurs when the lid can not be locked or unlocked. The control attempts 5 times to release or lock the lid , if the lid is not released, the control goes to pause state and will wait 4.25 minutes to try again to release or lock the lid, if the lid continues without release or lock, the control attempts one more time.

If the lid will still not release or lock, the control goes to failure state.

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST
1 LED ON
0 LED OFF

ERROR CODES TABLE			
KNOB POS			
LED STATUS	1	1	NO ERRORS EXIST
	1	1	LOOSE BELT
	1	1	BLOCKED MOTOR
	1	1	FILLING TIMEOUT
	1	1	OVERFLOW
	1	1	PUMP TIMEOUT
	1	1	THERMISTOR
	1	1	NO SPEED
	1	1	LID LOCK NOT OPEN / CLOSE
	1	1	LID SWITCH
LED STATUS	0	0	LID LOCK BROKEN
	0	0	REPLACE CONTROL BOARD
	0	0	REPLACE CONTROL BOARD
	0	0	REPLACE CONTROL BOARD
	0	0	
	0	0	
	0	0	
	0	0	
	0	0	
	0	0	
LED			
FS ON			
WASH			
RINSE			
SPIN			
LID LOCKED			

Control Board Failure

Main Board must be replaced.

The triacs that control the motor windings have failed.

KNOB POS	NO ERRORS EXIST														LED
	LOOSE BELT														
	BLOCKED MOTOR														
	FILLING TIMEOUT														
	OVERFLOW														
	PUMP TIMEOUT														
	THERMISTOR														
	NO SPEED														
	LID LOCK NOT OPEN / CLOSE														
	LID SWITCH														
	LID LOCK BROKEN														
	REPLACE CONTROL BOARD														
REPLACE CONTROL BOARD															
REPLACE CONTROL BOARD															
LED STATUS	1	1	1	1	1	1	1	1	1	1	1	1	1	1	FS ON
	0	0	0	0	1	0	0	0	1	1	1	1	1	1	WASH
	0	0	0	0	1	1	1	1	0	0	1	1	1	1	RINSE
	0	0	1	1	0	0	0	1	1	0	1	0	1	1	SPIN
	0	1	0	1	1	0	1	0	1	0	1	0	1	1	LID LOCKED

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST

1 LED ON

0 LED OFF

Control Board Failure

Main Board must be replaced.

This error occurs if the main control detects that the motor controller is not activating the lid lock circuit.

	NO ERRORS EXIST	LOOSE BELT	BLOCKED MOTOR	FILLING TIMEOUT	OVERFLOW	PUMP TIMEOUT	THERMISTOR	NO SPEED	LID LOCK NOT OPEN / CLOSE	LID SWITCH	LID LOCK BROKEN	REPLACE CONTROL BOARD	REPLACE CONTROL BOARD	REPLACE CONTROL BOARD	
KNOB POS	3														LED
	1	1	1	1	1	1	1	1	1	1	1	1	1	1	FS ON
	0	0	0	0	1	0	0	0	1	1	1	1	1	1	WASH
LED STATUS	0	0	0	0	1	1	1	1	1	0	0	0	1	1	RINSE
	0	0	1	1	0	0	0	1	1	0	1	1	0	1	SPIN
	0	1	0	1	1	0	1	0	1	0	0	1	0	1	LID LOCKED

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST
 1 LED ON
 0 LED OFF

Control Board Failure

Main Board must be replaced.

This error occurs if the washer tries to agitate with less than the minimum allowed water level, which would indicate a failed board.

LEDS	NO ERRORS EXIST	LOOSE BELT	BLOCKED MOTOR	FILLING TIMEOUT	OVERFLOW	PUMP TIMEOUT	THERMISTOR	NO SPEED	LID LOCK NOT OPEN / CLOSE	LID SWITCH	LID LOCK BROKEN	REPLACE CONTROL BOARD	REPLACE CONTROL BOARD	REPLACE CONTROL BOARD
KNOB POS	3													
LED STATUS	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	0	0	0	0	1	0	0	0	1	1	1	1	1	1
	0	0	0	0	1	1	1	1	1	0	0	0	1	1
	0	0	1	1	0	0	0	1	1	0	1	1	0	1
LED STATUS	0	1	0	1	1	0	1	0	1	0	0	1	0	1
	0	0	1	1	0	0	1	1	1	0	1	1	0	1
	0	0	1	1	0	0	1	1	1	0	1	1	0	1
	0	1	0	1	1	0	1	0	1	0	0	1	0	1
LED	FS ON	WASH	RINSE	SPIN	LID LOCKED									

* PRESS START BUTTON TO KNOW IF SEVERAL ERRORS EXIST
 1 LED ON
 0 LED OFF

Diagnostics – Error Codes

To clear error codes from the control memory; rotate the washer knob to position 4 and press and hold the start switch. The indicators will flash during this process. Release the start switch after 3 seconds.

