

DV5451AE Dv5451AG

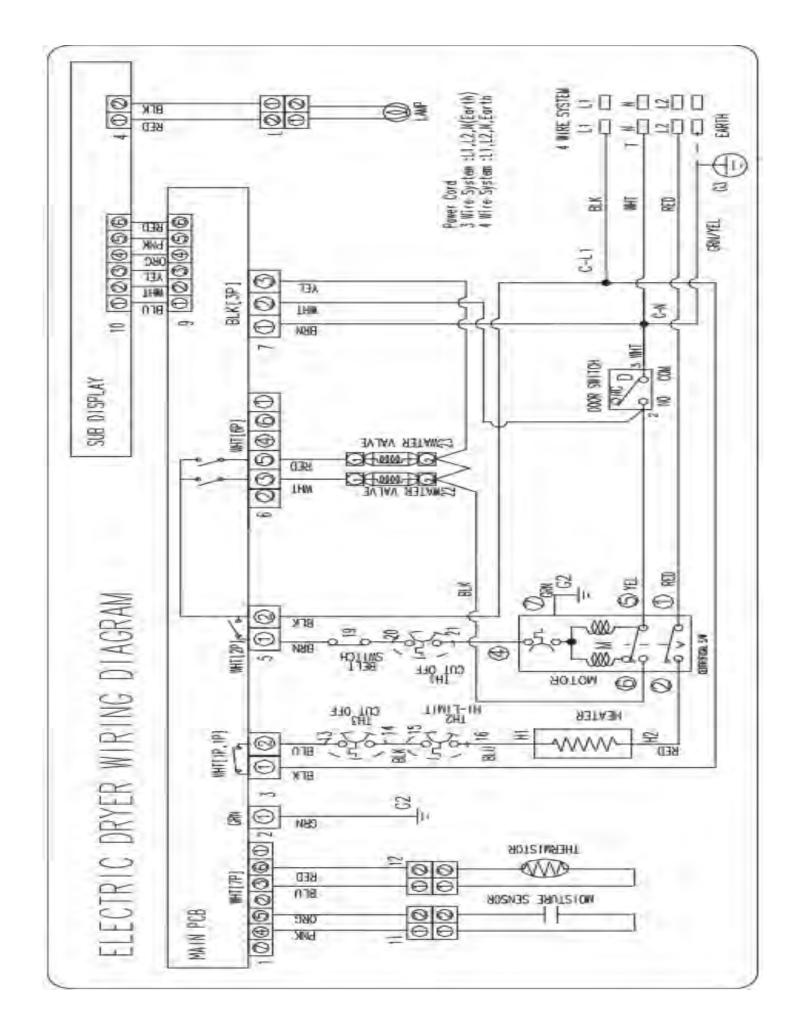
Models:

