

SAMSUNG

CLOTHES DRYER

PROJECT NAME : DV7000A

MODEL CODE : DVE55A7300E/A3 DVE55A7300V/A3
DVE55A7700V/A3 DVE52A5500C/A3
DVE52A5500V/A3 DVE52A5500W/A3
DVG55A7300E/A3 DVG55A7300V/A3
DVG55A7700V/A3 DVG52A5500C/A3
DVG52A5500V/A3 DVG52A5500W/A3

MODEL NAME : DVE55A7300E DVE55A7300V
DVE55A7700V DVE52A5500C
DVE52A5500V DVE52A5500W
DVG55A7300E DVG55A7300V
DVG55A7700V DVG52A5500C
DVG52A5500V DVG52A5500W

SERVICE Manual

CLOTHES DRYER



DVE55A7300E/A3

CONTENTS

1. Safety Instructions
2. Features and Specifications
3. Disassembly and Reassembly
4. Troubleshooting
5. PCB diagram
6. Wiring diagram
7. Reference

CONTENTS

1. Safety Instructions	3
1-1. Caution for safety during servicing	3
1-2. Important safety information	4
2. Features and Specifications	6
2-1. Concept	6
2-2. Product Dimension	7
2-3. Specification	8
2-4. Options specifications	9
2-5. Control Panel	10
2-6. Cycle Overview	12
3. Disassembly and Reassembly	13
3-1. Tools for disassembly and reassembly	13
3-2. Standard disassembly drawings	14
4. Troubleshooting	22
4-1. Error items and Diagnostic Codes	22
4-2. Special features	23
4-3. Troubleshooting	27
4-4. Component Testing Procedures	29
5. PCB Diagram	32
5-1. Main PBA Layout (The Principle Part)	32
5-2. Connector & Relay Terminal Description (Main PBA) – DVE(G)55A7***	33
5-3. Connector & Relay Terminal Description (Main PBA) – DVE(G)52A5500*	34
5-4. Sub PBA Layout (The Principle Part)	35
5-5. Connector & Relay Terminal Description (Sub PBA)	36
6. Wiring Diagram	37
6-1. Wiring diagram (Elec Models : DVE55A7***).	37
6-2. Wiring diagram (Elec Models : DVE52A5500*)	38
6-3. Wiring diagram (Gas Models)	39
7. Reference	40
7-1. Nomenclature	40
7-2. Q & A	41

1. SAFETY INSTRUCTIONS

1-1. CAUTION FOR SAFETY DURING SERVICING

1. Do not allow the customer to repair the product.
 - ✓ The person may be injured or the product life may be shortened.
2. Execute service after unplugging the power supply unit.
 - ✓ Be careful of the electric shocks.
3. Do not plug several plugs in the same outlet.
 - ✓ It may cause a fire due to overheat.
4. Check for damage, pinching or burning of the power plug the outlet.
 - ✓ Replace it promptly if it has a problem.(It may cause the electric shocks or fire)
5. Do not clean the main body with water.
 - ✓ It may cause electric shocks and fire and shorten the product life.
6. The wiring harness shall be free from moisture and tightened during serving.
 - ✓ It shall not be deviated by certain impact.
7. Remove any dust or dirt on the housing section,wiring section,connection section during servicing.
 - ✓ Protect from possible cause of fire such as the tracking,shortage etc.
8. Check for any marks of moisture on the electrical parts, harness section etc.
 - ✓ Replace the parts or remove the moisture.
9. Check the assembly status of the parts after servicing.
 - ✓ Maintain the status before servicing.
10. Pull out the power cord by holding the plug.
 - ✓ Be careful of electric shocks and when the cord is damaged.
11. Unplug the power plug from the outlet when the dryer is not used.
 - ✓ Be careful of electric shocks and fire due to the strike of lightning.
12. Do not use or store sprays or flammable materials(including gasoline,alcohol etc.) around the dryer.
 - ✓ Be careful of explosions or fire due to electric sparks.
13. Do not put bowls of water or wet laundry on the dryer.
 - ✓ If water has penetrated into the dryer, this may cause electric shocks or fire.
14. Do not install the dryer outside exposed to moisture.
 - ✓ It may cause electric shocks and fire and shorten the product life.
15. Do not push the control buttons with an awl,pin, or sharp materials.
 - ✓ It may cause electric shocks and damage.
16. Check the dryer is leveled horizontally and installed properly on the floor.
 - ✓ The vibration may shorten the product life.
17. Operate time dry for 20 minutes after service and check wheter HE error occurs or not.
 - When HC error occurs, check the terminal wiring of compressor.
 - ✓ It may cause desorption phenomenon of the pin for the wiring of compressor.

1-2. IMPORTANT SAFETY INFORMATION

To avoid risk of fire, electric shock, serious injury, when using your dryer, follow these basic precautions:

1. Read all instructions before using the dryer.
2. Install dryer according to Installation Instructions. Refer to the Grounding Instructions in the Installation Instructions for proper grounding of the dryer.
3. Do not dry articles that have been cleaned in, washed in, soaked in, or spotted with gasoline, drycleaning solvents, or other flammable or explosive substances. Vapors could ignite or explode.
4. Do not use the 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 the fabric to catch fire by itself.
5. Do not store or use gasoline or other flammable vapors and liquids near this or any other appliance.
6. Do not allow children to play on or in dryer. Close supervision of children is necessary when the dryer is used near children, a safety rule for all appliances.
7. Before the dryer is removed for service or is discarded, remove doors to drying compartment.
8. Do not reach into the dryer if cylinder is rotating.
9. Do not install or store the dryer where it will be exposed to water and/or weather.
10. Do not tamper with dryer controls.
11. Do not repair or replace any part of the dryer or attempt any service, unless specifically recommended in user-maintenance instructions or in published user-repair instructions that you understand and have skills to carry out, if you are a consumer.
12. To reduce risk of electric shock or fire, do not use extension cords or adapters to connect the dryer to electrical power source.
13. Use the dryer only for its intended purpose, drying clothes.
14. Always disconnect the dryer from electrical supply before attempting any service. Disconnect the power cord by holding the plug, not the cord.
15. Do not use heat to dry articles containing foam rubber or similarly textured rubberlike materials.
16. Always clean the lint filter after every load. A layer of lint in the filter reduces drying efficiency and pro longs drying time.
17. Use only fabric softeners or products to eliminate static that are appropriate for automatic dryers.
18. Keep your dryer in good condition. Bumping or dropping the dryer can damage safety features. If damage occurs, have the dryer checked by a qualified service technician.
19. Replace worn power cords and/or loose plugs.
20. Do not tumble fiberglass curtains and draperies unless the label says it can be done. If they are dried, wipe out the cylinder with a damp cloth to remove particles of fiberglass.
21. Always read and follow manufacturers instructions on packages for laundry aids. Heed all warnings or precautions. To reduce risk of poisoning or chemical burns, keep products away from children at all times, preferably, in a locked cabinet.

-
22. Never operate the dryer with the guards and/or the panels removed.
 23. Do not operate the dryer with missing or broken parts.
 24. Do not bypass safety devices.
 25. Keep area around the exhaust opening and adjacent surrounding areas free from accumulation of lint, dust, and dirt.
 26. Interior of dryer and exhaust duct should be cleaned periodically by qualified service personnel.
 27. The dryer will not operate with loading door open. DO NOT bypass the door safety switch by permitting the dryer to operate with door open. The dryer will stop tumbling when the door is opened. Do not use the dryer if it does not stop tumbling when door is opened or starts tumbling without pressing or turning the START mechanism. Stop using the dryer and contact a qualified service technician.
 28. Remove laundry immediately after the dryer stops.
 29. ALWAYS follow the fabric care instructions supplied by the garment manufacturer.

■ Electrical service information



WARNING

To avoid risk of personal injury or death due to electrical shock:

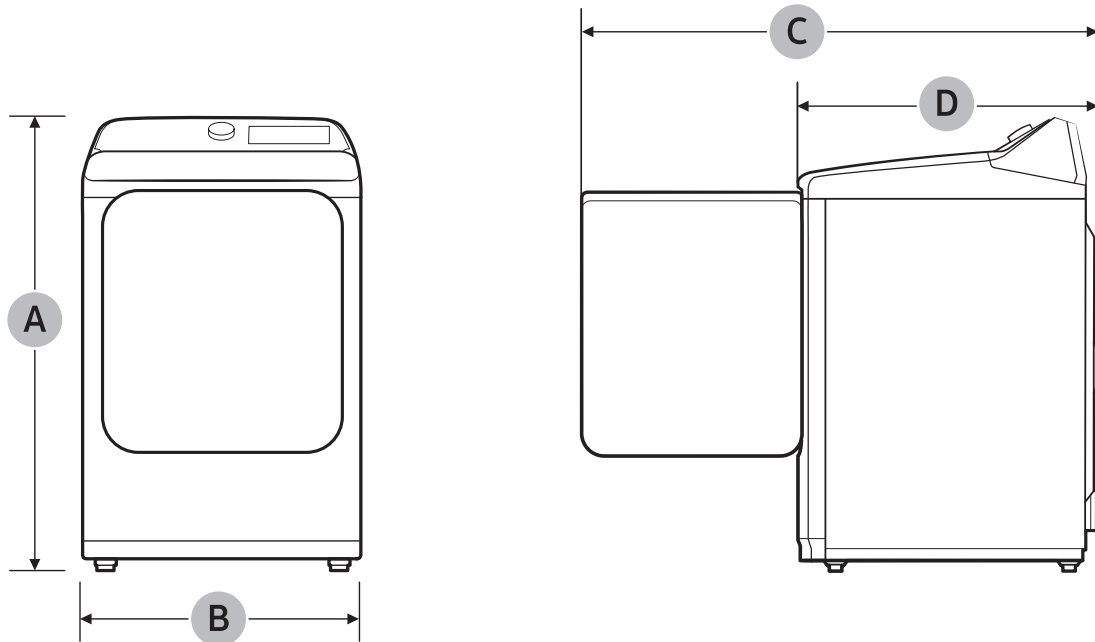
- Observe all local codes and ordinances.
- Disconnect the electrical power to the unit before servicing.
- Ground the appliance properly.
- Check with a qualified electrician if you are not sure this appliance is properly grounded.
- DO NOT ground to a cold water pipe if pipe is interrupted by plastic, nonmetallic gaskets, or other insulating (nonconducting) materials.
- DO NOT modify the plug on the power cord. If plug does not fit electrical outlet, have proper outlet installed by qualified electrician.
- DO NOT have a fuse in the neutral or ground circuit. A fuse in the neutral or ground circuit could result in an electrical shock.
- DO NOT use an extension cord with this appliance.
- DO NOT use an adapter plug with this appliance.
- DO NOT pinch the power cord.