Press and hold the start and fabric softener switches while rotating the knob to position 6 to exit diagnostic mode.

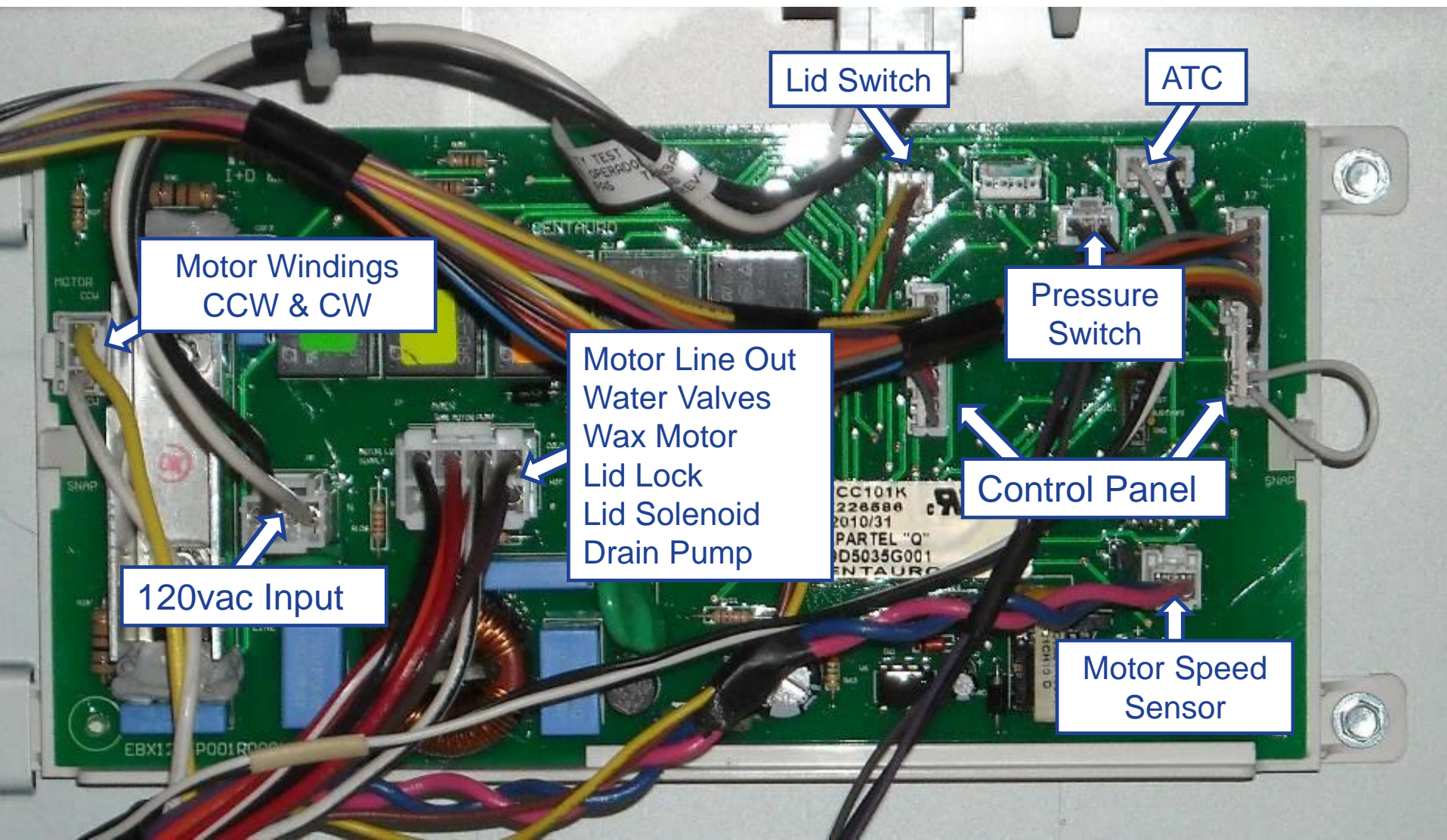
Diagnostic mode will exit automatically after 15 minutes or a upon a power reset.