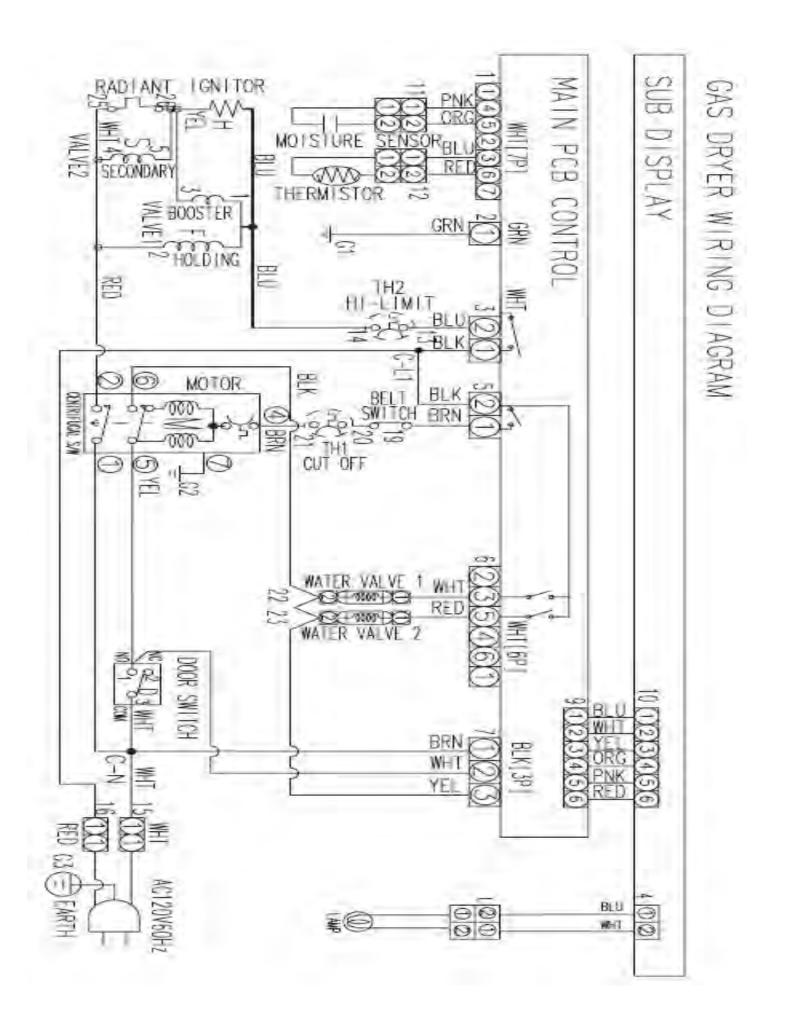
Fast Track Troubleshooting

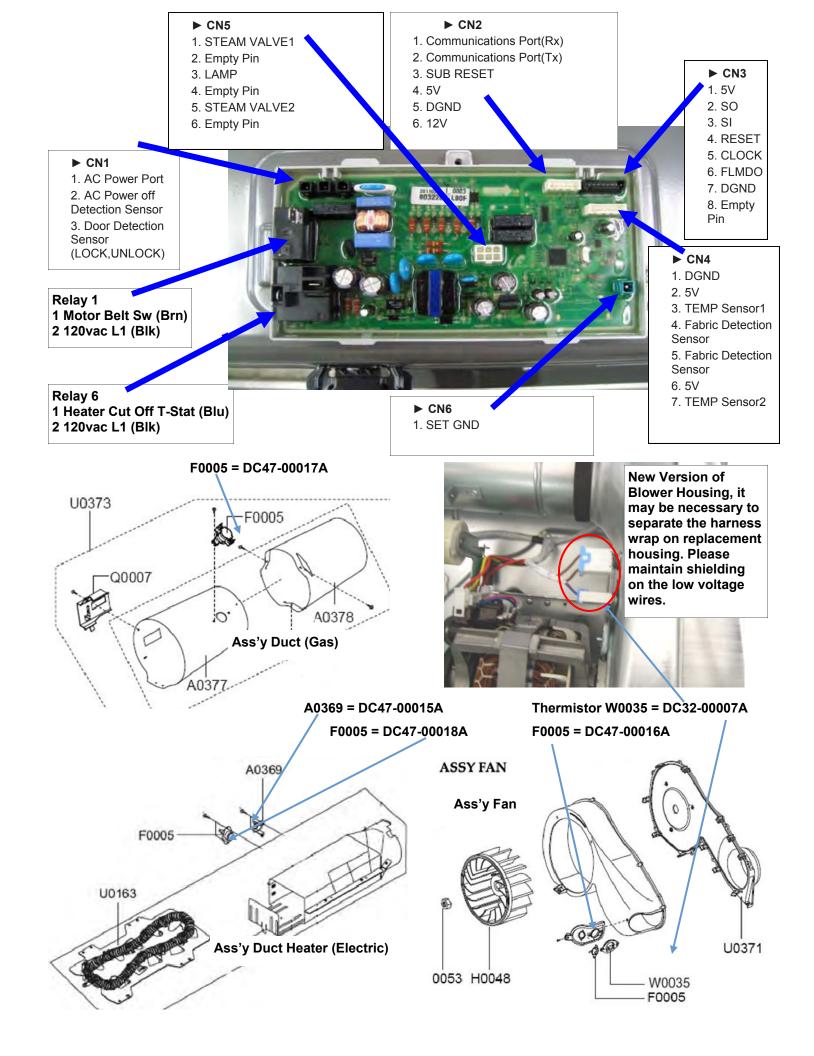
IMPORTANT SAFETY NOTICE – "**For Technicians Only**" This service data sheet is intended for use by persons having electrical, electronic, and mechanical experience and knowledge at a level generally considered acceptable in the appliance repair trade. Any attempt to repair a major appliance may result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

