

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.

Publication #DR-DV50K8600 Production Date 6.3.16

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>

E-Learning: samsungasc.earlyconnect.com

MCP & E-Learning Support: **1-800-749-9421 – e-learning@sea.samsung.com**

• Data display mode :

How to enter:

- After turning on the dryer, press Dry Level → Time → Temp. → Time within 2 seconds to enter the display mode.
- To change the mode, use the cycle selector.

Display mode number					
1	Main micom version	2	Display micom version	3	Touch-sensitive module version
4	Option value	5	Temperature data	6	Average temperature data for 1 minute
7	Temperature data for detecting if the vent is clogged	8	Average touch sensor data for 1 minute	9	Cycle count

Information code Recall

Information code Recall mode reminds users of the last Information code that was detected.

To enter Information Code Recall mode, press and hold the model-specific buttons for 8 seconds as specified below:

DV50K8600E(G)* : Air Fluff + Adjust Time V

DV45K7600E(G)* / DV45K7100E* : Cycle 1 + Adjust Time V

In Information code Recall mode, the last Information code that was detected appears. If no Information code has been found, nothing is displayed.

• Smart Install

Smart Install allows service personnel to check if the dryer is installed properly.

To enter Smart Install

Turn on the dryer, and press and hold the model-specific buttons for 7 seconds as specified below:

DV50K8600E(G)* : Air Fluff + Mixed Load Bell

DV45K7600E(G)* / DV45K7100E* : Cycle 1 + Mixed Load Bell

A message of “AS” appears.

Step 1. Check the touch sensor

Enter Smart Install mode, and open the door. The state of the touch sensor appears.

- 0 : Touch sensor open

- 1 : Touch sensor short



Put a wet cloth on the touch sensor to display “1”. Removing the cloth displays “0”.

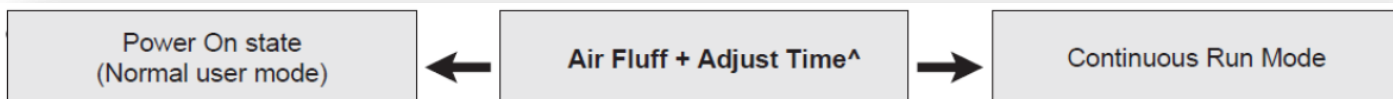
Step 2. Check the motor and heater

Press the Start button to enter the diagnosis mode. The diagnosis result appears.

- OK : Both motor and heater work normally

- HC : Motor or heater doesn't work normally

To exit Smart Install mode, turn off the dryer.



-Continuous Run Mode :

- 1. Press model-specific buttons for 7 sec during Power On State (Normal User Mode) .
- 2. Once in Continuous Run Mode, display "CC" for 1 sec and the number of Cycle for 1 sec and the remaining time for 1 sec in turns.
- 3. The previous cycle will restart during Continuous Run Mode until the mode is deactivated.
- 4 During Continuous Run Mode, press model-specific buttons for 7 seconds to return to normal user mode.
 DV50K8600* : Air Fluff + Adjust Time^
 DV45K7600* : Cycle 1 +Adjust Time^

-● Data display mode :

-How to enter:

- After turning on the dryer, press Dry Level → Time → Temp. → Time within 2 seconds to enter the display mode.
- To change the mode, use the cycle selector.

Display mode number					
1	Main micom version	2	Display micom version	3	Touch-sensitive module version
4	Option value	5	Temperature data	6	Average temperature data for 1 minute
7	Temperature data for detecting if the vent is clogged	8	Average touch sensor data for 1 minute	9	Cycle count

-Information code Recall

Information code Recall mode reminds users of the last Information code that was detected.

To enter Information Code Recall mode, press and hold the model-specific buttons for 8 seconds as specified below:

DV50K8600E(G)* : Air Fluff + Adjust Time V

DV45K7600E(G)* / DV45K7100E* : Cycle 1 + Adjust Time V

In Information code Recall mode, the last Information code that was detected appears. If no Information code has been found, nothing is displayed.

● Smart Install

Smart Install allows service personnel to check if the dryer is installed properly.

To enter Smart Install

Turn on the dryer, and press and hold the model-specific buttons for 7 seconds as specified below:

DV50K8600E(G)* : Air Fluff + Mixed Load Bell

DV45K7600E(G)* / DV45K7100E* : Cycle 1 + Mixed Load Bell

A message of "AS" appears.

Step 1. Check the touch sensor

Enter Smart Install mode, and open the door. The state of the touch sensor appears.

- 0 : Touch sensor open

- 1 : Touch sensor short

Put a wet cloth on the touch sensor to display "1". Removing the cloth displays "0".

Step 2. Check the motor and heater

Press the Start button to enter the diagnosis mode. The diagnosis result appears.

