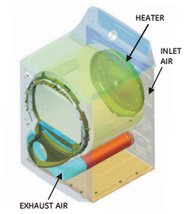
31-3000200

SERVICE PARTS AND LUBRICATION

☐ Motor 120V-60HZ WE03X29258 ☐ Drive Belt WE12X21574 ☐ 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



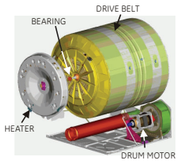
Proper air flow through the dryer is essential for normal operation of the temperature control and safety systems. Air is PULLED into the cabinet from rear and drawn up across the heaters located behind the drum. This hot air is PULLED through the drum rear, across the clothes load, through the lint 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.

CONSUMER ERROR MODE

Consumer Error Mode provides a way for consumers to read the fault table from their dryers to provide them to the service call taker. This will allow the service technicians to bring the correct replacement parts to the service call.

Entry Into Consumer Error Mode

While the machine is in IDLE STATE ONLY (all LEDs off): Press and hold start button for 10 seconds.
After holding the start button for 10 seconds, all LEDs will turn on, signifying the user may release the button and the machine will boot into CEM.

Behaviors While In Consumer Error Mode

First fault, if present, will show on the display.
Faults with an ID greater than 100 will not be displayed. These are "engineering faults".
Pressing the start button will display the next fault code
Fault codes will blink on the seven segment display.
At the end of the buffer or if no faults present the seven segment display will blink "--".

Exiting Consumer Error Mode

Pressing any button (other than the start button) or turning any knob will exit Consumer Error Mode.
Consumer Error Mode will time out after 10 minutes.

FIELD SERVICE MODE

Entry Into Field Service Mode

The control must be in idle state (all LED's off) or standby state (LEDs on but no cycle running) 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 degrees, and then release the start button.
Upon entering the Service Mode, LED's will blink once while it resets into Service Mode.

Once in Field Service Mode

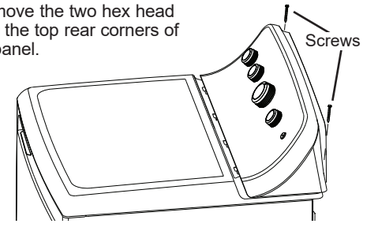
Control will be in test selection mode display beginning with Test Number 0.
Test number will be displayed on the seven segment display.
Rotating the knob counter clockwise will decrement the test number in the display.
Rotating the knob clockwise will increment the test numbers in the display.
Turning 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

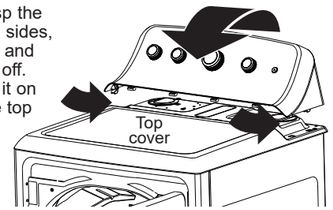
Service Mode will time out after 30 minutes if there is no user activity.
Pressing the power button or unplugging power to the machine will exit Service Mode.
When exiting Service Mode, and going back to standby state, the previous cycle state may not be restored.

DISASSEMBLY

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

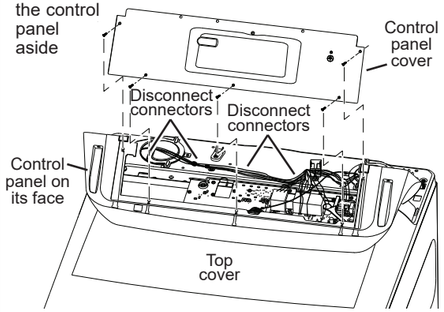


Step 2: Grasp the control panel sides, push it back, and roll it up and off. Carefully lay it on it face on the top cover.



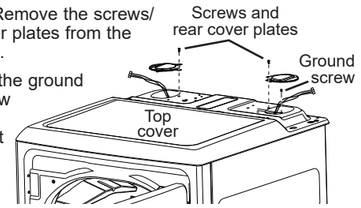
Step 3: Remove five screws from control panel cover.

Disconnect connectors from control board and set the control panel aside



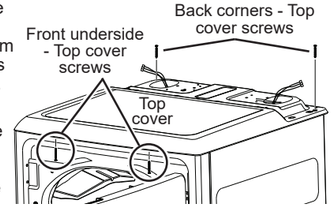
Step 4: Remove the screws/ rear cover plates from the top cover.

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

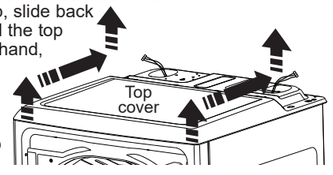


Step 5: Remove the two phillips head screws from the back corners of the top cover.

