



Fast Track Trouble shooting

Model: DV48H



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.

Support Information:

HELP: 1-888-751-4086 (Tech Sup. – ASC/SSD)

1-866-894-0637 (Tech Sup. - FE/ME)

GSPN: <http://gspn3.samsungcsportal.com/main.jsp>

PLUS ONE: <http://my.plus1solutions.net/clientPortals/samsung>

Production Date: 12/30/14 JW

TYPE		FRONT LOADING DRYER			
		Div	Inches (cm)	Div	Inches (cm)
DIMENSIONS	A. Height		43.86" (111.4)	C. Depth with door open 90°	49.80" (126.5)
	B. Width		27" (68.6)	D. Depth	29.96" (76.1)
WEIGHT	DV48H7400E(G)* DV45H7400E(G)* DV45H7200E(G)*	125.7 lb (57 kg)			
	DV45H7000E(G)*	121.3 lb (55 kg)			
HEATER RATING		5300 W (Elec.) 22000 BTU/hr (Gas)			

DUCTING REQUIREMENTS

- Use a 4-inch (10.2 cm) diameter rigid aluminum or rigid galvanized steel duct.
- Do not use a smaller duct.
- Ducts larger than 4 inches (10.2 cm) in diameter can cause increased lint accumulation. Lint accumulation should be cleaned regularly.
- If a flexible metal duct must be used, use the type with a stiff sheet metal wall. Do not use a flexible duct with a thin foil wall. Serious blockage can result if the flexible metal duct is bent too sharply.
- Never install any type of flexible duct in walls, ceilings, or other concealed spaces.
- Keep the exhaust duct as straight and short as possible.
- Secure joints with duct tape. Do not use screws.
- Plastic flexible duct can kink, sag, be punctured, reduce airflow, extend drying times, and affect dryer operation.
- Exhaust systems longer than recommended can extend drying times, affect machine operation, and may collect lint.
- The exhaust duct should end with an exhaust hood with a swing-out damper to prevent back drafts and the entry of wildlife. Never use an exhaust hood with a magnetic damper.
- The hood should have at least 12 inches (30.5 cm) of clearance between the bottom of the hood and the ground or other obstruction. The hood opening should point down.
- Never install a screen over the exhaust outlet.
- To avoid lint buildup, do not exhaust the dryer directly into a window well. Do not exhaust under a house or porch.
- If exhaust ductwork must run through an unheated area, the duct should be insulated and slope slightly down towards the exhaust hood to reduce condensation and lint buildup.
- Inspect and clean the interior of the exhaust system at least once a year. Unplug the power cord before cleaning.
- Check frequently to be sure the exhaust hood damper opens and closes freely.
- Check once per month, and clean at least one time per year. Note: If clothes are not getting dry, then check ducting for obstructions.
- Do not exhaust dryer into any wall, ceiling, crawl space, or concealed space of a building, gas vent, or any other common duct or chimney. This could create a fire hazard from lint expelled by the dryer.

FINAL INSTALLATION CHECK LIST

- ☐ The dryer is plugged into an electrical outlet and grounded properly.
- ☐ The exhaust ductwork is hooked up and the joints are taped.
- ☐ You have used rigid or stiff-walled flexible metal duct material, not plastic flexible duct.
- ☐ The dryer is level and is sitting firmly on the floor.
- ☐ For gas models: The gas is turned on and there are no gas leaks.
- ☐ Start your dryer to confirm that it runs, heats, and shuts off.

ELECTRIC AND GAS DRYER				
Weather Hood Type				
Recommended			Use only for short-run installation	
 4" (10.2 cm)			 2.5" (6.4 cm)	
No. of 90° elbows	Rigid	Metallic Flexible*	Rigid	Metallic Flexible*
0	80 ft. (24.4 m)	41 ft. (12.4 m)	74 ft. (22.6 m)	33 ft. (10.1 m)
1	68 ft. (20.7 m)	37 ft. (11.2 m)	62 ft. (18.9 m)	29 ft. (8.8 m)
2	57 ft. (17.4 m)	33 ft. (10.1 m)	51 ft. (15.5 m)	25 ft. (7.6 m)
3	47 ft. (14.3 m)	29 ft. (8.8 m)	41 ft. (12.5 m)	21 ft. (6.5 m)

* Do not use non-metallic flexible duct.