- OK : Both motor and heater work normally

- HC : Motor or heater doesn't work normally

To exit Smart Install mode, turn off the dryer.

Troubleshooting

Problem	SOLUTION
Doesn't run.	• Make sure the door is latched shut. • Be sure the power cord is plugged into a live electrical outlet. • Check the home's circuit breaker and fuses. • Press the Start/Pause button again if the door is opened during the cycle.
Doesn't heat.	• Check the home's circuit breaker and fuses. • Select a heat setting other than Air Fluff. • On a gas dryer, check that the gas supply is on. • Clean the lint filter and exhaust duct. • Dryer may have moved into the cool-down phase of the cycle.
Doesn't dry.	• Check all of the above, plus... • Be sure the exhaust hood outside the home can open and close freely. • Check exhaust system for lint buildup. Ducting should be inspected and cleaned annually. • Use a 4" rigid metal exhaust duct. • Do not overload. 1 wash load = 1 dryer load. • Sort heavy items from lightweight items. • Large, bulky items like blankets or comforters may require repositioning to ensure even drying. • Check that the dryer is draining properly to extract adequate water from the load. • Load may be too small to tumble properly. Add a few towels.
Is noisy.	• Check the load for objects such as coins, loose buttons, nails, etc. Remove promptly. • It is normal to hear the dryer gas valve or heating element cycle on and off during the drying cycle. • Be sure the dryer is leveled properly as outlined in the installation instruction. • It is normal for the dryer to hum due to the high velocity of air moving through the dryer drum and exhaust system.
Dries unevenly.	• Seams, pockets, and other similarly heavy areas may not be completely dry when the rest of the load has reached the selected dryness level. This is normal. Select the Very Dry setting if desired. • If one heavy item is dried with a lightweight load, such as one towel with sheets, it is possible that the heavy item will not be completely dry when the rest of the load has reached the selected dryness level. Sort heavy items from lightweight items for best drying results.
Has an odor.	• Household odors from painting, varnishing, strong cleaners, etc. may enter the dryer with the surrounding room air. This is normal as the dryer draws the air from the room, heats it, pulls it through the tumbler, and exhausts it outside. • When these odors linger in the air, ventilate the room completely before using the dryer.

Shuts off before load is dry.	• Dryer load is too small. Add more items or a few towels and restart the cycle. • Dryer load is too large. Remove some items and restart the dryer.
Lint on clothes.	• Make sure the lint filter is cleaned before every load. With some loads that produce high amounts of lint, it may be necessary to clean the filter during the cycle. • Some fabrics are lint producers (for example, a fuzzy white cotton towel) and they should be dried separately from clothes that are lint trappers (for example, a pair of lack linen pants) • Divide larger loads into smaller loads for drying • Check pockets thoroughly before washing and drying clothes.
Garments still wrinkled after Wrinkle-Care	• Small loads of 1 to 4 items work best. • Load fewer garments. Load similar-type garments.
Odors remain in clothing after Refresh.	• Fabrics containing strong odors should be washed in a normal cycle.
Water drips from nozzle when Steam-Care starts	• This is steam condensation. The dripping water will stop after a short time.
Sprayed water is not visible during Steam-Care	• Sprayed water is difficult to see when the door is closed.

Error Display	Trigger	Action Taken
tC	The Thermister resistance is very low or high.	Check for: - Clogged lint screen. - Restricted vent system. - Check Thermister resistance.
HC	Invalid heating Temp in running the dryer	Check for: - Restricted vent system. - Check Thermister resistance.
dC	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 state for more than 256 milliseconds	Check for: - Loose or open wire terminals in Door Sense circuit.

bC2	Invalid state of key circuit short for 30 sec.	Check for: - Display PCB key circuit short or not.
FC	Invalid power source Frequency	Check for: - Not using regular power source frequency - Invalid power frequency sense circuit
AC	Electronic Control Problem (communication Error)	Check for: - Check PCB and Wire harness.- Replace PCB.
HC	Invalid state of Eeprom communication	Check for : - PCB with Eprom circuit.

