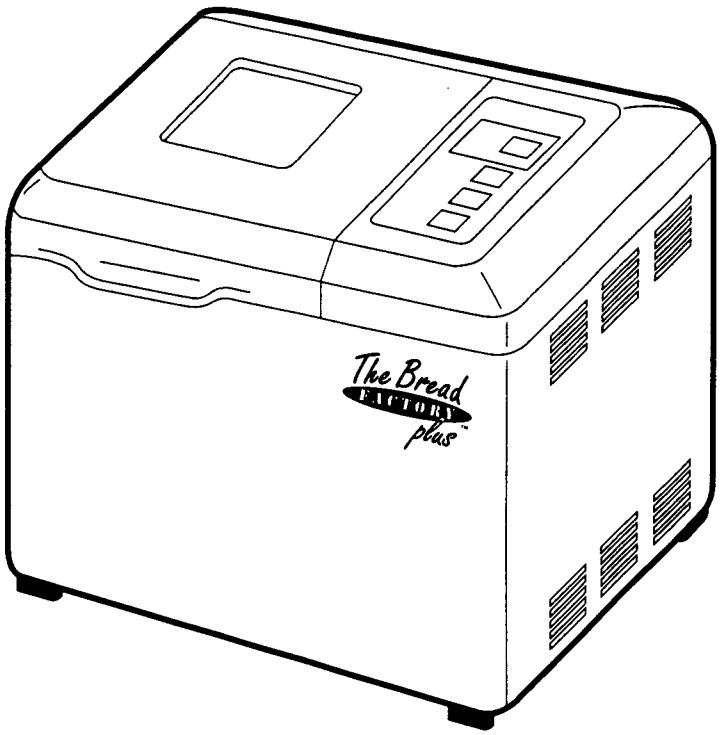
SANYO

FILE NO. A-5457

SERVICE MANUAL Automatic Bread Maker SBM-20 (Australia)



PRODUCTION CODE No.
343631205

REFERENCE NO. SM-680048

1. Specifications

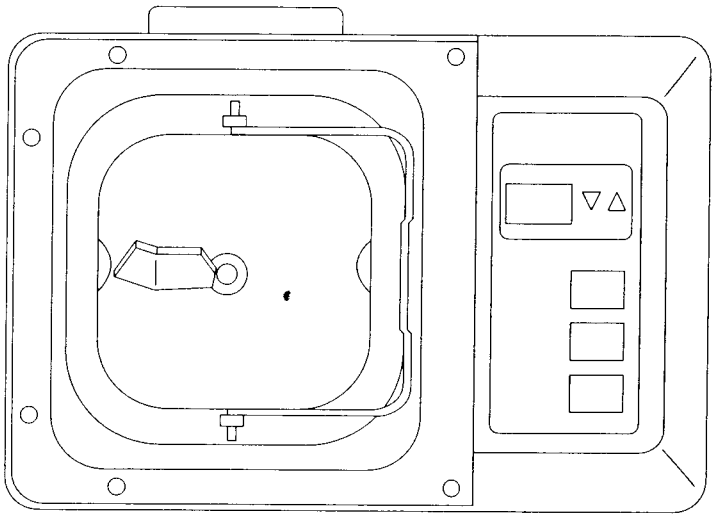
Power Source			240V (50Hz)
Power Consumption	Heater		470W
	Main Motor	50 Hz	100W
Outer Dimensions			34.0 (W) x 25.0 (D) x 33.7 (H) cm
Weight			Approx. 6.5 kg
Timer			2 Hrs 50 min. up to 12 Hrs.
Cord			Approx. 1.8 m length
Thermal Fuse			Baking temp. 192℃
Accessories			Cook book, Instruction manual

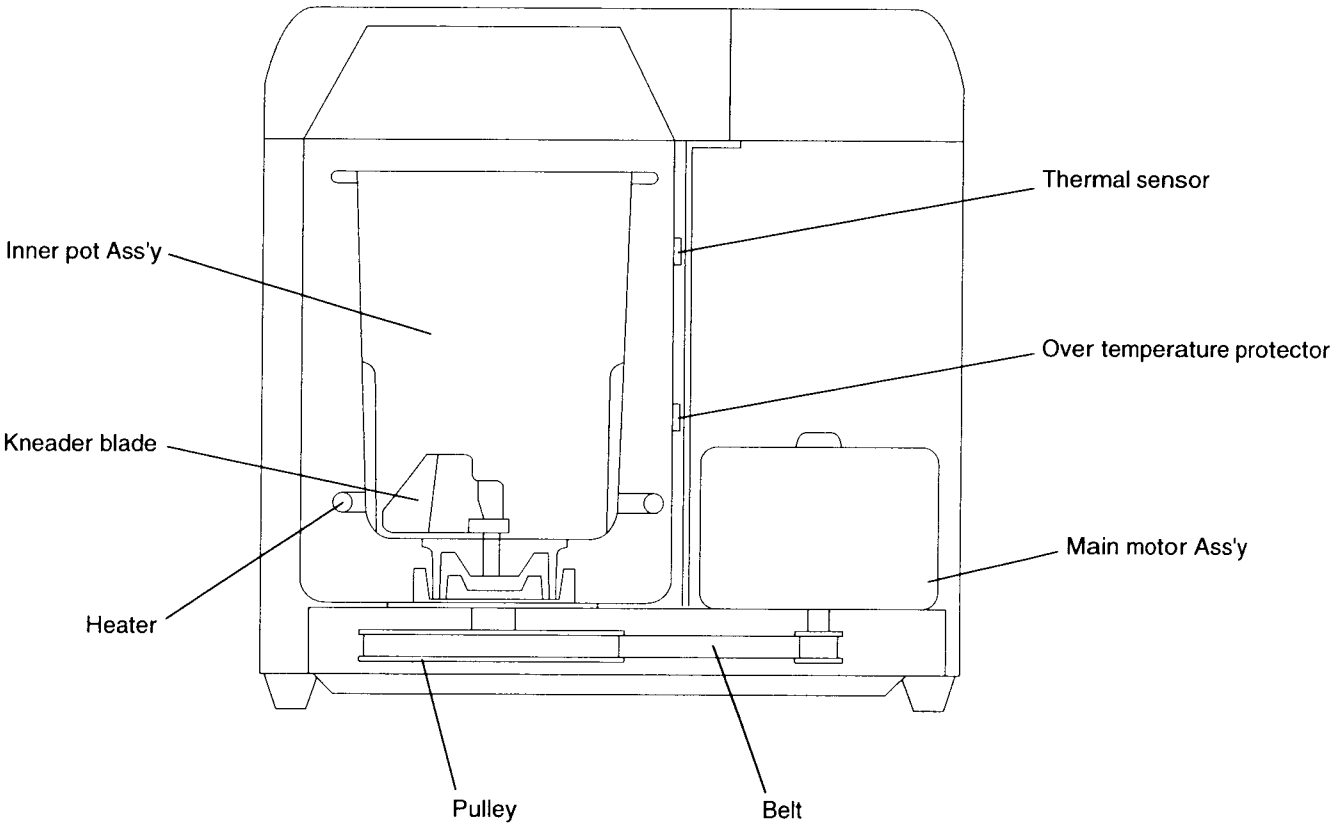
2. Constructions and Operation Procedures

1. Constructions

The kneader blade attached to the inner pot ass'y is rotated by the main motor by way of the pulley and the belt. The ingredients inside of the inner pot are kneaded by the kneader blade. The inside of the temperature is controlled by the thermal sensor and the heater between the processes of "kneading" and "baking".

Outline of Constructions

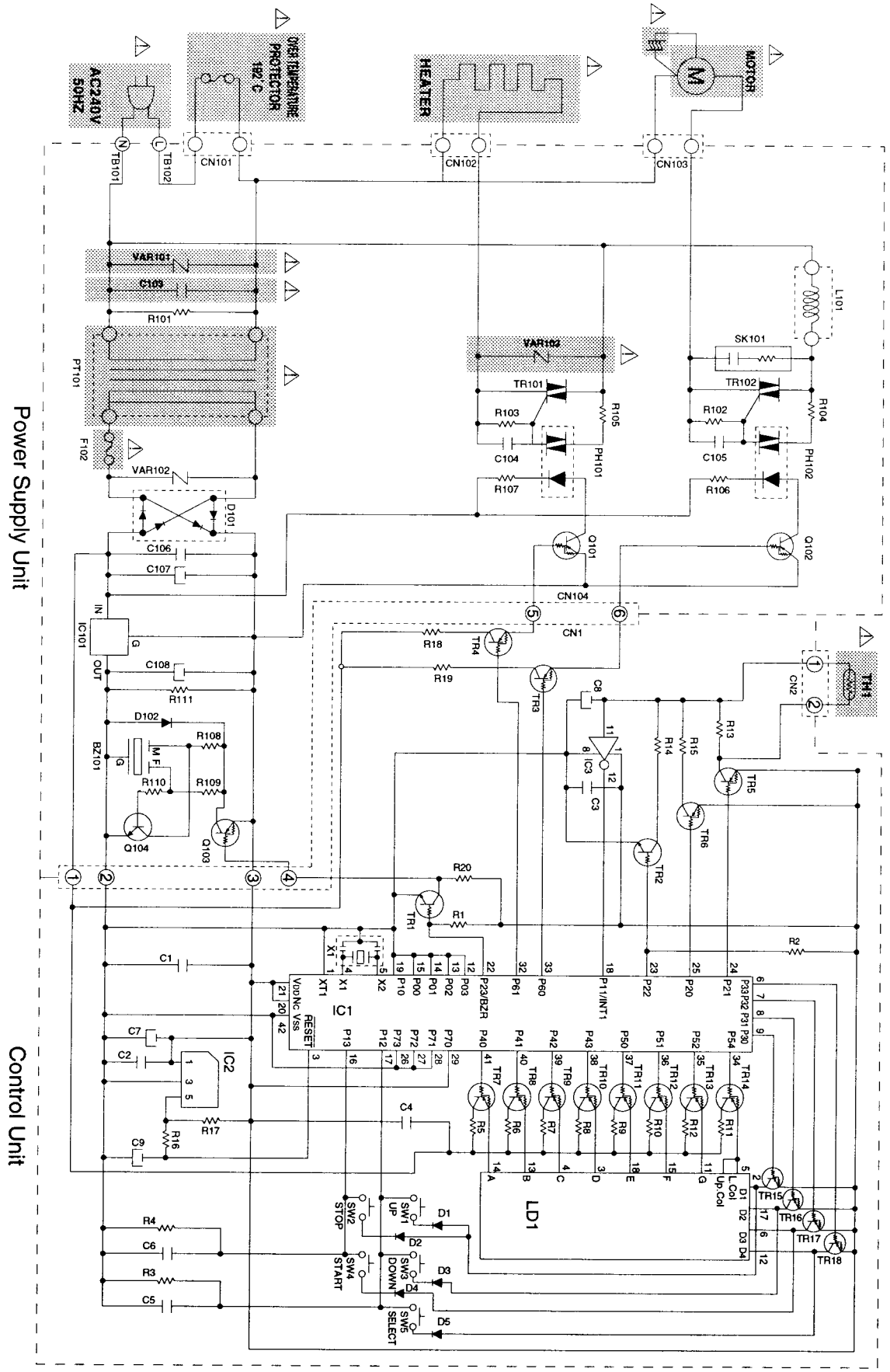




3. Circuit Diagram

The sign ⚠ :

The parts marked with ⚠ have special characteristics important for safety.
When replacing any of these parts, use only manufacturer's specified parts.



(ELECTRICAL PARTS LIST)

POWER SUPPLY UNIT

SYMBOL	SPECIFICATION
IC101	IC AN7905 or UPC7905HF
TR101	Triac TM561S-L
TR102	Triac TM361S-L
D101	Diode Stack 1B4B42 or DBB10B
D102	Diode GMA01
Q101,Q102,Q103	Digi. Tra. 2SA1348
Q104	Transistor 2SC1815-Y
VAR101	Varistor ERZV07D431U or ERZC07DK431U or ERZC07DK431
VAR102	Varistor ERZC10DK270
VAR103	Varistor MFCN08D431K
PH101,PH102	Photo Triac. S21ME3 or S21ME3Y
SK101	Spark Killer ECQJ0186X
C103	Metallized Film Cap. 0.1μF 250V
C104, C105	Metallized Film Cap. 0.1μF 50V
C106	Ceramic Cap. 1.5μF 25V
C107	Electrolytic Cap. 2200μF 25V
C108	Electrolytic Cap. 1000μF 25V
R101	Carbon 2.7MΩ 1/2W
R102,R103	Flameproof Carbon 100Ω 1/2W
R104,R105	Metal Oxide 220Ω 1W
R106,R107	Flameproof Carbon 680Ω 1/2W
R108	Carbon 620Ω 1/4W
R109	Carbon 150kΩ 1/4W
R110	Carbon 3.9kΩ 1/4W
R111	Metal Oxide 150Ω 1W
BZ101	Piezo Buzzer PKM24SP-3805
L101	Coil SL02B121
PT101	Power Transformer ETP35KCN61TU
F102	Fuse 315mA 250V