An occurrence of an Error will make a sound of error melody for 5sec and continuously show one of the Error Displays from the following errors.

Error Display	Trigger	Action Taken
tE	The Thermistor resistance is very low or high.	Check for : - Clogged lint screen. - Restricted vent system. - Check Thermistor resistance.
HE	Invalid heating Temp in running the dryer.	Check for : - Restricted vent system. - Check Thermistor resistance.
dE	Running the dryer with door open.	Check for : - Close the door, and run the dryer. - Loose or open wire terminals in Door Sense circuit.
dF	Invalid door.	Check for : - Loose or open wire terminals in Door Sense circuit.
bE2	Invalid state of key.	Check for : - Display PCB key circuit short or not.
FE	Invalid power source Frequency.	Check for : - Not using regular power source frequency. - Invalid power frequency sense circuit.
AE	Electronic Control Problem. (Communication Error)	Check for : - Check PCB and Wire harness. - Replace PCB.
EEE	Invalid state of EEPROM communication.	Check for : - PCB with Eeprom circuit.
9E1	Electronic control problem. (Over Voltage Error)	Check for : - Check PCB and Wire harness. - Check Power supply. - Replace PCB.

Service Mode

Definition of Service Mode :

- Dryer must be on before Service Mode can be entered.
- Upon entry into Service Mode, the Sensor Bar Touch Data will be shown (Default Service Mode).

How to Enter :

- To enter Service Mode, press Mixed Load Bell and Temp Keys for 3 seconds, until it sends out a beeping sound
- If pressing Mixed Load Bell + Temp Keys for 3 seconds in Service mode , it will return Normal mode.
- Even though entering Service mode, the operating cycle will not be influenced.

• Sensor Bar Touch Data Mode

Definition of Sensor Bar Touch Data Mode :

- This action will put the dryer into sensor bar touch data mode.
- Dryer will display Sensor Bar data. This mode is default mode of entering service mode

How to Enter :

- With Power On pressing Mixed Load Bell and Temp Keys for 3 seconds.

• Cycle Count Mode

Definition of Cycle Count Mode :

- This mode is to bring up the total number of cycles that User have carried out.

How to Enter :

- To enter cycle count mode press the Mixed Load Bell in Service Mode.

• Software Version Mode

Definition of Software Version Mode :

- It is to retrieve its software version.

How to Enter :

- At Service Mode, press Temp until it sends out a beeping sound.
ex) In case of "U0 05", U0 means major version "U0" 05 means minor version "05".
- If press Temp key In Software Version Mode, it will return Service Mode.

• Data Display Mode

Definition of Temperature Display Mode :

- Display Mode 0 : Temperature data(Celsius).
- Display Mode 1 : Average Touch Sensor data for 1 minute.
- Display Mode 2 : Average Temperature(Celsius) data for 1minute.

How to Enter :

- With Power On, press AdjustUp Key + AdjustDown Key for 7 seconds until it sends out a beeping sound.
- If not pressed any keys for 5 minutes, it will be set back from Data Display Mode.
- If pressing AdjustUp Key in this mode ,Display Mode ID will be increased.
- If pressing AdjustDown Key in this mode ,Display Mode ID will be decreased.

