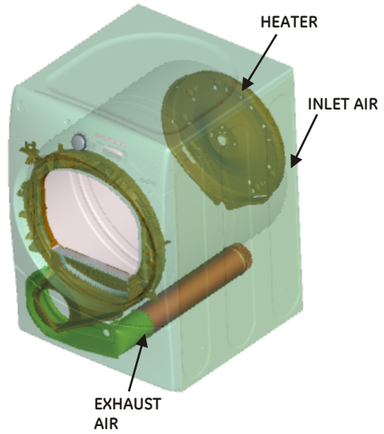
IMPORTANT SAFETY NOTICE

This information is intended for use by individuals possessing adequate background of electrical, electronic and mechanical experience. Any attemp to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible for the interpretation of this information, nor can it assume any liability in connection with its use.

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.



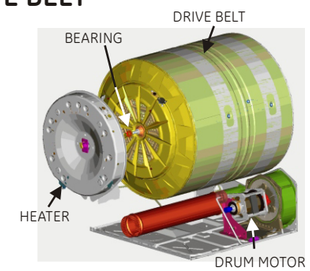
TRAP DUCT SEALING

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 INSTRUCTION SUPPLIED WITH YOUR DRYER.

DRIVE BELT

The drum is rotated 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.



STEAM SYSTEM (on some models)

Water is injected in the drum through a nozzle located at the front of the appliance.
A water valve located at the bottom rear of the dryer provides water to nozzle.
When servicing nozzle check for leaks and replace if necessary.

IMPORTANT

The water valve is intentionally not grounded and may present a risk of electric shock during servicing.
Disconnect electric power supply prior to completing service.

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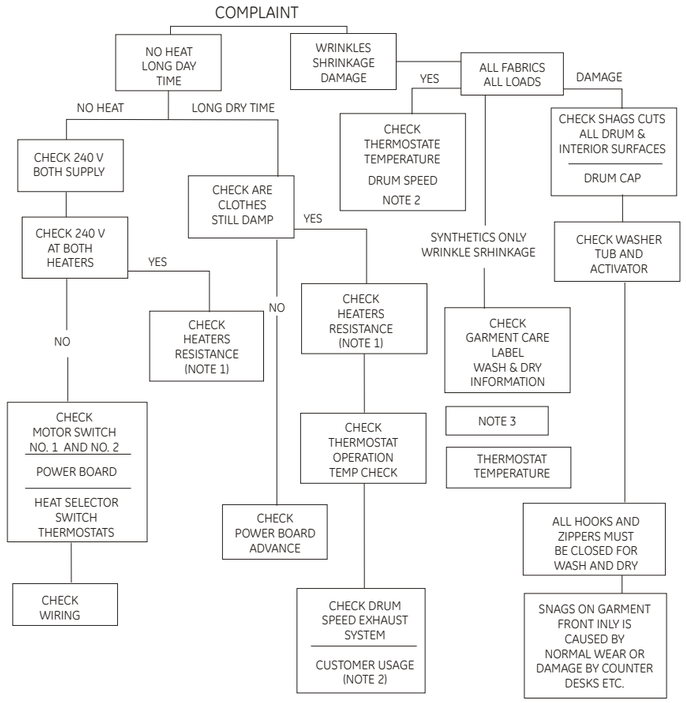
GENERAL TROUBLESHOOTING GUIDE

Pub. No. 31-16846



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

SERVICE PARTS AND LUBRICATION

Motor 120V-60HZ (WE17M54)
Drive Belt WE12M29
Idler Pulley WE12M8
Drum Bearing Sleeve.....WE1M462
Grease - Idler Bearing.....WE25X46

SERVICE NOTE:
Some replacement parts may have more terminal connections that 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.

IMPORTANT

Reconnect all grounding devices. All parts of this appliance capable of conducting electrical current are grounded. If grounding wires, screws, straps, clips, nuts or washer used to complete a path to ground are removed for service, they must be returned to their original position and properly fastened.

IMPORTANT

Reconnect the steam supply hose coupling on models so equipped.

SERVICE MODE TEST

How to enter to service mode and navigate:
From idle state, press and hold the “Signal” and “Lock” buttons for 3 seconds to enter service mode.
Upon entering the service mode, the Control shall be in test selection mode and display the first test number (t01). Rotating the knob counter clockwise (CCW) shall decrement the test number in the display.
Rotating the knob clockwise (CW) shall increment the test numbers in the display.
Once the test number is selected, pressing “Start/Pause” shall begin the selected test.
During a test, pressing “Power” button shall terminate that test and bring the Control to the test selection mode (test number is displayed on the display).
Pressing “Power” key during the test selection mode shall exit the Service mode.