CONTROL UNIT

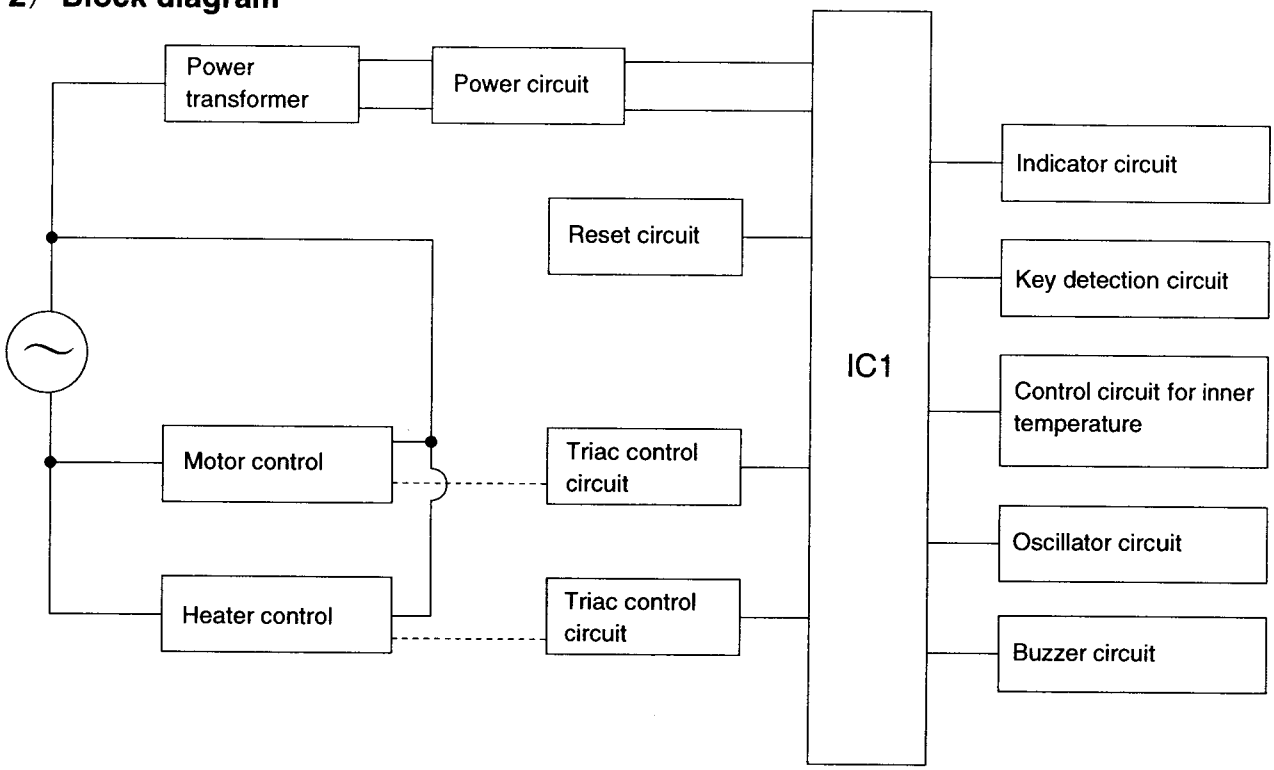
SYMBOL	SPECIFICATION
IC1	IC UPD75006CU-081
IC2	IC M51943BL
IC3	IC MLC4049B
LD1	LED GL3P404N
TR1, TR2	Digi. Tra. UN6215
TR3, TR4, TR5, TR6, TR7, TR8, TR9, TR10, TR11, TR12, TR13, TR14	Digi. Tra. UN611F
TR15, TR16, TR17, TR18	Digi. Tra. UN6124
D1, D2, D3, D4	Diode GMA01
C1, C2, C3, C4	Ceramic Cap. 1.5μF25V
C5, C6	Ceramic Cap. 1000pF50V
C7	Electrolytic Cap. 100μF6.3V
C8	Electrolytic Cap. 0.33μF50V
C9	Electrolytic Cap. 4.7 μF50V
R1, R2	Carbon 4.7kΩ 1/4W
R3, R4	Carbon 2.2kΩ 1/4W
R5~R12	Carbon 1.2kΩ 1/4W
R13	Metal Film 11kΩ 1/4W
R14	Carbon 100Ω 1/4W
R15	Metal Film 1.5kΩ 1/4W
R16	Carbon 47Ω 1/4W
R17	Carbon 100kΩ 1/4W
R18, R19	Metal Oxide 330Ω1W
R20	Carbon 330Ω 1/4W
X1	Ceramic Osc. CST4.19MGW-TF01
SW1, SW2, SW3, SW4, SW5	Key Switch EVQ-215-05R or SKHVBE

4. Operational Principles

1) Operation procedures

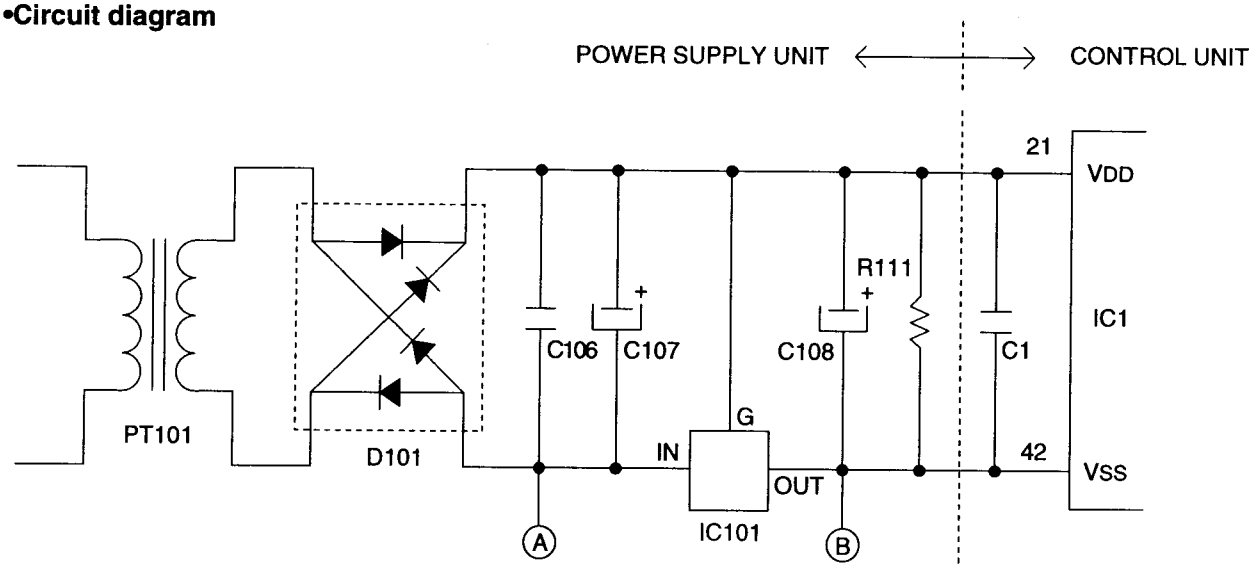
Refer to the separate instruction manual.

2) Block diagram



3) Power circuit

•Circuit diagram



•Voltage at each point (Ground is shown as V_{DD})

Ⓐ -13V Ⓑ -5V

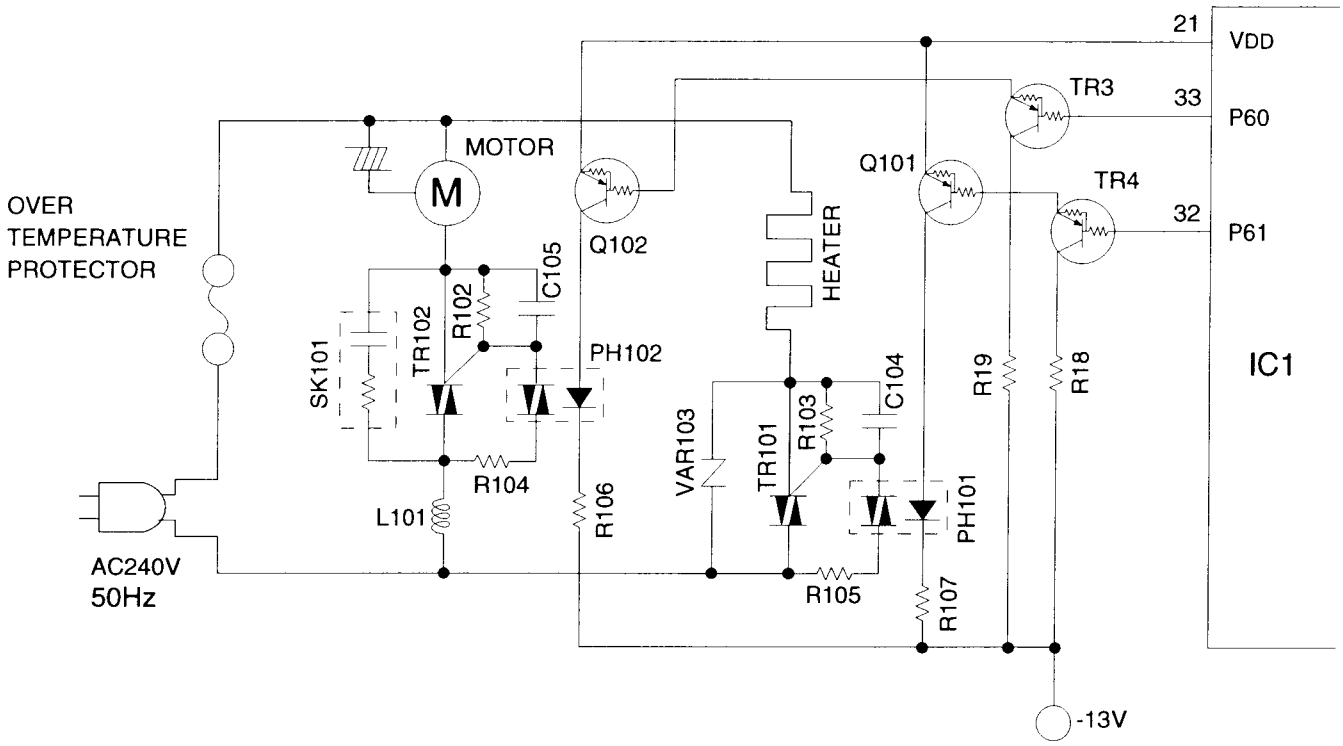
•Description of operation

(1) V_{DD}-V_{SS} Power supply (-5V)

The secondary output of the power transformer (PT101) is given bridge-rectification by the diode stack (D101) and the condenser (C107) to produce -13V voltage at A. The voltage at A is used to compose B -5V power supply by the operation of constant voltage circuit consisting of 3-terminal output voltage regulator (PRIMARY:IC101).

4) Heater and motor control circuits

•Circuit diagram



•Description of operation

(1) Heater control circuit

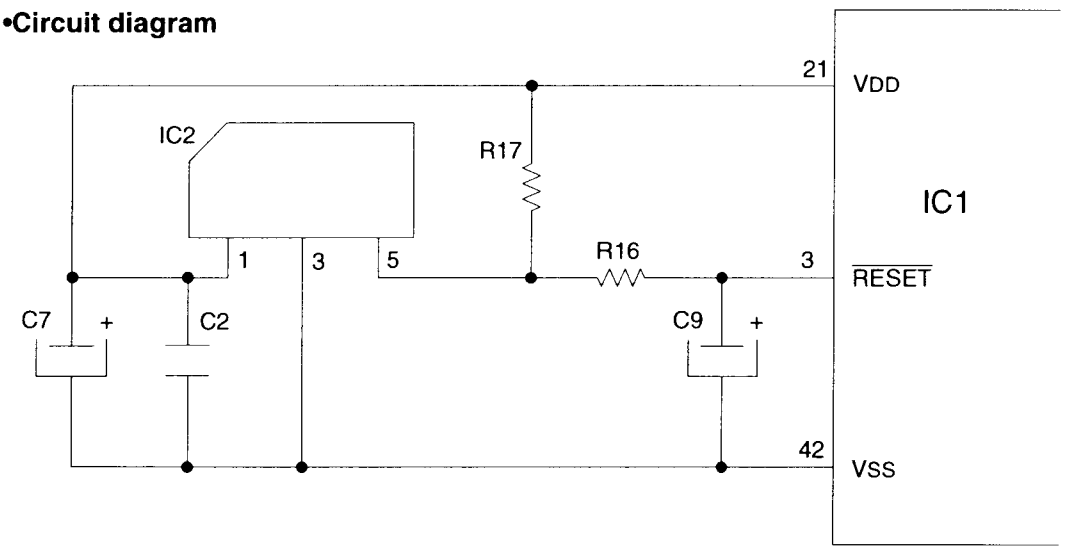
When the voltage at pin 32 of the microcomputer (IC1) becomes Low (-5V), the signal will drive transistor (TR4),transistor (Q101),photo triac (PH101), and then triac (TR101) to operate the heater.

(2) Motor control circuit

When the voltage at pin 33 of the microcomputer (IC1) becomes Low (-5V), the signal will drive transistor (TR3),transistor (Q102),photo triac (PH102), and then triac (TR102) to operate the motor.

5) Reset circuit

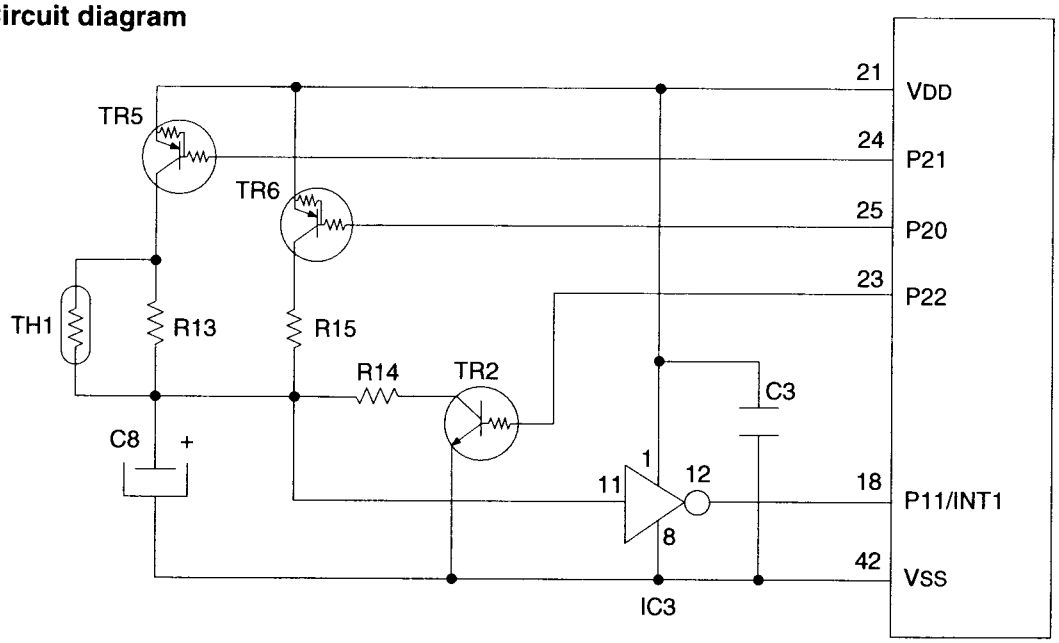
•Circuit diagram



(1) The reset circuit generates the signal which resets the microcomputer.

