

Galanz

# Service Manual

## Condensing Dryer

model: DC-80S1E, DC-80S1U

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single phase asynchronous motor

## ➤ 1. Technical Data

### 1.1 data table

Overall size	595*630*845mm
Drum Capability	8KG
Weight	45KG
Power Connection	Voltage: 230V    Frequency: 50Hz
Maximum Power	DC-80S1E (2500W)    DC-80S1U (2700W)

### 1.2 Electrical Component

1.21 Heating Tube

1.22 Rated Voltage: 230V

1.23 rated power: 800W/1400W ,deviation range: +5% -10%

1.24 temperature controller:    TOD 36FXE L170C

1.25 temperature sensor: B25/75=3965K ±1%

### 1.3 Main Motor

- ◆ 1.31 Type:    Single phase asynchronous motor
- ◆ 1.32 Rated Voltage: 230V
- ◆ 1.33 Frequency: 50Hz
- ◆ 1.34 Power Consumption: 140We
- ◆ 1.35 Class of insulation: F
- ◆ 1.36 Condensation pump
- ◆ 1.37 voltage: 220-240V
- ◆ 6.8 Frequency: 50Hz
- ◆ 6.9 Resistance: 750+/-750hm
- ◆ 6.10 Rate: 3000/min
- ◆ 6.11 Class insulation: F

### 7. Micro switch

7.1. Technical parameter: 16 (3) A    250V    T125

### 8. Capacitance

8.1 Technical parameter


: DC-80S1E(10 μ F ± 5% 450V)

DC-80S1U(9 μ F ± 5% 450V)

## ➤ 2. Parts list

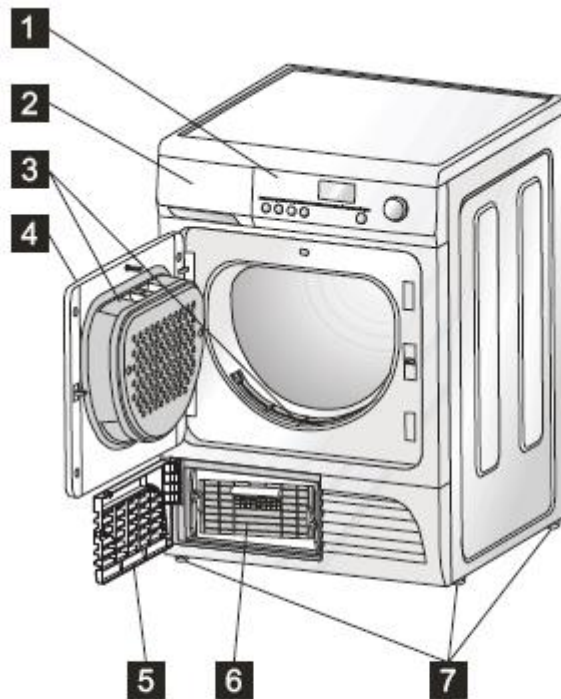
Model:

S/N	Model	Mane	Quantity	Material quality
1	DC80S1E.5.1	Door AS	1	Binder
2	DC80S1E.6	Down Panel AS	1	Binder
3	DC80S1E.5.2	Front Cover AS	1	Binder
4	DC80S1E.3	Control Panel AS	1	Binder
5	DC80S1E.1.2	Door supporter AS	1	Binder
6	DC80S1E.1.3	Side Board AS	2	Binder
7	DC80S1E.4	Water Bracket AS	1	Binder
8	DC80S1E.1.1	Base AS	1	Binder
9	DC80S1E.7	Drum AS	1	Binder
10	DC80S1E.2	Top Cover AS	1	Binder
11	DC80S1E.9	Drum Support AS	1	Binder
12	DC80S1E.1.4	Back Cover AS	1	Binder
13	DV60Q1E.3.1-1	Select Knob	1	ABS
14	DV60Q1E.3.1-2	Knob Bracket	1	ABS
15	DV60Q1E.3.1-3	Knob Shaft	1	POM
16	DC80S1E.3-1	Control Panel	1	ABS
17	DC80S1E.3-4	Select Button	1	ABS
18	DC80S1E.3-3	Start Button	1	ABS
19	DC80S1E.3-8	1 Lamp Board 1	1	PC-L-125Y
20	DC80S1E.3-9	2 Lamp Board 2	1	PC-L-125Y
21	DC80S1E.3-6	LED Display	1	PC-L-125Y
22	DC80S1E.3-7	LED Bracket	1	ABS
23	DC80S1E.8-3	Operate PCB	1	Binder
24	DC80S1E.3-2	PCB Case	1	ABS
25	DC80S1E.8-2	Main PCB	1	Binder
26	DC80S1E.5.1-1	Door Outer Frame	1	ABS
27	DV60Q1E.5-6	Door Hinge Cap	4	POM
28	DC80S1E.5.1-6	Door Hook Fixture	1	PP116
29	DC80S1E.5.1-7	Door Hinge Fixture	1	PP116
30	DC80S1E.5.1-3	Door Hook	1	Zn-Al
31	DC80S1E.5.1-9	Micro Switch Pole	1	POM
32	DC80S1E.5.1-4	Door Hinge	2	Zn-Al
33	DC80S1E.5.1-2	Door Inner Frame	1	PP116
34	DC80S1E.5.1-8	Door Gasket	1	EPDM
35	DC80S1E.5.1.1	Door Filter Bracket	1	Binder
36	DC80S1E.5.1-5	Door Inner Frame	1	PP116
37	DC80S1E.4-2	Pull Cover	1	ABS
38	DC80S1E.4-1	Water Tank	1	PP
39	DC80S1E.1.1-10	Water Pump Pipe	1	PP+ rubber