2. FEATURES AND SPECIFICATIONS

2-1. CONCEPT

- ▶ Delicate Dry (Low Temperature dry)
- ▶ Smart Care
- ▶ Steam Sanitize+
- ▶ Various Drying Cycles & Fuzzy Logic Algorithm
- ▶ Time Saving
- ▶ Easy Reversible Door
- ▶ 4-way Vent(Elec model only)

2-2. PRODUCT DIMENSION

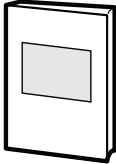




Type			Front Loading Dryer	
Model			DVE(G)55A7***	DVE(G)52A5***
Dimensions	A. Height	Product-inches(mm)	45.8(1163)	44.6(1134)
	B. Width	Product-inches(mm)	27.0 (686)	
	C. Depth with door open 90°	Product-inches(mm)	50.1(1273)	
	D. Depth	Product-inches(mm)	30.2(768)	
Water pressure-psl (kPa)			20 - 116 (137 - 800)	
NET weight		lb (kg)	119.0(54)	
Heater Rating		Electric (W)	5300	
		Gas (BTU/hr)	20000	
Power consumption(W)			5400	

2-3. SPECIFICATION

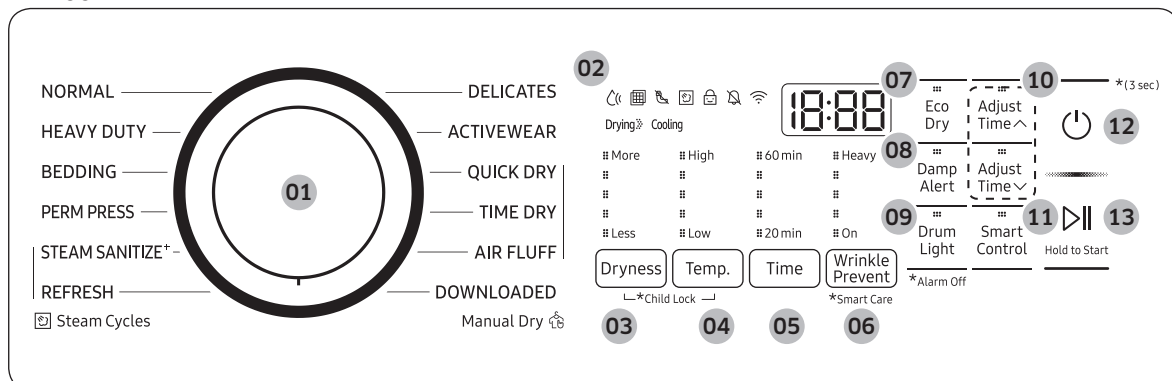
	Project	DV7600R	DV7000A		
	Model	DVE(G)50M7450*	DVE(G)55A7700*	DVE(G)55A7300*	DVE(G)52A5500*
USP & Features	Capacity (cu.ft / DOE)	7.4	7.4	7.4	7.4
	Power Resource	Electric / Gas	Electric / Gas	Electric / Gas	Electric / Gas
	Vent Sensor	Y	Y	Y	-
	Vent Blockage Test	Y	Y	Y	Y
	Steam	Y	Y	Y	Y
	Smart Control	-	Y	Y	Y
	Smart Care	Y	Y	Y	Y
	Clean Guard	-	Y	Y	Y
	Drum Material	Stainless Steel	Stainless Steel	Stainless Steel	Powder coat (Gray)
	E-Star	Y	Y	Y	-
	Reversible Door	Y	Y	Y	Y
	Drying Rack	Y	Y	-	-
	Filter Check Indicator	Y	Y	Y	Y
	Vent Exhaust (Electric / Gas)	4 Way / 3 Way	4 Way / 3 Way	4 Way / 3 Way	4 Way / 3 Way
	Heating Element (KW)	5300W / 20,000 BTU /Hr	5300W / 20,000 BTU /Hr	5300W / 20,000 BTU /Hr	5300W / 20,000 BTU /Hr
	Cycle Time (AHAM 8lbs) *() - Gas model / Elec. Eco Dry off	75(42) min	75(39) min	75(39) min	39 min
Design	Control panel	Jog + In-Mold	Jog(Rose Gold) + In-Mold	Jog(Rose Gold) + In-Mold	Jog + In-Mold
		Touch	Touch	Touch	Touch
	Main display	18:88 G.LED	18:88 G.LED	18:88 G.LED	18:88 G.LED
	LED color	Ice Blue	Ice Blue	Ice Blue	Ice Blue
	Chrome Deco (Door)	-	Rose Gold	Rose Gold	-
	Door	Transparent	Transparent	Transparent	Transparent
ENERGY & Performance	DOE Combined Energy Factor (CEF, lb/kWh, Appendix D1/D2)	3.93 (lb/kWh)-Elec 3.48 (lb/kWh)-Gas	3.93 (lb/kWh)-Elec 3.48 (lb/kWh)-Gas	3.93 (lb/kWh)-Elec 3.48 (lb/kWh)-Gas	3.73 (lb/kWh)-Elec 3.3 (lb/kWh)-Gas
	Voltage / Frequency	120V/ 240V / 60Hz (Elec)	120V/ 240V / 60Hz (Elec)	120V/ 240V / 60Hz (Elec)	120V/ 240V / 60Hz (Elec)
		120V / 60Hz (Gas)	120V / 60Hz (Gas)	120V / 60Hz (Gas)	120V / 60Hz (Gas)
	Energy Guide (kWh/cycle // Liter/cycle)	Electric - 2.15 Kwh Gas - 215 liter ↓	Electric - 2.15 Kwh Gas - 215 liter ↓	Electric - 2.15 Kwh Gas - 215 liter ↓	Electric - 2.4 Kwh Gas - 270 liter ↓
	Yearly Energy Consumption(kWh/year)	608 kWh/year (Elec)	608 kWh/year (Elec)	608 kWh/year (Elec)	644 kWh/year (Elec)

2-4. OPTIONS SPECIFICATIONS

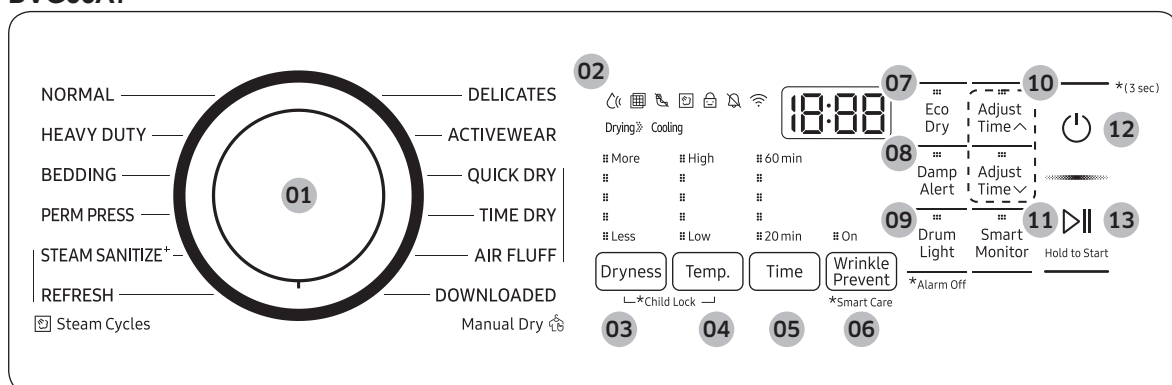
Item		Code	QTY	Remarks
	MANUAL-BOOK	DC68-03784S	1	Default
	Y connector	DC67-00324A	1	
	Short Water Hose	DC97-15249A	1	

2-5. CONTROL PANEL

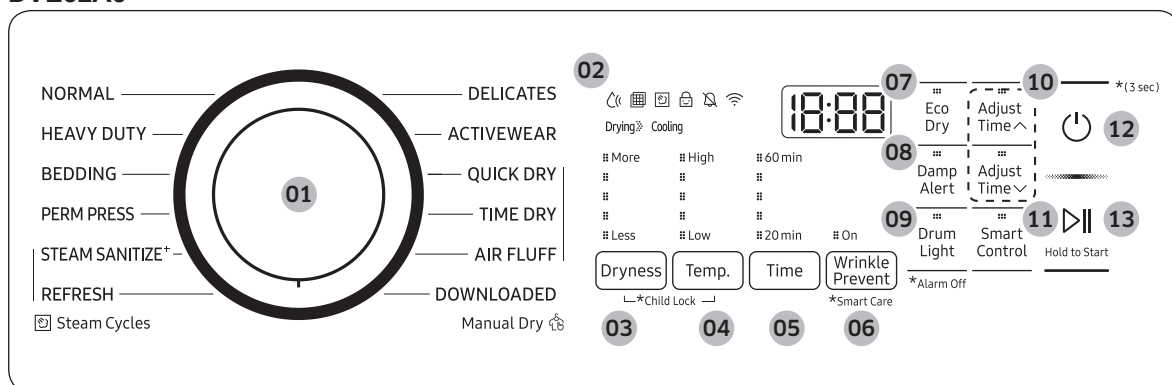
► DVE55A7****



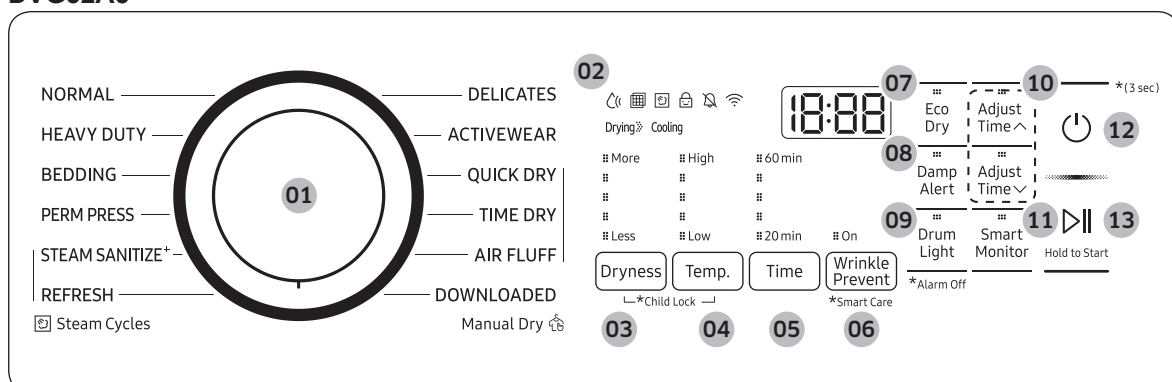
► DVG55A7****

























► DVE52A5****



► DVG52A5****



01 Cycle Selector	<p>Turn the Cycle Selector to select the desired cycle. The indicator by the cycle name lights up.</p> <ul style="list-style-type: none">• Steam Cycles : The dryer sprays water into the drum to deodorize clothes and reduce static electricity and wrinkles.• Manual Dry : The drying time is fixed.														
02 Digital Graphic Display	<p>Displays all cycle information, including the cycle time, information code, and operating status. (Vent Sensor : DVE(G)7*** model only)</p> <table><tr><td></td><td>Sensor Dry</td><td></td><td>Filter Check</td><td></td><td>Vent Sensor</td><td></td><td>Steam</td><td></td><td>Child Lock</td><td></td><td>Alarm Off</td><td></td><td>Wi-Fi</td></tr></table>		Sensor Dry		Filter Check		Vent Sensor		Steam		Child Lock		Alarm Off		Wi-Fi
	Sensor Dry		Filter Check		Vent Sensor		Steam		Child Lock		Alarm Off		Wi-Fi		
03 Dryness	<p>Press to select a dry level. You can select from 5 different options (Less to More). Please refer to following recommendations to select the appropriate dryness.</p> <ul style="list-style-type: none">• For larger or bulkier loads, select More for complete dryness.• For items that needs to lay flat or hang to dry, use Less to partially dry items. <p> NOTE This option is not available with REFRESH, STEAM SANITIZE+, ACTIVEWEAR, TIME DRY, QUICK DRY, and AIR FLUFF.</p>														
04 Temp.	<p>Temperature can only be adjusted in TIME DRY cycle.</p> <p>Press to change the temperature of the current cycle. You can select from 5 different options (Low to High). Please select the appropriate temperature depending on the item</p> <ul style="list-style-type: none">• High: For sturdy cottons or those labeled Tumble Dry.• Medium: For permanent press, synthetics, lightweight cottons, or items labeled Tumble Dry Medium.• Low: For heat sensitive items labeled Tumble Dry Low or Tumble Dry Warm. Provides the lowest heated drying temperature possible.														
05 Time	<p>Press to adjust the drying time for the Manual Dry cycles. This is not available with the Sensor Dry cycles because the dryer determines the drying time by sensing the current moisture level of the load.</p>														
06 Wrinkle Prevent	<p>Wrinkle Prevent provides approximately 180 minutes of intermittent tumbling in unheated air at the end of the cycle to reduce wrinkling. Press Wrinkle Prevent to activate this feature. The load is dry and can be removed at any time during the Wrinkle Prevent cycle.</p>														
07 Eco Dry	<p>This function is available with NORMAL and TIME DRY. With the Eco Dry activated, drying takes a longer time but power consumption is reduced.</p> <p>The drying time can be extended by up to 3 times normal depending on the temperature and load. The Eco Dry function is enabled by default.</p>														
08 Damp Alert	<p>This alert is available for all Sensor Dry cycles except for ACTIVEWEAR. Available dry levels are Normal, More, and Extra.</p> <p>If a load contains mixed fabrics, the Damp Alert indicator blinks when average dryness of the item is 80 % dry. This lets you take items that you don't want fully dried or that dry quickly out of the dryer early while letting others continue to dry.</p>														
09 Drum Light	<p>Press to turn on or off the interior lamp. The lamp stays lit for 2 minutes after it has turned on, regardless of whether the power is on or off or the door is open or closed, and then turns off automatically.</p>														
10 Adjust Time	<p>You can change the set time in the Manual Dry cycles (QUICK DRY, TIME DRY, and AIR FLUFF)</p> <p>To change the cycle time, press \wedge or \vee until the desired time is displayed.</p>														
11 Smart Control (Smart Monitor for DVG*** model)	<p>After connecting the Tumble Dryer to your home network using the SmartThings app, you can control or monitor the dryer remotely. When started, the Smart Control (Smart Monitor) indicator blinks. The dryer enters waiting mode and waits for remote commands.</p>														
12 Power	<p>Press to turn on/turn off the dryer.</p>														
13 Start/Pause (Hold to Start)	<p>Press and hold to start operation or press to stop operation.</p>														

