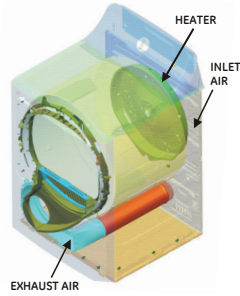




**SERVICE NOTE:** Some replacement parts may have more terminal connections than the original part. Wire the new part to the same numbered terminals as the original part and disregard the unused terminals unless a special instruction is provided.

**AIR FLOW AND SEALS**

Proper air flow through the dryer is essential for normal operation of the temperature control and safety systems. Air is PULLED into the cabinet from rear and drawn up across the heaters located behind the drum. This hot air is PULLED through the drum rear, across the clothes load, through the lint trap and down the trap duct into the blower. From the blower the air is PUSHED out of the exhaust system. Any air leaks between the air inlet and the blower, such as lower drum front left or trap duct to cabinet front sealing, will result in improper temperatures. The air being pulled down the trap duct to the drum outlet thermostat will be cooler than normal, giving this thermostat a false indication (delayed or no-trip). Leaks ahead of the blower will also reduce the volume of air across the heaters causing hot spots and possible premature failure.



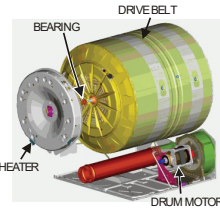
**TRAP DUCT SEALING**

To inspect the trap duct for proper sealing, remove the lint filter and look down into the duct. With a light, examine the trap duct on all sides where it meets the dryer front for voids in sealing. Leaks may be sealed with permagum.

- WHEN FLEXIBLE DUCT IS USED, WE STRONGLY RECOMMEND METALLIC FLEXIBLE DUCT.
- EXHAUST DUCT MUST BE 100mm (4 INCH) DIAMETER
- FOR SPECIFIC EXHAUST SPECIFICATION, REFER TO INSTALLATION INSTRUCTIONS SUPPLIED WITH DRYER.

**DRIVE BELT**

The drum rotates counterclockwise, as viewed from the front, at a speed of 47-51 RPM. Belt tension is maintained by a spring-loaded idler pulley and driven by a pulley attached to the rear motor shaft.



**NOTE 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.

**NOTE 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.

**NOTE 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.

**FIELD SERVICE MODE**

**Entry Into Field Service Mode**

The control must be in idle state (all LED's off) to enter Field Service Mode.

The following button sequence must be pressed to enter Service Mode; Press and hold the **Start** button, turn the cycle knob a minimum of 180°, and then release the **Start** button.

**Once in Field Service Mode**

Control will be in test selection mode display beginning with Test Number 1 (T1).

Test number will be displayed on the seven segment display.

Rotating the knob counter clockwise will decrement the test number in the display.

Rotating the knob clockwise will increment the test numbers in the display.

Turning the knob to go to a different test will terminate any current active state.

Once the test number is selected, pressing the **Start** button will begin the selected test.

**Exit of Field Service Mode**

Service Mode will time out after 30 minutes if there is no user activity.

Pressing the **Power** button or unplugging power to the machine will exit Service Mode.

When exiting Service Mode, and going back to standby state, the previous cycle state may not be restored.

