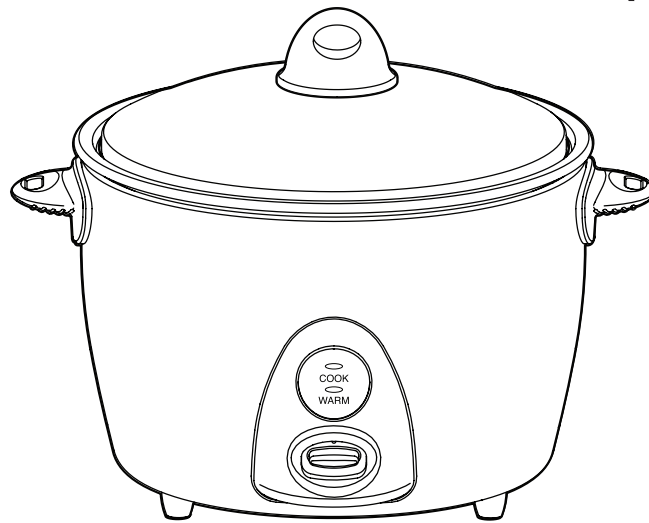


Service Manual

Automatic Rice Cooker SR-G06G/G10SG/G18SG (Hong Kong)



Specification

Model		SR-G06G	SR-G10SG	SR-G18SG
Detail				
Power Source		1 Phase AC 120V 60 Hz		
Power consumption	Cooking	300W	450W	650W
	Warming	-	43.7W	45W
Cooking capacity		0.18 ~ 0.6 L	0.18 ~ 1.0 L	0.54 ~ 1.8 L
Center thermostat working temperature		134 °C ± 6 °C		
Keep warm temperature			More than or equal to 80 °C (After 1 Hr. keep warm)	
Thermal fuse specification		110 °C 250V 10A		
Dimension (mm) Width x Depth x Height		254 x 201 x 209	282 x 229 x 238	325 x 283 x 255
Weight		1.5 kg	2.1 kg	2.7 kg
Power Cord (approx.)		1.0 m		
Accessories		Rice Scoop	Measuring Cup, Steaming Basket	

Specification subject to change without notice.

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WARNING

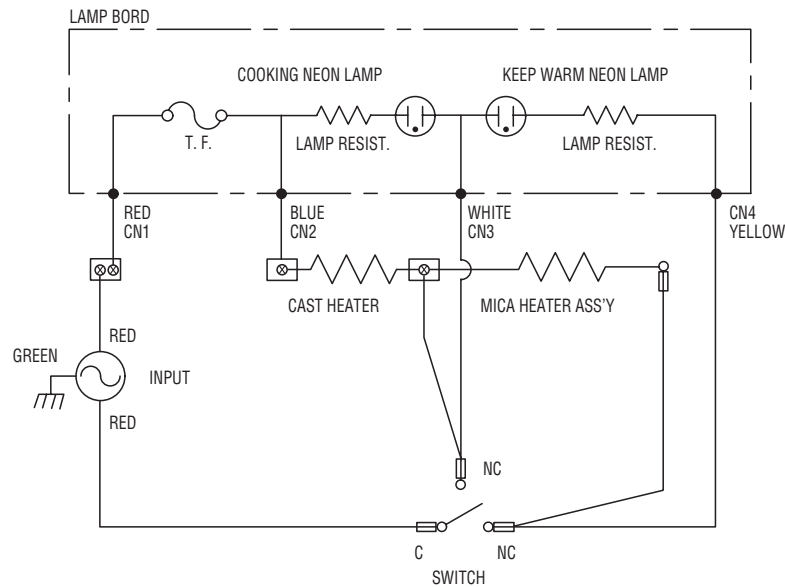
This service information is designed for experienced repair technicians only and is not designed for use by the general public. It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product. Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