Heating on Gas Dryer



- Valve Pin 1-2: Resistance value 1.2K ohm
- Valve Pin 1-3: Resistance value 0.5K ohm
- Valve Pin 4-5: Resistance value 1.2K ohm
- Valve Pin 2-3: Resistance value 1.9K ohm

• If resistance is infinity (OL). Replace valve

If you hear noise coming from the gas valve do not try and fix the valve replace the whole valve



1 2 3 4 5

Check across terminals #6 and #7(2-stage Coil) 1000Ω



Igniter mounts on the Burner Ass'y

Resistance 40 to 400 ohms = Good

OL= NO Good



Flame Radiant Sensor

is mounted on the Duct Ass'y

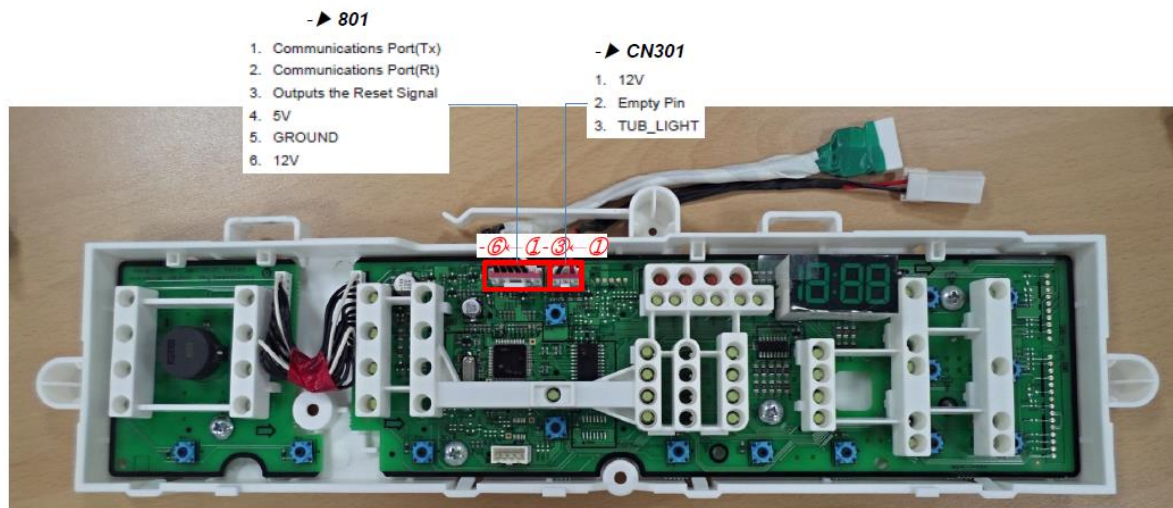
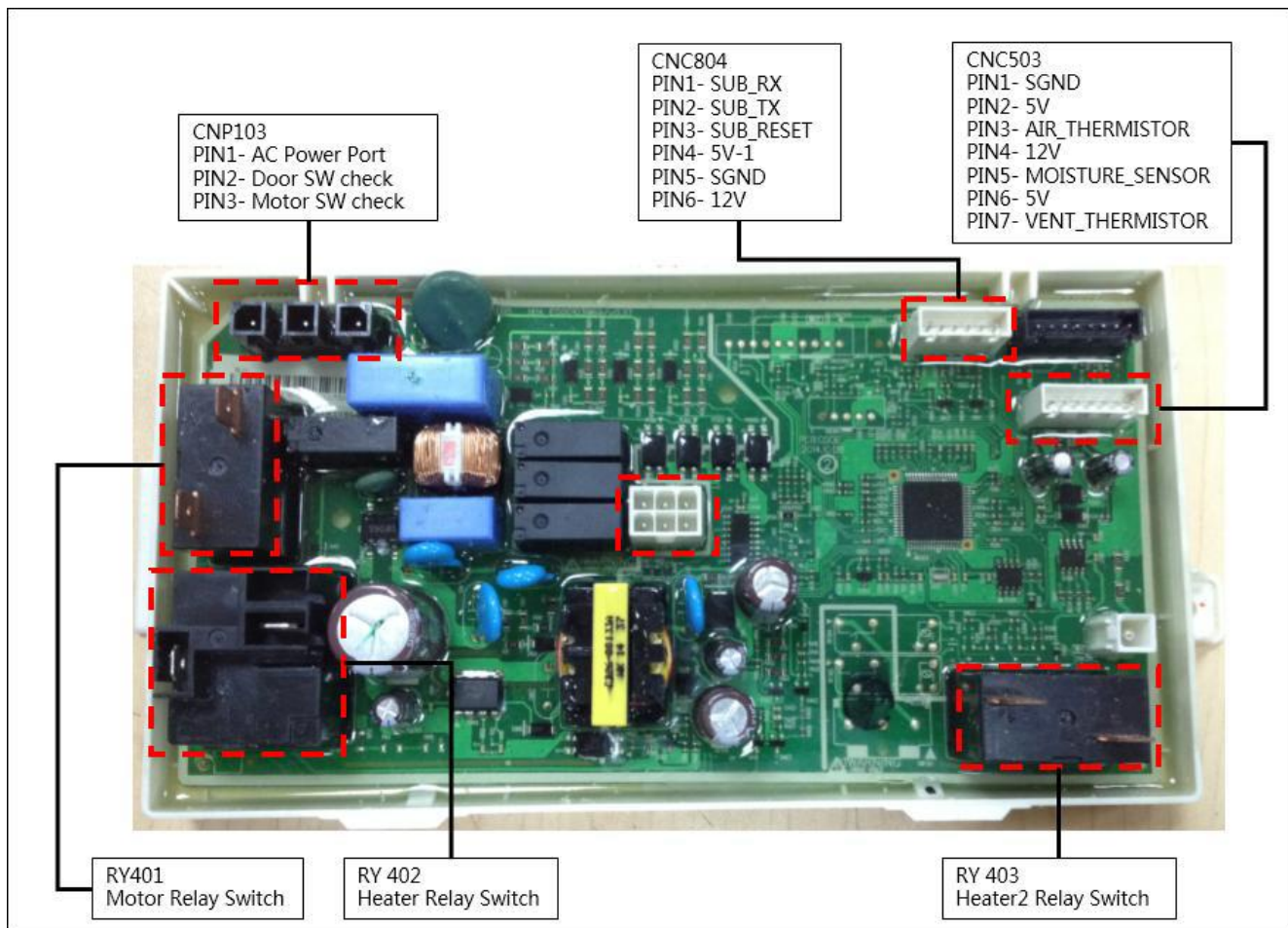