2-6. CYCLE OVERVIEW

Cycle	Description
NORMAL	For most fabrics including cottons and linens. If Normal is selected, the Eco Dry function is enabled by default. For more information, see Eco Dry in the “ Control panel ” section.
HEAVY DUTY	For drying items made out of heavy fabrics, such as jeans, corduroys, or work clothes, with high temperature heat.
BEDDING	For bulky items such as blankets, sheets, and comforters.
PERM PRESS	Dry wrinkle-free cottons, synthetic fabrics, knits, and permanent press fabrics automatically.
DELICATES	For heat-sensitive items at a low drying temperature.
ACTIVEWEAR	For exercise wear and outdoor wear such as sports jerseys, training pants, water-repellent jackets, and other performance clothing. Thick fabrics like a zipper or velcro closure of a jacket, or training socks may not be completely dried.
DOWNLOADED	Select to choose from more cycles available on the SmartThings app on your smartphone. Available cycles : ECO NORMAL, SHIRTS, DENIM, TOWELS, RACK DRY, WRINKLE AWAY Factory setting : WRINKLE AWAY

- Manual Dry

You can change the drying settings manually to your preference.

Cycle	Description
QUICK DRY	A quick drying cycle running for 30 minutes. The default cycle time is 30 minutes. However, you may manually change the cycle time if necessary.
TIME DRY	You can specify a cycle time in minutes. If TIME DRY is selected, the Eco Dry function is enabled by default. For more information, see Eco Dry in the “ Control panel ” section.
AIR FLUFF	Tumbles the load in room temperature air.

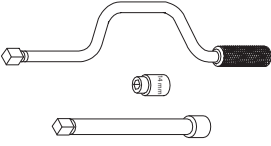

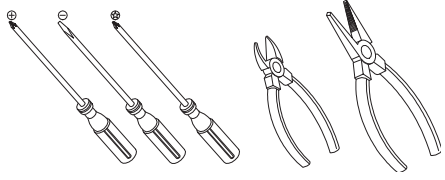

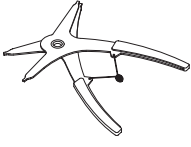
- Steam Cycles

Use steam to reduce wrinkling and odors on items.

Cycle	Description
STEAM SANITIZE*	Use to sanitize items by applying steam and high-temperature heat to the fabric. This cycle can make items soft and reduce smells. Confirm that the laundry load is wet or partially wet before starting this cycle.
REFRESH	Use to smooth out wrinkles and reduce odors in loads of one to four items. With this cycle selected, a small amount of water is sprayed into the dryer drum after several minutes of tumbling with heat. Before removing the laundry, confirm that the laundry load is dry.

3. DISASSEMBLY AND REASSEMBLY


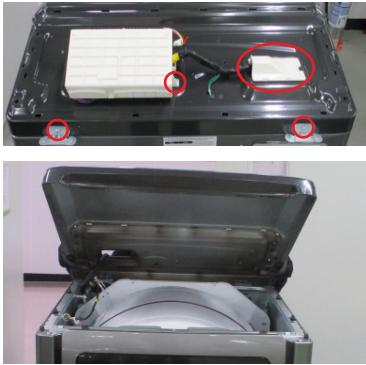
3-1. TOOLS FOR DISASSEMBLY AND REASSEMBLY

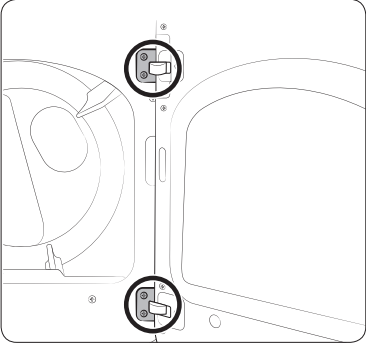
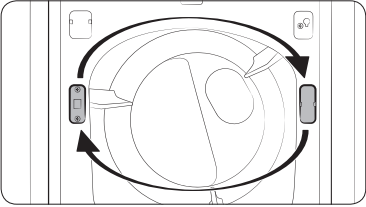
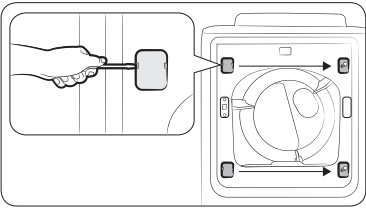
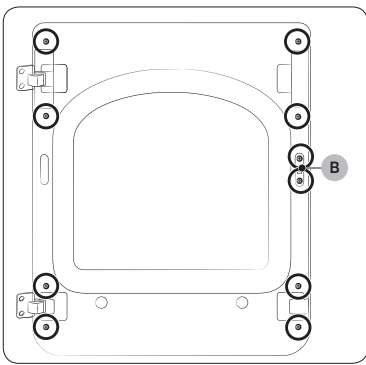
Tool	Type	Remarks
	14 mm	Fan (2)
	Vice pliers	Tool to protect the idle and abrasion of the bolt for the box driver.
	Other (Driver, Diagonal Cutter, Long Nose Pliers)	General tools for the after service.
	Jig	The tool for disassembling the fan on the back.
	C-Ring Jig	Ease insertion and separation of C-Ring.

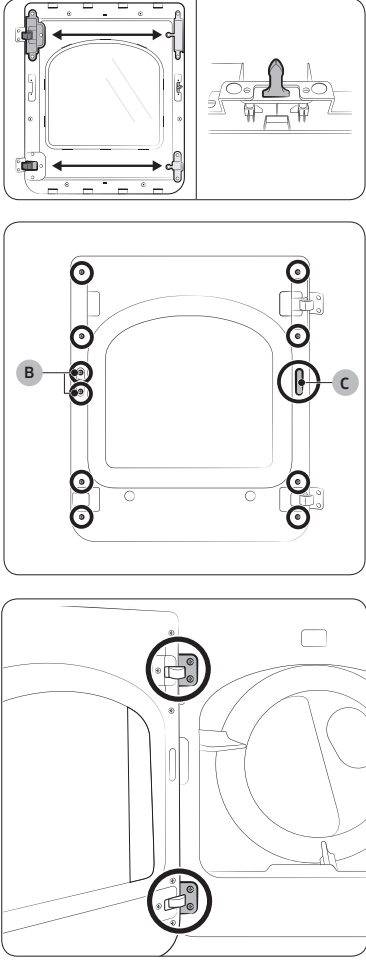

3-2. STANDARD DISASSEMBLY DRAWINGS


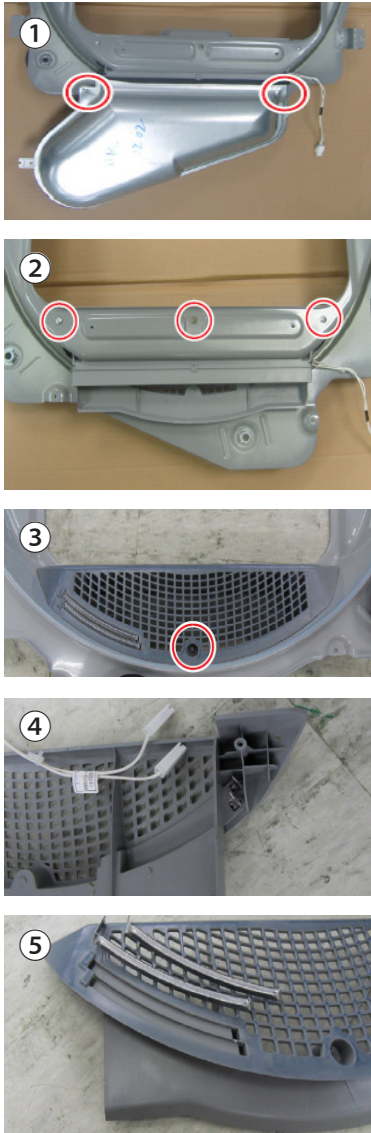
⚠ To avoid risk of electrical shock, personal injury or death, disconnect the power to the Clothes Dryer.

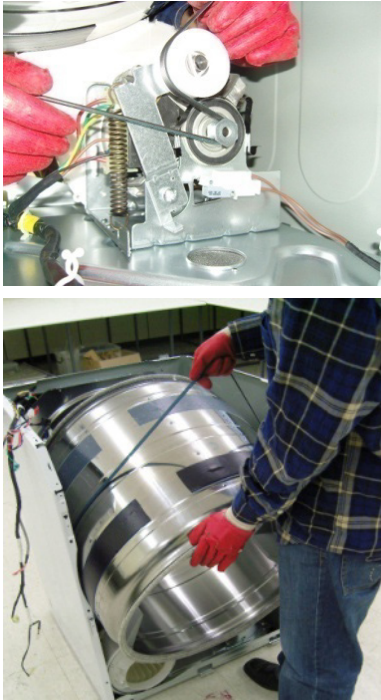

- This is a standard disassembly diagram and may differ from the actual product.
Use this material as a reference when disassembling and reassembling the product.

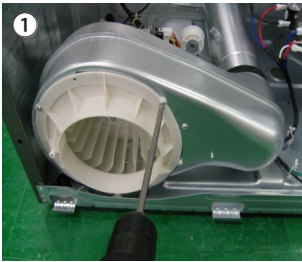
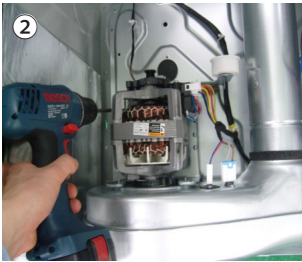
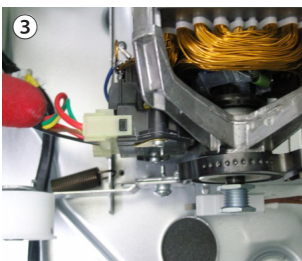

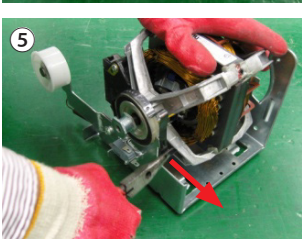

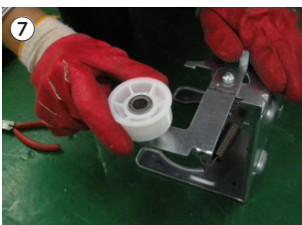
Part Name	Figure	Description
Control Panel		<ol style="list-style-type: none">1. Unplug the unit.2. Remove 2 screws from the Cover Panel.3. Unplug 2 connectors from the housing.4. Remove the Control Panel.
Cover Top		<ol style="list-style-type: none">1. Unplug the unit.2. Remove the Control Panel.3. Remove 1 screw from the Cover PCB.4. Remove the housings.5. Remove the Cap-Cover Top and 2 screws from the Bracket Cover Top.6. Slide the Cover Top towards the front and lift from the unit. <p>⚠ Scratch and impact to the Cover Top is prohibited.</p>