IMPORTANT SAFETY NOTICE

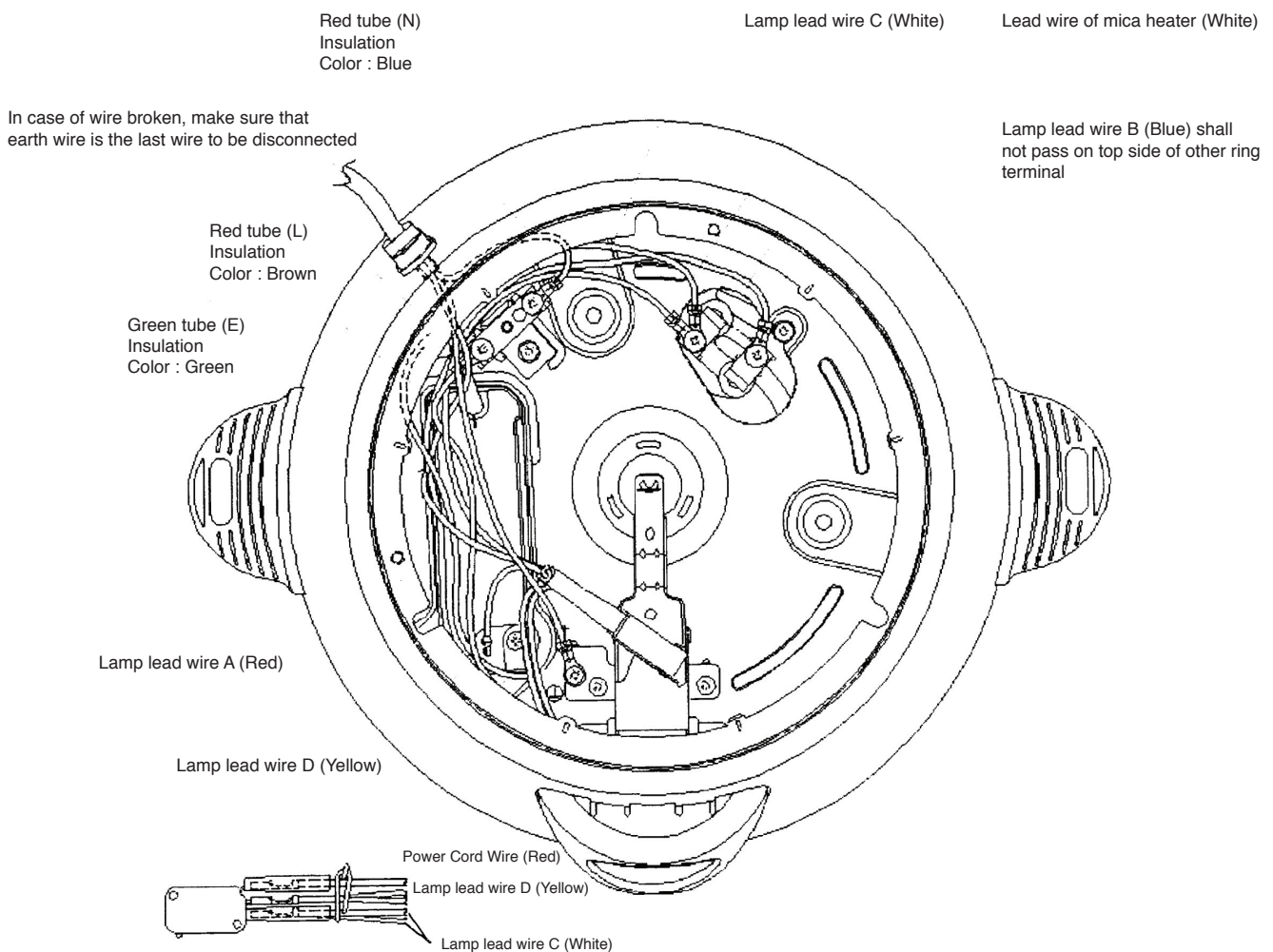
There are special components used in this equipment which are important for safety. These parts are marked by  in the Schematic Diagrams, Circuit Board Diagrams, Exploded Views and Replacement Parts List. It is essential that these critical parts should be replaced with manufacturer's specified parts to prevent shock, fire or other hazards. Do not modify the original design without permission of manufacturer.