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
0	LED Test	• No need to press the start button. • All LEDs in the display will blink at a rate of 1Hz.
1	Fault Codes	• Press the start button. The first fault code number will blink in the display. • Press the start button to advance to the next fault code. • At the end of the fault code list or if no faults are present, the display will blink " - - ". • Pressing start at the end of the list will wrap back around to show the first fault again. • Rotate the cycle knob to end current test and advance to the next test.
2	Show Personality ID	• Pressing the start button will cause the current personality ID to blink.
3	Show MC Software Version (Critical)	• Press the start button to toggle through the software version number as follows: Example: v01.23 - Major Version (Pause LED will be ON) - 1st Press - Blink 01 in the display - Minor Version (Sensing LED will be ON) - 2nd Press - Blink 23 in the display. • Rotate the cycle knob to end current test and advance to the next test.
4	Show MC Software Version (Non-Critical)	• Press the start button to toggle through the software version number as follows: Example: v01.23 - Major Version (Pause LED will be ON) - 1st Press - Blink 01 in the display - Minor Version (Sensing LED will be ON) - 2nd Press - Blink 23 in the display. • Rotate the cycle knob to end current test and advance to the next test.
5	Show MC Parametric Version (Non-Critical)	• Press the start button to toggle through the software version number as follows: Example: v01.23 - Major Version (Pause LED will be ON) - 1st Press - Blink 01 in the display - Minor Version (Sensing LED will be ON) - 2nd Press - Blink 23 in the display. • Rotate the cycle knob to end current test and advance to the next test.
6	Show UI Software Version (Critical)	• These values will be 0 for non-capacitive touch models. • Rotate the cycle knob to end current test and advance to the next test.
7	Show UI Software Version (Non-Critical)	• These values will be 0 for non-capacitive touch models. • Rotate the cycle knob to end current test and advance to the next test.
8	Outlet Thermistor Test	• Press the start button to begin test. • The control will display the Outlet Thermistor temperature in °F using the Seven Segment Display (SSD). • The control will start the drum motor during the test. • Electric dryers will turn on the outer coil during the test. • Gas dryers will turn on heat during this test. (Gas only has 1 output for heat.) • Opening the door will stop the motor, turn off heat and exit the test. • Temperature will be limited to COTTONS high max temperatures. When max temperatures are reached, the motor will be turned off. • After 5 minutes, the drum motor and heat will turn off but temperature will still be displayed. • Rotate the cycle knob to end current test and advance to next test.
9	Inlet Thermistor Test	• Press the start button to begin test. • The control will display the Intlet Thermistor temperature in °F using the Seven Segment Display (SSD). • The control will start the drum motor during the test. • Electric dryers will turn on the inner coil during the test. • Gas dryers will turn on heat during this test. (Gas only has 1 output for heat.) • Opening the door will stop the motor, turn off heat and exit the test. • Temperature will be limited to COTTONS high max temperatures. When max temperatures are reached, the motor will be turned off. • After 5 minutes, the drum motor and heat will turn off but temperature will still be displayed. • Rotate the cycle knob to end current test and advance to next test.
10	Moisture Sensor Test	• Press the start button to begin test. - The control will display the voltage reading from the moisture sensor in tenths of a volt, with one decimal place accuracy, using 2 digits of the SSD. For example: 4.3 volts will be displayed as 43. The valid range for this is from 0 - 5 volts. • Rotate the cycle knob to end current test and advance to next test.
11	Door Open/Closed Test	• Press the start button to begin test. - The control will display "dc" if the door is closed or "do" if the door is open. • Rotate the cycle knob to end current test and advance to next test.
12	Door Latch	• Latch Disabled Test - Open the door - Press the start button. - The control should display "LC" for latch clear. • Latch Set Test - Close the door - Press the start button. - The control should display "LS" for latch set. • Rotate the cycle knob to end current test and advance to next test.
13	Clear All F Codes	• Pressing the start button will clear all F Codes. • When cleared the display will show " - - ". • Rotate the cycle knob to end current test and advance to next test.
15	Change Personality	• Pressing and releasing the start button will blink the current personality. • Continuing to press and release the start button will cycle through available personalities. • Pressing and holding the start button for 3 seconds will store the selected personality and exit service mode.

31-3000200

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

- Plug the dryer cord into the outlet.
- Press and release the start button and the 7-segment display will show 0.
- Press and release the start button and the 7-segment display will show the next available personality number.
- Continue pressing and releasing the start button until the desired personality number is displayed.
- Press and hold the start button for more than 3 seconds to lock in the displayed personality.
- The board will reset and start-up using the personality selected.
- Unplug and plug in again the dryer cord to the outlet.