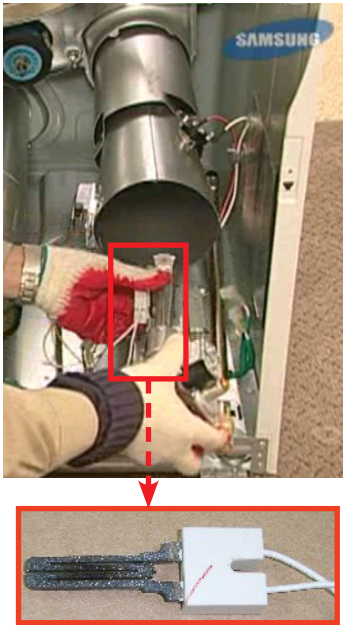
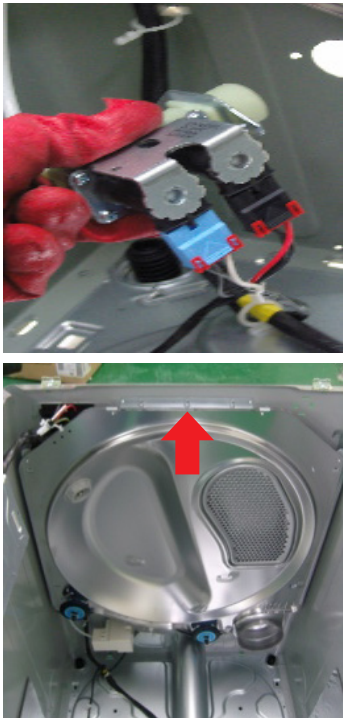
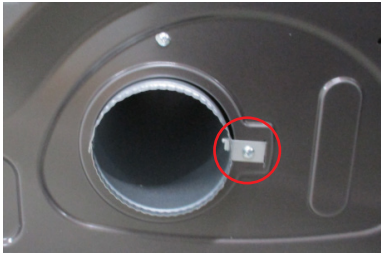
Part Name	Figure	Description
Door Reversal		<ol style="list-style-type: none">1. Unplug the power cord of the dryer.2. Remove the four hinge screws from the door, and then remove the door by lifting it up slightly.3. Remove the two screws from the lever holder, and then remove the holder cover.4. Put the lever holder on the other side as shown, and then tighten the screws. Install the holder cover on the opposite side as shown.5. Use a flat-head screwdriver to remove the two hinge covers from the original side. Install the hinge covers on the opposite side as shown.6. Locate and remove the 10 screws as shown. Note that screw B (x2) is longer than the others.
		
		
		

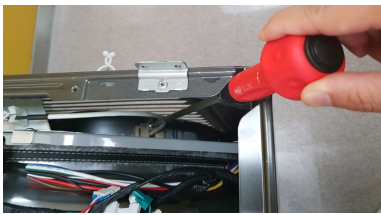


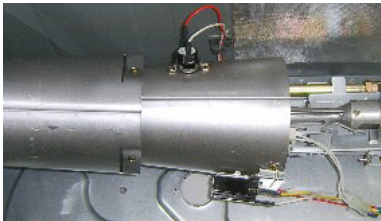

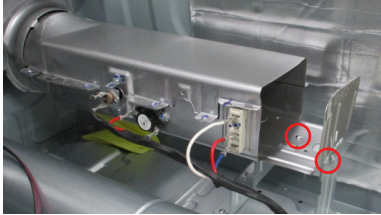

Part Name	Figure	Description
Door Reversal		<ol style="list-style-type: none"> Remove the glass holder, and switch the positions of : <ol style="list-style-type: none"> the hinge cover and the door handle. the hinge holder and the glass-guide holder. Remove the door lever, and then move it to the other side as shown. Remove the hole cover (C), and then insert and tighten the glass holder using the removed 10 screws. Install the hole cover on the opposite side as shown. Reinstall the door on the front frame, and then carefully insert and tighten the 4 hinge screws.
Frame Front		<ol style="list-style-type: none"> Unplug the unit. Remove Control Panel. Remove Cover Top. Remove 3 screws from the Plate(U). Remove 3 screws from the Frame Front. Separate Door-Switch Housing. Lift and Frame Front off the 3 tabs across the bottom and remove. <ul style="list-style-type: none"> After reassembly, check the Front Frame is secure, and the Door Switch is working properly.

Part Name	Figure	Description
Drum Front		<ol style="list-style-type: none"> 1. Unplug the unit. 2. Remove Top Cover. 3. Remove Control Panel. 4. Remove Frame Front. 5. Remove Plate(U) 6. Remove Drum Front retaining 5 screws. 7. Disconnect Moisture Sensor Wiring Harness. 8. Lift Drum Front from Cabinet and remove
Moisture Sensor		<ol style="list-style-type: none"> 1. Unplug the unit. 2. Remove Top Cover. 3. Remove Control Panel. 4. Remove Frame Front. 5. Remove 2 screws from the Duct Outlet. 6. Remove 3 screws from the Case Filter(F). 7. Remove 1 fixing screws from the Case Filter(B). 8. Disconnect 2 Housing Sensor-Plate. <p><input checked="" type="checkbox"/> After reassembly check the Touch Sensor is working properly through test mode.</p>

Part Name	Figure	Description
Drum		<ol style="list-style-type: none"> 1. Disconnect Power Supply to Unit. 2. Remove Top Cover, Console, Front Panel, Plate(u), Drum Front. 3. Remove Belt. 4. Lift Drum and Pull out. <p>☑ Carefully spread the cabinet as needed to get extra clearance. But, be careful not to damage the cabinet.</p>
Front & Rear Roller (After removing Drum Back)		<ol style="list-style-type: none"> 1. After remove Holder-Shaft, separate each Roller.

Part Name	Figure	Description
Motor/Blower	      	<ol style="list-style-type: none"> 1. After remove Drum, do the following. 2. Remove the 2 screws from Duct Connector. 3. Separate Duct Connector. 4. Remove 1 Housing Motor. 5. Remove 2 Housing Belt Cut. Off Switch. 6. Remove 3 Screw from Motor-Bracket. 7. Separate Assy Motor in Bottom Plate. 8. Lock Blower Wheel with a screwdriver and separate the 14mm nut from Fan. 9. Remove Blower Fan. 10. Remove the three screws from Cover-Duct Fan. 11. Remove 2 Spring Plate Using a long-nose plier. 12. Remove 1 Screw Belt Cut Off Switch. 13. Remove Holder Shaft and Roller-Idler. <p>☑ After reassembly check the Motor work properly.</p>

Part Name	Figure	Description
Burner		<ol style="list-style-type: none"> 1. After the knock-down to Motor/Assy-Motor, do the following. 2. Shut off gas supply. 3. Disconnect gas pipe. 4. Remove all the connectors. 5. Remove two screws (one at the front and the other one at the back) securing Burner to Frame. <input checked="" type="checkbox"/> The Igniter Bar is Fragile, so be careful when removing the Burner Assy. 6. Remove the two screws attaching the housing to Burner Bracket. 7. Remove Burner Assy from the unit.
Drum Back		<ol style="list-style-type: none"> 1. Remove 7 screws at the back of the unit and 2 screws at the Water Valve. 2. Separate the Cover-Valve. 3. Remove the terminal from the Water Valve. 4. Separate Assy-Drum Back in Frame.
Duct Exhaust		<ol style="list-style-type: none"> 1. After separate Assy-Drum Back, do the following. 2. Remove 1 screw from the Frame. 3. Remove the Duct-Exhaust.

Part Name	Figure	Description
Thermistor		<ol style="list-style-type: none"> 1. Unplug the unit. 2. Remove Top Cover. 3. Remove 1 screw from the Assy Drum Back. <p>☑ To remove the screw, use long tools.</p>
Sensors (Thermostat, Thermistor, Radiant/Flame)	  	<ol style="list-style-type: none"> 1. Remove each securing screws to remove each of the sensors. <p>For differences between Gas and Electric, refer to 6-3. Component Check.</p>
Heater	  	<ol style="list-style-type: none"> 1. After separate Motor, Duct-Fan, do the following. 2. Remove 6 Housing Heater-Terminals. 3. Remove 2 screw from Heater Die. 4. Separate Heater in Drum-Back.

☑ Reassembly procedures are in the reverse order of disassembly procedures.

4. TROUBLESHOOTING

4-1. ERROR ITEMS AND DIAGNOSTIC CODES

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

Information Code	Meaning	Action
tC	The thermistor1 resistance is very low or high.	<ul style="list-style-type: none">• Check for a clogged lint screen.• Check if the vent system is restricted.• Check the thermistor resistance.
tC5	The thermistor2 resistance is very low or high.	<ul style="list-style-type: none">• Check for a clogged lint screen.• Check if the vent system is restricted.• Check the thermistor resistance.
dC	The dryer is running with the door open.	<ul style="list-style-type: none">• Close the door, and run the dryer again.• Check if the door sensor unit is loose or shorted.
dF	Incorrect door switch.	<ul style="list-style-type: none">• Check if the door sensor unit is loose or shorted.
bC2	Incorrect button state.	<ul style="list-style-type: none">• Check if the display PCB is loose or shorted.
FC	Invalid power source frequency.	<ul style="list-style-type: none">• Check if you are using regular power source frequencies.• Check the power frequency sensor circuit.
9C1	Electronic control problem (Invalid Voltage).	<ul style="list-style-type: none">• Check the PCB and wire harness.• Check if the electrical outlet is working properly.• Check if power is supplied properly.
AC	Electronic control problem (Invalid Communication).	<ul style="list-style-type: none">• First check the PCB and wire harness.• Replace the PCB if the problem persists.
HC	Invalid heating Temp in running the dryer.	<ul style="list-style-type: none">• Check the PCB and Thermistor.
3C	Motor Relay short problem	<ul style="list-style-type: none">• Check the PBA Motor Relay for a short.

4-2. SPECIAL FEATURES

4-2-1. Child Lock

- Child Lock prevents children from playing with the dryer. When Child Lock is activated, all buttons except for the **Power** button are disabled.
- To activate/deactivate Child Lock, simultaneously press and hold **Dryness** and **Temp.** for 3 seconds.

NOTE

Once Child Lock is activated, it will remain active even after you restart the dryer. If other buttons, except for the Power button, do not respond, check the Child Lock indicator. If the indicator is on, follow the instructions above to turn Child Lock off.

4-2-2. Smart Care

To enable this function, you must first download the Samsung Smart Washer/Dryer app at the Play Store or the App Store and install it on a mobile device featuring a camera function. The Smart Care function has been optimized for Galaxy & iPhone series (applicable models only).

1. When the dryer detects an issue to check, an information code appears on the display. To enter Smart Care mode, press and hold Smart Care for 3 seconds.
2. The dryer starts the self-diagnosis procedure and displays an information code if a problem is detected.
3. Run the Samsung Smart Washer/Dryer app on your mobile device, and then tap Smart Care.
4. Put the mobile device close to the dryer's display so that the smartphone camera and the dryer face each other. Then, the information code will be recognized automatically by the app.
5. When the information code is recognized correctly, the app provides detailed information about the problem with applicable solutions.

NOTE

- The function name, Smart Care, may differ depending on the language.
- If the dryer reflects light on the display, the app may fail to recognize the information code.
- If the app fails to recognize the information code, you can enter the code manually on the app.

4-2-3. Alarm off

You can turn the alarm on or off. When the alarm is off, the melody of cycle completion and the power-off beep will not sound. However, the other sounds stay active.

- Press and hold the Drum Light for 3 seconds to turn the alarm on or off.
- Your setting will be retained even after you turn off the dryer. You can turn the alarm back on by pressing and holding the same button for 3 seconds.

4-2-4. Drum Light

Press to turn on or off the interior lamp.

NOTE

The lamp stays lit for 2 minutes (regardless if the power is on/off or if the door is open/ closed) after it has turned on, and then turns off automatically.