40	DC80S1E.4-4	Water Pipe Linker	1	PP
41	DC80S1E.4-5	Water Bracket	1	PP116
42	DC80S1E.1.1-11	Overflow water Pipe	1	PP+ rubber
43	DC80S1E.6-4	Grid Axes	1	2Cr13
44	DC80S1E.6-1	Down Panel	1	ABS
45	DC80S1E.6-2	Grid	1	ABS
46	DC80S1E.6-3	Lock Button	1	Binder
47	DV60Q1E.7.1-1	Lifter	2	PP116
48	DC80S1E.7.1	Drum Rivet joint module	1	Binder
49	DC80S1E.5.2-2	Door Lock Decorative Cover	1	PP116
50	DC80S1E.5.2-3	Door Hinge Decorative Cover	2	PP116
51	DC80S1E.5.2-1	Front Cover	1	CRP
52	DC80S1E.5.2-4	Door Lock AS	1	Binder
53	DC80S1E.1.2-13	Micro Switch Rocker	1	PA66+30%GF
54	DC80S1E.1.2-14	Micro Switch spring	1	65Mn
55	DC80S1E.1.2-12	Micro Switch Fixture	1	POM-23P
56	XDQ09-03	Micro Switch	1	Binder
57	DV60Q1E.8-1	Lamp Socket	1	Binder
58	DV60Q1E.8-4	Lamp	1	Binder
59	DC80S1E.5.1.1	Filter Net Bracket	1	Binder
60	DC80S1E.1.2-8	Door Supporter Gasket	1	EPDM
61	DC80S1E.1.2-4	Felt	1 	sponge+felt
62	DC80S1E.1.2-2	Door Supporter Cover	1	PP116
63	DC80S1E.1.2-5	Lamp Cap	1	PC-L-125OY
64	XDQ07-03	Thermistor	1	Binder
65	DC80S1E.1.2-16	Temperature Sensor Gasket	1	EPDM
66	DC80S1E.1.2-3	Door Supporter Vent Cover	1	PP116
67	DC80S1E.1.2-1	Door Supporter	1	PP116
68	GB/T41-2000	Nut	4	<b>galvanized</b>
69	XLD01-10	Washer	6	<b>galvanized</b>
70	DC80S1E.1.2-19	Front Wheel Axes	2	Steel 45#
71	DC80S1E.1.2.3	Wheel AS	4	Binder
72	GB/T6177.1-2000	M8 Hex Flange Nuts	4	<b>galvanized</b>
73	DC80S1E.1.2-20	Lamp Gasket	1	EPDM
74	DC80S1E.1.2-10	Moisture Sensor	2	SS430
75	DC80S1E.1.2-18	Wheel Axes	2	Steel45#
76	DC80S1E.7.1	Drum Fixture AS	1	Binder
77	DC80S1E.8-1	Heater AS	1	Binder
78	DC80S1E.1.1-14	Leg	4	PP116

