

Models:

Fast Track Troubleshooting

IMPORTANT SAFETY NOTICE – "For Technicians Only" This service data sheet is intended for use by persons having electrical, electronic, and mechanical experience and knowledge at a level generally considered acceptable in the appliance repair trade. Any attempt to repair a major appliance may result in personal injury and property damage. The manufacturer or seller cannot be responsible, nor assume any liability for

DV330AEB DV330AGB **NOTICE: All Dryers Parts**

DV330AEW DV330AGW

injury or damage of any kind arising from the use of this data sheet.

Change 6/2010: Motor Pulley, page 5; Blower Housing, page 4 Samsung 'Dryer' Diagnostic Code Quick Guide

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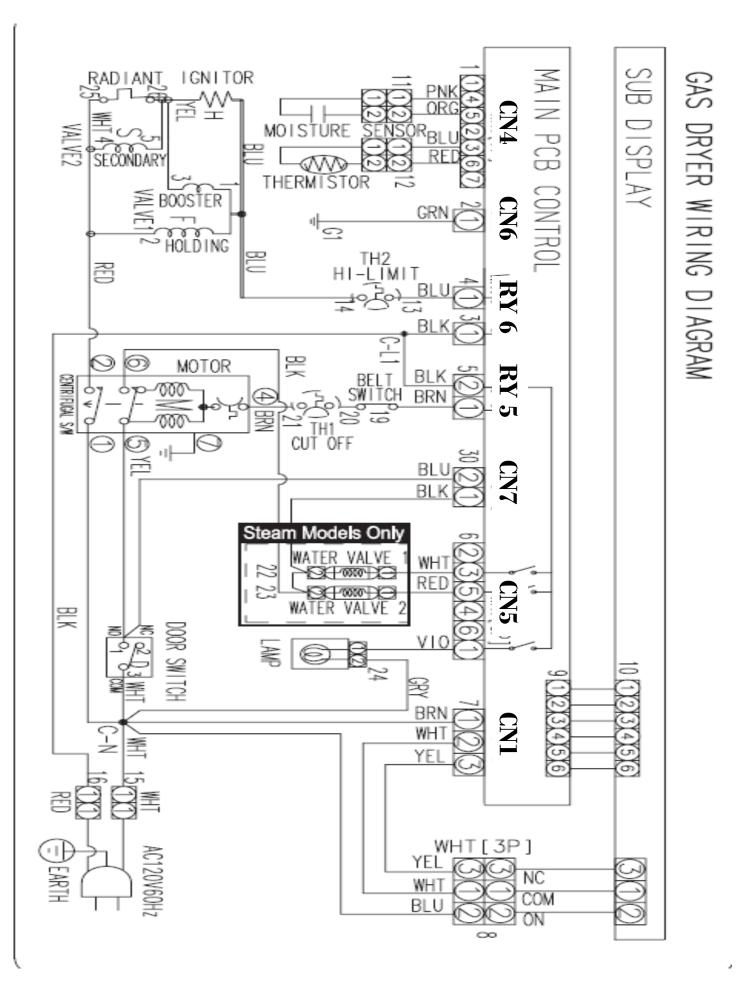
Samsung Dryer Diagnostic Code Quick Guide								
Display		Description_	<u>Trigger</u>		Action Taken			
88	<mark>Error!</mark> Temperature Sensor	Dryer Thermistor Short Sensed	The Thermistor revery low.	esistance is	Check for: Clogged lint screen, Restricted vent system, Thermistor resistance.			
Problem		Dryer Thermistor Open Sensed	The Thermistor resistance is very high.		Check for: Clogged lint screen, Restricted vent system, Thermistor resistance.			
dO dE	Error! Door is open.	Door Open	Running the dryer with door open		Check for: Loose or open wire terminals in Door Sense circuit.			