4-2-5. CLEANING

■ Feature Panel

- Clean with a soft, damp cloth. Do not use abrasive substances.
- Do not spray liquid cleaning agents directly on the display of the dryer.
- Some laundry pre-treatment soil and stain removers may damage the feature panel.
- When using liquid cleaning agents, apply them to the cleaning cloth. Do not apply them directly to the dryer. Wipe up any spills or overspray immediately.

■ Tumble

- Remove any stains from the tumbler with an all-purpose cleaner.
- Tumble old towels or rags to remove any remaining stains or cleaning substances. Stains may still be visible, but will not affect subsequent loads.

■ Powder Coat Tumbler

- To clean the powder coat tumbler, use a damp cloth with a mild, non-abrasive cleaner suitable for easily marred surfaces. Remove cleaner residue and dry with a clean cloth.

■ Dryer Exterior

- Clean with a soft, damp cloth. Do not use abrasive substances.
- Protect the surface from sharp objects.
- Do not place any heavy or sharp objects or a detergent container on the dryer. They can scratch or damage the top cover of the dryer.
- The dryer has a high-gloss finish on the entire surface. Be careful not to scratch or damage the surface.

■ Exhaust System

- Check and clean the exhaust system on a yearly or regular basis to maintain optimum performance.
- The external exhaust hood must be cleaned more frequently to ensure proper air flow.

4-2-6. Error Recall

- Error Recall mode reminds users of the last error that was detected.
- To Enter Error Recall mode Press and hold the model-specific buttons for 8 seconds as specified below.

DVE(G)55A7***5*** :
Dryness + Wrinkle Prevent

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

4-2-7. Smart Install

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

No	Mode	How to enter
1	Smart Install	<div> <div>Turn on the dryer</div> <div>→</div> <div>Press and hold the Temp + Option for 7 seconds</div> <div>→</div> <div>A message of "AS" appears</div> </div> <p>* Make sure the drum is empty.</p>
2	S/W version Check	<div> <div>Enter Smart Install</div> <div>→</div> <div>Press Dryness button, while displaying "AS"</div> </div>
3	Touch sensor Check	<div> <div>Enter Smart Install</div> <div>→</div> <div>Open the door</div> <div>→</div> <div> <div>Put a wet cloth on the touch sensor</div> <div>→</div> <div>Display "1"</div> </div> <div> <div>Put nothing on the touch sensor</div> <div>→</div> <div>Display "0"</div> </div> </div>
4	Vent blockage Test	<div> <div>Enter Smart Install</div> <div>→</div> <div>Touch sensor check</div> <div>→</div> <div>Close the door and press the Start button</div> <div>→</div> <div>A message of "--" will be blinking during the test</div> <div>↓</div> <div>If a message of "NG" appears</div> <div>→</div> <div>Redo the Smart Install</div> <div>→</div> <div>Enter Smart Install</div> </div> <p>* Do not open the door during the test.</p>
5	Check result	When the test is complete, the results are displayed and the dryer sounds a tone.

■ To enter Smart Install

Turn on the dryer, and press and hold the Adjust Time Up + Temp. buttons for 7 seconds. A message of "AS" appears. (Make sure the drum is empty).

* To check S/W version, press **Dryness** button, while displaying "AS".

■ 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. Run the vent blockage test

Close the door and press the **Start** button. The Vent Blockage Test starts immediately.

A message of "--" will be blinking during the test. The test takes about 2 minutes.

If a message of "NG" appears, redo the **Step 1**

Do not open the door during the test.

■ Step 3. Check the result

When the test is complete, the results are displayed and the dryer sounds a tone.

Warning Code	Description	Guide
C8 or C80	About 80% of the vent is clogged	Clean the filter and vent
C9 or C90	Over 90% of the vent is clogged	Clean the filter and vent
Ct	The internal temperature of the dryer is too low or too high	Leave the dryer at room temperature, and try again later
C1	Unit is detecting items inside the drum or there is an error on the dry sensor	Remove items, and check the dry sensor
End or 0	No problems detected	

- To stop or cancel the Vent Blockage Test, press the Power button to turn off your dryer.
- The results remain on the display for about 5 minutes and then automatically turn off.
You can turn the results off immediately by pressing the Power button.

NOTE


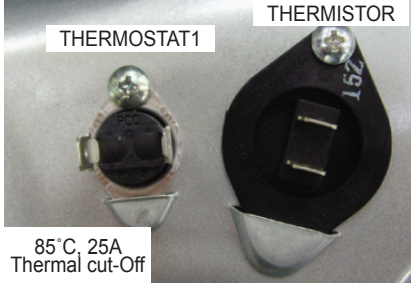
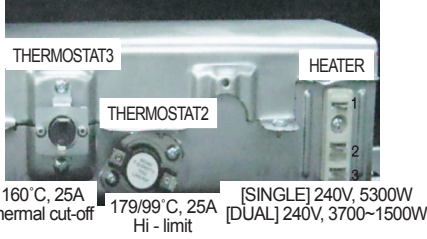
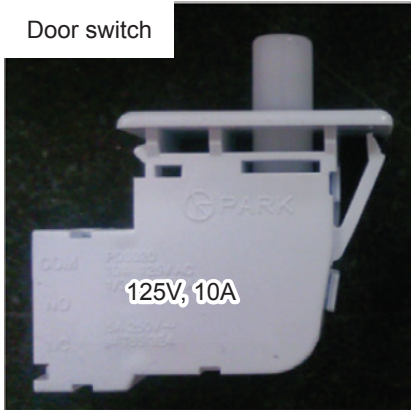
- During or after the test, the internal drum is hot. Use caution to prevent burns. The Vent Blockage Test is used to check for problems in the current duct system when the dryer is installed for the first time.
- Even if the test result is normal ("End or 0"), the duct system could be blocked slightly.
Properly install all duct work according to the installation instructions in this manual.

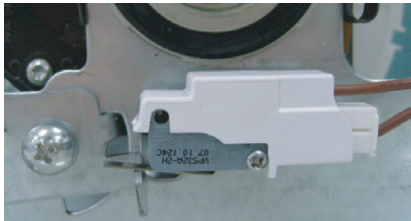
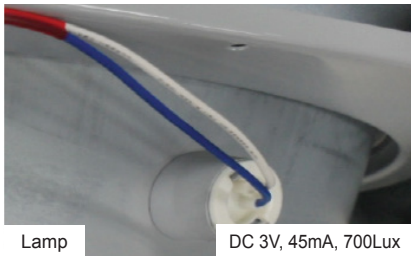
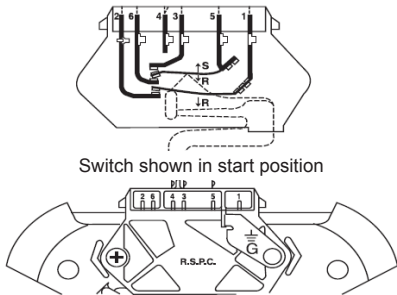

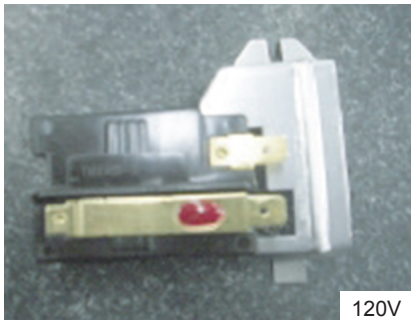
4-3. TROUBLESHOOTING

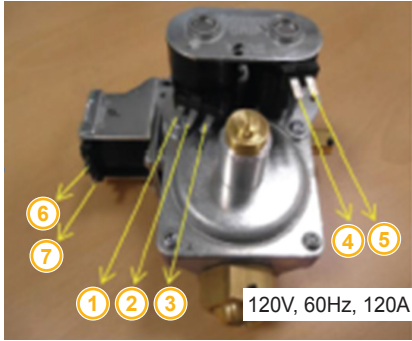
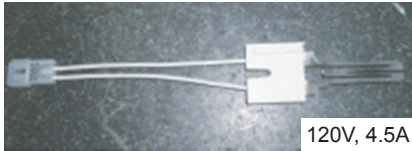
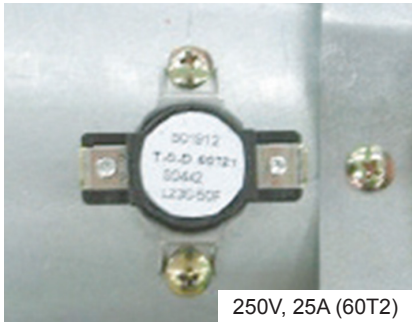
Problem	Action
Does Not Run.	<ul style="list-style-type: none"> • Make sure the door is latched shut. • Make sure the power cord is plugged into a live electrical outlet. • Check your home's circuit breakers or fuses. • Press or tap Start/Pause (Hold to Start) again if the door was opened during a cycle. • Clean the lint filter.
Does not heat.	<ul style="list-style-type: none"> • Check your home's circuit breakers or fuses. • Some cycles do not require heat. Check the selected cycle again. • For a gas dryer, make sure the gas supply is on. • Clean the lint filter and exhaust duct. • The dryer may have moved into the cool-down phase of the cycle.
Does not dry.	<ul style="list-style-type: none"> • Check all of the above, plus... • Make sure the exhaust hood outside your home can open and close freely. • Check the 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. • Dry heavy items and light weight items separately. • Large, bulky items, such as blankets or comforters, may require repositioning to ensure even drying. • Make sure that your washer is draining properly and extracting adequate water from the load. • The load may be too small to tumble properly. Add a few towels and restart the dryer. • The load may be too large to tumble properly. Remove some items and restart the dryer. • Clean the lint filter. • Turn off the Eco Dry option for the NORMAL or TIME DRY cycles. When the Eco Dry option is on, the dryer performs an air dry process in the beginning of the cycle to reduce energy consumption. The air dry process does not use heated air, so the items may not be completely dry at the end of the cycle.
Is noisy.	<ul style="list-style-type: none"> • 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. • Make sure the dryer is leveled properly as outlined in the installation instructions. • It is normal for the dryer to hum due to the high velocity of air moving through the dryer drum, fan, or exhaust system.
Dries unevenly.	<ul style="list-style-type: none"> • 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. You can choose a higher dryness level or a cycle that involves a higher dryness level. • If one heavy item is dried with a light weight 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. • For the best drying results, dry heavy items and light weight items separately.
Has odors.	<ul style="list-style-type: none"> • Household odors from paint, varnish, 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, completely ventilate the room before using the dryer. • Use a cycle featuring the Refresh function. If odors persist, wash and dry the items again.
Lint on clothes.	<ul style="list-style-type: none"> • Make sure the lint filter is cleaned before every load. For clothes that naturally build up lint, clean the filter during the cycle. • Some fabrics are lint producers (for example, a fuzzy white cotton towel) and they must be dried separately from clothes that are lint trappers (for example, a pair of black linen pants). • Divide larger loads into smaller loads for drying. • Check pockets thoroughly before drying, then dry clothes. • Remove lint inside the drum before drying a load.
Items still wrinkled after Wrinkle Prevent (Wrinkle Away, Wrinkle Release).	<ul style="list-style-type: none"> • Small loads of 1 to 4 items work best. • Load fewer items. Load similar-type items. • Take out the items immediately after drying is complete.

Problem	Action
Water drips from the nozzle when the Steam cycles starts.	<ul style="list-style-type: none">• This is steam condensation.• The dripping water will stop after a short time.
Sprayed water is not visible during Steam cycles.	<ul style="list-style-type: none">• Sprayed water is difficult to see when the door is closed.
Extended time.	<ul style="list-style-type: none">• Sensor Dry automatically senses the moisture in the load and shuts the dryer off when the selected dryness level is reached. The drying time can change according to the type and amount of laundry. See the cycle chart for reference.