ΝΟΤΙΟ			injury or damage of any kind arising from the use of this data sheet.					
NOTICE: All Dryers Parts Change 6/2010: Motor Pulley, page 5; Blower Housing, page 4			Publication # <u>nwDV54</u>			51 Revision Date 09/23/11		
			Samsung 'Dryer' Diagnostic Code Quick Guide					
Display Descri		Description	escription		Trigger_		Action Taken	
Error: Temperature Sensor		Dryer Thermistor Short Sensed		The Thermistor resistance is very low.		sistance is	Check for: Clogged lint screen, Restricted vent system, Thermistor resistance.	
88	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 Oper	1	Running the dryer with door open		with door	Check for: Loose or open wire terminals in Door Sense circuit.	
FE	Error! Power Interruption	Power sou Error	rce frequency	Invalid power source Frequency		ce Frequency	Check for: Non Utility power supply	
dF	Error) Door Open Sensing Problem	Door Circu	it Failure	Invalid state for more than 256 milliseconds		ore than 256	Check for: Loose or open wire terminals in Door Sense circuit.	
hE or HE	Error! Overheated	Heater Err	or	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 Err	or	PCB key closed for 75 sec.		or 75 sec.	Check Display PCB for stuck button	
od	<mark>Error!</mark> Time Limit Exceeded	Over Dry		Invaled Dry Time Excessive Dry Time		Excessive Dry	Inspect seensor bars	
<u>88</u>	<mark>(Error!)</mark> Electronic Control Problem	EEprom F	ail	Invalid state of Eeprom communication		prom	Replace Main PCB	
SUPPORT INFORMATION Electrical Dryers 240 VAC, 60 Hz, 30 Amps, -wire or 4-wire installations								

		ecilical Divers 240 VAC, 00 HZ, 30 Allips, 3	
SUPPORT INFORMATION		-wire or 4-wire installations	
Training — Plus One		as Dryers 120 VAC, 60 Hz, 15 Amps, 3-wire	
http://my.plus1solutions.net/clientPortals/samsung/	Ins	stallations	
Help — GSPN http://service.samsungportal.com/			
Samsung Product Support TV		action consideration in the LICA	
http://support-us.samsung.com/spstv/howto.jsp		ocation consideration In the USA:	
Customer information videos and chat programs	•	All Dryers Must be vented to the outside.	
1 0		,	
Programs for Fridges, Laundry, Ranges & D/W		Only rigid or flexible metal duct should be	
1 0	•	•	

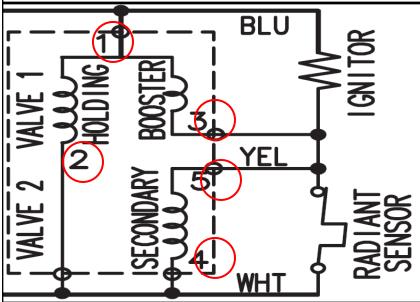






Gas Valve Testing

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



Service Mode:::

To enter Service Mode, press Wrinkle Prevent and Temp Keys for 3 seconds, until it sends out a beeping sound.

Cycle Count Test Mode

How to Enter:

To enter cycle count mode press the Wrinkle Prevent in Service Mode.

Temperature Test Diagnostic Mode

How to Enter:

Press Adjust Time Up + Down Keys for 7 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. 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

27 mm

22mm to 27mm.