1. SCHEMATIC DIAGRAM & WIRING DIAGRAM

SCHEMATIC DIAGRAM (SR-G06G)

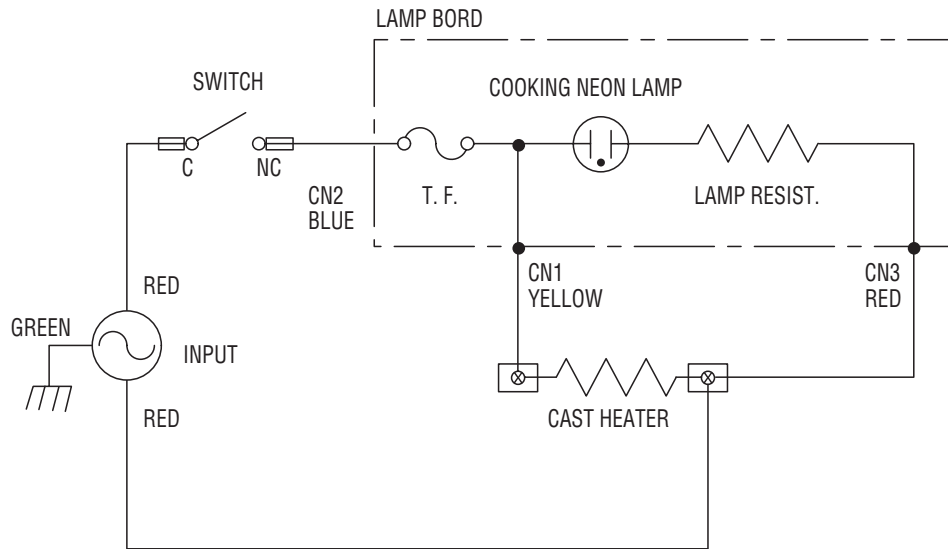


WIRING DIAGRAM (SR-G06G)