4-4. COMPONENT TESTING PROCEDURES

Part Name	Image	Description
Electric		
Thermistor Thermostat		<ul style="list-style-type: none"> Thermistor resistance 10K Ω @ 25°C (77°F) Thermostat 1 resistance < 1Ω
Thermostat heater		<ul style="list-style-type: none"> Thermostat 3 resistance < 1Ω - If resistance is infinite, replace thermostat 3. Thermostat 2 resistance < 1Ω - If resistance is infinite, replace thermostat 2. [DUAL] Heater resistance 13Ω (PIN 2-3) Heater. resistance 34Ω (PIN 1-2) - If resistance is infinite, replace heater. [SINGLE] Heater resistance 10Ω (PIN 1-3) - If resistance is infinite, replace heater. Measure resistance on the following terminal.
Door Switch		<ol style="list-style-type: none"> Door switch: Off - Terminal: "COM" - "NC" (1-3) < 1Ω - Terminal: "COM" - "NO" (1-2): ∞ Ω Door switch: On - Terminal: "COM" - "NC" (1-3): ∞ Ω - Terminal: "COM" - "NO" (1-2) < 1Ω

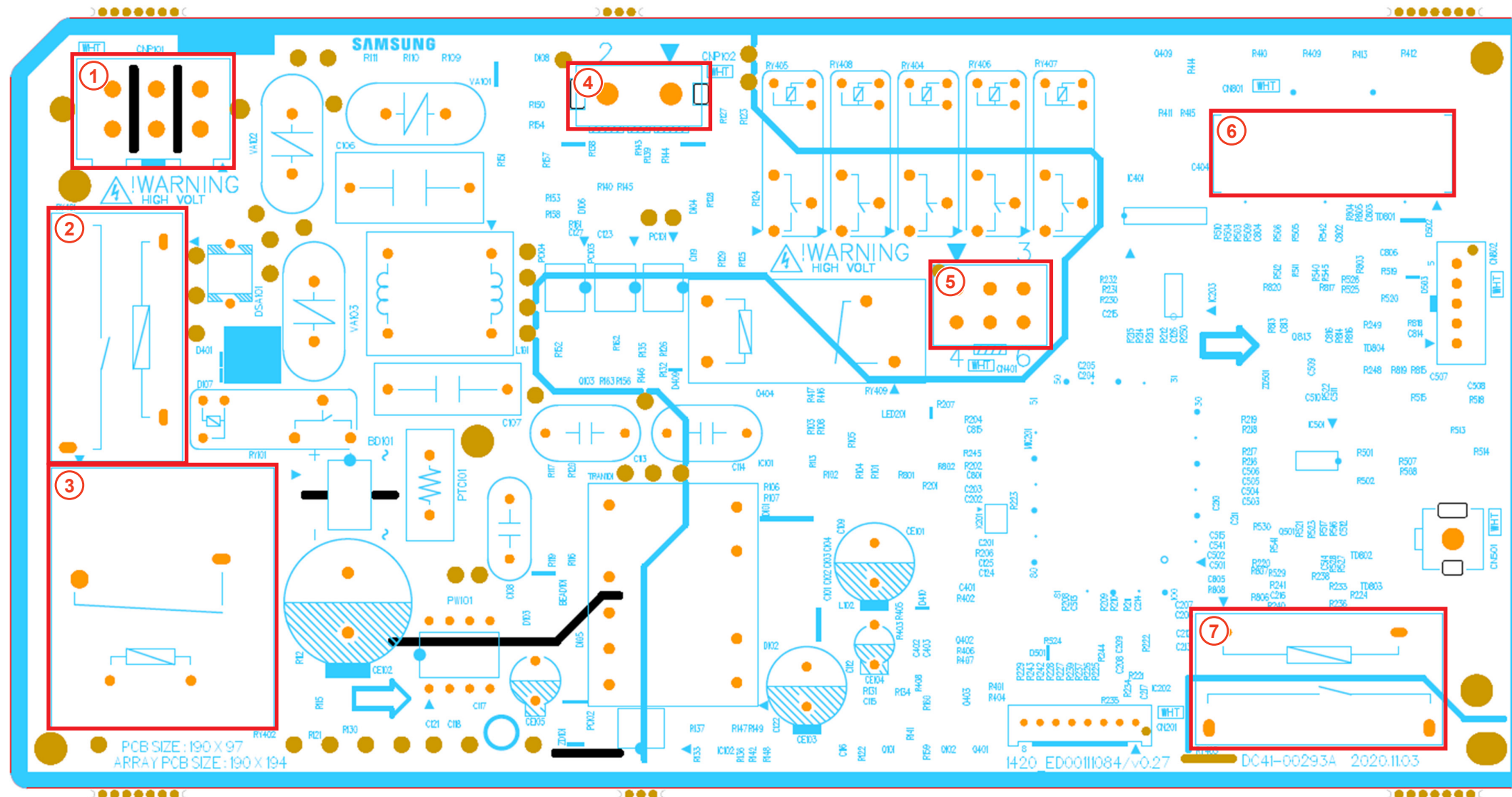
Part Name	Image	Description																												
Belt Cut-off S/W	<div><p>Belt Cut-Off Switch</p><p>125V, 16A</p></div>	<ul style="list-style-type: none">Belt Cut-off S/W<ul style="list-style-type: none">Lever open: Resistance value < 1ΩLever push: Resistance value: ∞ Ω																												
Lamp	<div><p>Lamp</p><p>DC 3V, 45mA, 700Lux</p></div>	<ul style="list-style-type: none">Thermostat 3 resistance < 1Ω<ul style="list-style-type: none">If resistance is infinite, replace thermostat 3.Thermostat 2 resistance < 1Ω<ul style="list-style-type: none">If resistance is infinite, replace thermostat 2.[DUAL] Heater resistance 13Ω (PIN 2-3) Heater.<ul style="list-style-type: none">resistance 34Ω (PIN 1-2)<ul style="list-style-type: none">If resistance is infinite, replace heater.[SINGLE] Heater resistance 10Ω (PIN 1-3)<ul style="list-style-type: none">If resistance is infinite, replace heater.Measure resistance on the following terminal.																												
Centrifugal Switch (Motor)	<div><p>Switch shown in start position</p></div>	<ul style="list-style-type: none">2.88Ω between Pin #3 and 43.5Ω between Pin #4 and 5 <table><tr><th colspan="7">Contacts</th></tr><tr><th>Function</th><th>1M</th><th>2M</th><th>3M</th><th>4M</th><th>5M</th><th>6M</th></tr><tr><td>Start</td><td></td><td></td><td>● — ●</td><td></td><td></td><td></td></tr><tr><td>Run</td><td>● — ●</td><td></td><td></td><td></td><td>● — ●</td><td></td></tr></table> <p>● = Contact closed</p>	Contacts							Function	1M	2M	3M	4M	5M	6M	Start			● — ●				Run	● — ●				● — ●	
Contacts																														
Function	1M	2M	3M	4M	5M	6M																								
Start			● — ●																											
Run	● — ●				● — ●																									
Thermistor	<div></div>	<ul style="list-style-type: none">238.23 kΩ at 25°C (77°F)																												
Radiant sensor (10RS) Gas	<div><p>120V</p></div>	<ul style="list-style-type: none">Resistance value < 1ΩIf resistance is infinite, replace radiant sensor.																												

Part Name	Image	Description
Gas Valve (25M01A)		<ul style="list-style-type: none"> Valve 1-2: Resistance value approx. 1365Ω Valve 1-3: Resistance value approx. 560Ω Valve 4-5: Resistance value approx. 1325Ω Valve 6-7: Resistance value approx. 1000Ω If resistance is infinite, replace valve.
Igniter (101D) Gas		<ul style="list-style-type: none"> Resistance value 40~400Ω If resistance is infinite, replace igniter.
Thermostat (60T21 Hi-Limit) 230F-50F		<ul style="list-style-type: none"> Resistance value < 1Ω If resistance is infinite, replace thermostat.

5. PCB DIAGRAM

5-1. MAIN PBA LAYOUT (THE PRINCIPLE PART)

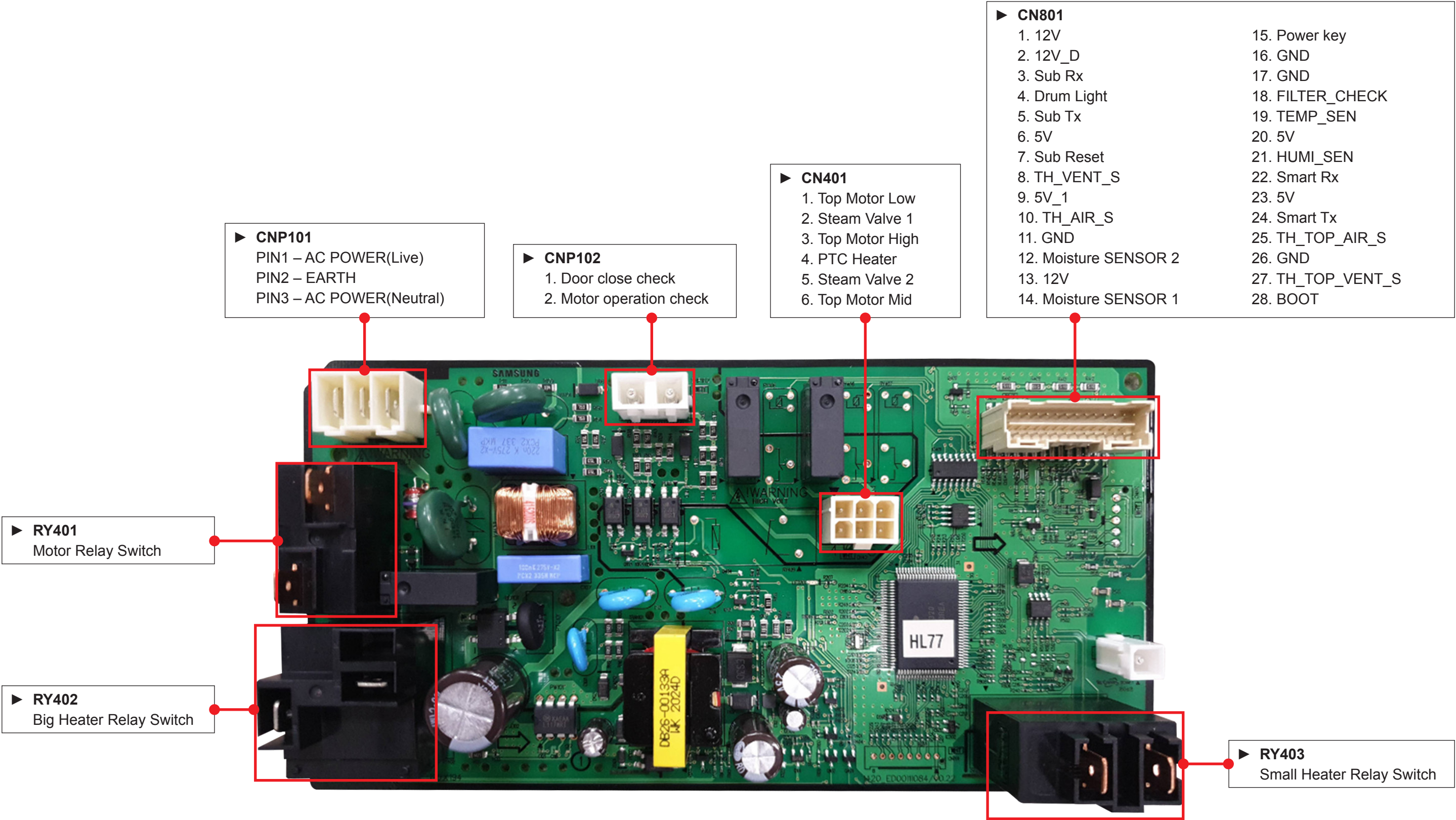
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Location	Part No.	Function	Description
1	CNP101	AC CONNECTION CONNECTOR	Supplies AC power to the PBA
2	RY401	MOTOR RELAY SWITCH	The relay used for motor control
3	RY402	BIG HEATER RELAY SWITCH	The relay used for heater control
4	CNP102	DOOR CLOSE&MOTOR CHECK CONNECTOR	The connector that checks door close and motor operation
5	CN401	MOTOR&STEAM VALVE CONNECTOR	The connector used for the motor and the steam valve control
6	CN801	SUB COMMUNICATION & MICOM WRITING & TEMPERATURE/MOISTURE SENSING	The connector that controls communications with the Sub PBA, micom writing and temperature/moisture sensing
7	RY403	SMALL HEATER RELAY SWITCH	The relay used for heater control