6) Control circuit for inner temperature

•Circuit diagram

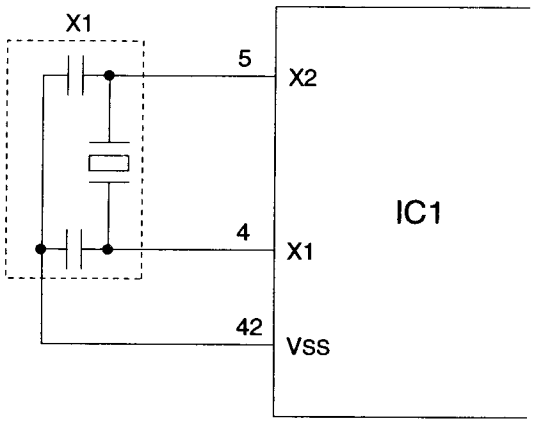


•Description of operation

(1) The circuit controls the inner temperature during the timer setting and start of operation.

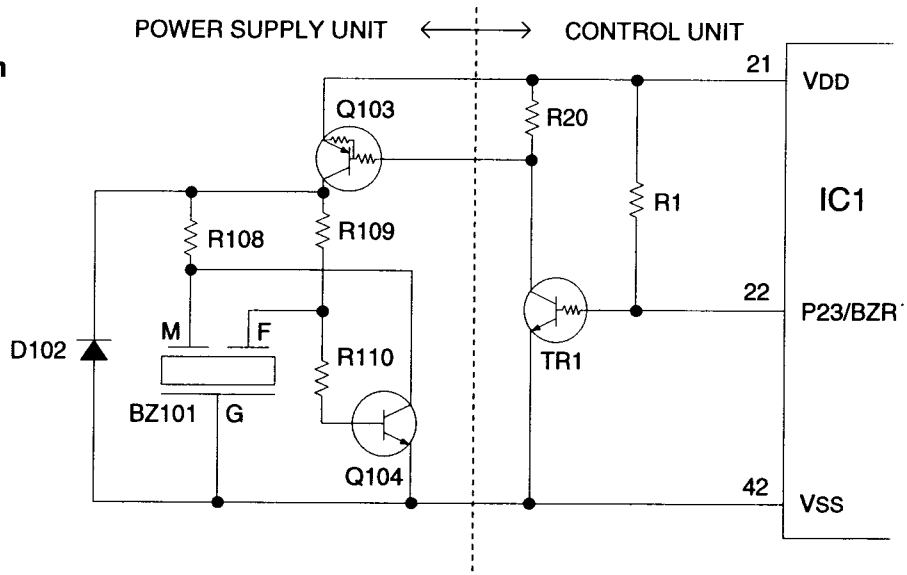
7) Oscillator circuit

•Circuit diagram



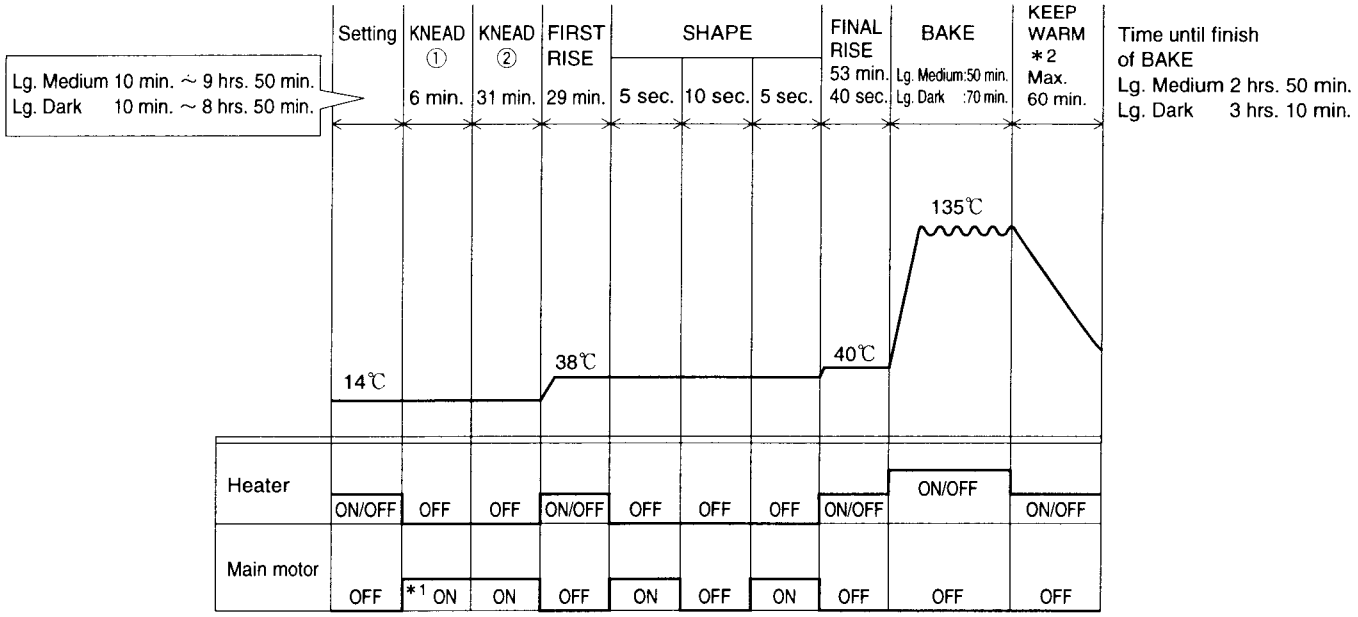
8) Buzzer circuit

•Circuit diagram

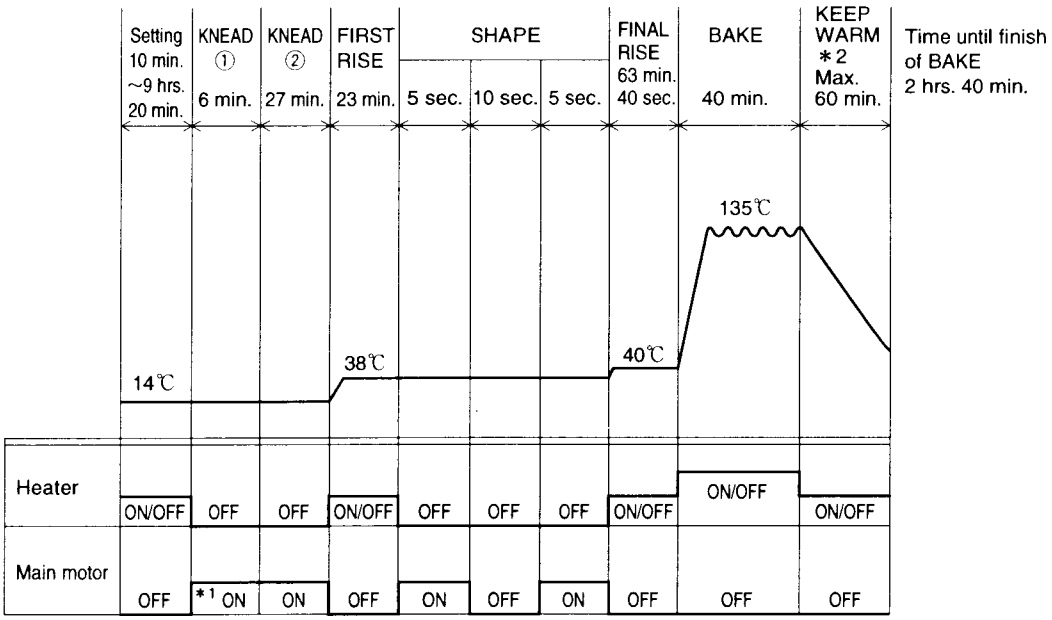


5. Characteristics of Baking (Operation Processes)

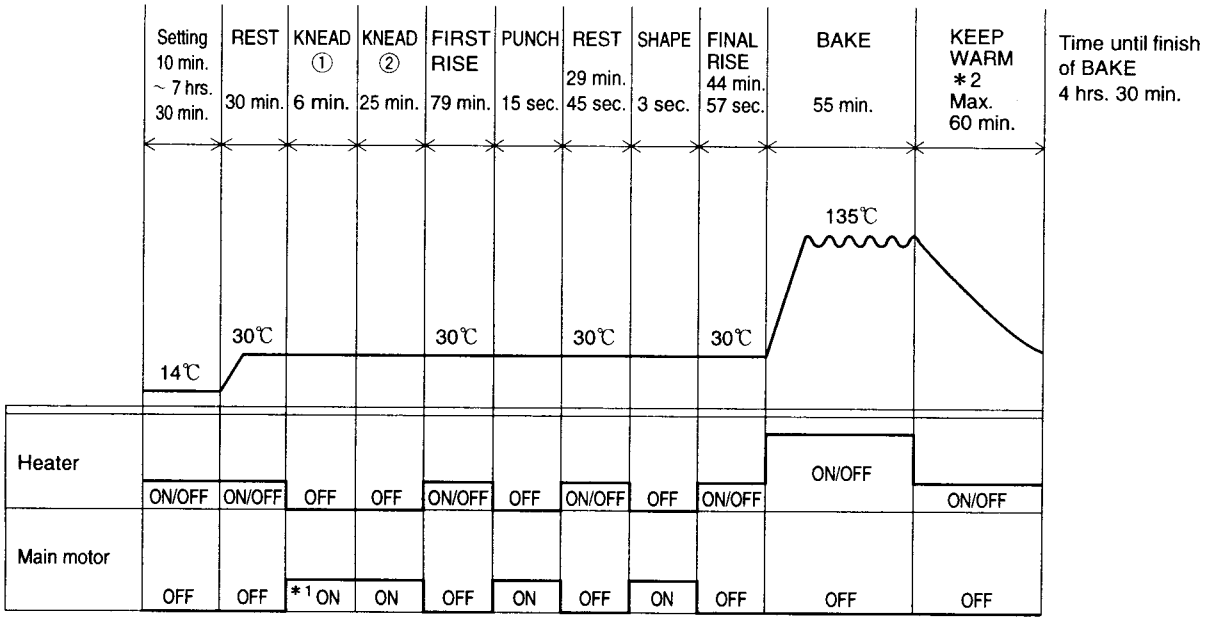
•Basic (Lg. Medium) (Lg. Dark) course



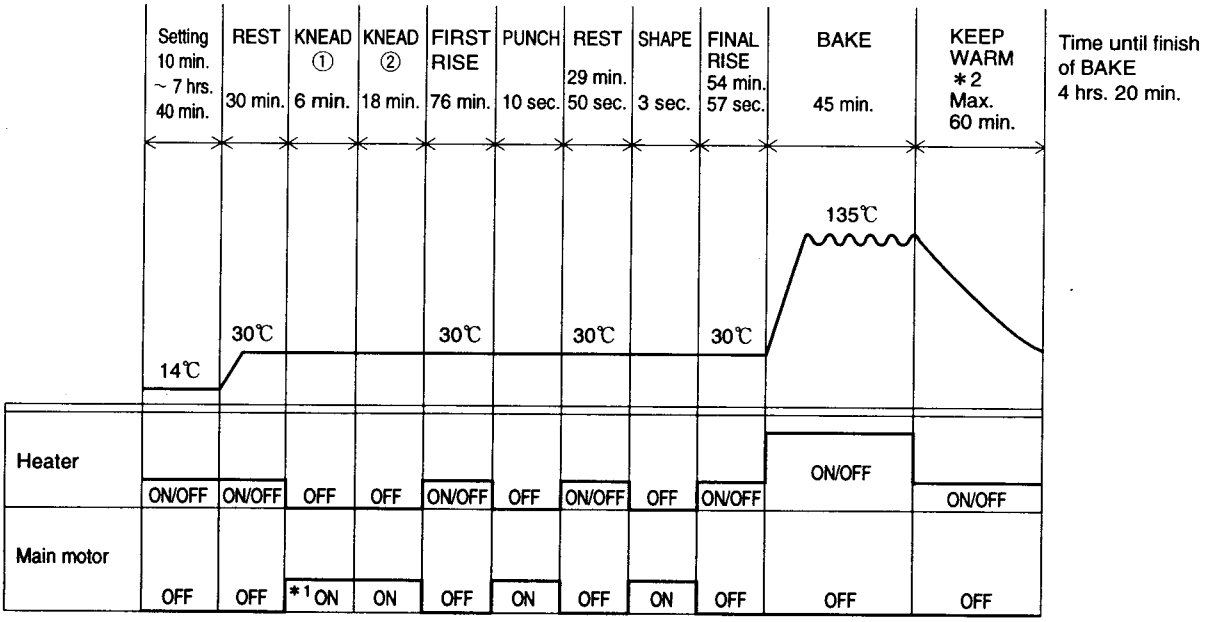
•Basic (Reg.) course



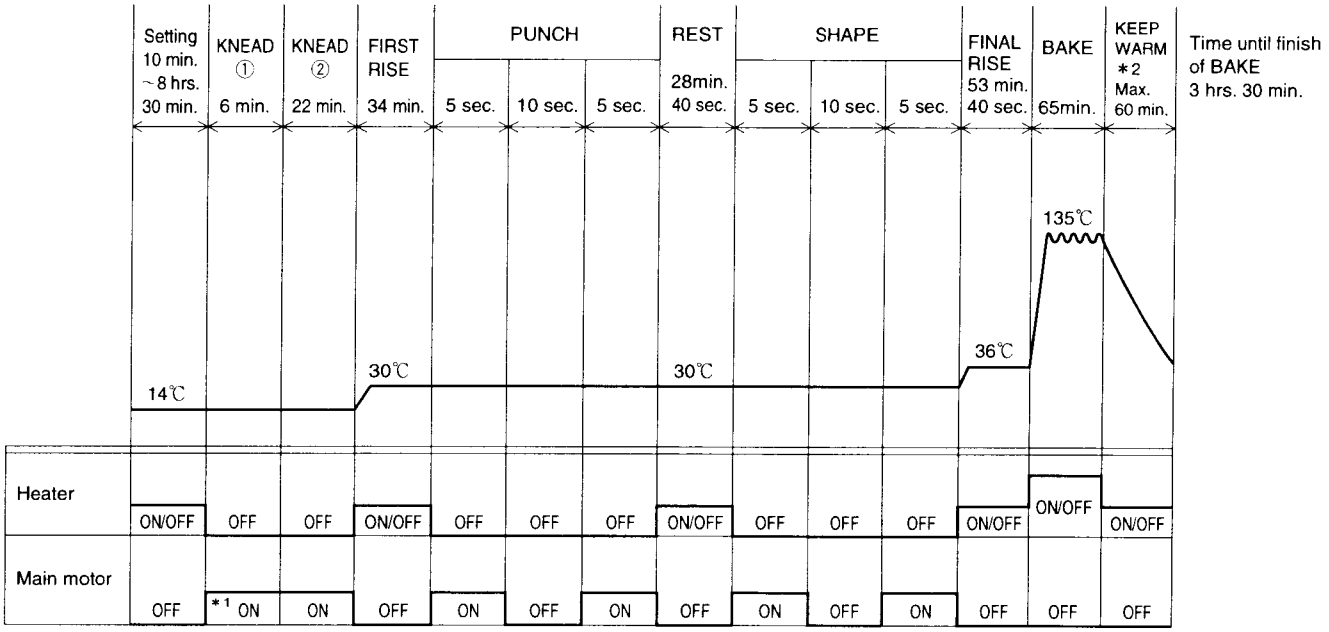
•Whole Wheat (Lg.) course



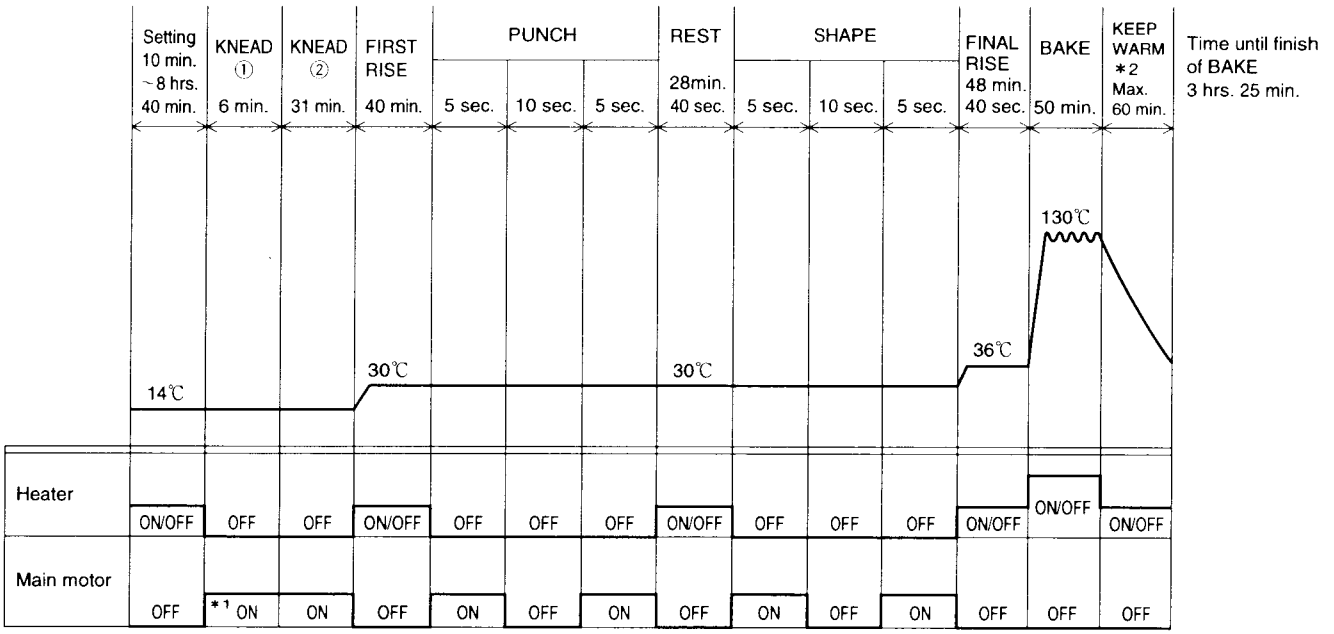
•Whole Wheat (Reg.) course



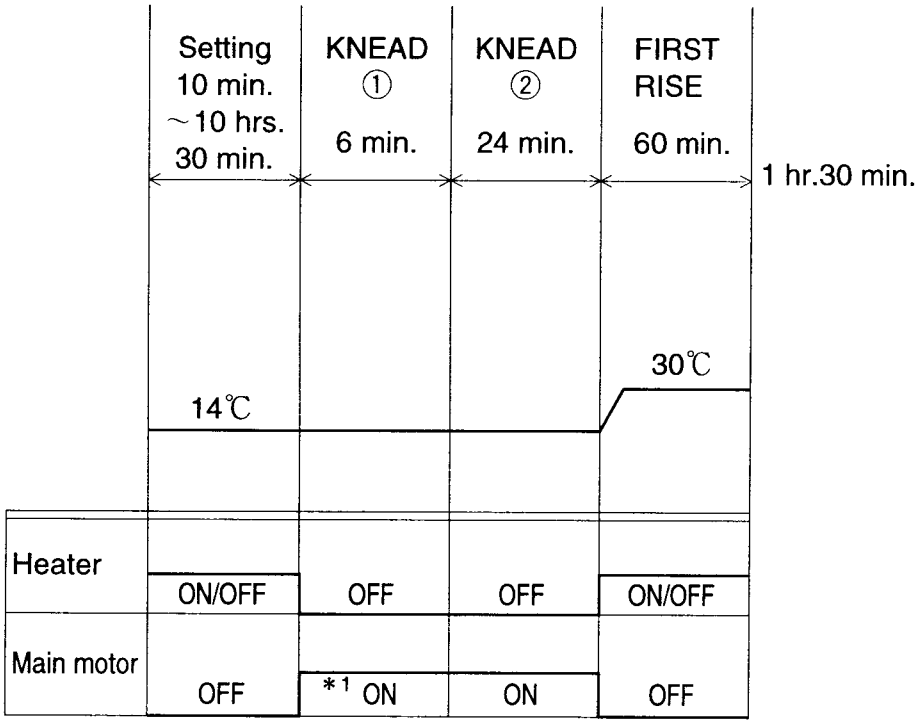
•French course



•Sweet course



•Dough course



*1 During the first 6 min. of the KNEAD ① process, the main motor is operated intermittently.

*2 The KEEP WARM process is maximum 60 minutes. Even if within 60 minutes, when temperature of sensor is over 80 temperature impressed, the keep warm is completed.

6. Indications and Operation

		Indication	Key					Operation	Remarks
			START	STOP	SELECT	▲ (up)	▼ (down)		
(1) POWER ON		0.00						0.00 only flashes at 1.66Hz.	When power supply cord is turned on.
	Basic operation								
	Operation against input		×	○	○	×	×	Key input is neglected. (While error is sounding)	
								To STOP (2)	
								To SELECT (3)	
								Key input is neglected. (While error is sounding)	
								Key input is neglected. (While error is sounding)	
(2) STOP									
	Basic operation							No indication	When STOP switch is depressed in the condition (1).
	Operation against input		×	○	○	×	×	Key input is neglected. (While error is sounding)	
								To STOP (2)	
								To SELECT (3)	
								Key input is neglected. (While error is sounding)	
								Key input is neglected. (While error is sounding)	

			Indication	Key					Operation	Remarks
				START	STOP	SELECT	▲ (up)	▼ (down)		
(3) SELECT		Basic operation	1						"1" is indicated.	When SELECT switch is depressed in the condition (1) or (2).
		Operation against input		○	○	○	○	○	Menu selected with the SELECT key is started. To STOP (2) The display changes with each SELECT switch input. To TIMER SETTING (4) To TIMER SETTING (4)	For menu display, see the instruction manual.
(4) TIMER SETTING		Basic operation	▲ (up) 2:50 ▼ (down) 2:50						"2:50" is displayed. (In case of Basic (Lg. Medium))	When ▲ (up) or ▼ (down) switch is depressed in the condition (3).
		Operation against input		○	○	○	○	○	Starts according to timer setting. To START (6) To STOP (2) Moves on to menu select (5) of timer settings. TIMER SET time increases in 10 minute increments. TIMER SET time decreases in 10 minute increments.	•When pressed, time is added at high speed. •When pressed, time is subtracted at high speed.