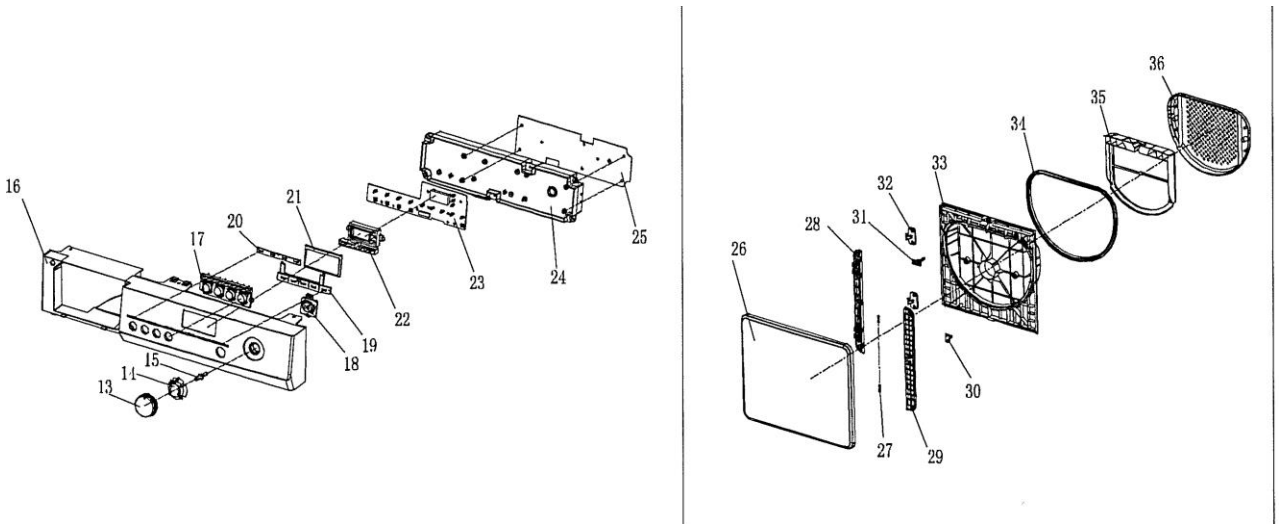
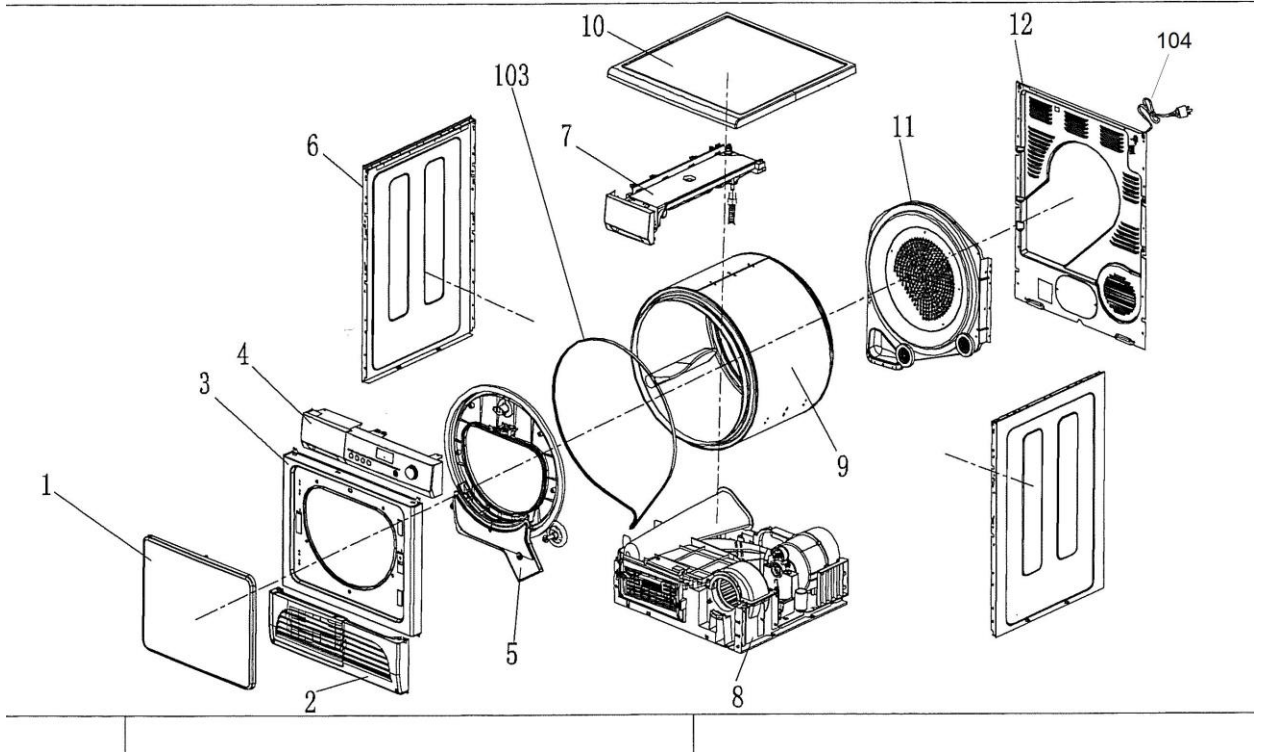
79	DC80S1E.1.1-1	Base Bracket	1	PP116
80	XDQ11-05	Capacitor	1	Binder
81	XDQ20-01	Pump	1	Binder
82	DC80S1E.1.1-8	Float	1	EPS
83	DC80S1E.1.1-15	Baffle	1	PP116
84	DC80S1E.1.1-7	Pump Fixture Cover	1	PP116
85	DC80S1E.1.1.1-4	Idler Spring	1	65Mn
86	DC80S1E.1.1.1-5	Circulate Fan	1	HS-PA66NM-30G
87	XLD01-08	Fan Washer	2	<b>galvanized</b>
88	DC80S1E.1.1.1-3	Motor Cushion	2	NBR
89	DC80S1E.1.1.1-2	Motor Cover	2	POM
90	XDQ04-15	Motor	1	Binder
91	DC80S1E.1.1.1-8	Idler Washer	1	POM
92	DC80S1E.1.1.1.1.	Idler AS	1	Binder
93	DC80S1E..1.1.1-9	Front Fan Cover	1	PP116
94	DC80S1E..1.1.1-6	Condensation Fan	1	HS-PA66NM-30G
95	DC80S1E..1.1-5	Back Fan Cover	1	PP116
96	DC80S1E..1.1.1-1	Motor Fixture	2	Hot-dip galvanized sheet
97	DC80S1E..1.1-4	Circulate Fan Cover	1	PP116
98	XDQ09-04	Micro Switch	2	Binder
99	DC80S1E..1.1.2	Condensation AS	1	Binder
100	DC80S1E..1.1-3	Condensation Vent	1	PP116
101	DC80S1E.1.1-2.	Circulate Vent	1	PP116
102	DC80S1E..1.1-13	Micro Switch Cover	1	PP116
103	DC80S1E..1.1-12	Micro-V Belt	1	Poly belt 7PH1950
104	XDQ05-48\L=1.5M	VDE Power Cord	1	