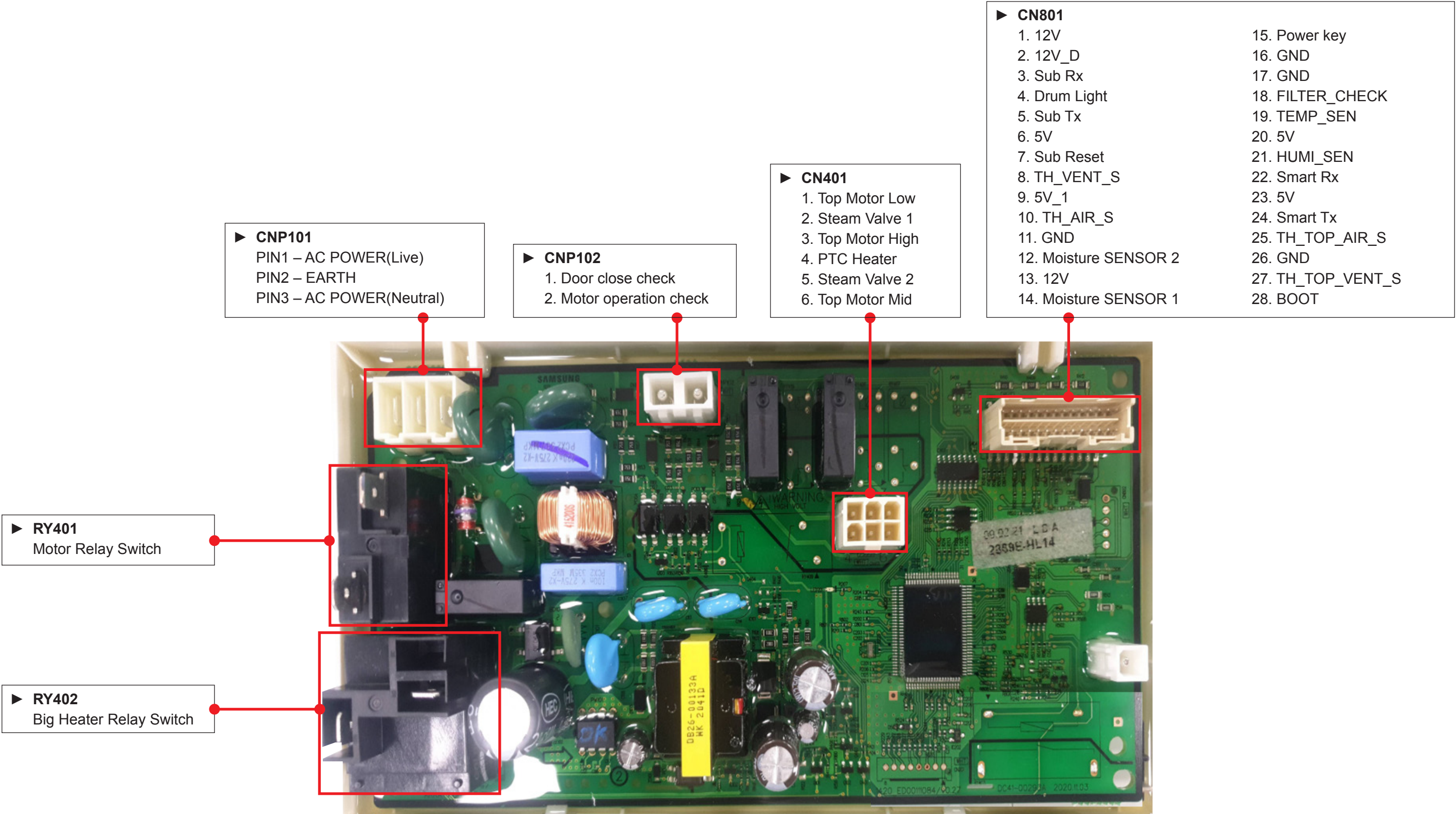
5-2. CONNECTOR & RELAY TERMINAL DESCRIPTION (MAIN PBA) – DVE(G)55A7***

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5-3. CONNECTOR & RELAY TERMINAL DESCRIPTION (MAIN PBA) – DVE(G)52A5500*

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5-4. SUB PBA LAYOUT (THE PRINCIPLE PART)

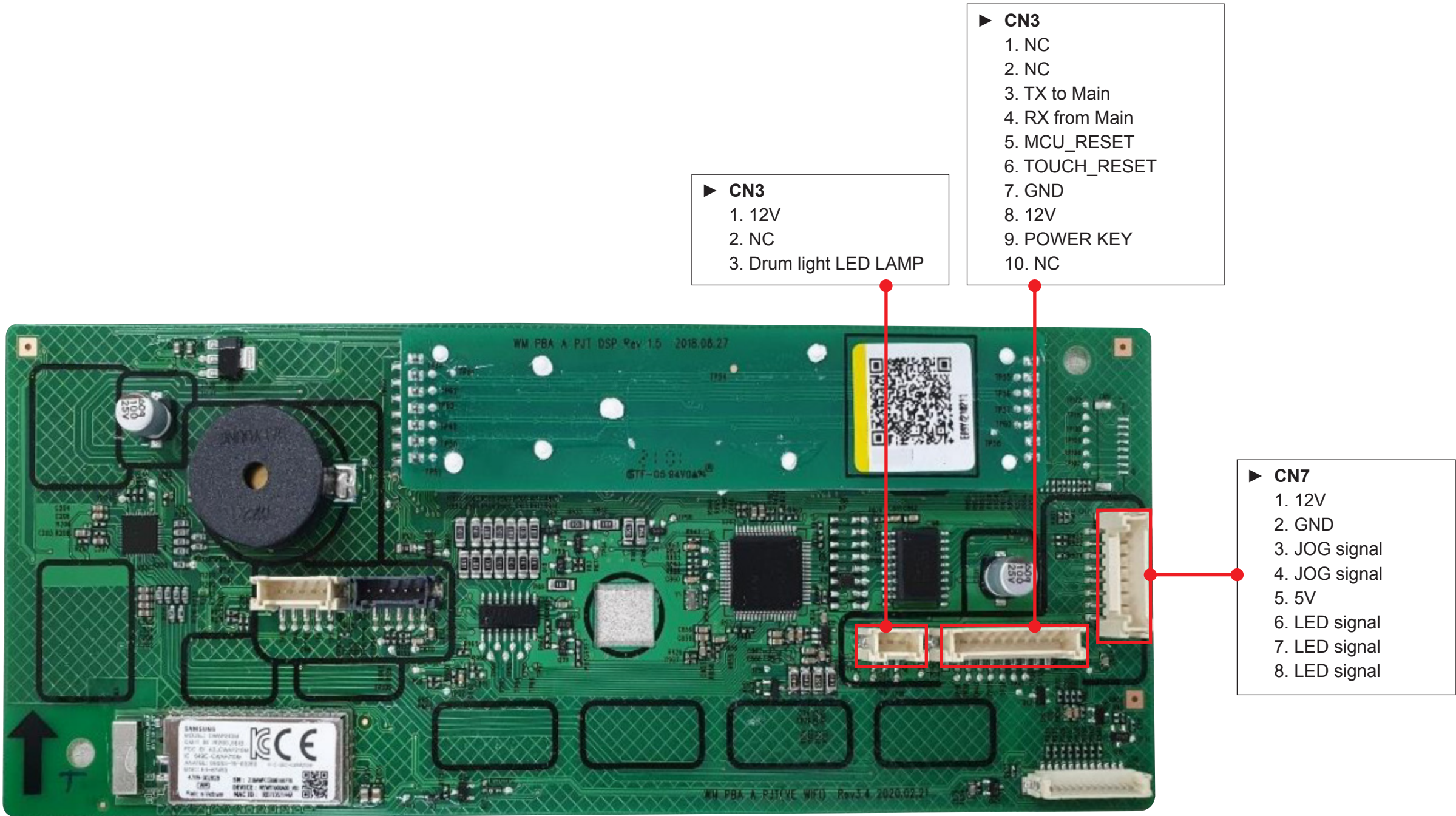
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Location	Part No.	Function	Description
1	SUB BUZZER	Buzzer Circuit	Be generated sound when Key is pressed or the encoder is operated
2	SUB CN6	Touch Writing	Touch Micom Writing
3	SUB CN5	Writing	SUB Micom Writing
4	SUB CN4	Drum Light Circuit	It controls drum light LED On/Off
5	SUB CN3	Connect Main PBA	Receives power from the Main PBA and provides a communications function
6	SUB CN7	JOG Connection	Supplies power to JOG PBA and provides course LED on / off funtion
7	SUB CN8	WIFI update	This port can be used to update Wifi-Module

5-5. CONNECTOR & RELAY TERMINAL DESCRIPTION (SUB PBA)

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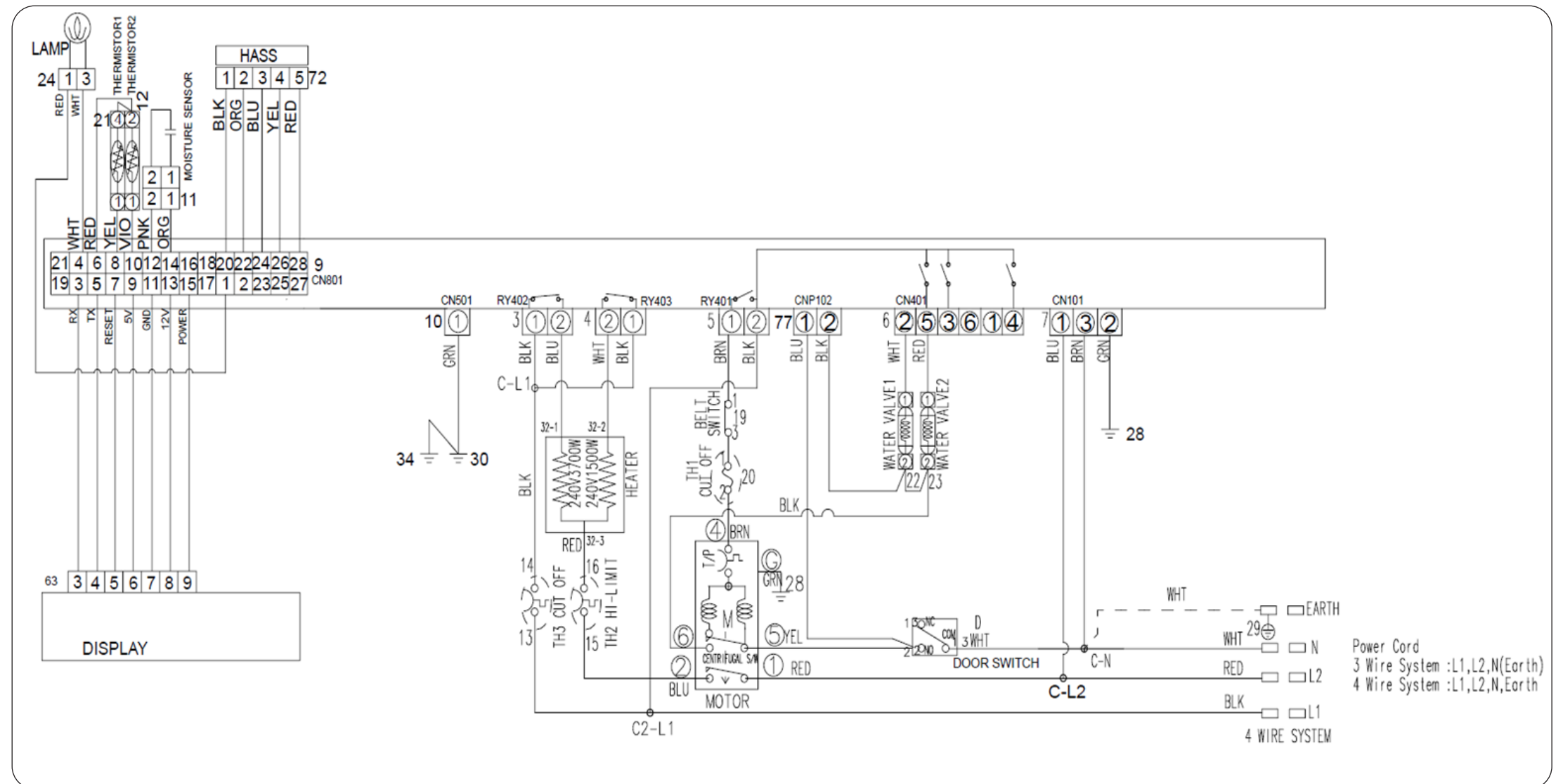
6. WIRING DIAGRAM