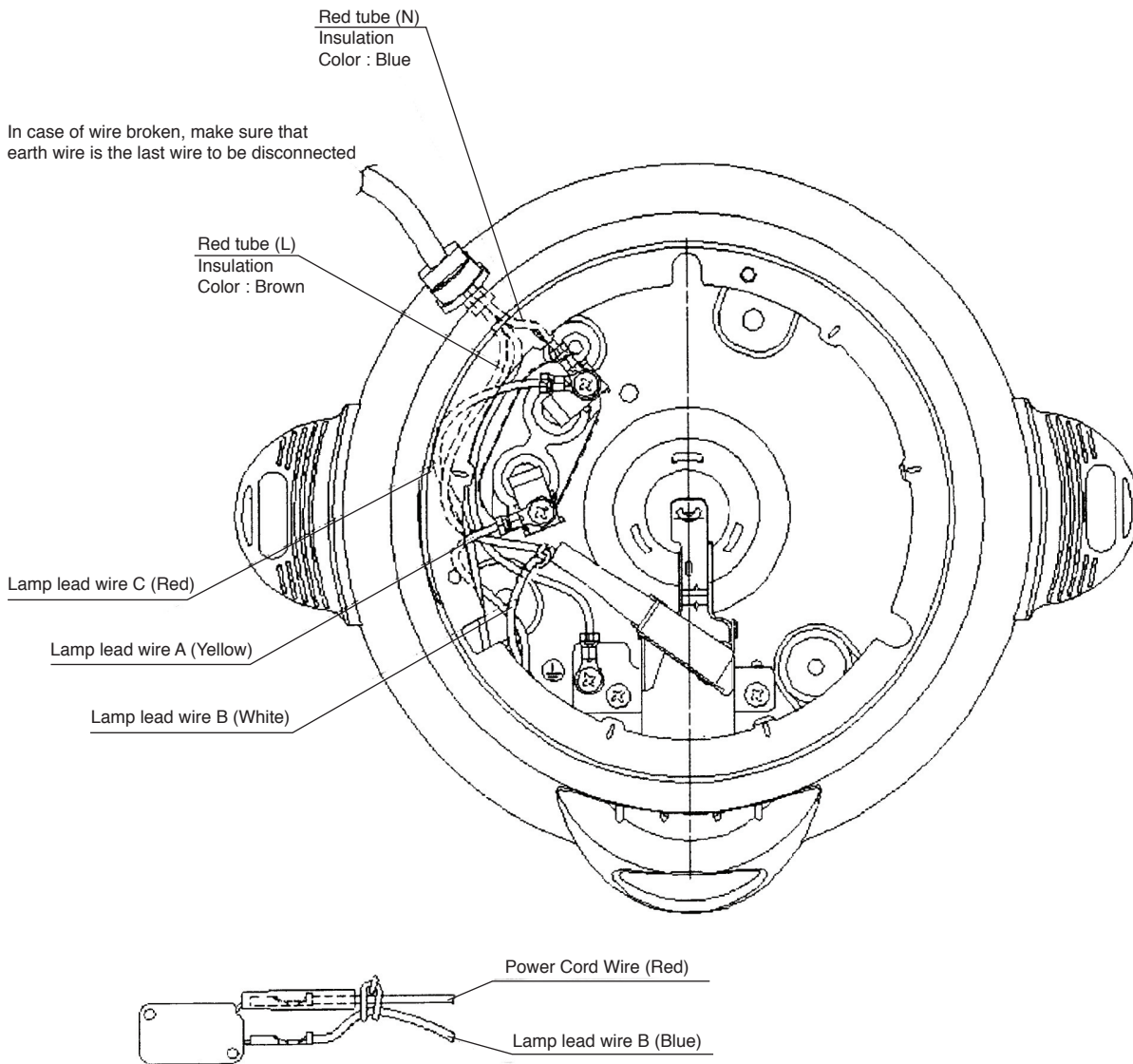


1. SCHEMATIC DIAGRAM & WIRING DIAGRAM

SCHEMATIC DIAGRAM (SR-G10SG/SR-G18SG)



WIRING DIAGRAM (SR-G10SG/SR-G18SG)



2. FUNCTION OF CENTER THERMOSTAT AND THERMALFUSE

A. Center Thermostat

The center thermostat senses when the bottom of the rice cooker pan reach $134^{\circ}\text{C} \pm 6^{\circ}\text{C}$. And it's action turns off the cooking cycle, and starts the warming cycle.

Center thermostat construction

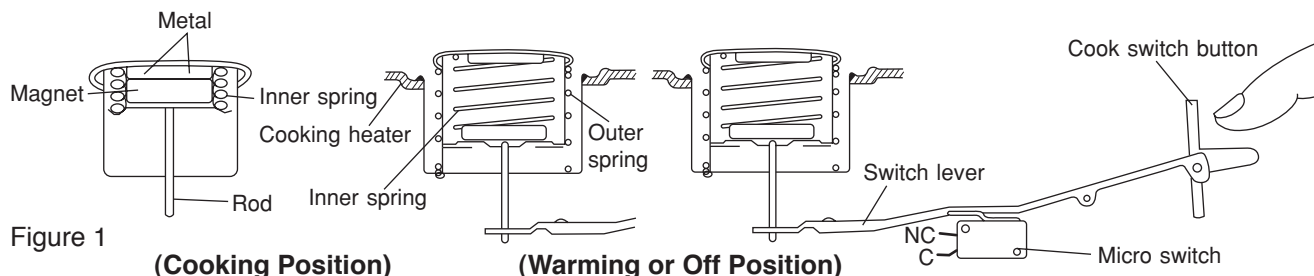
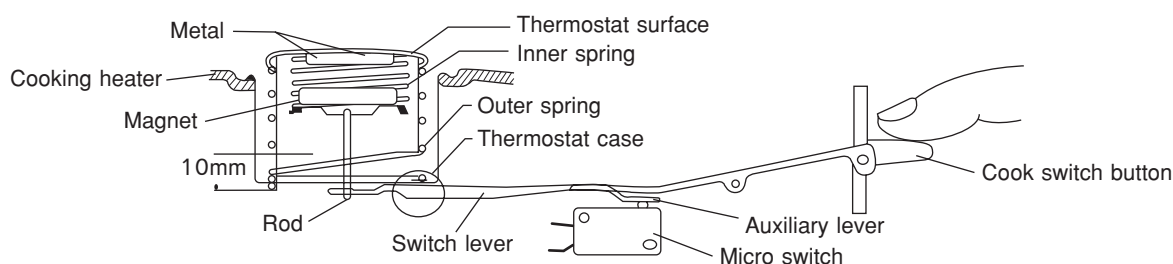


Figure 1

Refer to these figures showing the center thermostat construction and cooking position. As the metal is heated, its ability to be attracted by the magnet decreases.

Finally, the inner spring pressure becomes stronger than the magnetic pull and the metal and magnet will pop apart. The rod activates the switch lever which causes the auxiliary lever to press the micro-switch button into the warming cycle.

B. Switch-On Preventive System



This is design to prevent the rice cooker from being turned on without the pan placed into position.