SERVICE MODE TEST		SEQUENCE
t1	Dryer Model Codes	The User Interface Mode Type is displayed as a three digit decimal number. When <b>Start</b> button is pressed the Heater Type is displayed as "g" for Gas or "E" for Electric. Each time <b>Start</b> is pressed, the display will alternate between User Interface Mode Type and Heater Type. Setting Model Codes Pressing simultaneously <b>Temp &amp; Level</b> buttons, the current User Interface Mode Type is first displayed and can be adjusted as follows: Pressing <b>Level</b> button will wrap through valid User Interface Mode Type for the dryer and it increases until it wraps to the lowest valid number. Pressing <b>Temp</b> button will wrap through valid User Interface Mode Type and it decreases until it wraps to the highest valid number. Pressing the <b>Start</b> button will temporarily save the User Interface Mode Type. Next the current Heater Type selection is displayed as "g" Gas or "E" Electric. Pressing <b>Temp</b> or <b>Level</b> will alternate the display between the two Heater Type selections. Pressing <b>Start</b> for 3 seconds will store both the User Interface mode and Heater Type. Once the Heater Type and User Interface Mode have been successfully set, the unit will sound a valid tone and go to Idle Mode. If sequence is interrupted, User Interface Mode and Heater Type will not be saved.
t2	UI Software Version Check	Control will show Software Version # in decimal number on display alternating between: The 2-digit Major Software Version # and the LED for <b>Ext Tumble</b> button will turn on. The 2-digit Minor Software version # and the LED for <b>Damp Alert</b> button will turn on.
t3	XML Version Check	Display will show XML Version # in decimal number automatically alternating between: Displaying the 2-digit Major XML Version # and the LED for <b>Ext Tumble</b> button will turn on. Displaying the 2-digit minor XML version # and the LED for <b>Damp Alert</b> button will turn on.
t4	Error codes	The display error codes test allows the technician to examine and clear the fault log. Control will display the most recent error in the fault log upon entry into the display error codes test. If there are no errors, then No Error Code ("00") will be displayed. Control will clear displayed error if <b>Start</b> is pressed during the display error codes test. After clearing the displayed error from the fault log, the appliance will display the next most recent error from the fault log. After clearing all errors from the fault log, the control will display "00" code. The control will log the last 8 error codes in a circular list.
t5	CRC Non-volatile Memory Test	Control will compute the 16-bit CRC and compare it with the pre-computed 16-bit CRC that is stored in the non-volatile memory. Control will sound Button Press Beep and show "EP" after successful 16-bit CRC comparison. Control will display "EF" and sound the Invalid Button Press beep if the 16-bit CRC fails.
t6	User Interface Test	Control will turn on all indicators on the display and turn on all LED indicators. A button test is active with this test, when a button is pressed (other than the <b>Power</b> Button) it will sound a Valid Button Tone.
t7	Outlet Thermistor Test	Control will display the Outlet Thermistor temperature in °F. If the temperature is greater than 99°F, the display will flash between the Most Significant digit and the least significant 2 digits. Control will start the drum motor during the test. Electric models will turn on both the Inner and Outer Coil during the test. Gas models will turn on the Outer Coil, Gas Valve and Igniter during this test. Opening the dryer door will turn off the drum and heaters. Control will turn off the drum motor and all heater sources before exiting this test.
t8	Inlet Thermistor Test	Control will display the Inlet Thermistor temperature in °F. If the temperature is greater than 99°F, the display will flash between the Most Significant digit and the least significant 2 digits. Control will start the drum motor during the test. Electric models will turn on the Inner Coil during the test Gas units will turn on the Outer Coil, Gas Valve and Igniter during this test. Opening the dryer door will turn off the drum and heaters. Control will turn off the drum motor and all heater sources before exiting this test.
t9	Moisture Sensor Test	Control will display the voltage read from the moisture sensor in tenths of a volts with two decimal place accuracy using 2 digits of the display (ej. 4.3 volts = 43).
t10	Door Open / Closed Test	Control will display "dc" if the door as closed or "do" if door is opened.
t11	Water Valve Test	Control will turn on water valve relay and drum motor when <b>Start</b> is pressed ("On" displayed). When <b>Start</b> is pressed again the relay will be turned off ("OFF" displayed). A beep will sound every time <b>Start</b> is pressed. Control will turn off the valve and the drum motor when the door is opened. Control will turn off the valve and the drum motor when the test mode is changed. Control will turn off the valve and the drum motor if the Field Service mode is exited. When valve and drum motor are turned off by the previous three conditions, when executing the test, the user must press <b>Start</b> to restart the test to turn on the drum motor and steam relay.
t12	Restore EEPROM Values	If <b>Start</b> is pressed the default EEPROM values will be restored except; Heater Type Mode and User Interface Type Mode will remain unchanged. The control will display "EE". Until default EEPROM values are restored, any user input including knob change and <b>Power</b> button, will be locked out.
t13	Drum Test	The control will start the drum rotation for 30 seconds and the display will show "On". Opening the Dryer Door will cause the drum motor to stop and "OFF" will be displayed. Exiting the test will turn off the drum rotation.