			Indication	Key					Operation	Remarks
				START	STOP	SELECT	▲ (up)	▼ (down)		
(5) Menu select in timer settings.		Basic operation	: 1							When SELECT switch is depressed in the condition (4).
		Operation against input		○	○	○	○	○	The time preset by the timer setting key are starts counting. To START (6) To STOP(2) Returns to display in timer settings. Returns to timer setting time display. To TIMER SET (5) Returns to timer setting time display. To TIMER SET (5)	Course change is not carried out. Display time is counted up 10 minutes. Display time is counted down 10 minutes.
(6) START		Basic operation	2:50						Displays baking time. Operation starts for baking time selected by the SELECT key. The colon (:) changes from being steadily lit to flashing, and the display is counted down 1 minute at a time.	When the START key is pressed after selection or when the timer has been set.
		Operation against input		×	○	×	×	×	Key input is neglected. Moves on to STOP (2) with input of 1 second or more. Key input is neglected. Key input is neglected. Key input is neglected.	

			Indication	Key					Operation	Remarks
				START	STOP	SELECT	▲ (up)	▼ (down)		
(7) Keep warm mode		Basic operation	0:00						The colon (:) in the "0:00" display flashes.	Changes to "keep warm" mode after baking is complete.
		Operation against input		×	○	×	×	×	Key input is neglected. To STOP (2) Key input is neglected Key input is neglected. Key input is neglected.	
(8) Keep warm complete		Basic operation	0:00						The colon (:) changes from flashing to being steadily lit.	Warning ends 1 hour after start of keep warm mode, or when oven temperature is 80℃ or more.
		Operation against input		×	○	×	×	×	Key input is neglected. (No error warning) To STOP (2) Key input is neglected. (No error warning) Key input is neglected. (No error warning) Key input is neglected. (No error warning)	

Demonstration(for inspection)

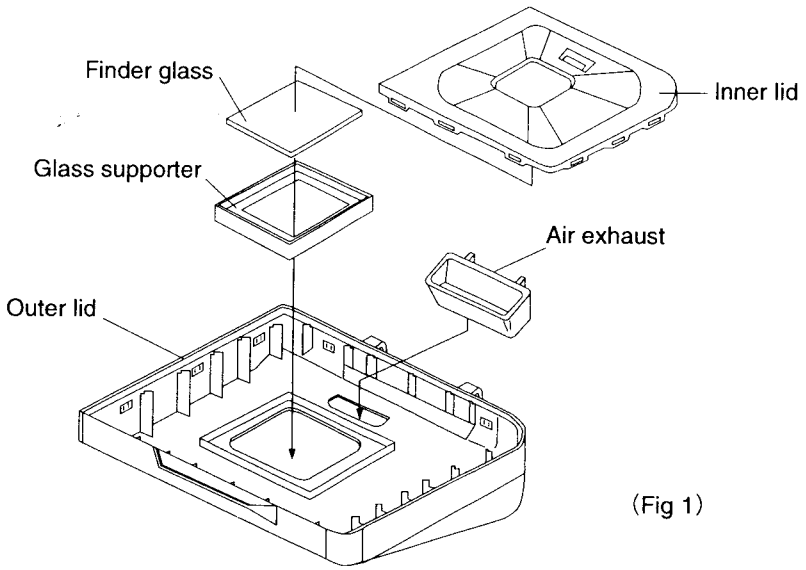
Inspection demonstration mode is set when power plug is connected to the power outlet while depressing all of SELECT,DOWN and START switches.
Operation is the same as ordinary one. Only exception is that depressing of UP key at the time of starting makes the process move to the following one.

7. Disassembly Procedures

1. Disassembly of lid

(1) Remove the fitting screws on the left side of the lid hinge. Open the lid and, while lifting its left side slightly, slide rightward to dismount the lid ass'y.

(2) Finder glass, glass supporter and air exhaust can be dismounted by removing tab of outer lid fixing inner lid. (Fig. 1)



(Fig 1)

2. Disassembly of main unit

(1) The bottom lid can be dismounted by removing 4 fitting screws and 4 feet on the bottom lid.

