

234D2437P030

Rev 25



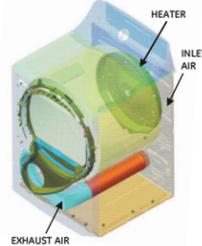
SERVICE PARTS AND LUBRICATION

- Motor 120V-60HZ WE03X20258
- Drive Belt WE12M29
- Idler Pulley WE12M8
- Drum Bearing Sleeve WE1M462
- Grease - Idler Bearing WE25X46

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.



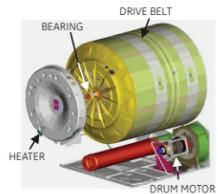
TRAP DUCT SEALING

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

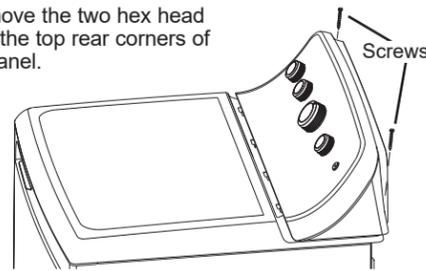
Service Mode will time out after 30 minutes if there is no user activity.

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

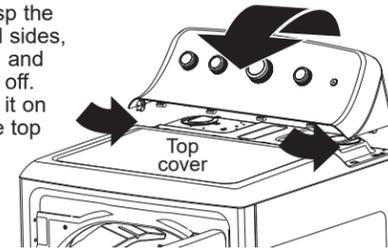
When exiting Service Mode, and going back to standby state, the previous cycle state may not be restored.

DISASSEMBLY

Step 1: Remove the two hex head screws from the top rear corners of the control panel.

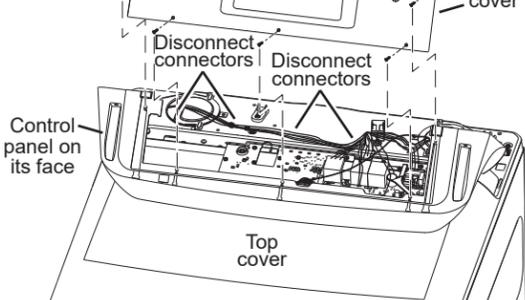


Step 2: Grasp the control panel sides, push it back, and roll it up and off. Carefully lay it on its face on the top cover.



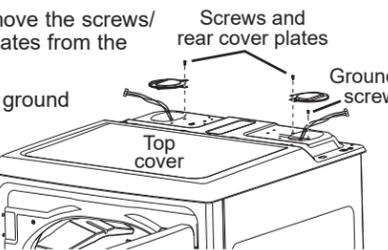
Step 3: Remove five screws from control panel cover.

Disconnect connectors from control board and set the control panel aside



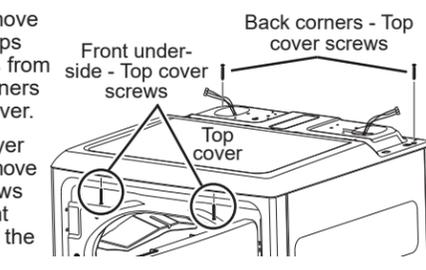
Step 4: Remove the screws/rear cover plates from the top cover.

Remove the ground wire screw from the back right corner opening.



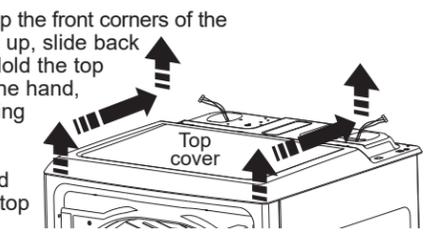
Step 5: Remove the two phillips head screws from the back corners of the top cover.

Open the dryer door and remove the two screws from the front underside of the top cover.



Step 6: Grasp the front corners of the top cover, lift up, slide back and lift up. Hold the top cover with one hand, push the wiring harnesses through the openings and then set the top cover aside.

NOTE: To remove the front panel, remove the two screws from the top front panel corners, and disconnect all of the connectors and the water line. Set the front panel aside.



SERVICE MODE TEST	SEQUENCE
t1 Dryer Model Codes	The User Interface Mode Type is displayed as a three digit decimal number. When Start button is pressed the Heater Type is displayed as "g" for Gas or "E" for Electric. Each time Start is pressed, the display will alternate between User Interface Mode Type and Heater Type. Setting Model Codes Pressing simultaneously Temp & Level buttons, the current User Interface Mode Type is first displayed and can be adjusted as follows: Pressing Level button will wrap through valid User Interface Mode Type for the dryer and it increases until it wraps to the lowest valid number. Pressing Temp button will wrap through valid User Interface Mode Type and it decreases until it wraps to the highest valid number. Pressing the Start button will temporarily save the User Interface Mode Type. Next the current Heater Type selection is displayed as "g" Gas or "E" Electric. Pressing Temp or Level will alternate the display between the two Heater Type selections. Pressing Start 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 Ext Tumble button will turn on. The 2-digit Minor Software Version # and the LED for Damp Alert 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 Ext Tumble button will turn on. Displaying the 2-digit minor XML version # and the LED for Damp Alert 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 Start 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 Power 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 Start is pressed ("On" displayed). When Start is pressed again the relay will be turned off ("OFF" displayed). A beep will sound every time Start 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 Start to restart the test to turn on the drum motor and steam relay.
t12 Restore EEPROM Values	If Start 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 Power 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.