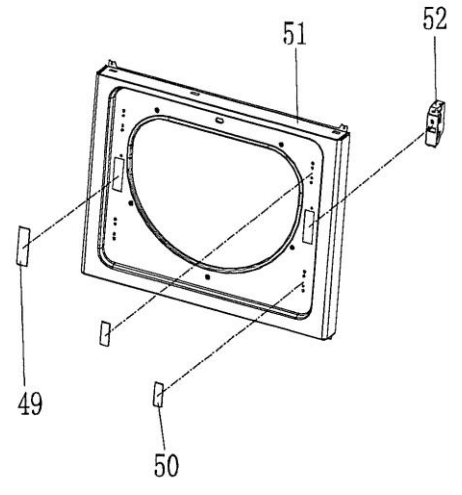
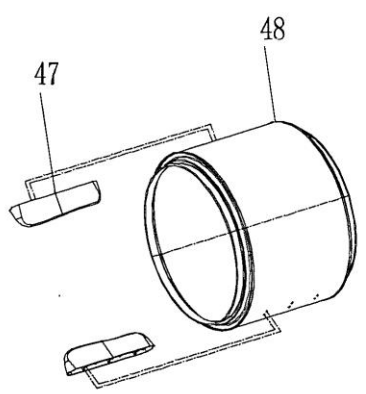
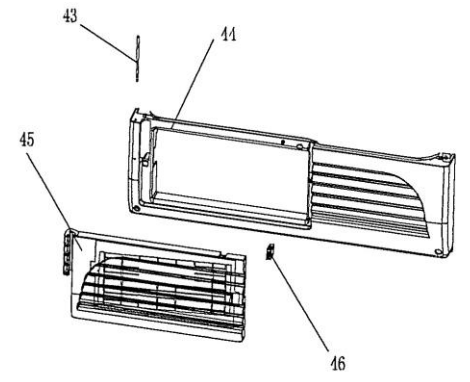
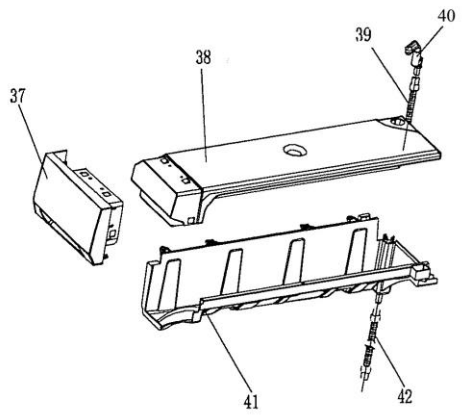
➤ 3. Picture of Complete Machine