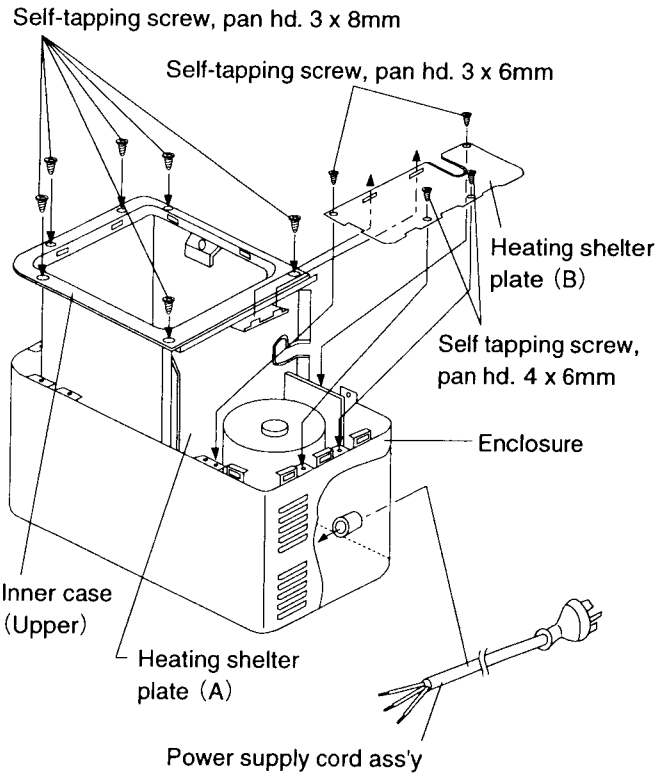
(2) The power supply cord can be removed by unfastening 3 screws on the terminal ass'y and the screw on the cord bushing (Fig. 2)

(3) Removing the fitting screw on the rear surface of control panel. The control panel can be removed from the main unit by removing tab of control panel out of enclosure, through pressing rightward on the rear surface of control panel. The control panel can be dismounted by removing detached 2 sockets from the control PCB ass'y.

(4) The control PCB ass'y can be removed from control panel by removing the 2 fitting screws and tab of control panel.

(5) Remove the 4 fitting screws of the heating shelter plate (B). The heating shelter plate (B) can be dismounted by setting tab of heating shelter plate (A) to its horizontal position. (Fig. 2)

(6) The main unit can be pulled up after removing 6 fitting screw of inner case (upper), and the main unit can be separated out of enclosure. (Fig. 2)



(Fig. 2)

(7) Cut the 3 fixers that hold the lead wire.
Then, remove the following sockets: socket from the motor (blue socket), socket from the heater (white socket), socket from the over temperature protector ass'y (yellow socket).

(8) The power supply PCB can be dismounted by removing the 2 fitting screws of power supply PCB and the fitting power supply PCB and fitting screw of power supply PCB supporting plate and lead wire 105L from the terminal ass'y (blue and brown wire).

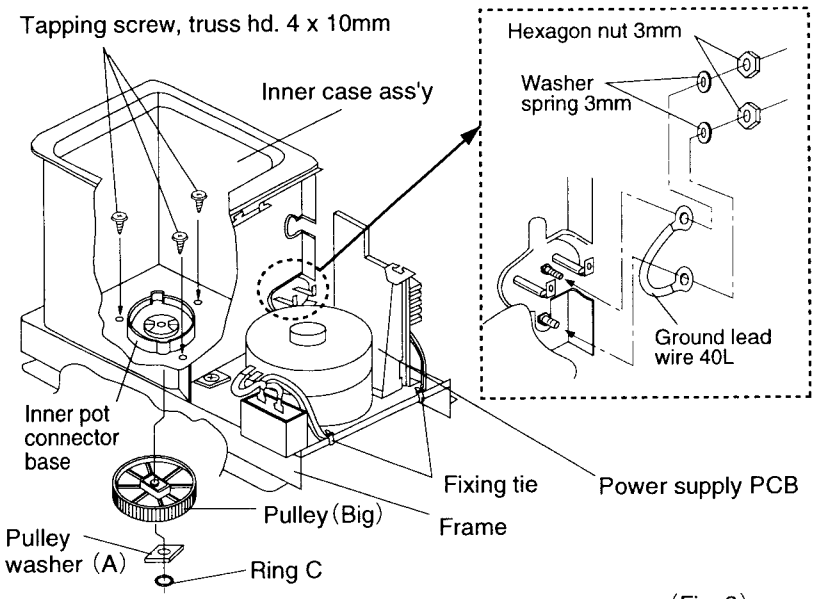
(9) The capacitor can be dismounted by removing the fitting screw.

(10) By removing the 3 main motor fitting screws, the main motor ass'y and belt can be removed from frame.

(11) The pulley (big) and pulley washer can be dismounted by removing the pulley (big) fitting ring.

(12) The heating shelter plate (A) can be dismounted by removing the 2 fitting screws of heating shelter plate (A).

(13) The inner pot connector base ass'y and inner case ass'y can be separated by removing the 3 fitting screws of inner pot connector base ass'y. (Fig. 3)



(Fig. 3)

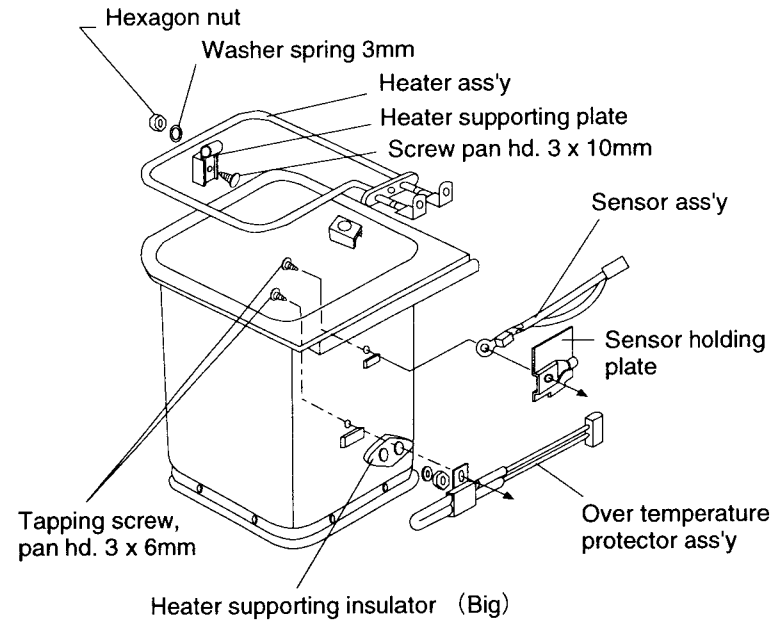
(14) Pull out the 2 sockets of the lead wire from the heater. The ground lead wire 40L can be detached be removing its 1 fitting nuts. By removing the heater fitting nut and heater supporting insulator fitting nut, the heater ass'y can be dismounted from the inner case.

(15) By removing the fitting screw of the heater supporting plate,the heater supporting plate and the heater supporting insulator (small) can be dismounted from heater ass'y.

(16) By removing the 2 fitting nuts of the heater supporting insulator (big), the heater supporting insulator (big) can be dismounted from inner case.

(17) The over temperature protector unit can be dismounted by removing the screw inside of the inner case which is fixing the over temperature protector unit.
The over temperature protector ass'y can be removed by straightening the fixing tab of the over temperature protector support. (Fig. 4)

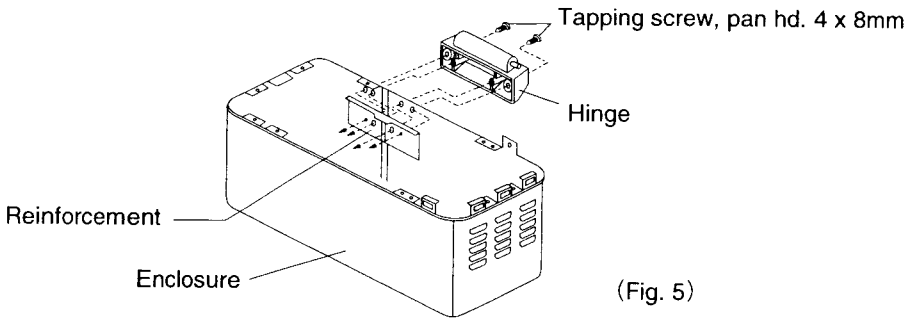
(18) The sensor ass'y and the sensor holding plate can be dismounted by removing the screw inside of the inner case which is fixing the sensor ass'y. (Fig. 4)



(Fig. 4)

(19) The inner pot support spring can be taken out by removing its fitting screw.

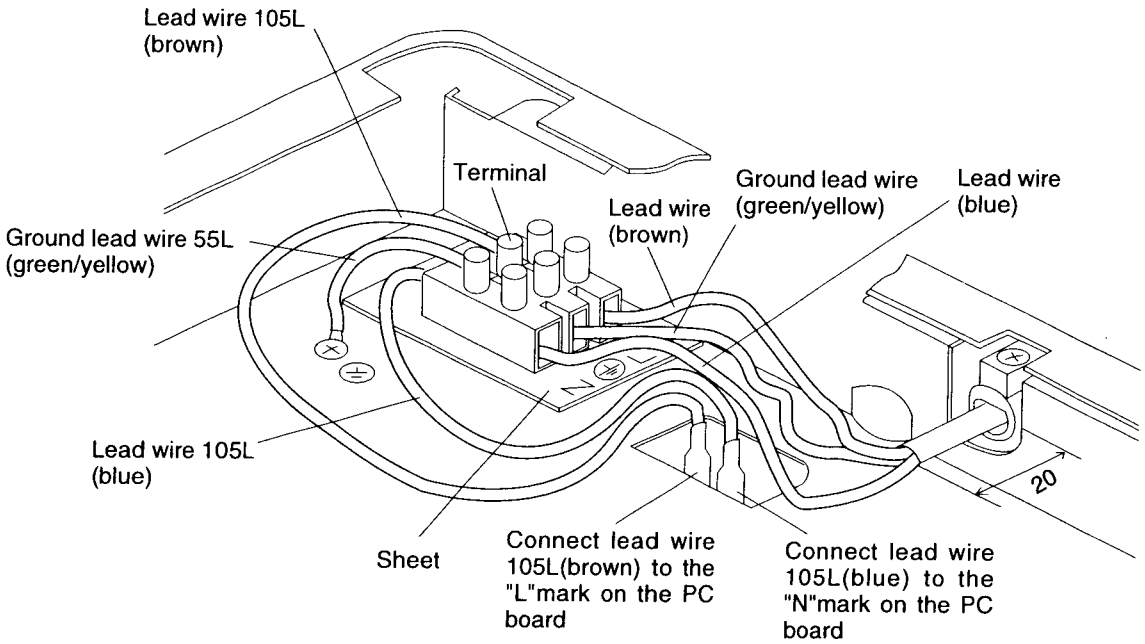
(20) By removing the 2 hindge fitting screws, the hinge and reinforcement can be dismounted from enclosure. (Fig. 5)



(Fig. 5)

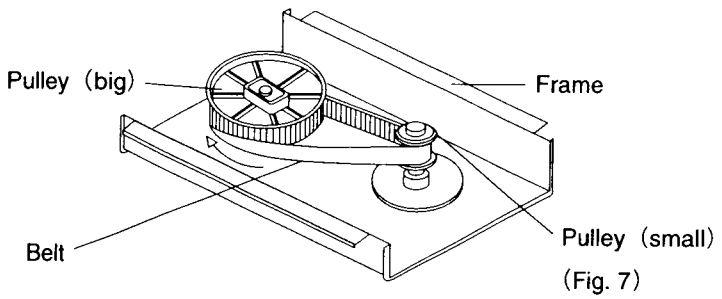
Precaustions for Reassembly

1. When mounting the power supply cord, the cord bushing should be attached to the cord holder so that the dimension between the bushing and the exit of the lead wire is approx. 20 mm. (Fig. 6)
   For wiring of the terminal section,see Fig.6.



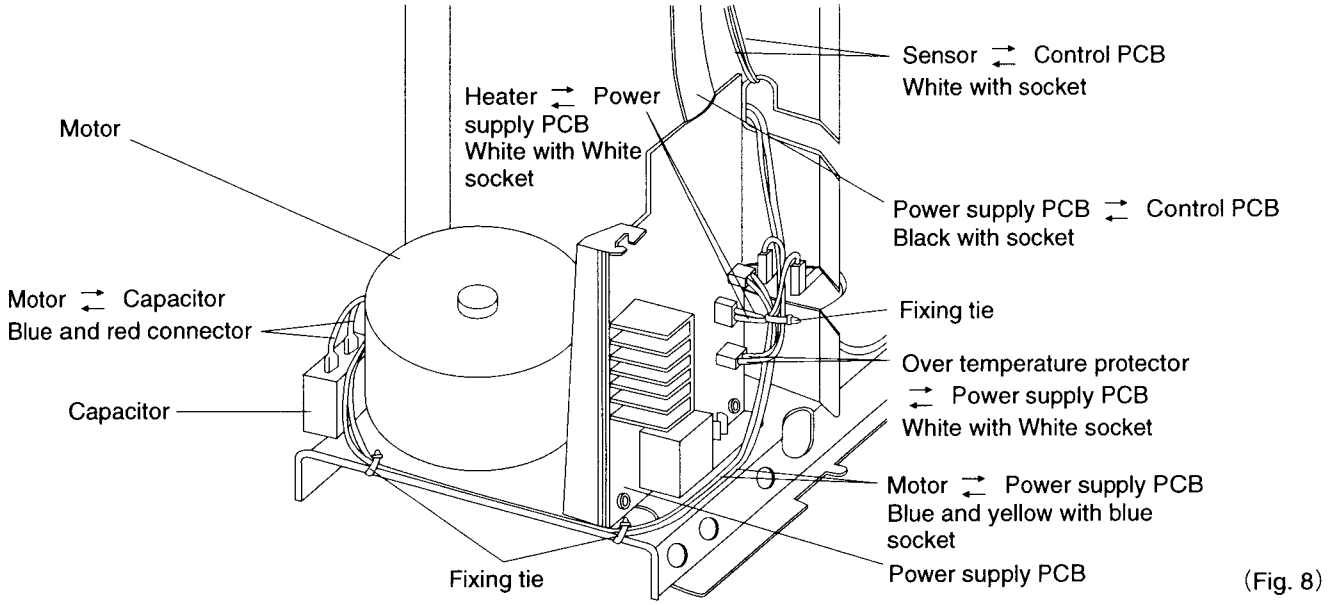
(Fig. 6)