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SETTING MODEL CODES
(ON NEW BOARDS WITH ALL LED'S FLASHING)

Pressing simultaneously **Temp & Level** buttons, the current User Interface Mode Type is first displayed and can be adjusted as follows:

- Pressing **Level** button will wrap through valid User Interface Mode Type for the dryer and it increases until it wraps to the lowest valid number.
- Pressing **Temp** button will wrap through valid User Interface Mode Type and it decreases until it wraps to the highest valid number.
- Pressing the **Start** button will temporarily save the User Interface Mode Type.
- Next the current Heater Type selection is displayed as "g" for Gas or "E" for Electric.
- Pressing **Temp** or **Level** will alternate the display between the two Heater Type selections.
- Pressing **Start** 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.

MODEL	MODEL CODE
GTX65	2
GTD65 / GTD68	1

ERROR CODES

ERROR CODE	DESCRIPTION
000	No error
001 - Inlet Thermistor Short	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.
002 - Outlet Thermistor Short	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.
003 - Inlet Thermistor Open	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.
004 - Outlet Thermistor Open	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.
005 - EEPROM error	Bad CRC detected when reading a Page from EEPROM. Check and replace board if necessary.
006 - Stuck button	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.
007 - Miss-wire	L2 and N miss-wired (AC input too high). L2 and N need to be rewired.
008 - Door latch stuck	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.
00D - Door signal stuck	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.