**⚠ WARNING ⚡ Electrical Shock Hazard**

Death or serious injury can result from failure to follow these instructions.

- Service by a qualified service technician only.
- Disconnect power before servicing this product.
- Reconnect all grounding devices after service.
- Replace all parts and panels before operating.

**⚠ AVERTISSEMENT ⚡ Risque de choc électrique**

Vous pouvez être tué ou gravement blessé si vous ne suivez pas ces instructions.

- Réparations seulement par un technicien qualifié.
- Débranchez l'alimentation électrique avant la réparation.
- Rebranchez tous les dispositifs de mise à la terre après la réparation.
- Remettez toutes les pièces et panneaux en place avant d'utiliser l'appareil.

**⚠ ADVERTENCIA ⚡ Riesgo de Descarga Eléctrica**

Usted puede morir o sufrir lesiones graves si no siguen estas instrucciones.

- El servicio técnico sólo debe ser realizado por un técnico calificado.
- Desconecte el suministro de corriente antes de realizar el servicio técnico.
- Luego del servicio técnico, vuelva a conectar todos los dispositivos de conexión a tierra.
- Reemplace todas las piezas y paneles antes de utilizar.

**ERROR CODES**

ERROR CODE	DESCRIPTION
<b>000</b>	No error
<b>001 - Inlet Thermistor Short</b>	When the Inlet Thermistors count of low readings exceeds the 10 threshold, an Inlet Thermistor Short Error is set. Check and replace Inlet Thermistor if necessary.
<b>002 - Outlet Thermistor Short</b>	When the Outlet Thermistors count of low readings exceeds the 10 threshold, an Outlet Thermistor Short Error is set. Check and replace Inlet Thermistor if necessary.
<b>003 - Inlet Thermistor Open</b>	When the Inlet Thermistors count of high readings exceeds the 10 threshold, an Inlet Thermistor Short Error is set. Check and replace Inlet Thermistor if necessary.
<b>004 - Outlet Thermistor Open</b>	When the Outlet Thermistors count of high readings exceeds the 10 threshold, an Outlet Thermistor Short Error is set. Check and replace Inlet Thermistor if necessary.
<b>005 - EEPROM error</b>	Bad CRC detected when reading a Page from EEPROM. Check and replace board if necessary.
<b>006 - Stuck button</b>	If a button is depressed for 1 Minute it will be logged as a stuck button. When the button is released, the stuck button error will be cleared.
<b>007 - Miss-wire</b>	L2 and N miss-wired (AC input too high). L2 and N need to be rewired.
<b>008 - Door latch stuck</b>	If five cycles are run and the door signal in the hardware door switch detection circuit has not gone open for five cycles, then this error is set. It can be for a door switch failure, harness failure, board failure or software protection. Open door and if this error is cleared, we have a software protection. If error is not cleared, check door switch, control board or harness.
<b>00D - Door signal stuck</b>	If five cycles are run and the door signal in the hardware door switch detection circuit has not gone open for five cycles, then this error is set. "Open Door" is scrolled on the display. Open door and if this error is cleared, we have a software protection. If error is not cleared, check control board or harness.