Converting °C → °F

Celsius(°C)	-30	-10	10	30	50	70
Fahrenheit(°F)	-22	14	50	86	122	158

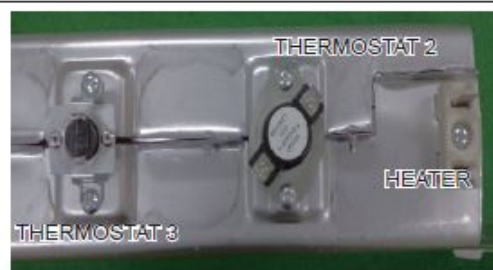
$$F = 9/5C + 32$$

● Component electrical testing (with ohmmeter)

- Thermistor resistance 10K Ω at 25°C 77°F
- Thermostat 1 resistance < 1 Ω



- Thermostat 3 resistance < 1 Ω
 - If resistance is infinity, replace thermostat 3.
- Thermostat 2 resistance < 1 Ω
 - If resistance is infinity, replace thermostat 2.
- Heater resistance 10 Ω
 - If resistance is infinity, replace Heater.



- Measure resistance of the following terminal

1. Door switch : Off
Terminal : "COM" - "NC" (1-3) < 1 Ω
Terminal : "COM" - "NO" (1-2) : ∞ Ω
2. Door switch : On
Terminal : "COM" - "NC" (1-3) : ∞ Ω
Terminal : "COM" - "NO" (1-2) < 1 Ω



- Belt Cut-off S/W
 - Lever open: Resistance value < 1 Ω
 - Lever push: Resistance value ∞ Ω



- Motor (Electronic & GAS)

Contacts (● : Contact closed)

Function	1M	2M	3M	5M	6M
Start			● — ●		
Run	● — ●			● — ●	

● Sensor Bars & temperature sensor check

Sensor Bars

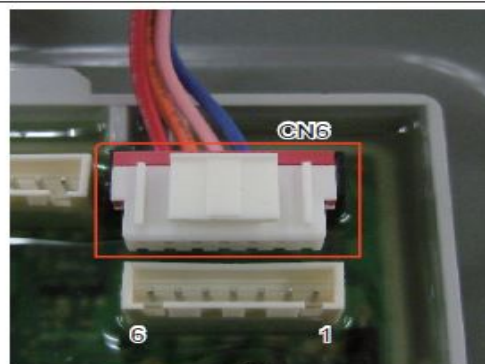
Disconnect harness and test Pink wire Pin 4 to Orange wire Pin 5.

- Approx $\infty\Omega$ without laundry
- Approx 190 Ω $\pm$ 10% with wet clothes