2. When mounting the belt, the belt is hooked on the pulley (small) is hooked partially from the lower side of the pulley (big). The belt is wrapped on the pulley (big) by turning on the pulley (big). (Fig. 7)



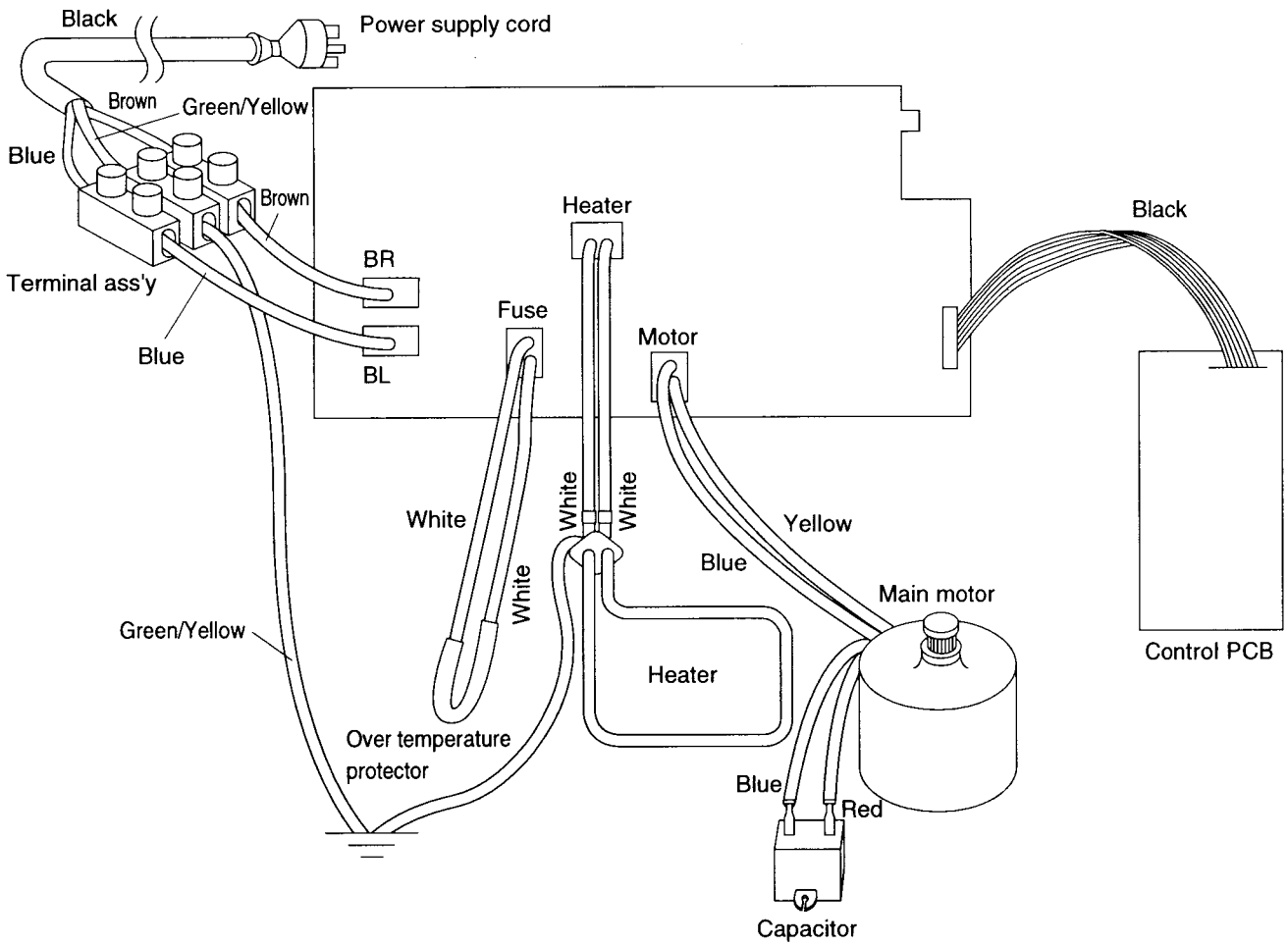
(Fig. 7)

3. Wiring should be made as shown in the specified wiring diagram. (Fig 8)

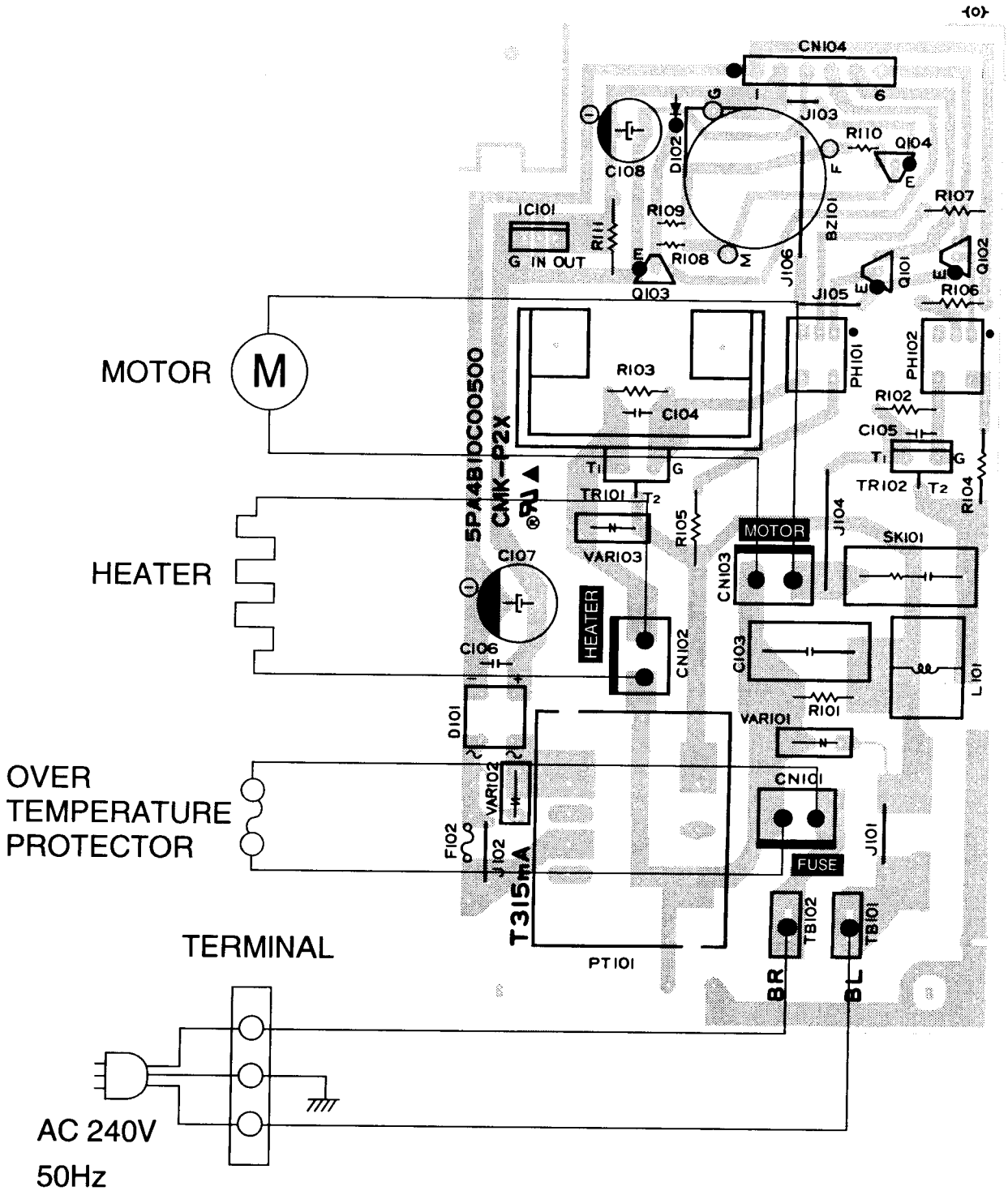


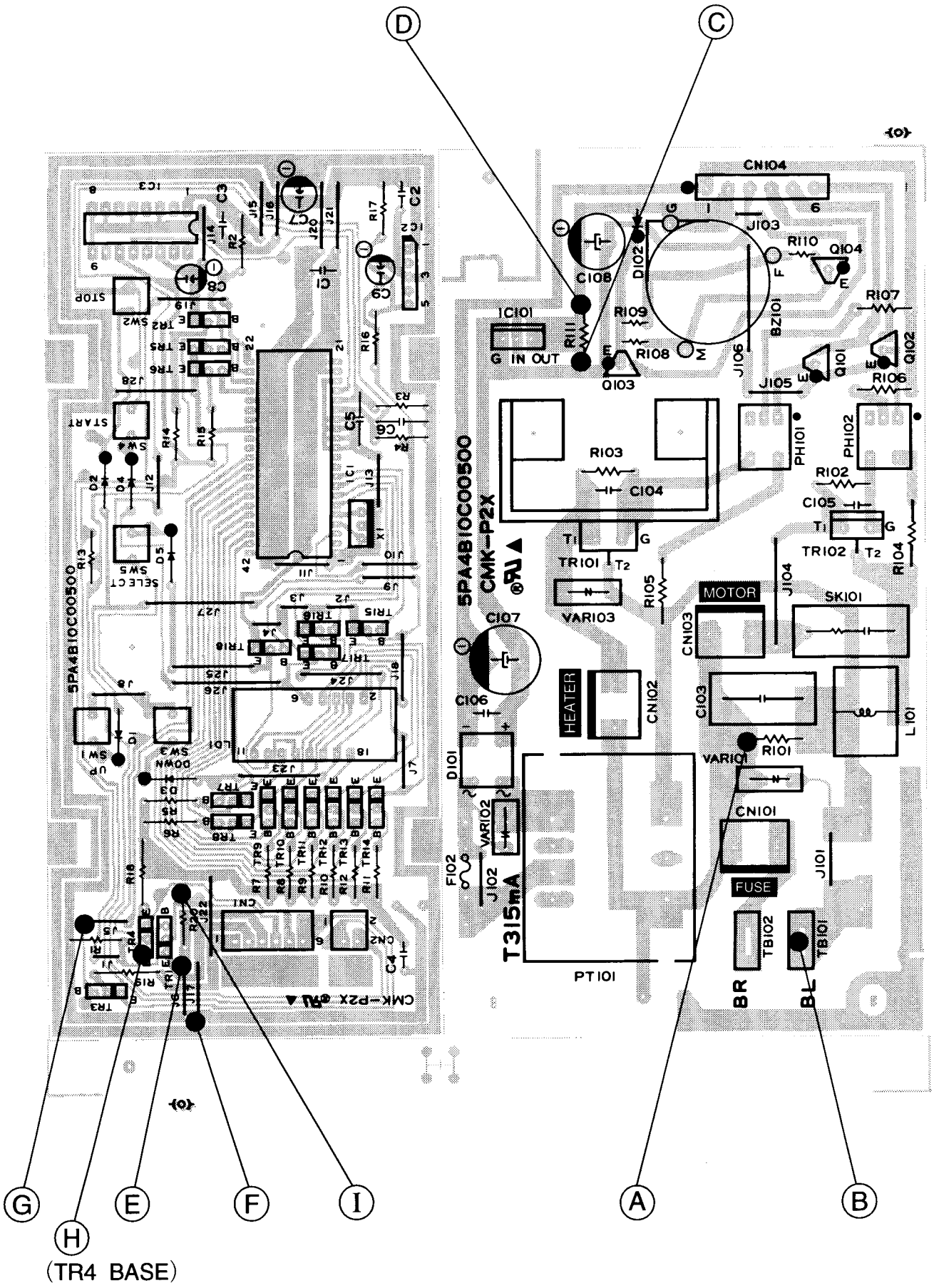
(Fig. 8)

Illustration of Wiring



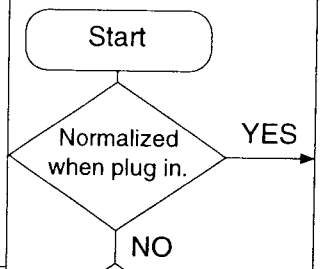
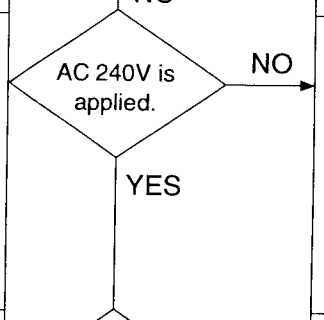
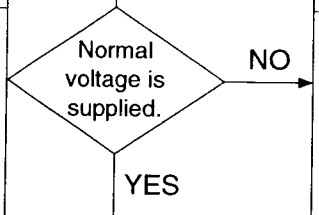
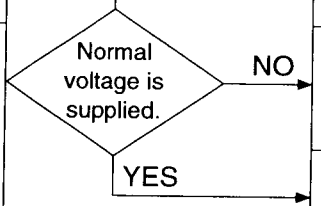
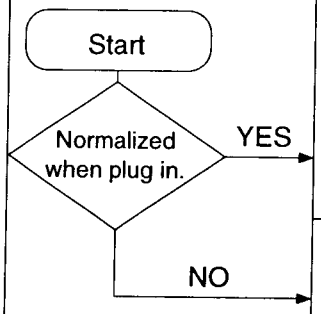
8. Wiring Diagram for Repair