- 1) Normally when the pan is inserted properly into the rice cooker, the pan will depress the center thermostat. The center thermostat outer spring will be compressed. In this case when the switch button is depressed, the following will happen:
 - a. The auxiliary lever will release the micro-switch button. This puts the micro-switch in the cook position.
 - b. The switch lever will push the rod which will allow the magnet to meet with the metal.
 - c. When the rice is cooked and the proper temperature has been reached $134^{\circ}\text{C} \pm 6^{\circ}\text{C}$, the metal and magnet will pop apart as described in the center thermostat operation above.
 - d. The rod will push the switch lever and cause the auxiliary lever to depress the micro-switch button. This puts the micro-switch in the warming position.
- 2) When the pan is not in place within the rice cooker, the center thermostat is not depressed.
 - a. In this condition, the outer spring is not compressed within the center thermostat preventing the metal from reaching its normal operating position.
 - b. When the switch button is depressed, the switch lever and auxiliary lever work as above but the magnet cannot come in contact with the metal to hold the switch lever in the cook position. This happens because the switch lever hits the thermostat case and cannot push the rod, with the magnet attached, all they way up to meet with the metal.
 - c. When the pressure is taken off the switch button, the switch lever releases immediately to the open or warm positions.

2. FUNCTION OF CENTER THERMOSTAT AND THERMALFUSE

C. Thermal Fuse

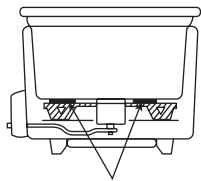
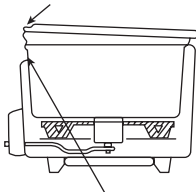
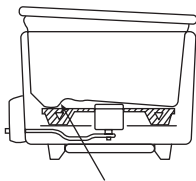
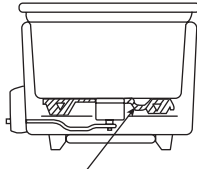
The thermal fuse is used to open the circuit to the cooking heater when the temperature has gone unusually high. This happens in cases such as incomplete contact between the heater and pan or if the switch buttons is forced to stay on keeping the heater energized abnormally.

This fuse is not a resetting device and must be replaced after opening.

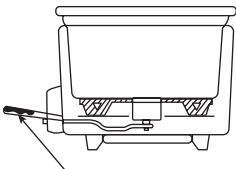
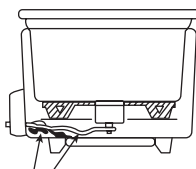
Whenever replacing the fuse make sure the protective cover is placed over all exposed wiring.

Cause of Fusion

[A] Improper contract between heater and pan

Cause				
	Foreign matter adhering	Pan collar or deformed	Pan bottom dented or deformed	Heater surface deformed or corroded
Remedy	Remove foreign matter by of (-) screw-driver, etc., and then polish with = 320 water paper while wetting it with water.	Repair or replace body.	Replace pan.	Replace cooking heater.

[B] Forced application of current

Cause		
	Chopstick, wooden piece, etc. inserted onto cooking button. (continuous application of current)	Switch lever deformed or maladjusted, causing continuous application of current.
Remedy	Inserted to prevent ear-lier turning off? Refer to cause in (a) above.	Repair or replace parts.

When fusion takes place, check the cause, set right the faulty section, and be sure to use replacement parts.

3. TROUBLESHOOTING GUIDE

When receiving the cooker to be repaired, be sure to always take charge of not only the cooker body but also the pan and the lid, and ask for details as to the symptom of the trouble. Furthermore, when making troubleshooting of each part, be sure to remove the power plug from the socket.

Symptom	Diagnosis	Remedy
Cooking function ● Cooking fails (Cooking lamp is not shown)	<div> <div>No continuity of cord?</div> <div>Yes</div> <div>No</div> <div>No continuity of thermal fuse?</div> <div>Yes</div> <div>No</div> <div>No continuity of micro switch?</div> <div>Yes</div> <div>No</div> <div>Center thermostat is broken? (Checked evaporation test)</div> <div>Yes</div> <div>No</div> <div>Switch lever properly adjust?</div> <div>No</div> </div>	● Replace AC cord. ● Locate cause for fusing and replace fuse. ● Replace Frame ass'y. ● Replace center thermostat. ● Adjust Switch lever.
● Cooking fails (Cooking lamp is not shown)	<div> <div>No continuity of sheathed heater?</div> <div>Yes</div> </div>	● Replace sheathed heater.
● Thermal fuse blown	<div> <div>Forced application of current?</div> <div>Yes</div> </div>	● Explain correct usage.
● Rice burns (Brown color)	<div> <div>Center thermostat defective? (Check with evaporation test)</div> <div>Yes</div> <div>No</div> <div>Switch lever has been properly adjusted?</div> <div>No</div> <div>Yes</div> <div>Usage correct?</div> <div>Yes</div> <div> ● Rice is not rinsed well enough? ● Using with low rated voltage? ● Too much water input for cooking? </div> </div>	● Replace center thermostat. ● Adjust Lever. ● Explain correct usage.