Model Number	Software Personality
GTD72E	1

Fault Code (DEC)	Name	Description	Repair Action
1	Inlet Thermistor Failure	Thermistor readings are out of range	Check and replace Inlet Thermistor if necessary
2	Outlet Thermistor Failure	Thermistor readings are out of range	Check and replace Outlet Thermistor if necessary
6	Stuck Button	If a button is depressed for 1 minute it will be logged as a stuck button	Check and replace the User Interface Board if necessary.
7	Miss Wire	L2/N are miss-wired.	L2 and N need to be rewired. The display will show "E7".
8	Door Latch Stuck	If five cycles are run and the DOOR_LATCH_SIGNAL has not gone open then this error is set.	Check and replace door switch and/or harness if necessary.
9	Dry Load Detection Trip	The dry load detection algorithm has been tripped.	Check and replace Outlet/Inlet Thermistor if necessary.
10	Empty Drum Detection Tripped.	The empty drum detection algorithm has been tripped.	Check and replace sensor rods and/or harness if necessary.
11	Blocked Vent	The blocked vent algorithm has detected a blockage.	Check the vent and clear if blocked.
13	Door Switch Signal Stuck Closed	If five cycles are run and the DOOR_STATE signal in the hardware door switch detection circuit has not gone open then this error is set.	Check and replace door switch, harness and/or main board if necessary.
14	Door Latch Pulsing Error	Malfunction of door switch detection circuit.	Check and replace door switch, harness and/or main board if necessary.
15	Door Switch Signal Stuck Open	Malfunction of door switch detection circuit.	Check and replace door switch, harness and/or main board if necessary.
19	Door Latch Lost In Run	This can happen during normal operation when power brownout occurs.	If the issue is persistently happening, replace the main board.