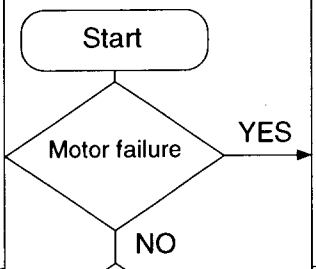
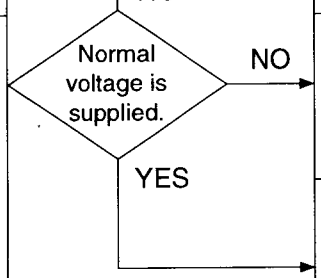
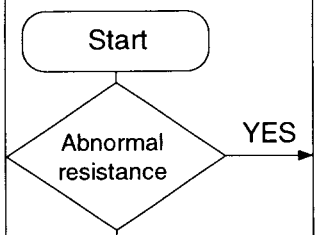
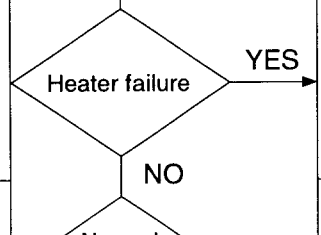
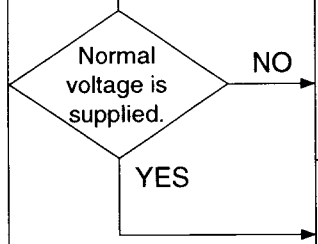
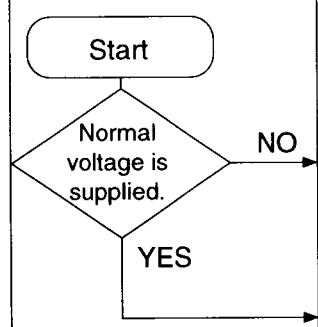


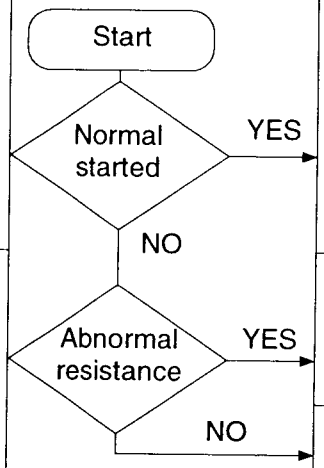
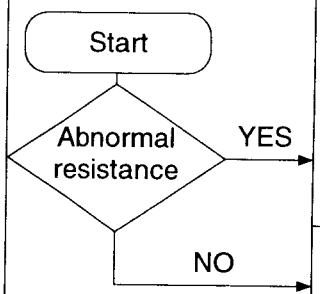
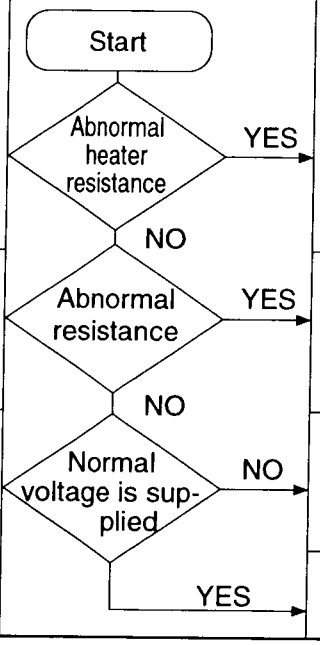

D
C
G
E
F
I
A
B
H
(TR4 BASE)
5PA4B10C00500
CMK-P2X
CN104
J103
RI10
Q104
C108
D102
IC101
RI11
RI09
RI08
Q103
G IN OUT
BZ101
J106
RI07
Q101
Q102
J105
RI06
PH101
PH102
RI03
C104
RI02
C105
TR102
RI04
T1
G
T2
TR101
VAR103
RI05
MOTOR
J104
SK101
CN103
C103
L101
HEATER
CN102
C107
C106
D101
VAR101
RI01
VAR102
F102
J102
T315mA
CN101
FUSE
J101
PT101
TB102
TB101
BR
BL
STOP
START
SELECT
SW1
SW2
SW3
SW4
SW5
UP
DOWN
CN1
CN2

9. Troubleshooting

Wiring diagram for repair

Symptom	Procedure	Inspection	Cause	Countermeasure
A. No indication appears on LD1 when the power plug is connected to the power outlet.	1) Remove the power cord from the socket. Wait 10 seconds and then turn the power on again.		Microcomputer went out of control due to external noise.	Normalized
	2) Measure the voltage between Ⓐ and Ⓑ to check if AC 240V is supplied to the power board.		Poor connection of CN101 Poor connection of connector lead wire. Thermal fuse failure	Repair wiring Repair wiring Replace thermal fuse
	3) Measure voltage to check if the power board is in normal condition. Ⓒ – Ⓓ Approx. DC5V		Power board failure Fuse 315mA blowout	Replace power board Replace the fuse 315mA
	4) Measure voltage to check if the control board is in normal condition. Ⓔ – Ⓕ approx. DC 5V		Poor connection of 6-core parallel wire Control board failure	Repair wiring Replace control board
B. Operation key input is not accepted.	1) Remove the power cord from the socket. Wait 10 seconds and then turn the power on again.		Microcomputer went out of control due to external noise. Control board failure	Normalized Replace control board

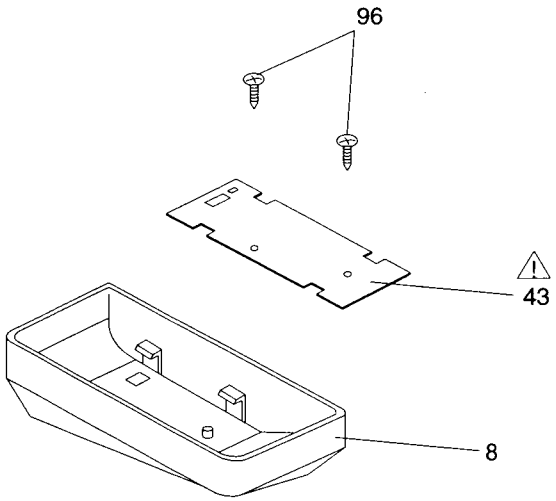
Symptom	Procedure	Inspection	Cause	Countermeasure
C. Bread can not be made. (Cannot be kneaded)	1) Check motor and its wiring.		Motor failure Poor connection of CN103	Replace motor Repair wiring
	2) Measure control board voltage. (While motor is operating) Ⓔ–Ⓖ Approx. 5V		Control board failure	Replace control board
			Power board failure	Replace power board
D. Bread can not be made. (No baking, or over-baking)	1) Measure sensor resistance.		Sensor failure	Replace sensor
	2) Check heater and its wiring.		Heater failure Poor connection of CN102	Replace heater Repair wiring
	3) Measure control board voltage. (While heater is operating) Ⓔ–Ⓗ Approx. 5V		Control board failure	Replace control board
			Power board failure	Replace power board
E. Buzzer is not sounded.	1) Measure control board voltage. (While buzzer is sounding) Ⓔ–Ⓘ Approx. 5V		Control board failure	Replace control board
			Power board failure	Replace power board

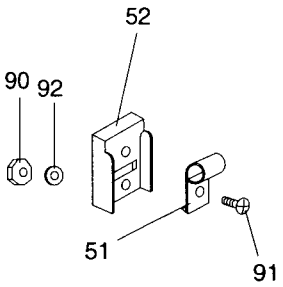
Symptom	Procedure	Inspection	Cause	Countermeasure
F. "E:01" (inner case is high temperature more than 40°C when start baking.) appears in display window.	1) Inner case is cooling, after start baking again.		Inner case is high temp.	Normalized
	2) Measure sensor resistance. 25°C Approx. 50kΩ		Sensor failure	Replace sensor
			Control board failure	Replace control board
G. "E:02" (thermistor-open), "E:03" (thermistor-short), "E:04" (inner case is abnormal high temperature), "E:08" (inner case is high temperature more than 60°C when rising) appears in display window.	1) Measure sensor resistance. 25°C Approx. 50kΩ		Sensor failure	Replace sensor
			Control board failure	Replace control board
H."E:05" appears in display window. (Inner case temperature is not go up when baking.)	1) Check if heater and heater wiring are in normal condition.		Heater failure or poor connection	Replace heater, or repair wiring
	2) Measure sensor resistance. 25°C Approx. 50kΩ		Sensor failure	Replace sensor
	3) Measure control board voltage. (While motor is operated) Ⓔ–Ⓗ approx. 5V		Control board failure	Replace control board
			Power board failure	Replace power board

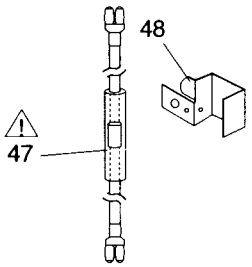
10. Exploded View

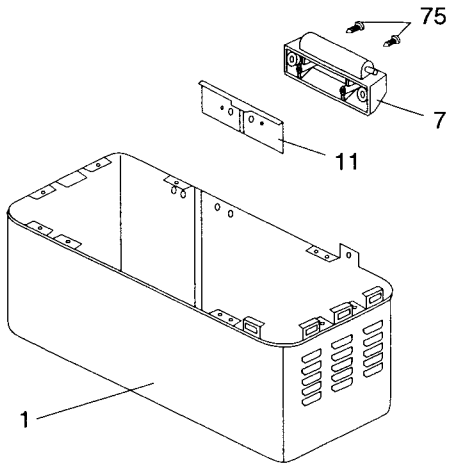
The sign ⚠ :

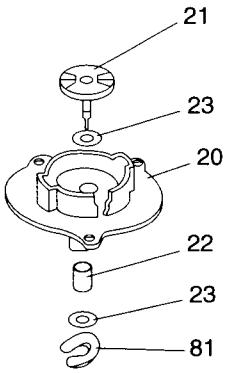
The parts marked with ⚠ have special characteristics important for safety.
When replacing any of these parts, use only manufacturer's specified parts.