New Ma mo DC81-00220A wi



Special Test Mode:

Press power button & Dry level buttons simultaneously will put you in System Check Mode.. Display will show t2

Press Start/Pause to toggle through the following operations

Motor (CW) relay on— Heater Relay on—- Heater Relay Off—-Motor (CW) Relay Off

Sensor Bar Touch TEST

How to Enter:

With the power on, pressing Wrinkle Prevent and Temp Keys for 3 seconds. This action will put the dryer into sensor bar touch data mode. This mode is default mode of entering service mode

Software Version Test Mode

How to Enter:

To enter Special Test Mode press Temp Button until the control beep. (same for all Frontier models.) ex) In case of "U105", U0 means major version "v1" 05 means minor version "05

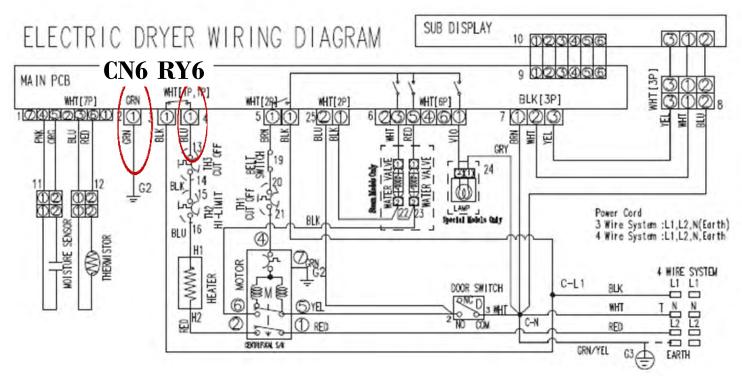
Do not use dryer to dry clothes which have traces of any flammable substance, such as vegetable oil, cooking oil, machine oil, flammable chemicals, thinner, etc., or anything containing wax or chemicals, such as mops and cleaning cloths. Flammable substances may cause fabric to catch fire by itself.

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.

Recommended			er Hood Type Use only for short-run installation			
	4" (10 .16 cm)		2.5" (6.35 cm)			
No. of 90° elbows	RIGIO MIETAILIC FIA		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	1 20.7 m (68 ft.) 11.2 m (37) 2 17.4 m (57 ft.) 10.1 m (33)		18.9 m(62 ft.)	8.8 m (29 ft.)		
2			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.



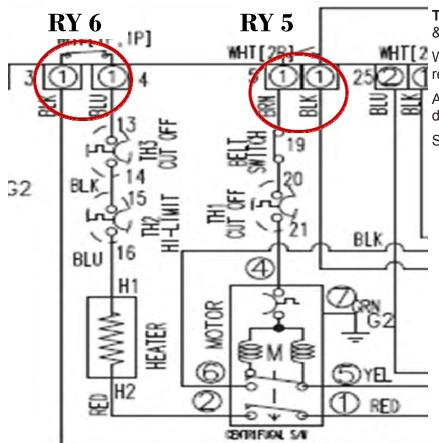
Testing Electric Heater circuit.

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.

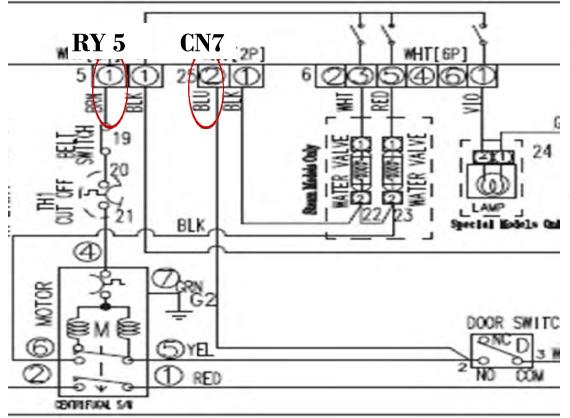


Testing Main PCB power output to Heating & Motor circuit.

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.