⚠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

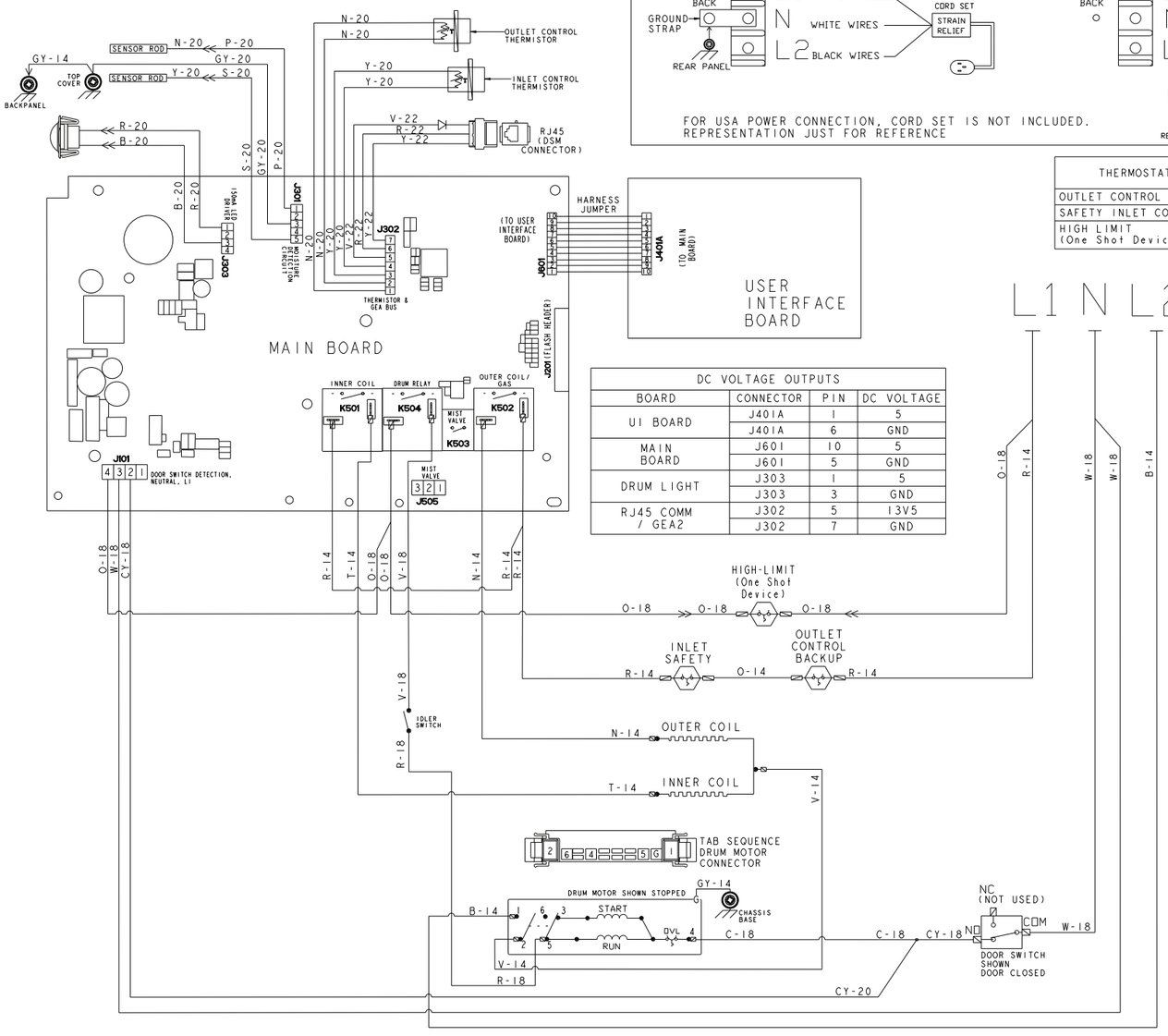
SCHEMATIC: CAUTION

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

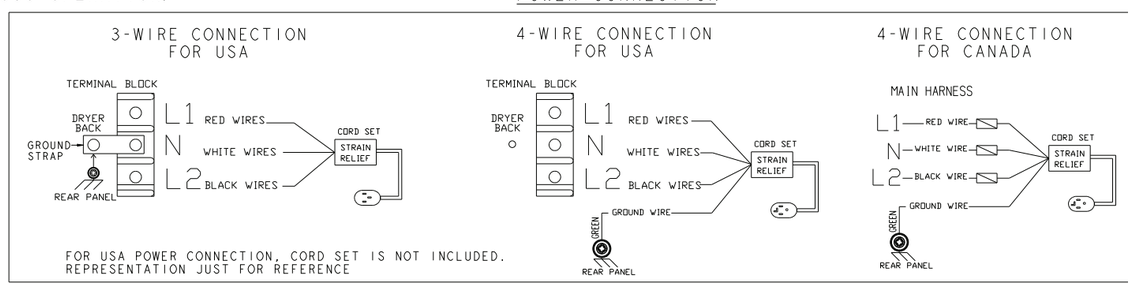
Electric Dryer

234D2288P035

REV. I4



POWER CONNECTION



FOR USA POWER CONNECTION, CORD SET IS NOT INCLUDED. REPRESENTATION JUST FOR REFERENCE

THERMOSTAT	TEMPERATURE °F		TEMPERATURE °C		DRUM VOLUME (CuFt)
	OPEN	CLOSE	OPEN	CLOSE	7.4
OUTLET CONTROL BACKUP	165+5-8	155 ± 5	74+3-5	68 ± 3	X
SAFETY INLET CONTROL	205+5-8	175 ± 7	96+3-5	80 ± 4	X
HIGH LIMIT (One Shot Device)	385 ± 8	---	196 ± 4	---	X

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

DC VOLTAGE OUTPUTS			
BOARD	CONNECTOR	PIN	DC VOLTAGE
UI BOARD	J401A	1	5
	J401A	6	GND
MAIN BOARD	J601	10	5
	J601	5	GND
DRUM LIGHT	J303	1	5
	J303	3	GND
RJ45 COMM / GEA2	J302	5	13V5
	J302	7	GND

L1 N L2

WINDINGS & COILS RESISTANCE VALUES		
MAIN MOTOR	START	2.98-3.30Ω
	RUN	3.19-3.53Ω
HEATER COILS	INNER	20.71-22.89Ω
	OUTER	20.71-22.89Ω

LEGEND

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

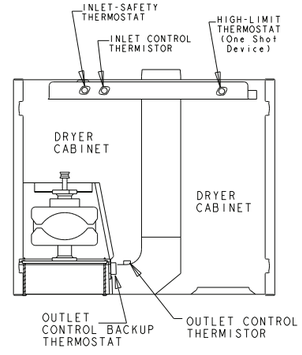
NOTES & LEGEND:
- POINT TO POINT TERMINALS
- - - GANGED CENTRIFUGAL SWITCH
- >> CONNECTOR JUNCTION
- SCREWS (BONDING AND GROUNDING)

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

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
V: PURPLE
W: WHITE
Y: YELLOW
T: TANGERINE

THERMOSTATS/THERMISTORS LOCATION



31-3000200

05-19 GEA