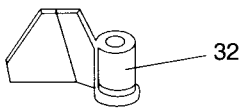


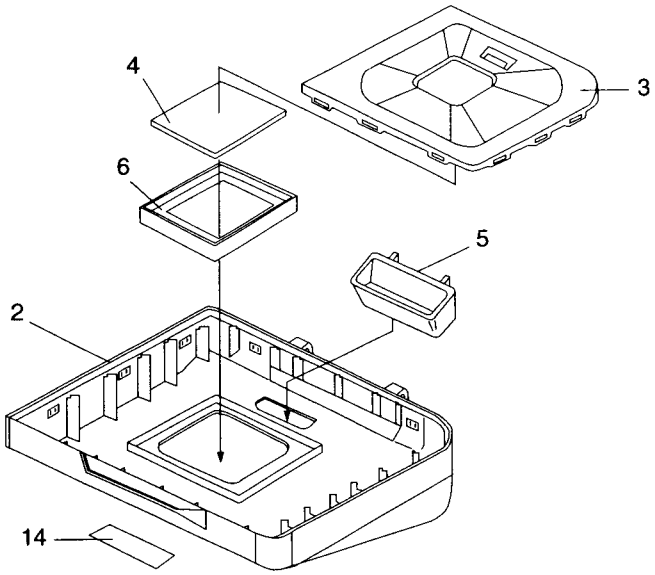


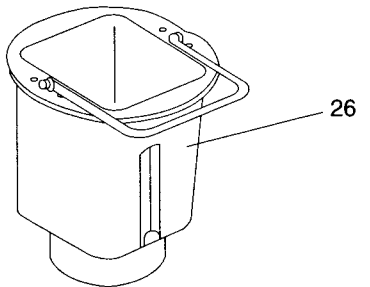


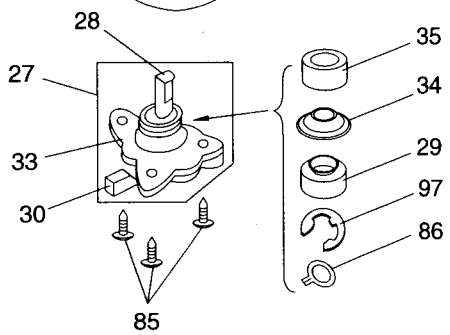


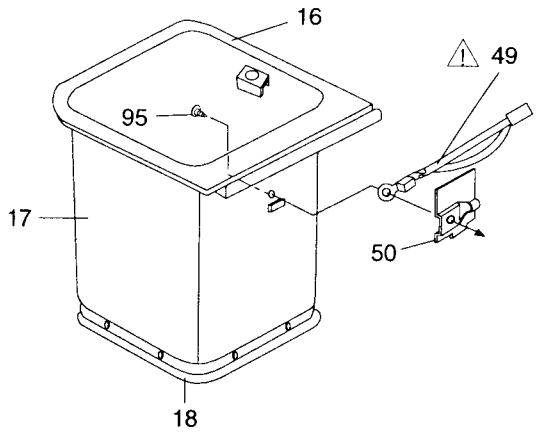








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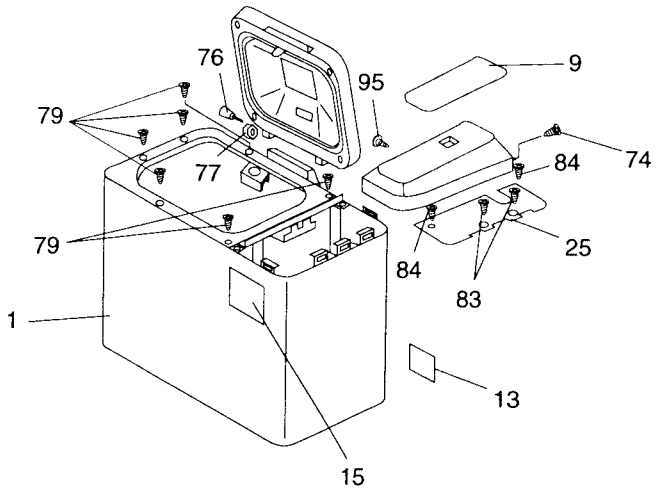
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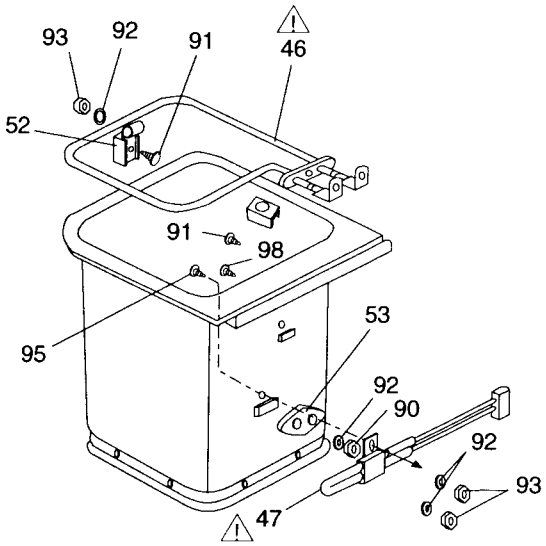
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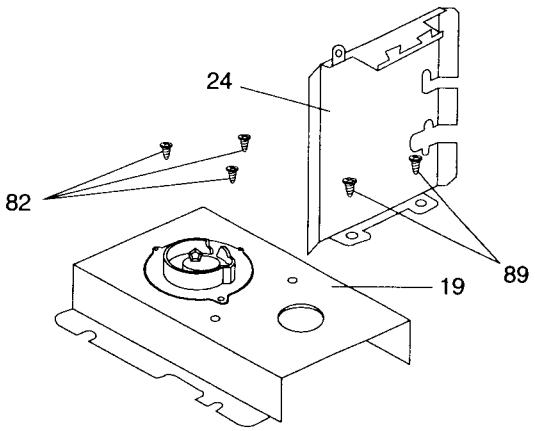
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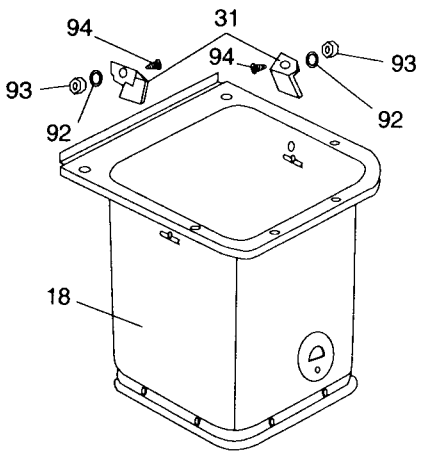
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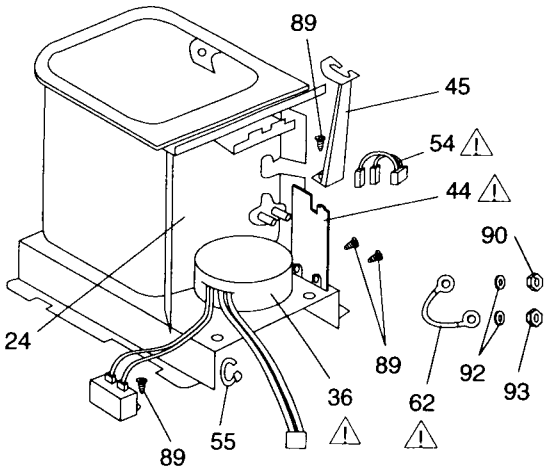
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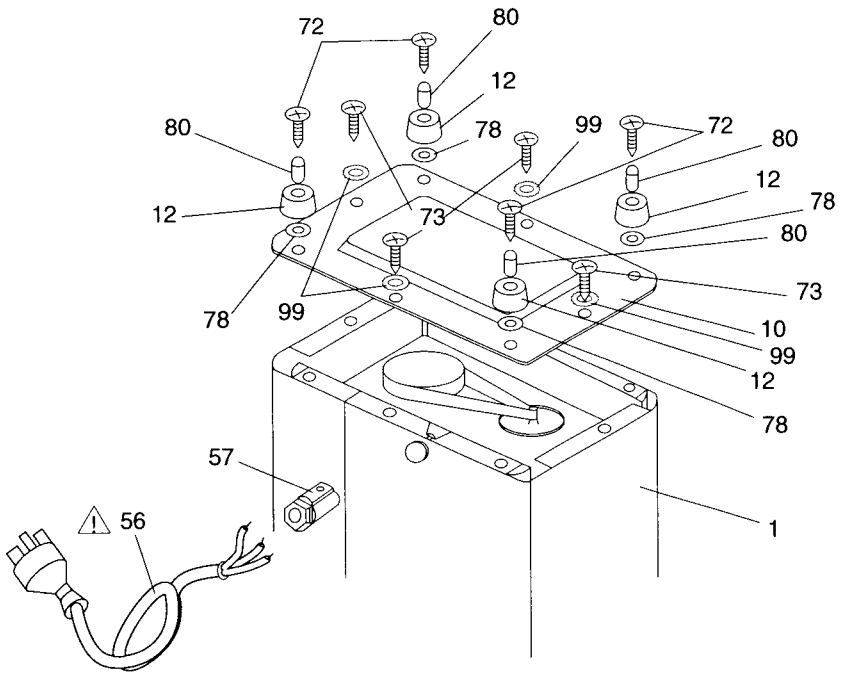
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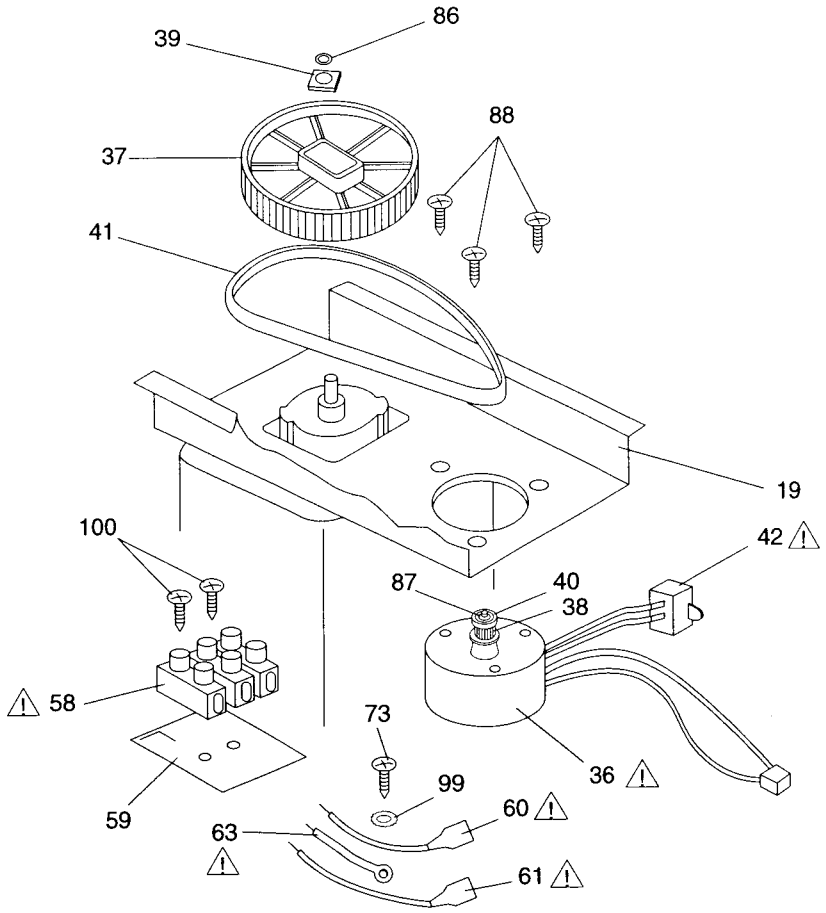
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11. Parts List

Key No.	Part No.	Description	Q'ty
1	637 011 7379	Enclosure	1
2	637 011 7386	Outer lid	1
3	637 011 7393	Inner lid	1
4	637 007 0889	Finder glass	1
5	637 011 7409	Air exhaust	1
6	637 007 0896	Glass supporter	1
7	637 011 7539	Hinge	1
8	637 011 7416	Control panel	1
9	637 011 7423	Sheet switch	1
10	637 011 7430	Bottom lid	1
11	637 011 7584	Reinforcement	1
12	637 011 7447	Feet	4
13	637 011 9229	Rating label	1
14	637 011 5580	Caution label	1
15	637 011 7836	Naming label	1
16	637 011 7478	Inner case (Upper)	1
17	637 011 7485	Inner case (Middle)	1
18	637 011 7492	Inner case (Lower)	1
19	637 011 7508	Frame	1
20	637 011 7515	Inner pot connector base	1
21	637 011 7522	Connector (Lower) Ass'y	1
22	637 011 7546	Shaft	1
23	637 007 1558	Bakelite washer	2
24	637 011 7553	Heating shelter plate (A)	1
25	637 011 7560	Heating shelter plate (B)	1
26	637 011 7577	Inner pot Ass'y	1
27	637 010 7158	Shaft Ass'y	1
28	637 010 7400	Shaft (Upper)	1
29	637 008 8020	Oil seal	1
30	637 009 3772	Connector (Upper)	1
31	637 006 5465	Inner pot support spring	2
32	637 010 7202	Kneader blade	1
33	637 010 7394	Shaft base	1
34	637 010 7363	Seal cover	1
35	637 010 7370	Seal holding plate	1
⚠36	637 011 8727	Motor Ass'y	1
37	637 011 7607	Pulley (Big)	1
38	637 011 7614	Pulley (Small)	1
39	637 011 7621	Pulley washer (A)	1
40	637 011 7638	Pulley washer (B)	1
41	637 011 7645	Belt	1
⚠42	637 011 8734	Capacitor	1
⚠43	637 011 8741	Control PCB Ass'y	1
⚠44	637 011 8758	Power supply PCB	1
45	637 011 7850	Power supply PCB supporting plate	1
⚠46	637 011 8765	Heater Ass'y	1
⚠47	637 011 7713	Over temperature protector Ass'y	1
48	637 006 5793	Over temperature protector support	1
⚠49	637 011 7720	Sensor Ass'y	1
50	637 011 7737	Sensor holding plate	1

Key No.	Part No.	Description	Q'ty
51	637 011 7867	Heater supporting plate	1
52	637 007 1121	Heater supporting insulator (Small)	1
53	637 011 7843	Heater supporting insulator (Big)	1
⚠54	637 011 7744	Lead wire 110L	1
55	637 010 9053	Fixing tie	3
⚠56	637 011 8772	Power supply cord Ass'y	1
57	637 007 7109	Cord bushing	1
⚠58	637 007 5822	Terminal Ass'y	1
59	637 007 5839	Sheet	1
⚠60	637 011 8789	Lead wire 105L (Blue)	1
⚠61	637 011 8796	Lead wire 105L (Brown)	1
⚠62	637 007 7659	Ground Lead wire 40L	1
⚠63	637 011 8819	Ground Lead wire 55L	1
64	637 011 9243	Caution card	1
65	637 011 7775	Carton box	1
66	637 007 1602	Outer cover	1
67	637 011 7782	Pad	1
68	637 007 1619	Manual cover	1
69	637 011 9236	Instruction manual (English)	1
70	637 011 7805	Cookbook (English)	1
71	637 011 7812	Cushion pad	1
72	637 011 1216	Tapping screw, pan flange hd. 4 x 14mm	4
73	637 010 8773	Self-tapping screw, bind hd. 4 x 8mm	5
74	637 010 8735	Tapping screw, Truss hd. 4 x 10mm	1
75	637 011 1582	Tapping screw, pan hd. 4 x 8mm	2
76	637 007 0902	Screw lid	1
77	637 011 1599	Hexagon nut 3.5mm	1
78	637 010 8919	Washer 4mm x 1mm	4
79	637 011 1292	Self-tapping screw, pan hd. 3 x 8mm	6
80	637 011 1360	Spacer	4
81	637 010 8797	Ring U	1
82	637 011 1223	Tapping screw, truss hd. 4 x 10mm	3
83	637 011 1308	Self-tapping screw, pan hd. 4 x 6mm	2
84	637 011 1315	Self-tapping screw, pan hd. 3 x 6mm	2
85	637 010 8858	Screw, flat hd. 4 x 8mm	3
86	637 009 3789	Ring C	2
87	637 011 1346	Ring P	1
88	637 011 1100	Screw, pan spring washer	3
89	637 011 1254	Tapping screw, pan flange hd. 4 x 10mm	6
90	637 010 8964	Hexagon nut	3
91	637 010 8971	Screw pan hd. 3 x 10mm	3
92	637 010 8995	Washer spring 3mm	9
93	637 010 8988	Hexagon nut	6
94	637 010 9299	Screw, pan hd. 3 x 6mm	2
95	637 010 8865	Tapping screw, pan hd. 3 x 6mm	3
96	637 011 1261	Tapping screw, pan hd. 4 x 8mm	2
97	637 009 3796	Ring E	1
98	637 011 1704	Screw pan hd. 3 x 14mm	1
99	637 010 8933	Washer 4mm	5
100	637 011 1711	Tapping screw, pan hd. 3 x 14mm	2

(Electronic Parts)

Part Name	Part No.	Description	Q'ty	Code
IC	637 011 8864	UPD75006CU-081	1	IC1
Triac	637 011 8871	TM561S-L	1	TR101
Triac	637 011 8888	TM361S-L	1	TR102
LED	637 011 8895	GL3P404N	1	LD1
Metalized Film Cap.	637 011 8901	CFKC 0.1μF 250V	1	C103
Spark Killer	637 011 8918	ECQJ0186X	1	SK101
Flame Proof Carbon	637 011 8925	100Ω - 1/2W	2	R102, R103
Photo Triac.	637 011 8932	S21ME3	2	PH101,PH102
Varistor	637 011 8949	ERZV07D431U	1	VAR101
Varistor	637 011 8956	MFCN08D431K	1	VAR103
Power Transformer	637 011 8963	ETP35KCN61TU	1	PT101
Piezo Buzzer	637 011 8970	PKM24SP-3805	1	BZ101
Key Switch	637 011 8987	EVQ-215-05R	5	SW1~SW5
Fuse	637 011 8994	315mA 250V	1	F102

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Printed in Japan