3. TROUBLESHOOTING GUIDE

Symptom	Diagnosis	Remedy
<ul style="list-style-type: none"> ● Earlier Switching-off ● Poor cooking finish <div>Too hard Too soft Half-boiled</div>	<div> <div>Poor contact between pan and sheathed heater? (Check with bubbling test)</div> <div>Yes</div> <div>No</div> <div>Center thermostat defective? (Check with evaporation test)</div> <div>Yes</div> <div>No</div> <div>Switch lever has been properly adjusted?</div> <div>No</div> <div>Yes</div> <div>Usage correct?</div> <div> <ul style="list-style-type: none"> ● Too small or large in rice quantity. ● Too small or large in water quantity. ● Switched off once by hand in cooking process. ● Switched off by shocks given in cooking process. ● Rice not untied. </div> </div>	<ul style="list-style-type: none"> ● Replace pan or sheathed heater. ● Replace Center thermostat. ● Adjust switch lever. ● Explain correct usage.
Keep warm function <ul style="list-style-type: none"> ● Warming fails (Warm lamp not shown) 	<div>Micro switch change contact to NO (Warm mode) after cooking is done?</div> <div>No</div>	<ul style="list-style-type: none"> ● Adjust switch lever.
<ul style="list-style-type: none"> ● Warming fails (Warm lamp shown) 	<div>No continuity of warming heater?</div> <div>Yes</div>	<ul style="list-style-type: none"> ● Replace warming heater.

4. TESTING PROCEDURE

1. Bubbling test

Input the pan in the main body, and lightly rotate the pan clockwise and counter clockwise to set the pan on the heating plate properly.

1. Fill water until the center area of the pan bottom is dipped, and close the lid. Then turn on the boiling switch.
2. When it begins boiling to produce steam, remove the lid and immediately check the bubbling condition on the pan bottom.
3. Bubbling condition is shown in figure 3.

- A. Bubbles generate through out the circumference of the pan bottom Proper
 B. Bubbles does not generate on more than one quarter part of the pan bottom circumference Improper

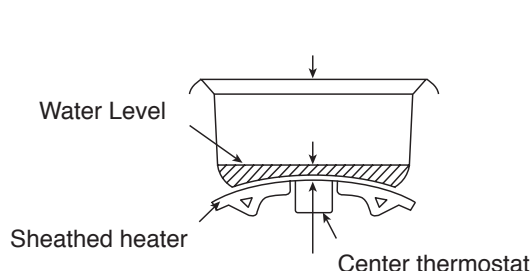


Figure 2

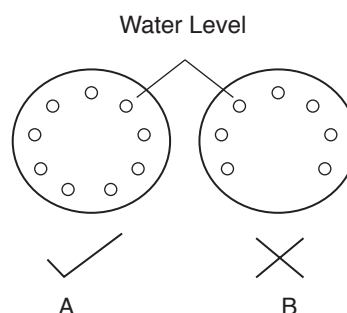
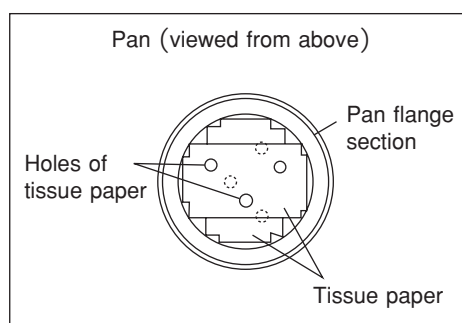
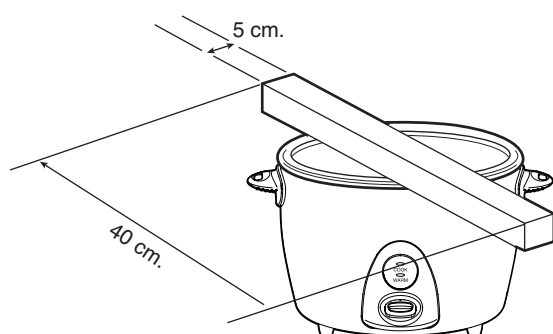


Figure 3

If it is improper, it may result from the insufficient contact between the pan bottom and the sheathed heater. Check the pan bottom and the sheathed heater for foreign material remained. Clean up the foreign materials or replace the parts.