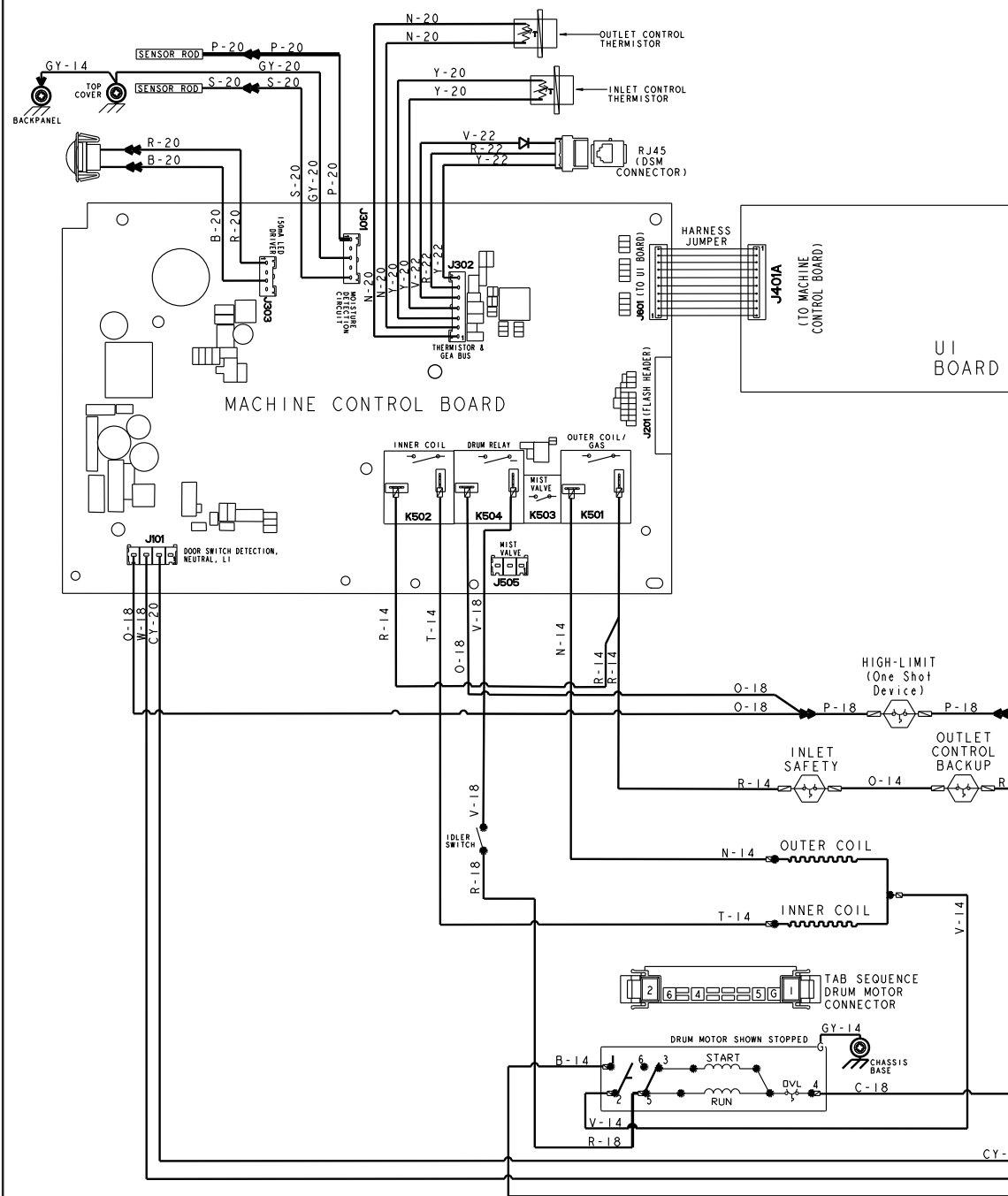
**DANGER:**

**DISCONNECT ELECTRIC POWER SUPPLY BEFORE SERVICING**

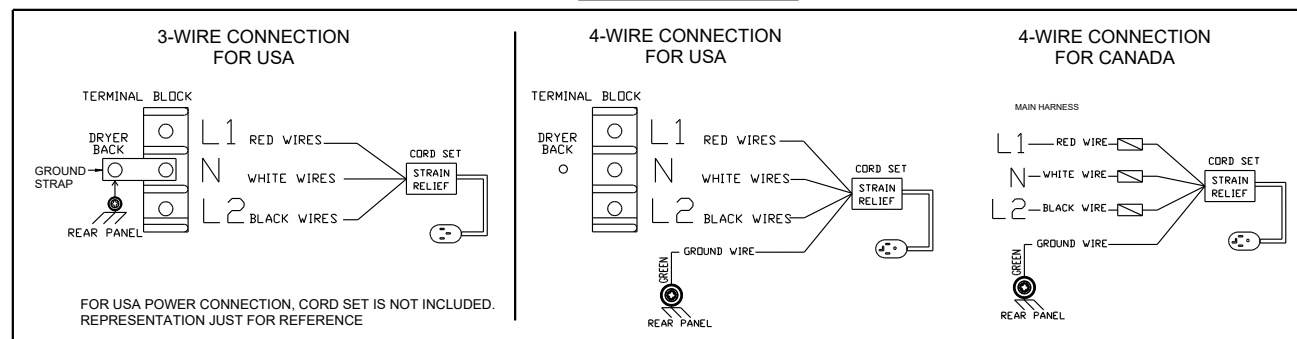
**CAUTION:**

**LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION VERIFY PROPER OPERATION AFTER SERVICING**

**Electric Dryer**



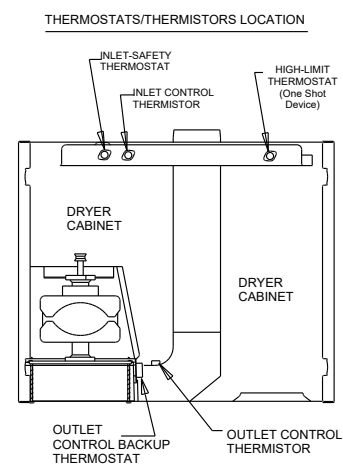
**POWER CONNECTION**



THERMOSTAT	TEMPERATURE °F		TEMPERATURE °C		CAPACITY (CuFt)
	OPEN	CLOSE	OPEN	CLOSE	
OUTLET CONTROL BACKUP	165±5-8	155±5	74±3-5	68±3	X
SAFETY INLET CONTROL	215±5	185±7	102±3	85±4	X
SAFETY INLET CONTROL	205±5-8	175±7	96±3-5	80±4	
HIGH LIMIT (One Shot Device)	385±8	---	196±4	---	X

THERMISTORS RESISTANCE VALUES AT			WINDINGS & COILS RESISTANCE VALUES		
KOHMS	°F	°C			
78-82	86	30	MAIN MOTOR	START	2.98-3.30 Ω
98-102	77	25		INNER	20.71-22.89 Ω
118-122	69	21	HEATER COILS	OUTER	20.71-22.89 Ω