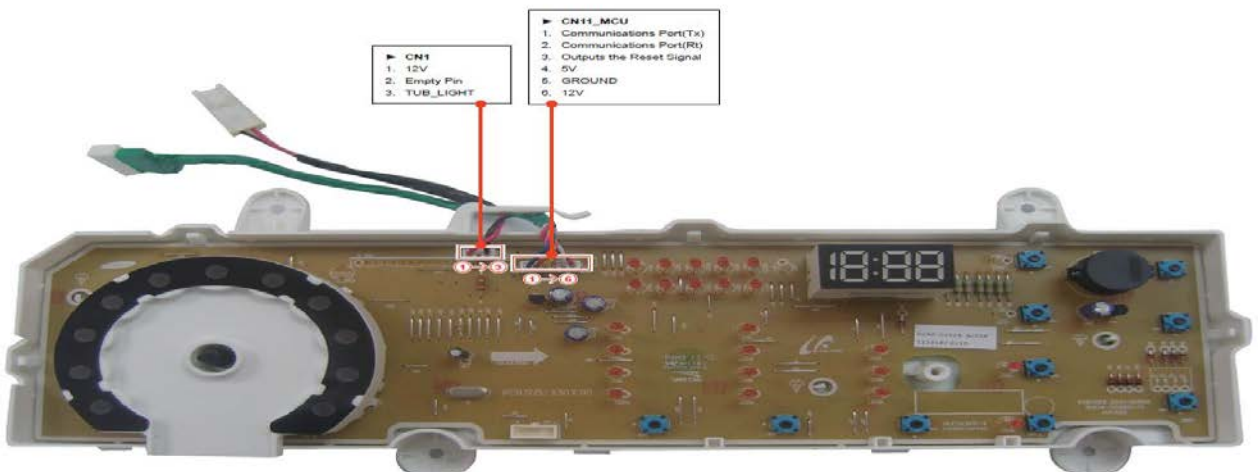
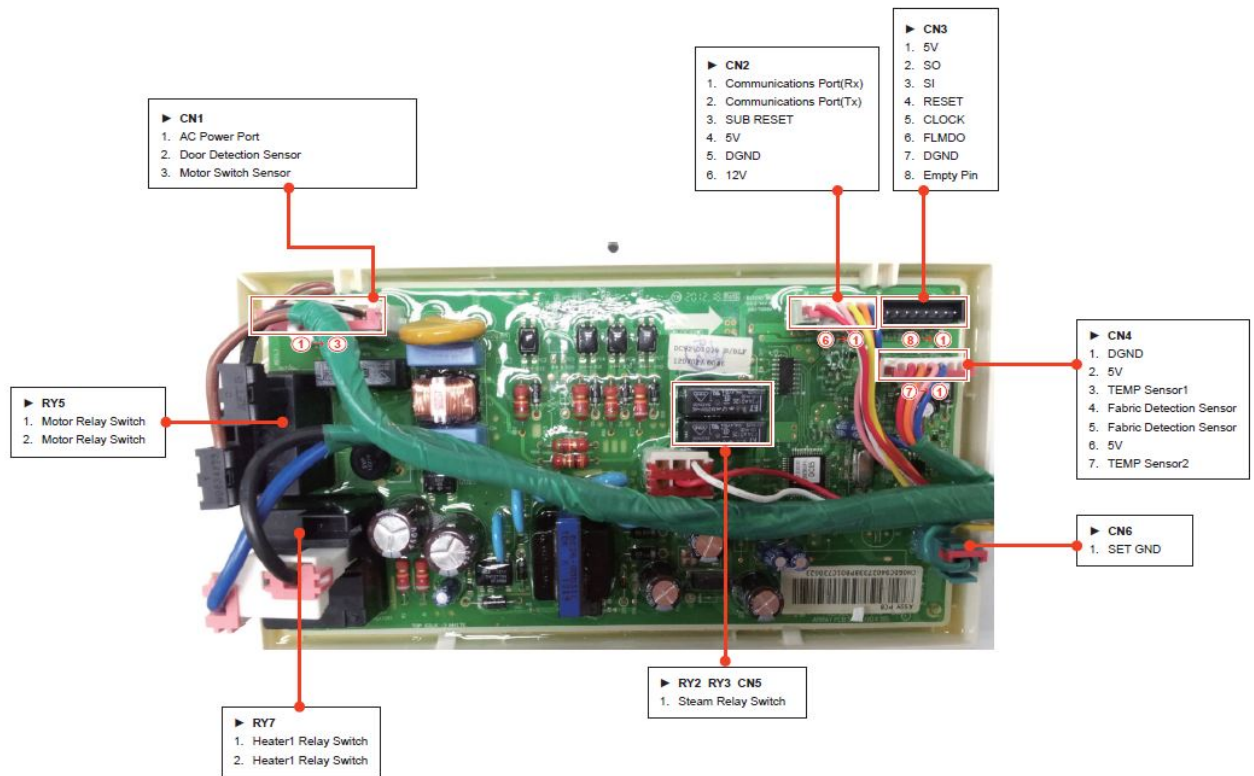
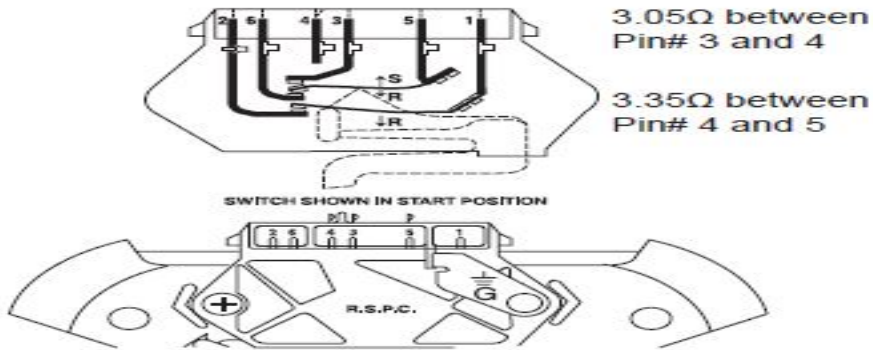
Cycling thermistor

Disconnect harness and test Blue wire Pin 3 to Red wire Pin 6.