2. Evaporation test

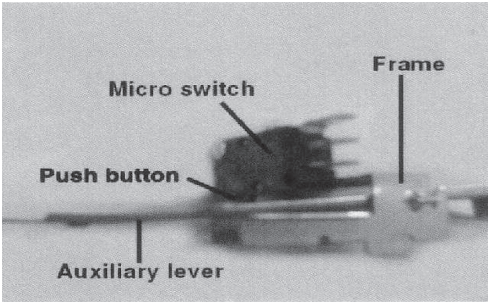
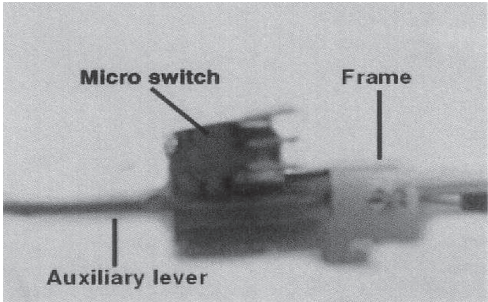
1. After satisfactory bubbling is confirmed, remove the lid and put a weight on the cooker.
2. Cover the entire pan bottom with 2 or 3 pieces of tissue paper (or gauze), and turn on the switch subsequently.
3. The cooker is considered acceptable if the timing when steam generation comes to a stop after water of the pan bottom has evaporated, is within 1 minute before and after the cooking switch is turned off. If these requirements are not satisfied, check the center thermostat as well as the contacted condition between the pan bottom and the cooking heater, and then repair or replace the parts.