FE	Error:) Power Interruption	Power source frequency Error	Invalid power source Frequency		Check for: Non Utility power supply			
dF	Error! Door Open Sensing Problem	Door Circuit Failure	Invalid state for more than 256 milliseconds		Check for: Loose or open wire terminals in Door Sense circuit.			
hE or HE	Error! Overheated	Heater Error	Invalid heating Temp in running the dryer		Check for: Restricted vent system, Thermistor resistance.			
bE	Error: A button is either stuck or is being pressed continuously.	Button Error	PCB key closed for 75 sec.		Check Display PCB for stuck button			
od	<mark>Error!</mark> Time Limit Exceeded	Over Dry	Invaled Dry Time Excessive Dry Time		Inspect seensor bars			
88	Error!) Electronic Control Problem	EEprom Fail	Invalid state of Eeprom communication		Replace Main PCB			
			Electrical Dryers 240 VAC, 60 Hz, 30 Amps, 3					
http://m Help — 0	— Plus One y.plus1solu GSPN http://	tions.net/clientPorta //service.samsungpo	-wire or 4-wire installations Gas Dryers 120 VAC, 60 Hz, 15 Amps, 3-wire installations					
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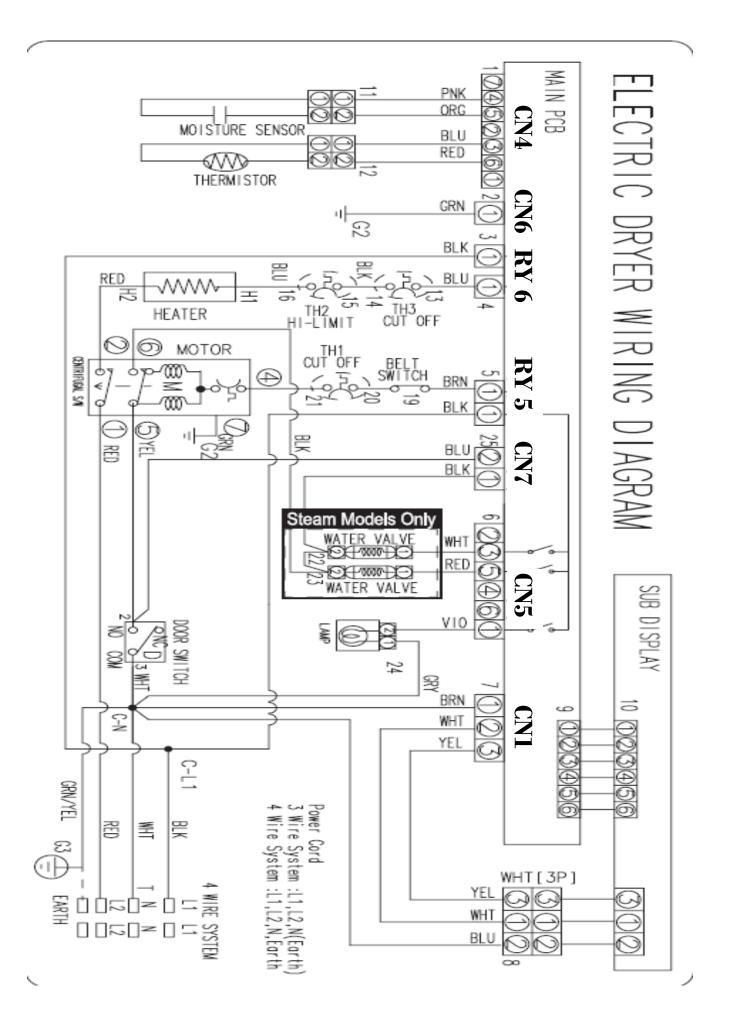
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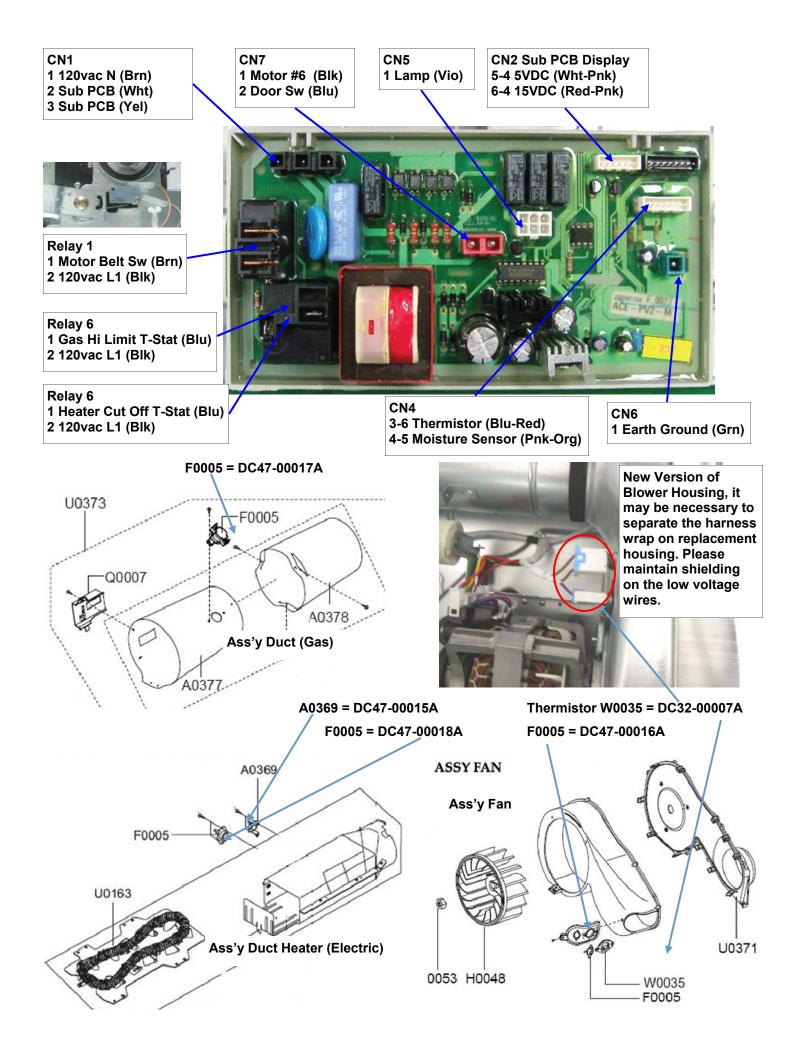
http://support-us.samsung.com/spstv/howto.jsp Customer information videos and chat programs Programs for Fridges, Laundry, Ranges & D/W