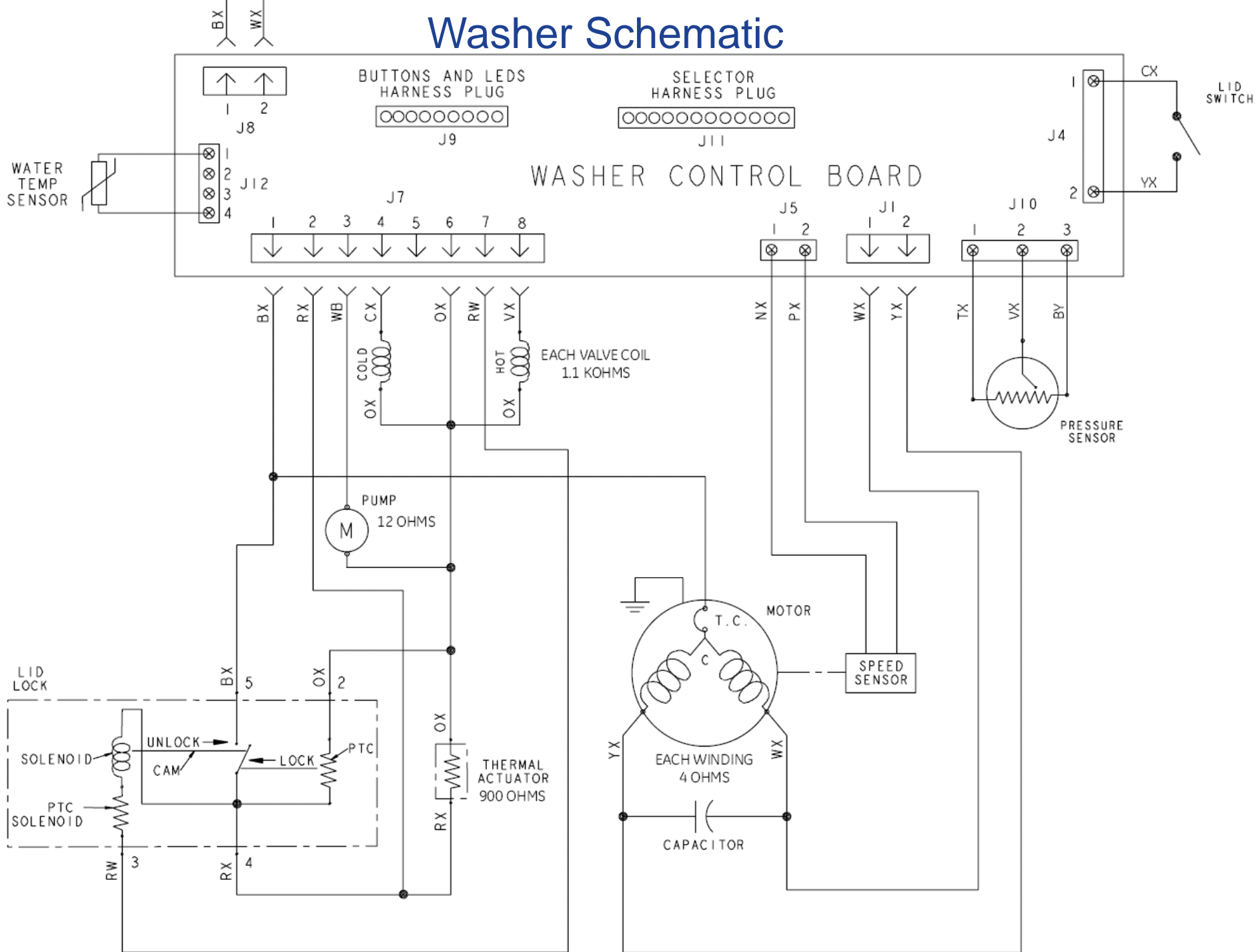
* FLASHING
1 LED ON
0 LED OFF
A LED ON IF THE SHIFTER IS IN AGITATE POSITION
LED OFF IF THE SHIFTER IS IN SPIN POSITION
B LED BLINKS DURING CLEARING