SERVICE MODE

SERVICE MODE TEST		SEQUENCE	
T01	UI configuration	Start/Pause	Display UI models (1-16) - See Model Selector table below
		Knob	Knob can be turned CCW and CW to see all configured models
		Start/Pause	To program new model Start/Pause key must be pressed and held for 3 seconds. The key press beep shall sound to indicate new model has been programmed
		Power	Returns to service mode screen
T02	Error codes	Start/Pause	Display error codes
		Knob	Knob can be turned CCW and CW to see all logged error codes
		Start/Pause	Clear highlighted error code from machine
		Power	Returns to service mode screen
T03	Version info	Start/Pause	Display the current version of software. When key is pressed and held, control shall display the 2-digit EEPROM version number. When Start/Pause key is not pressed, control shall display the software version number.
T04	EEPROM check	Start/Pause	The control shall sound the key press beep and display “EEP” after CRC comparison. The control shall display "Err" and sound the invalid key press beep if CRC fails
T05	UI test	Start/Pause	The control shall turn on all individual LEDs for 5 seconds. The control shall then turn all individual LEDs off and turn on a SSD module segments for 5 seconds. The control shall repeat this until the test is exited
		Power	Returns to service mode screen
T06	Keys continuity	Start/Pause	The control shall sound the beep as long as a key is pressed except Power key
		Power	Returns to service mode screen
T07	Outlet Thermistor	Start/Pause	TThe control shall display the Outlet Thermistor temperature in degrees Fahrenheit on the SSD during test. The control shall start the drum motor and turn on the inner and outer coils for Electric models, and the gas valve for Gas models
		Power	Returns to service mode screen
T08	Inlet Thermistor	Start/Pause	The control shall display the Inlet Thermistor temperature in degrees Fahrenheit on the SSD during test. The control shall start the drum motor and turn on the Inner Coil for Electric models, and the gas valve for Gas models
		Power	Returns to service mode screen
T09	Moisture Sensor	Start/Pause	The control shall display the voltage read from the moisture sensor in volts on te SSD
		Power	Returns to service mode screen
T10	Steam test	Start/Pause	On entry, control shall display “STE” on the SSD during the steam test. The steam test shall rotate the drum with the standard profile. Five seconds after enabling the drum motor, the control shall enable power to the mist valve throughout the remainder of the test
		Power	Returns to service mode screen

ERROR CODES

Error code	Description
E00 - All	**No error**
E01 - Read/Write problem	Reading or writing improperly. Verify EEPROM access
E02 - Inlet Thermistor Short	Check and replace inlet thermistor if necessary
E03 - Outlet Thermistor Short	Check and replace outlet thermistor if necessary
E04 - Inlet Thermistor Open	Check and replace inlet thermistor if necessary
E05 - Outlet Thermistor Open	Check and replace outlet thermistor if necessary
E06 - Different EEPROM	Compare UI type stored in EEPROM and physical UI present
E07 - Stuck Button	Verify if there is any button stuck Low
E60 - Door Switch Open	Door switch must be close
E61 - Control Board Miswired	L2 and N miswired (AC input too high)
E62 - Control Board Input	AC line frequency detection error and low input voltage
E80 - Control Board invalid	Invalid UI model
E81 - Control Board invalid	Invalid Power model

MODEL SELECTOR

UI Display	Dryer Model
001	GFDN110 ED/GD
002	GFDN120 ED/GD
	GFDN130 ED/GD
003	GFDS140 ED/GD
	GFDS145 ED/GD
004	GFDS150 ED/GD
	GFDS155 ED/GD
---	All Other

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.