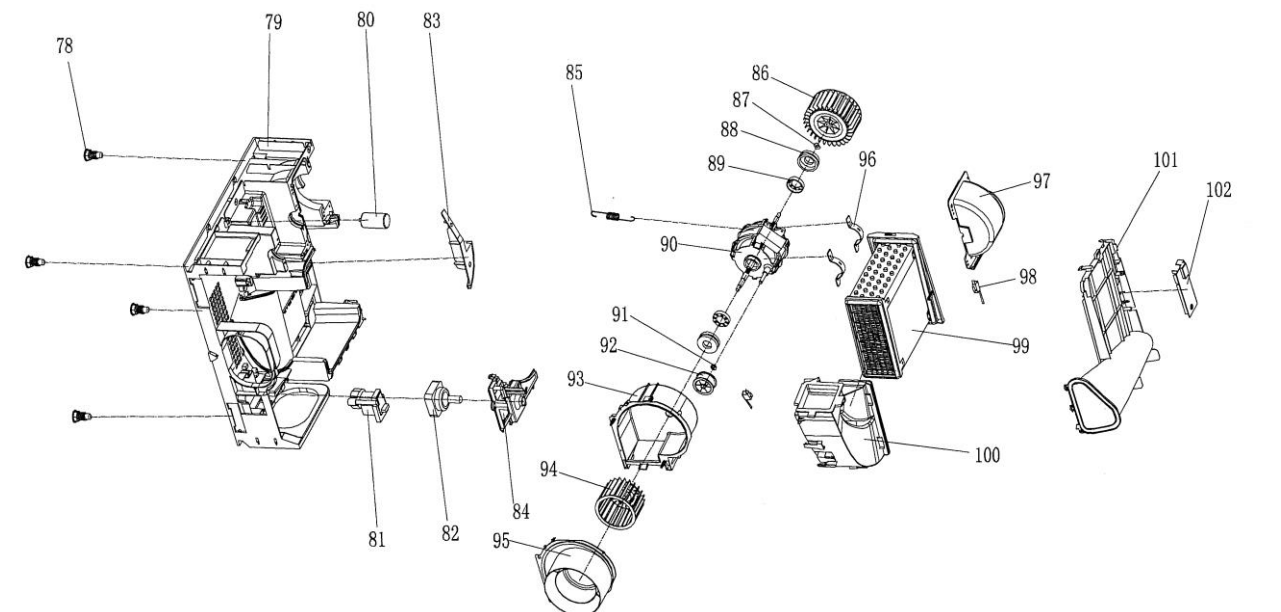
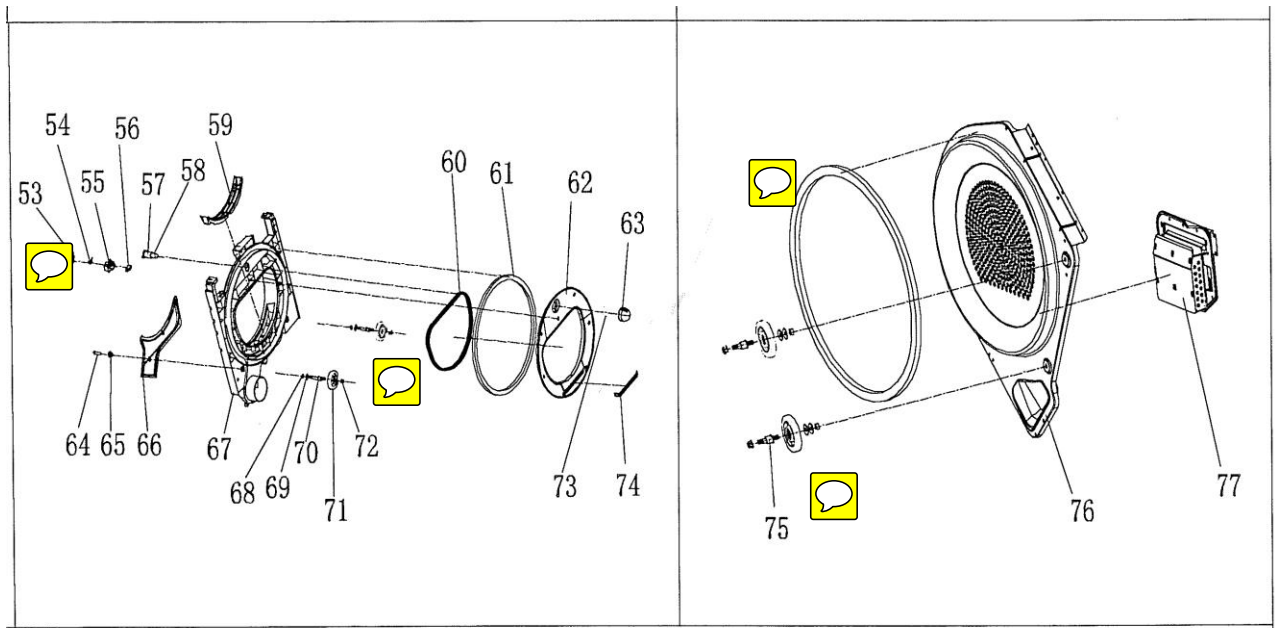
- |                    |                       |                   |         |
|--------------------|-----------------------|-------------------|---------|
| 1. Control Panel   | 2. Drainage container | 3. Fluff filter   | 4. Door |
| 5. Condenser cover | 6. Condenser          | 7. Adjustment leg |         |