High Limit Thermostat

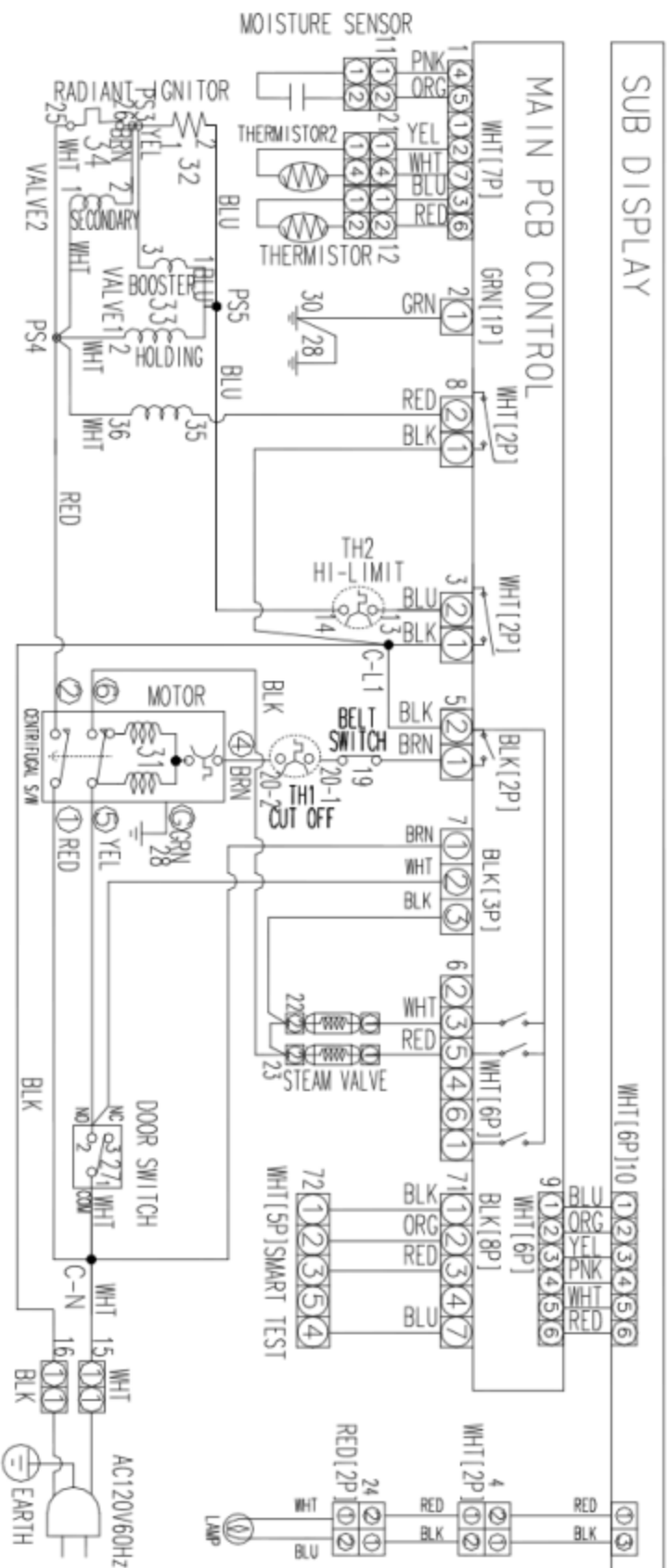
1 ohm = Good

OL= NO Good





SUB DISPLAY



GAS Dryer