Only rigid or flexible metal duct should be • used for venting.

All Dryers Must be vented to the outside.

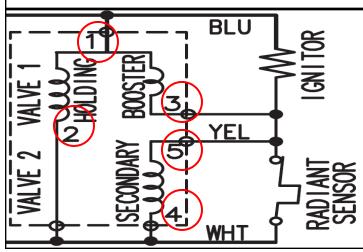






Gas Valve Testing

Unplug connectors and test valve terminalsSY(its numbering is from the front terminal.)SioCheck across terminals #1 and #3 (Booster Coil).550 ΩCheck across terminals #1 and #2 (Holding Coil).1350 ΩCheck across terminals #2 and #3 (Both coils in series).1900 ΩCheck across terminals #4 and #5 (Secondary Coil).1300 Ω



SUBJECT: Dryer belt slides off the pulley when manually rotated counter-clockwise (ccw)
SYMPTOM: The dryer drum will not turn. On occasions, the customer will rotate the drum counter clockwise (CCW) to check for any remaining clothes left in the dryer drum. By rotating the drum CCW, the idler arm may shift causing the belt to slide off the pulley.
SOLUTION: To prevent the dryer belt from sliding off the pulley, the pulley has been redesigned. The Outside Diameter has been changed from 22mm to 27mm.



New DC81-00220A



Make sure the idler pulley & the motor pulley are in a straight line, bend if needed

Special Test Mode:

- While in Power Off, pressing the Dry Level + Power keys simultaneously will put the dryer into the System Check mode. " t2 " will display.
- System Check Mode Progress
- t2 mode Function Performed Start/Pause Motor (CW) Relay On → Heater Relay On → Heater Relay Off → Motor (CW) Relay Off (Circulation)

Cycle Count Test Mode

How to Enter:

Press Temp + Signal Keys for 3 sec during Power On State.

Press Signal for 3 seconds (until beep)

Note: Test mode subject to change without notice

Temperature Test Diagnostic Mode

How to Enter:

Press Adjust Time Up + Down Keys for 3 sec during Power On State.

Press Adjust Time Up and it will display the temperature in Celsius.

Compare vent temp to drum temp to see air flow.

This can be with just power on or dryer running.