SERVICE FUNCTION TABLE											
LEAD STATUS					LEAD POS						
0	0	0	0	0	1	NOT USED					
0	0	0	0	0	2	FABRIC SOFTENER BUTTON					
B	B	B	B	B	3	ERROR CODES (S)					
B	B	B	B	B	4	CLEAR CODES					
1	0	0	0	0	5	MODEL CODE 27"					
0	1	0	0	0	5	MODEL CODE 24"					
*	*	*	*	*	6	ENTER / EXIT SERVICE MODE					
1	1	1	0	0	7	SPIN AND SHIFTER SYSTEM (S)					
0	1	1	0	0	8	DRAIN PUMP (S)					
1	0	1	A	0	9	AGITATE (S)					
0	0	1	0	0	10	HOT WATER VALVE (S)					
1	1	0	0	0	11	COLD WATER VALVE (S)					
0	1	0	0	0	12	START / PAUSE BUTTON (S)					
LID LOCKED	SPIN	RINSE	WASH	FS ON	LED						

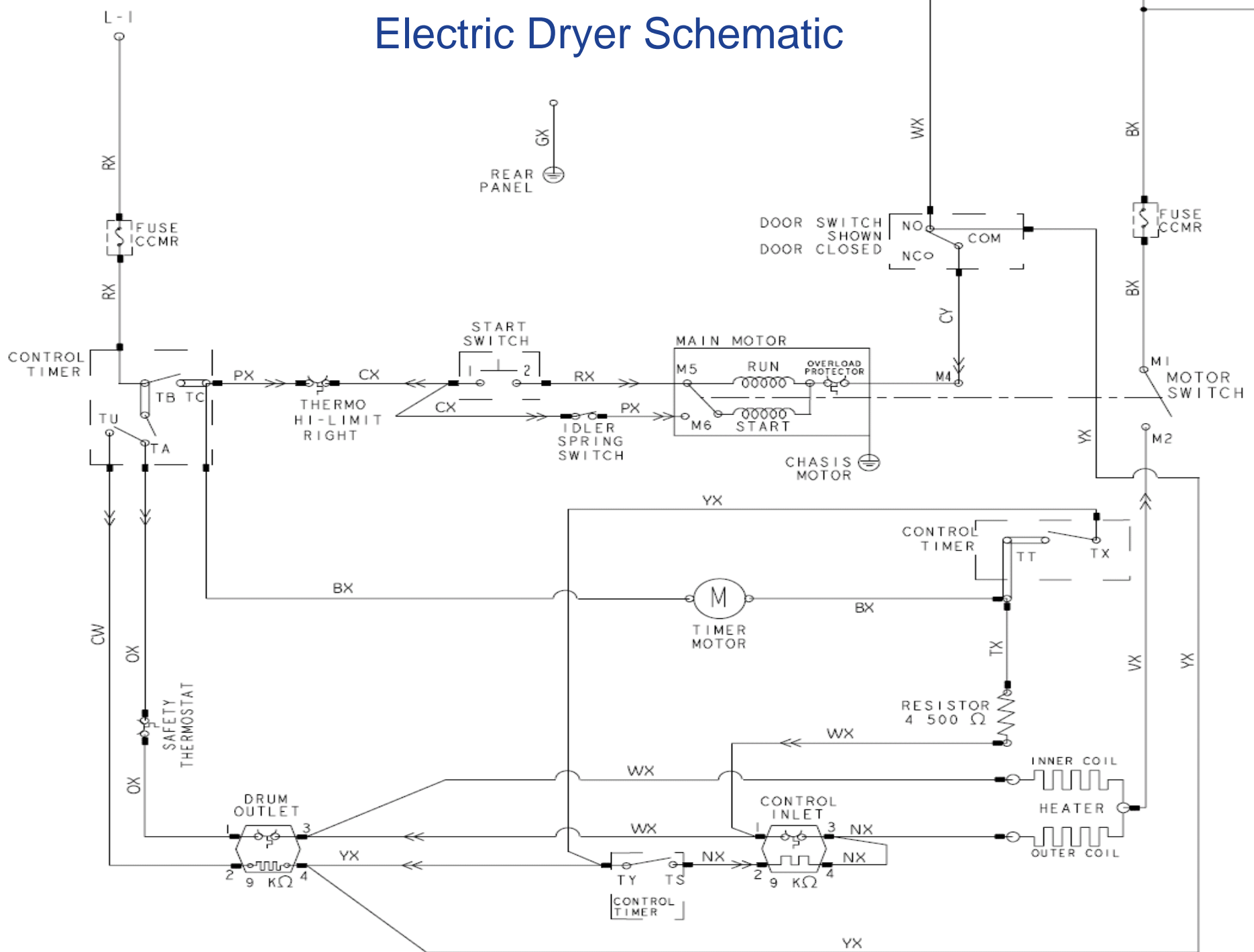
Washer Main Control Board