➤ 4. Explosive view

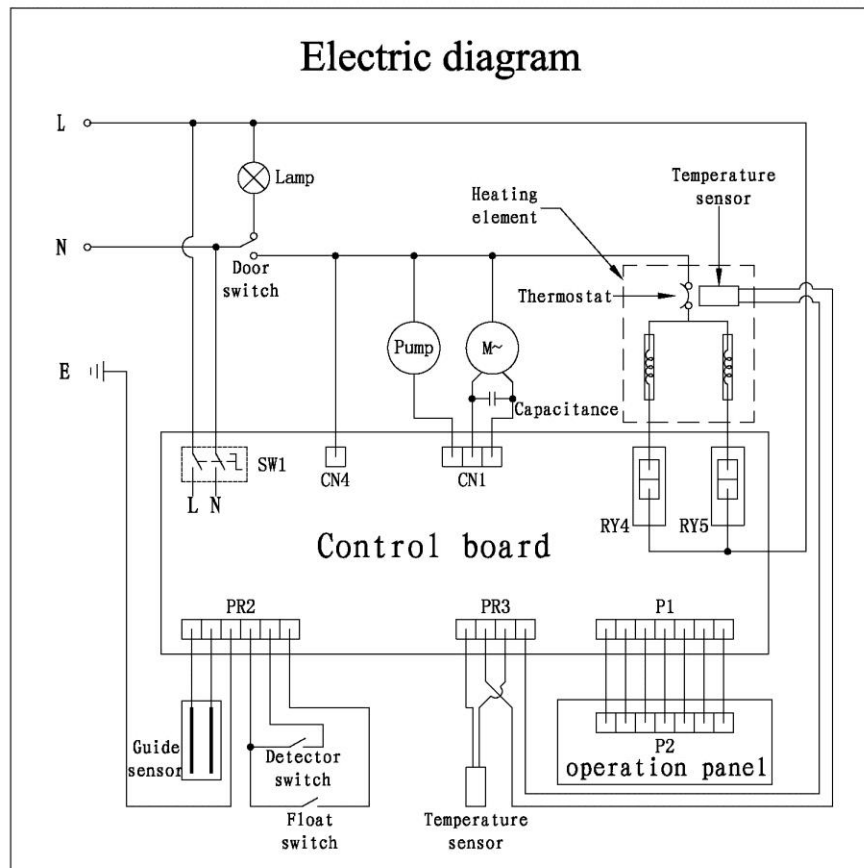




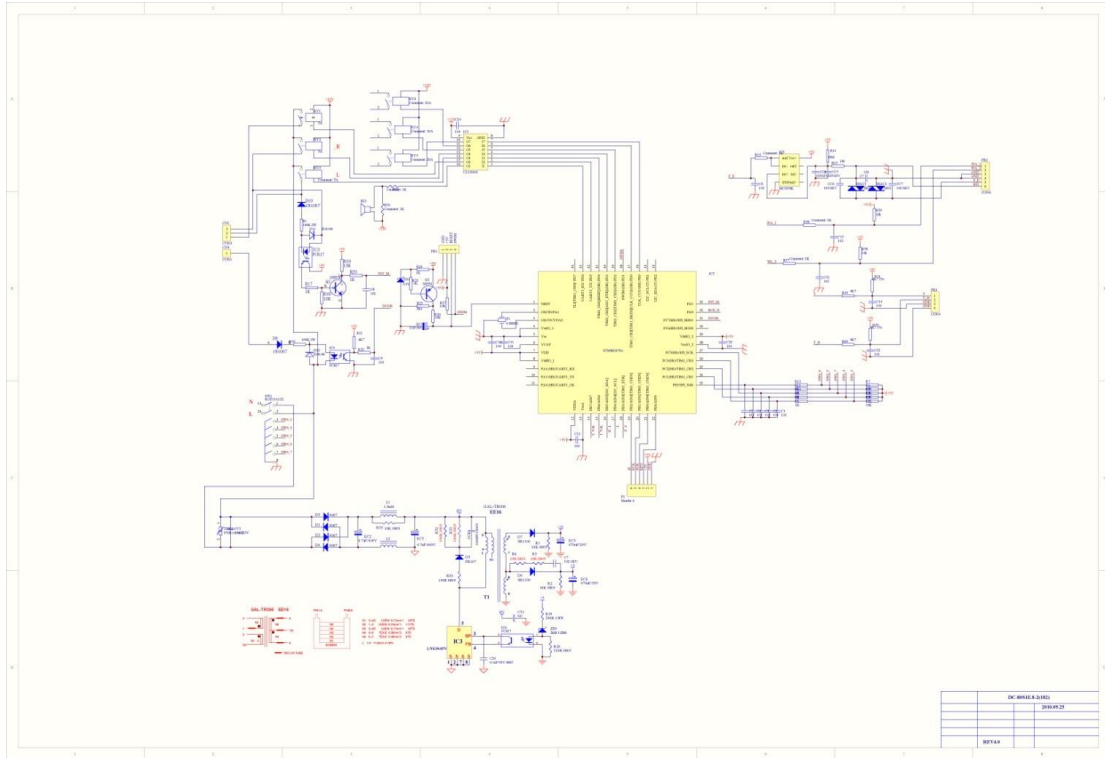




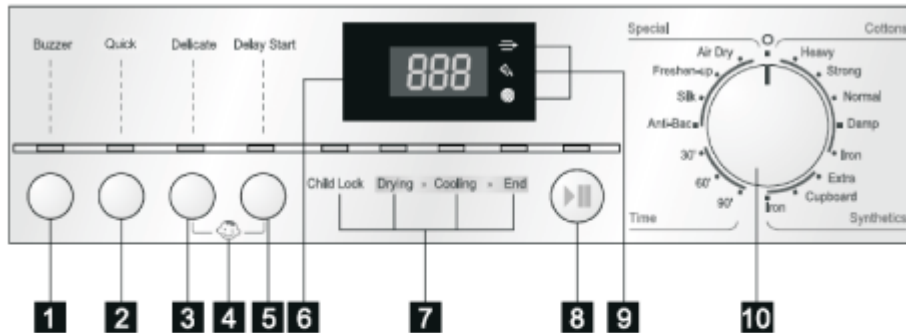
➤ 5. Electric Diagram



## ➤ 6. Circuit Diagram



## ➤ 7. Key Function



- |                     |                           |
|---------------------|---------------------------|
| 1. Buzzer           | 2. Quick                  |
| 3. Delicate         | 4. Delay Start            |
| 5. Child Lock       | 7. Indicator Lights       |
| 6. LED Display      | Child Lock                |
| 8. Start / Pause    | Drying                    |
| 9. Indicator lights | Cooling                   |
| Condenser unit      | End                       |
| Drainage container  | 10. Program selector dial |
| Fluff filter        |                           |

### “” Start/Pause button

Press this button to start or pause the machine. After choosing the Buzzer function, it will make out a “B” sound every time you press the button.

### “Delay Start” button

By pressing this button, you can select delay programme from 1~ 24 hours. This option must be selected after having selected the programme. After selecting the Buzzer function, it will make out a “B” sound every time you press the button.

### “Delicate” button

Different delicate programmes increase or decrease time. It will make a “B” sound every time you press the buttons after choosing the Buzzer function.

### “Quick” button

The drying time will decrease about 10 minutes after pressing this button, but this cannot combine with the function of Delicate.

### “Buzzer” button

- Press this button to turn on or off the Buzzer.

## **Child Lock combination key**

同时按下 “Delay Start” 和 “Delicate”

Press meantime “Delay Start” and “Delicate” button for several seconds to turn on or off the Child Lock Function.