L1 N L2



**LEGEND**  
 X = CONTACTS ACTIVATED  
 O = CONTACTS DEACTIVATED  
 TC = THERMISTOR CONTROLLED

**NOTES & LEGEND:**  
 □ POINT TO POINT TERMINALS  
 - GANGED CENTRIFUGAL SWITCH  
 ⚡ CONNECTOR JUNCTION  
 ⊕ SCREWS (BONDING AND GROUNDING)

**XX-YY**  
 XX-WIRE COLOR  
 YY-WIRE GAUGE

B: BLACK  
 C: BROWN/WHITE  
 CY: BROWN/YELLOW  
 G: GREEN  
 GY: GREEN/YELLOW  
 N: NAVY BLUE  
 R: RED  
 O: ORANGE  
 P: PINK  
 S: GRAY  
 T: TANGERINE  
 V: PURPLE  
 W: WHITE  
 Y: YELLOW

DC VOLTAGES OUTPUTS				
BOARD	CONNECTOR	PIN	DC VOLTAGE	
UI BOARD	J401A	1	5	
	J401A	6	GND	
MAIN BOARD	J601	10	5	
	J601	15	GND	
DRUM LIGHT	J303	1	5	
	J303	3	GND	
	J302	5	13V5	
RJ45 COMM / GEA2	J302	7	GND	
	J302	1	5	
OUTLET THERMISTORS	J302	2	GND	
	J302	3	5	
INLET THERMISTOR	J302	4	GND	

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