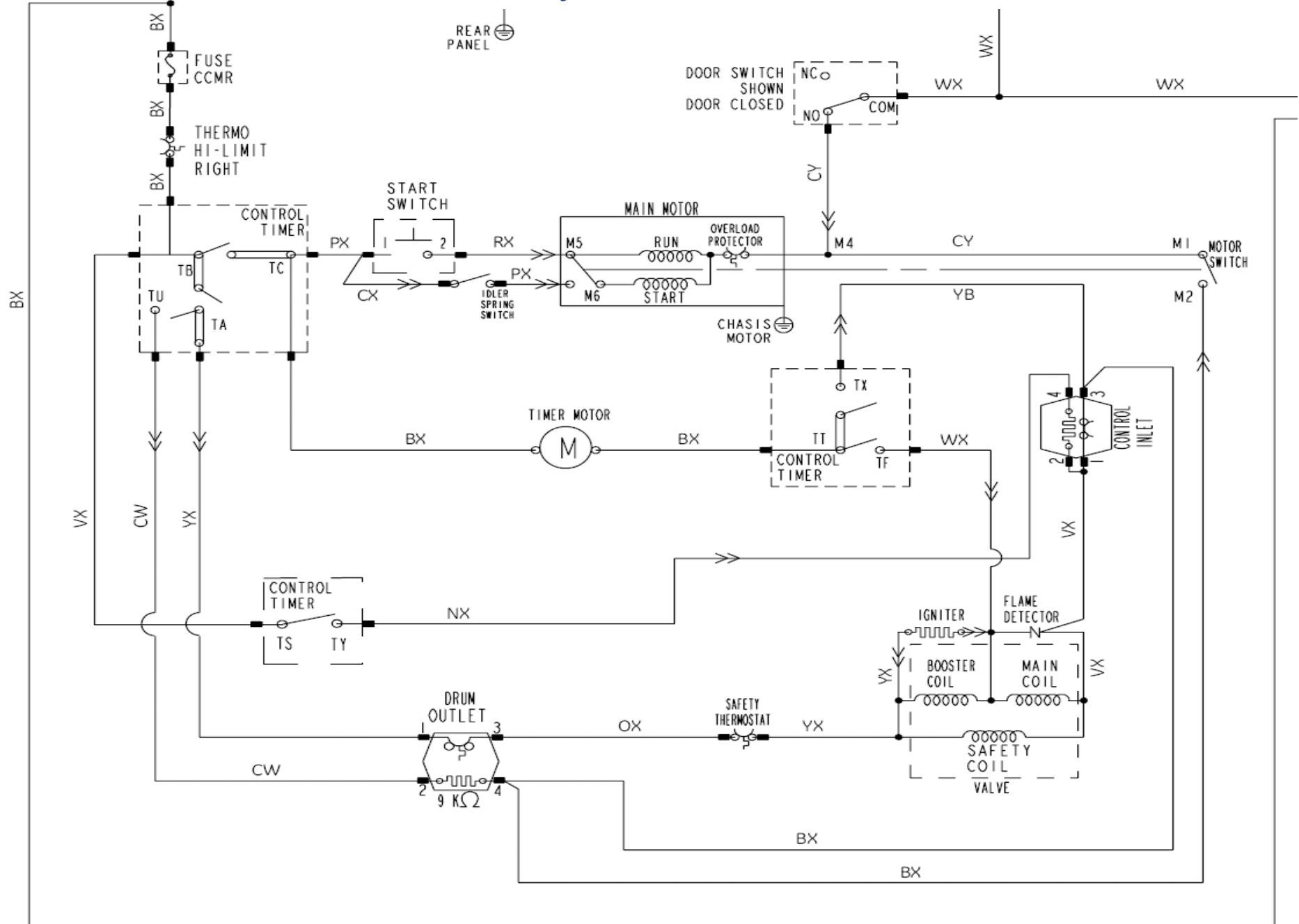
Washer Schematic



Electric Dryer Schematic



Gas Dryer Schematic



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

What Is Not Covered:

- 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 house fuses or resetting of circuit breakers.
- Products which are not defective or broken, or which are working as described in the Owner's Manual.
- Damage to the product caused by accident, fire, floods or acts of God.
- Incidental or consequential damage caused by possible defects with this appliance.
- Defects or damage due to operation in freezing temperatures.
- 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.