⚠ 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

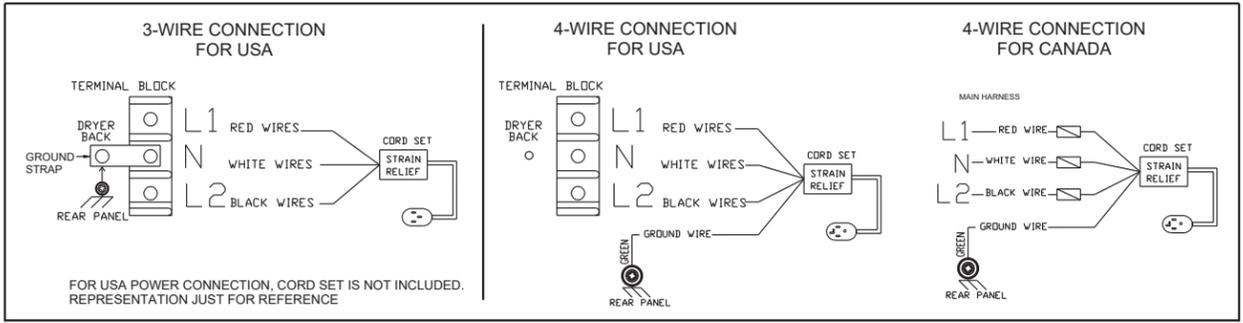
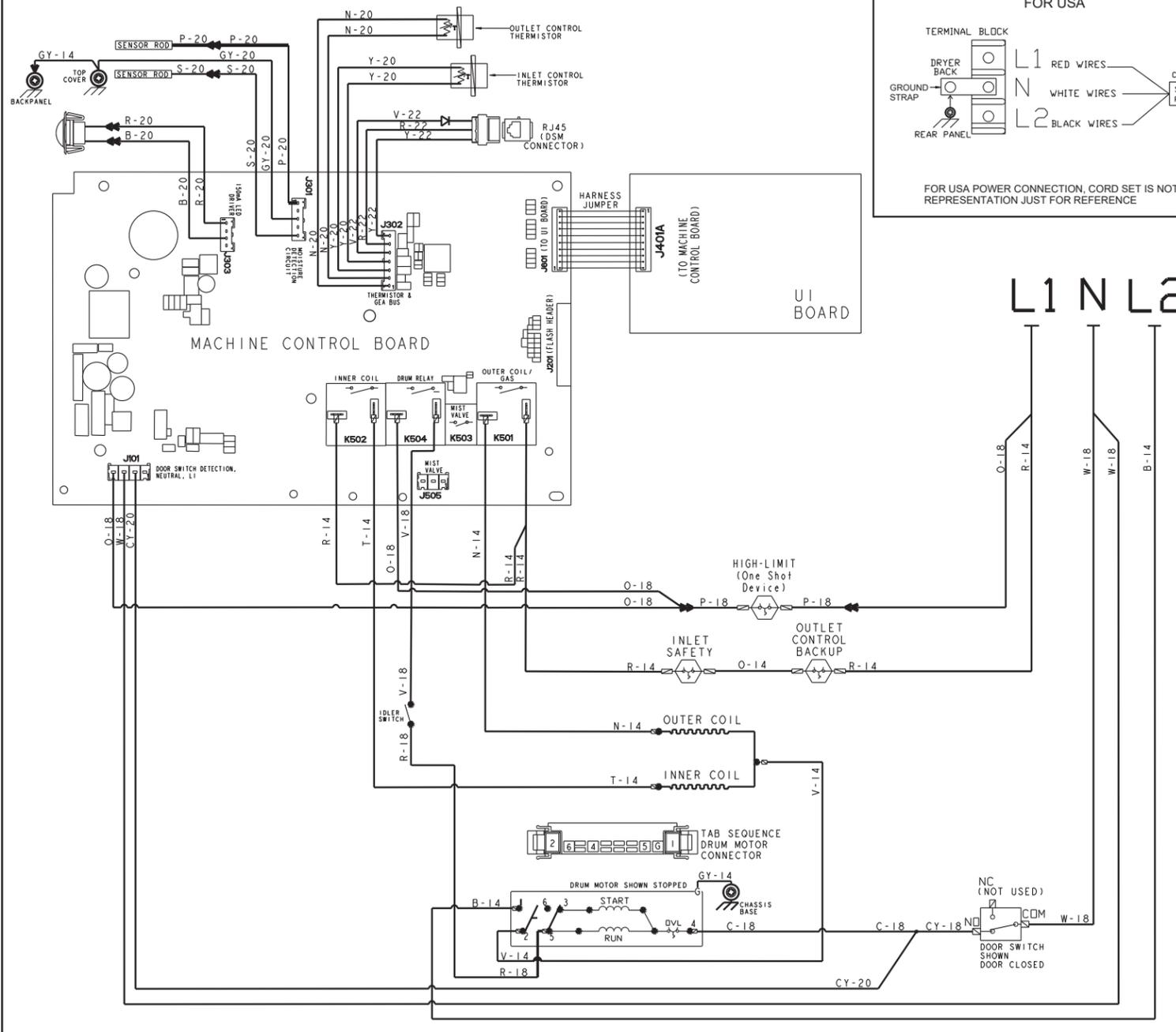
- Vous pouvez être tué ou gravement blessé si vous ne suivez pas ces instructions.
- Réparations seulement par un technicien qualifié.
 - Débranchez l'alimentation électrique avant la réparation.
 - Rebranchez tous les dispositifs de mise à la terre après la réparation.
 - Remettez toutes les pièces 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.

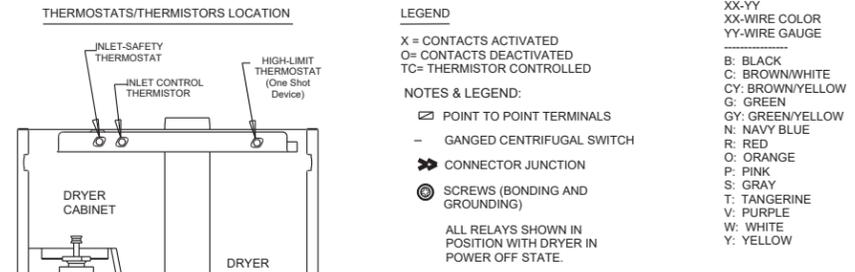
DANGER: DISCONNECT ELECTRIC POWER SUPPLY BEFORE SERVICING
CAUTION: LABEL ALL WIRES PRIOR TO DISCONNECTION WHEN SERVICING CONTROLS
WIRING ERRORS CAN CAUSE IMPROPER AND DANGEROUS OPERATION
VERIFY PROPER OPERATION AFTER SERVICING

Electric Dryer



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

THERMISTORS RESISTANCE VALUES AT			WINDINGS & COILS RESISTANCE VALUES		
KOHMS	°F	°C			
78-82	86	30	MAIN MOTOR		
98-102	77	25	START	2.98-3.30 Ω	
118-122	69	21	INNER	3.19-3.53 Ω	
			OUTER	20.71-22.89 Ω	



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

ALL RELAYS SHOWN IN POSITION WITH DRYER IN POWER OFF STATE.

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
RJ45 COMM / GEA2	J302	5	13V5
	J302	7	GND
OUTLET THERMISTORS	J302	1	5
	J302	2	GND
INLET THERMISTOR	J302	3	5
	J302	4	GND

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