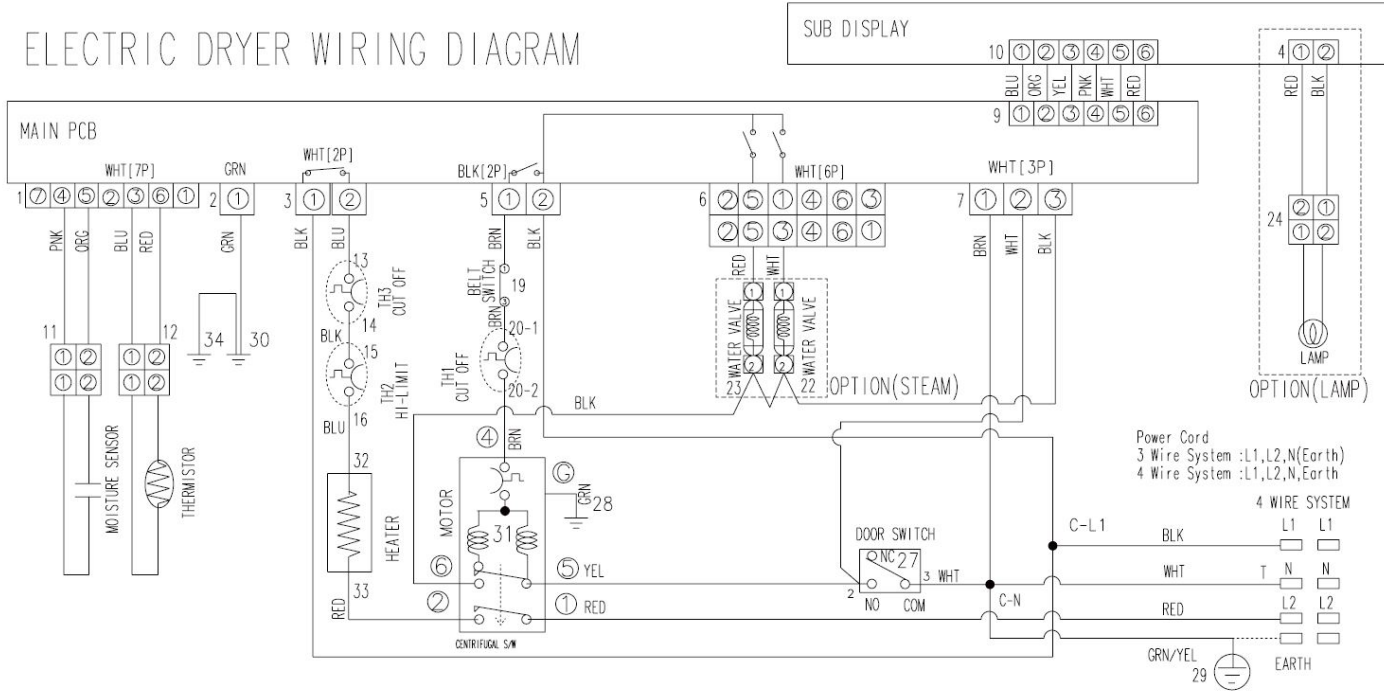
- Approx 10 K Ω at 25 °C/77 °F



● Centrifugal Switch (Motor)



ELECTRIC DRYER WIRING DIAGRAM



GAS DRYER WIRING DIAGRAM