## ➤ 8. Indicator Light Function

### **“Buzzer” light**

- This light indicates the Buzzer function is on. Pressing buttons after selecting required programmes or rotating the dial when the appliance is running, the appliance will make out buzzing sound. Buzzer light out indicates the Buzzer is off, so during the process it won't make our buzzing sound.

### **“Delicate” Light**

Delicate light is long on indicates the “Delicate” programme is selected. Delicate light out indicates this programme is not selected.

### **“Delay Start” Light**

“Delay Start” light is long on indicates “Delay Start” programme is selected.

“Delay Start” light is out indicates “Delay Start” function is not selected.

### **“Child Lock” Light**

“Child Lock” light indicates this function is on, or its off.

### **“Drying” Light**

This light indicated the appliance is in the drying phase.

### **“Cooling” Light**

This light indicates that the appliance is in the cooling phase.

### **“End” Light**

This light is on after all the phases are finished.

### **“Start/Pause”**

- When the programme is running, the “Start/Pause” light will be on. When the light is flashing, it indicates the programme is paused.

### **“Condensor” Light**

- It comes when all the selected programmes are finished, which remind you to clean the condenser.
- The light flashes when system experiences failure, during which the digital screen will display a corresponding fault code.

### “Tank” Light

It comes when the water container is full, which remind you to empty the water container.

### “Filter” Light

It comes one after each load to remind you to clean the filter.

### “Quick” Light

The light is on after selected this programme, or its not selected.