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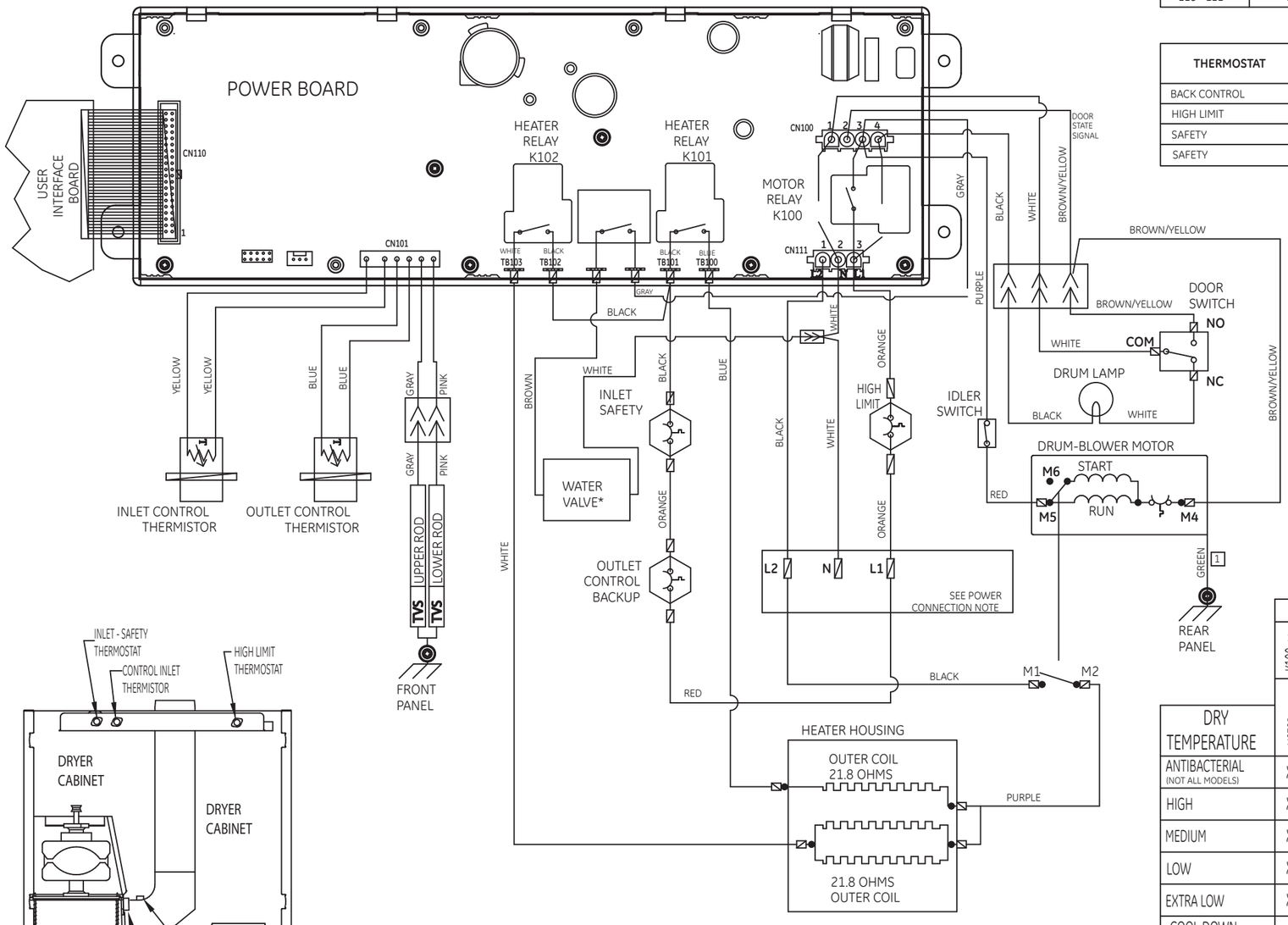
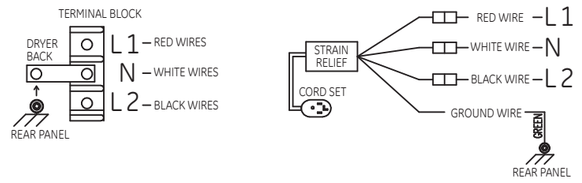
SCHEMATIC:



THERMISTOR RESISTANCE VALUES		
K OHMS	°F	°C
78 - 82	86	30
98 - 102	77	25
118 - 122	69	21

THERMOSTAT	TEMPERATURE °F		TEMPERATURE °C		DRUM VOLUME (CuFt)	
	OPEN	CLOSE	OPEN	CLOSE		
BACK CONTROL	165 ± 5	155 ± 5	74 ± 3	68 ± 3	7.0	7.5
HIGH LIMIT	315 ± 10	250 ± 15	157 ± 6	121 ± 9	7.0	7.5
SAFETY	210 ± 5	180 ± 7	99 ± 3	82 ± 4	7.0	-
SAFETY	225 ± 5	195 ± 7	107 ± 6	90 ± 9	-	7.5

POWER CONNECTION



NOTES & LEGEND:

- POINT TO POINT TERMINALS
- GANGED CENTRIFUGAL SWITCH
- CONNECTOR JUNCTION
- SCREWS (BONDING AND GROUNDING)

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

* WIRES & COMPONENTS IN DASHED LINES APPLY ONLY FOR STEAM MODELS

DRY TEMPERATURE	RELAYS		
	K100-110 MOTOR	K101-110 OUTER COIL	K102-110 INNER COIL
ANTIBACTERIAL (NOT ALL MODELS)	X	TC	TC
HIGH	X	TC	TC
MEDIUM	X	TC	TC
LOW	X	TC	TC
EXTRA LOW	X	O	TC
COOL DOWN (NOT ALL MODELS)	X	O	O

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