Sensor Bar Touch Data Mode

How to Enter:

Power on dryer, open door and press in door switch. Start dryer tumbling. Press Temp + Signal for 3 sec. Touch both sensor bars with wet cloth, sensor hit numbers show in display. Note: Test mode subject to change without notice

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Software Version Test Mode

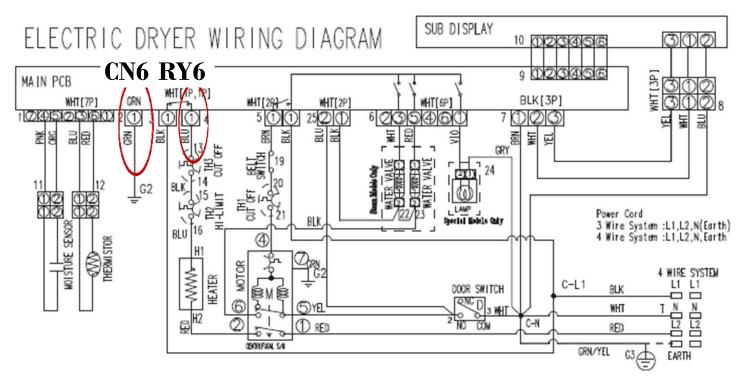
How to Enter: Press Temp + Signal Keys Keys for 3 sec during Power On State. Press Temp key for 3 seconds (until beep) Note: Test mode subject to change without notice

Dryer continues to run after cycle completed

Wrinkle Prevent option provides approximately 90 minutes (20 continuous and 70 intermittent) of tumbling in unheated air at the end of the cycle to reduce wrinkling. Press the Wrinkle Prevent button to activate or deactivate this feature. The indicator light above the pad will illuminate when Wrinkle Prevent is selected. Chasing lights appear in the display when the Wrinkle Prevent option is selected. The load is dry, and can be removed at any time during the Wrinkle Prevent cycle.

	ELECTRIC AND GAS DRYER Weather Hood Type						
	Recom	mended	Use only for short-run installation				
	4" (10 .16 cm)		2.5" (6.35 cm)				
No. of 90° elbows	Rigid	Metallic Flexible*	Rigid	Metallic Flexible*			
0	24.4 m (80 ft.)	12.4 m (41 ft.)	22.6 m (74 ft.)	10.1 m (33 ft.)			
1	20.7 m (68 ft.)	11.2 m (37 ft.)	18.9 m(62 ft.)	8.8 m (29 ft.)			
2	17.4 m (57 ft.)	10.1 m (33 ft.)	15.5 m(51 ft.)	7.6 m (25 ft.)			
3	14.3m (47 ft.)	9.0 m (29 ft.)	12.5 m(41 ft.)	6.5 m (21 ft.)			

* Do not use non-metallic flexible duct.



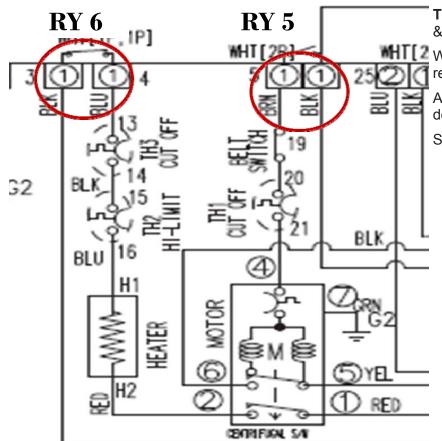
Testing Electric Heater circuit.

Disconnect Blue wire from RY6, turn power on, start dryer read voltage between RY6 Blue wire and CN6 Green wire.

Reading of 120VAC means a proper operating heater circuit. 0VAC means open in circuit.

To test thermostats use ohm meter on lowest scale, any resistance replace component

See page 4 for Main PCB layout for testing.

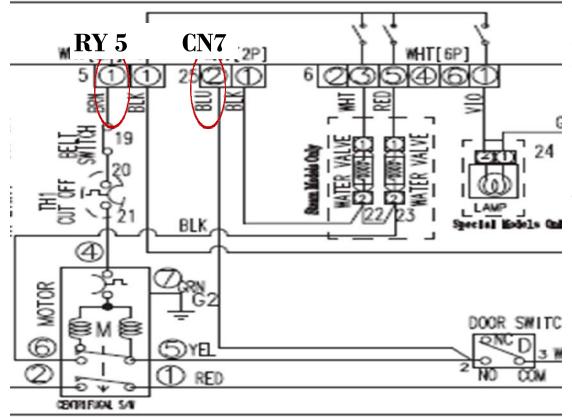


Testing Main PCB power output to Heating & Motor circuit.

With motor running in the heating mode, read AC voltage across RY6 and RY5.

Any voltage reading means Main PCB is defective.

See page 4 for Main PCB layout for testing.



Testing Motor circuit.

With power off read resistance between RY5 Brown and CN7 Blue.

Resistance reading of good motor circuit is about 1.9Ω . To test thermostat and switch use ohm meter on lowest scale, any resistance replace component.

See page 4 for Main PCB layout for testing.