6-1. WIRING DIAGRAM (ELEC MODELS : DVE55A7***)

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■ Reference Information

BLK	BLACK
BLU	BLUE
GRN	GREEN
GRY	GRAY
NTR	NATURAL
ORG	ORANGE
PNK	PINK
RED	RED
SKYBLU	SKYBLUE
VIO	VIOLET
WHT	WHITE
YEL	YELLOW
BRN	BROWN

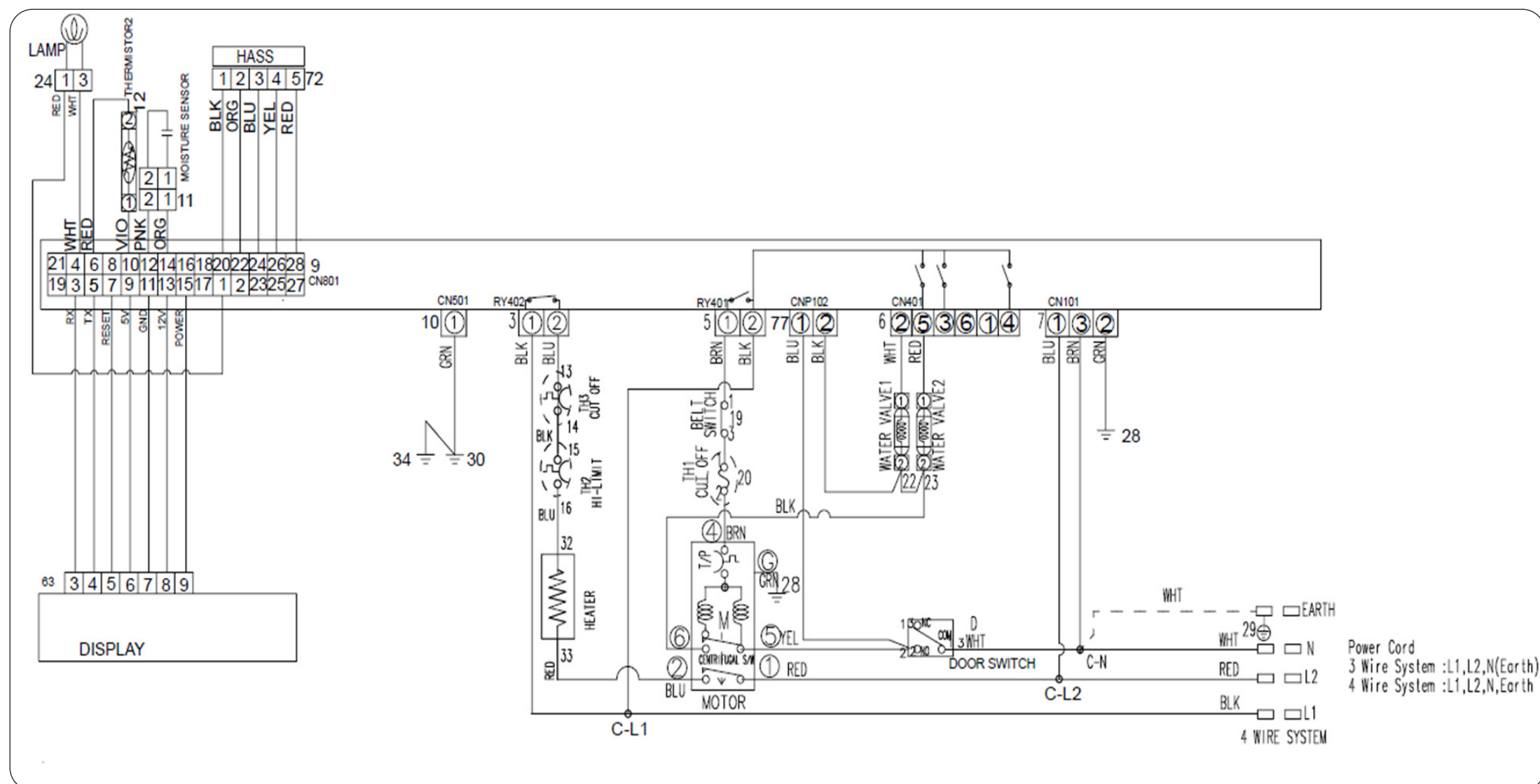


6-2. WIRING DIAGRAM (ELEC MODELS : DVE52A5500*)

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■ Reference Information

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BLU	BLUE
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GRY	GRAY
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ORG	ORANGE
PNK	PINK
RED	RED
SKYBLU	SKYBLUE
VIO	VIOLET
WHT	WHITE
YEL	YELLOW
BRN	BROWN

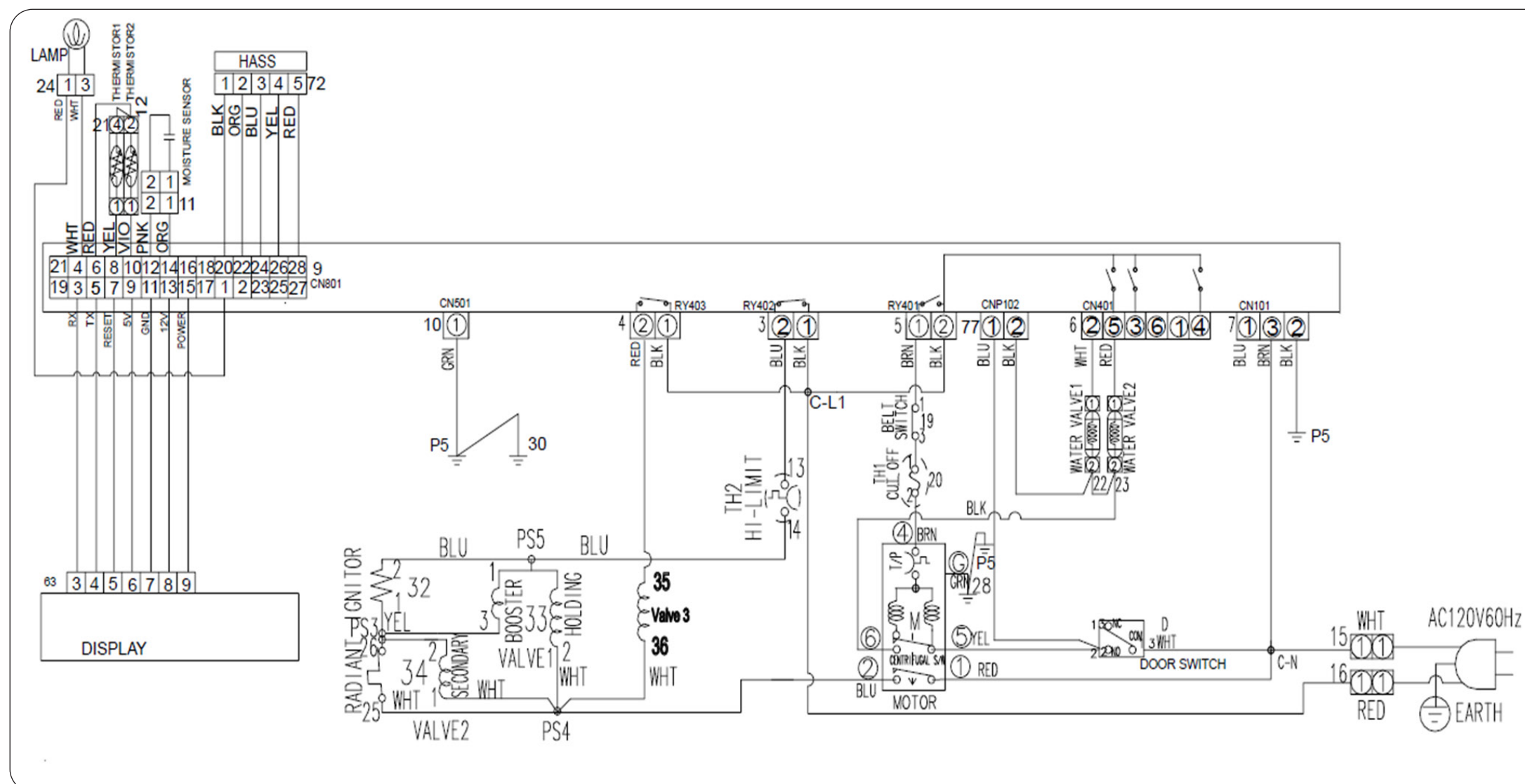


6-3. WIRING DIAGRAM (GAS MODELS)

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■ Reference Information

BLK	BLACK
BLU	BLUE
GRN	GREEN
GRY	GRAY
NTR	NATURAL
ORG	ORANGE
PNK	PINK
RED	RED
SKYBLU	SKYBLUE
VIO	VIOLET
WHT	WHITE
YEL	YELLOW
BRN	BROWN



7. REFERENCE

7-1. NOMENCLATURE

	D	V	E	5	5	A	7	3	0	0	E	/	A	3
Model Naming Rule														
	Product Type		Type	Capacity		Year	Series	Features			color	Divider	Buyer	
Dryer	D	V	Dryer Type	Market Claim Capacity Ex : 7.5kg = 75 10kg = 10 5.0cuft = 50		17 : M	Grade	product / Project Define by Feature Table Sheet			By color Table Sheet	/ : CBU U : SKD 1 : ver. Service	By Buyer Table Sheet	
						18 : N								
						19 : R								
						20 : T								
						21 : A								
	Type (Dryer)		* Detail Rule				9 High	* Each Product / Projects have different Feature Table.			V : Black Caviar W : White P : Inox Z : Blue C : Champagne E : Greige		A3, A2 : USA AC : Canada AX : Mexico	
	E : Vente Elec.		1. 55.5Kg : Down to 11				8 High							
	G : Vent Gas		2. N.America by DOE rule				7 High							
	H : Heatpump		3. N.America Dryer Same to pair Washer				6 Mid							
	C : Condensing		* Double Language Option Dutch + Rrench Dutch Only				5 Mid							
							4 Mid							
			* Exclusive Code capacity code 2nd number ex) 6.0kg, M-video Exclusive : 6M ex) 7.0kg, Eldorado Exclusive : 7E				3 Entry							
							2 Entry							
							1 Entry							

7-2. Q & A

Q. What does it mean when chasing light appear in the display?	A. The chasing lights appear in the display when Wrinkle Prevent is selected. This lets you know that the dryer is tumbling intermittently for 95 minutes with room temperature air after the cycle is complete to reducing wrinkling. The load is dry and can be removed at any time during Wrinkle Prevent.
Q. Why is the estimated drying time so long?	A. The initial estimated drying time will be longer because the dryer has not yet detected the amount of moisture in the load. After the dryer has been running for several minutes, a more accurate estimate will be displayed. Remember, the times are estimated. The actual drying time may be longer or shorter, depending on the load.
Q. My dryer seems to run longer than I expect. Why?	A. The dryer automatically senses the dryness level of load. Be careful to avoid overloading your dryer. For best drying results, avoid mixing heavy and lightweight items in the same load.



GSPN (GLOBAL SERVICE PARTNER NETWORK)

Area	Web Site
Europe, CIS, Mideast & Africa	gspn1.samsungcsportal.com
Asia	gspn2.samsungcsportal.com
North & Latin America	gspn3.samsungcsportal.com
China	china.samsungportal.com

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