## 20. Program Function

Buttons		Buzzer	Quick	Delicate	Delay Start	Start/Pause	
(Programme)	COTTON	Heavy	2:50	2:40	3:40	○	○
		Strong	2:40	2:40	3:30	○	○
		Normal	2:30	2:40	3:20	○	○
		Damp	2:20	ErS	3:10	○	○
		Iron	2:10	ErS	3:10	○	○
	SYNTHETICS	Syn-Extra	1:40	ErS	2:10	○	○
		Syn-Cupboard	1:30	ErS	2:00	○	○
		Syn-Iron	1:00	ErS	1:30	○	○
	TIME	90 分 min	1:30	ErS	ErS	○	○
		60 分 min	1:00	ErS	ErS	○	○
		30 分 min	0:30	ErS	ErS	○	○
	SPECIAL	Anti-Bacterial	2:15	ErS	ErS	ErS	○
		Silk	1:50	ErS	ErS	ErS	○
		Freshen-up	1:00	ErS	ErS	ErS	○
		Air-Dry	0:25	ErS	ErS	ErS	○

Table 1, “ErS” unavailable “○” available

## ➤ 9. Fault Diagnosis Function

### (E1) Temperature Sensor Malfunction diagnosis (E1)

- (1) Condition: Temperature Sensor Malfunction or not connecting
- (2) System Reaction:

All the selected programmes stop. Indicator lights go out. The digital tube displays fault code" E1". All of the buttons and stall switch have no reaction. Whether the Buzzer is on or not, it will raise the Error alarm for 5 seconds every 5 minutes.

### (E3) Heating wire temperature sensor is open-circuit or short-circuit.

- (1) Condition: heating wire temperature sensor malfunction.
- (2): system reaction:

All the selected programmes stop. Indicator lights go out. The digital tube displays fault code" E3". All of the buttons and stall switch have no reaction. Whether the Buzzer is on or not, it will raise the Error alarm for 5 seconds every 5 minutes.

### (E2) Heating wire assembly malfunction diagnosis

- (1) condition

Temperature never gets to 32°C even though the system works with no stop to the end of the cooling process under the “**Heavy**” 、 “**Strong**” 、 “**Normal**” these three switches. Do not detect the malfunction when the appliance suspended and door open during the operation.

- (2) system reaction

All the selected programmes stop. Indicator lights go out. The digital tube displays fault code" E3". All of the buttons and stall switch have no reaction. Whether the Buzzer is on or not, it will raise the Error alarm for 5 seconds every 5 minutes.

### door lock diagnosis (dop)

- (1) Condition

The door is opened when the system starts or during the operation. When the door is opened at the end of the cooling process, the operation is finished.

- (2) system reaction

All the selected programmes stop. Indicator light is the same to suspend. The digital tube display fault code “**dop**” . Except the “Start/Pause” and “Buzzer” buttons, the rest have no reaction, same to the stall switch. When the door is closed, the system gets to a normal suspension state.

### Selection procedure error diagnosis

(1) Condition

①Under the state of programme selected, the system selects programme which is not selected.

②Stall switch changes switch during normal operation.

(2) system reaction

The digital tube displays fault code “Ers”, then it displays the setting time or the time rest. If the digital tube flashes the fault code while the Buzzer function is on, then the system will Buzz the alarm.

### (E6) Condenser malfunction diagnosis

(1) Condition: Condenser is removed

(2) System reaction

All the selected programmes stop. “Condenser” indicator light flashes. Digital tube displays fault code “E6”. All of the buttons and stall switch have no reaction. Whether the Buzzer is on or not, it will raise the Error alarm for 5 seconds every 5 minutes.

### Water tank diagnosis

(1) Condition: The water in tank is full

(2) system reaction

All the programmes stop. System gets into the state of suspension, and the “Tank” flashes in the digital indicator light.

### ➤ 10 Malfunction Code

fault code	E1	E2	E3	dOP	ErS	E6
fault	temperature sensor open-circuit or short-circuit	Heating wire not working	heating wire temperature sensor open-circuit or short-circuit	door is opening	selection procedure error	Condenser is removed



➤ 11 Breakdown Maintenance

NO.	Malfunction	fault indicator light	Possible Cause	Solution
1	<b>Temperature Sensor CTN</b>	E1	1、 whether the sensor is malfunctioning? 2、 Is the plug plugged in firmly? 3、 Is it short-circuit?	1、 replace the sensor 2、 re-plug in 3、 replace the wire
2	heating wire temperature sensor open-circuit or short-circuit	E3	1、 Is the heating wire temperature sensor malfunctioning? 2、 Whether the plug is plugged in firmly? 3、 Is it short-circuit?	1、 re-plug in 2、 replace the wire 3、 replace the heating wire
3	<b>heating wire assembly</b>	E2	4、 1、 Is the plug plugged in firmly? 2、 Whether the heating wire is malfunctioned?	1、 re-plug in the plug 2、 replace the heating wire
4	<b>door open</b>	dop	5、 1、 Is the plug plugged in firmly? 2、 Whether the Micro-switch is malfunctioned?	1、 replace the Micro-switch 2、 re-plug in the plug
6	<b>condenser</b>	E6	1、 Is the condenser installed not good enough? 2、 Is the Micro-switch malfunctioned? 3、 Is the plug contact poor?	1、 Re-install condenser in the right way. 2、 replace the Micro-switch