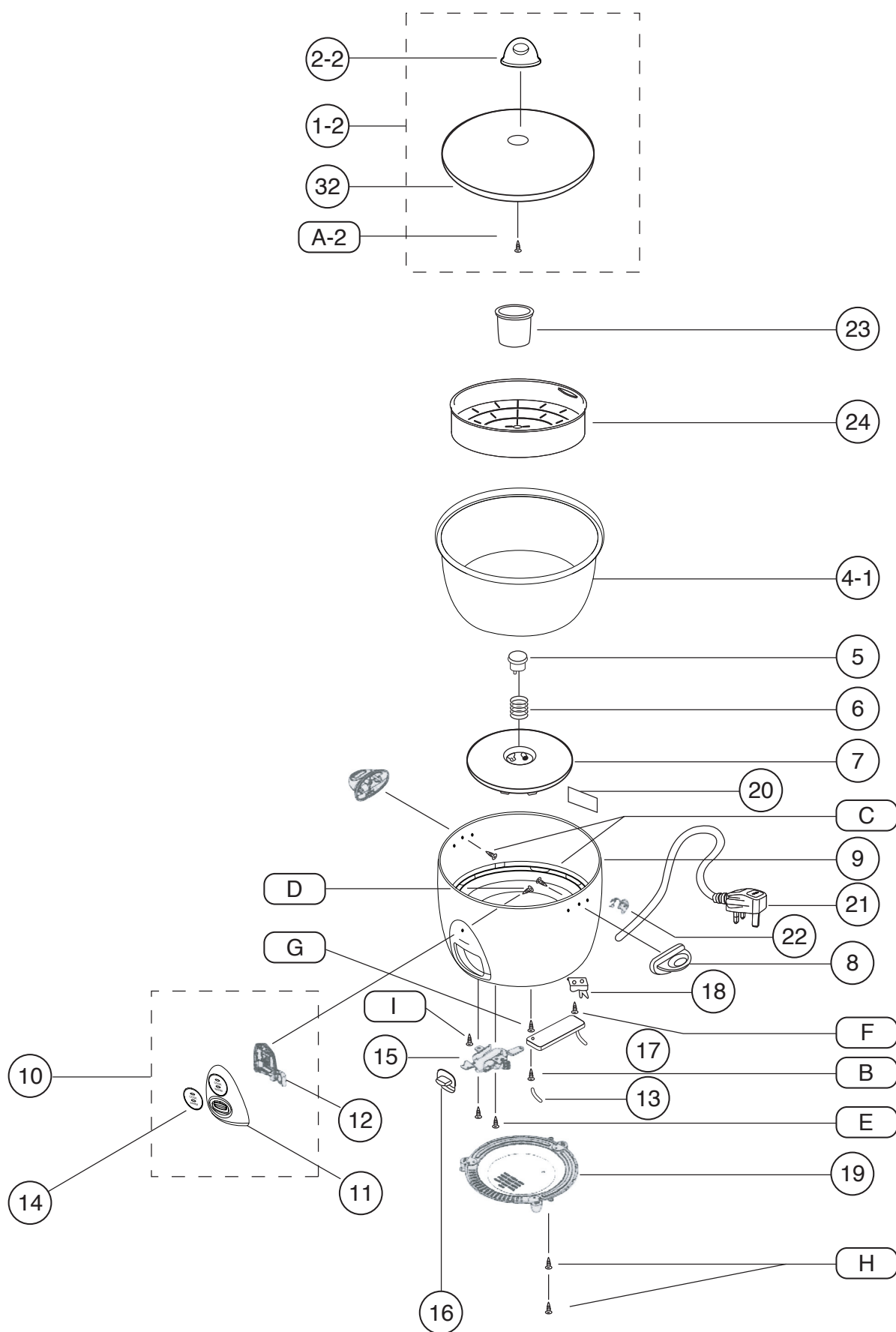
4. TESTING PROCEDURE

3. Boiling control lever adjustment

Such a mechanical operation as center thermostat goes up and down is used to turn on and off the micro-switch. Check and adjust this relationship as shown below.

	When the boiling switch is turned on.	When the boiling switch is turned off.
		
Checking	The auxiliary lever presses the push-button (The "WARM" lamp comes on.)	The auxiliary lever does not press the push-button (The "COOK" lamp comes on.)
Adjusting	To gain the above relationship, adjust the auxiliary lever by bending it with long nose pliers.	

5. EXPLODED VIEW



6. REPLACEMENT OF PARTS LIST & PACKING LIST

PARTS LIST

No.	Part Name	Part Number	SR-G06G	SR-G10SG	SR-G18SG	Remark
1-2	AQB01T280-WU	GLASS LID ASS'Y	1	-	-	White
1-2	AQB01T280-EG	GLASS LID ASS'Y	1	-	-	Silver
1-2	AQB01T279-WU	GLASS LID ASS'Y	-	1	-	White
1-2	AQB01T279-EG	GLASS LID ASS'Y	-	1	-	Silver
1-2	AQB01T278-WU	GLASS LID ASS'Y	-	-	1	White
1-2	AQB01T278-EG	GLASS LID ASS'Y	-	-	1	Silver
2-1	AQB10T280-WU	LID KNOB	1	-	-	White
2-1	AQB10T280-EG	LID KNOB	1	-	-	Silver
2-2	AQB10T278-WU	LID KNOB	-	1	1	White
2-2	AQB10T278-EG	LID KNOB	-	1	1	Silver
3-2	AQB01T280	GLASS LID	1	-	-	
3-2	AQB01T279	GLASS LID	-	1	-	
3-2	AQB01T278	GLASS LID	-	-	1	
4-1	AQE50T272	ALUMINIUM PAN	1	-	-	
4-1	AQE50T271	ALUMINIUM PAN	-	1	-	
4-1	AQH50H276	ALUMINIUM PAN	-	-	1	
5	ASR00H920-0U	THERMOSTAT ASS'Y	1	1	1	
6	AQS61T27210U	OUTER SPRING	1	-	-	
6	AQS61T27010U	OUTER SPRING	-	1	1	
7	AQL20T272-0U	CAST HEATER ASS'Y	1	-	-	
7	AQL20T270-0U	CAST HEATER ASS'Y		1	1	
8	AQE30T271-WU	HANDLE	2	2	-	White
8	AQE30T271-EG	HANDLE	2	2	-	Silver
8	AQE30T270-WU	HANDLE	-	-	2	White
8	AQE30T270-EG	HANDLE	-	-	2	Silver
9	AQE13T272-WU	BODY COMPLETE	1	-	-	White
9	AQE13T272-U2	BODY COMPLETE	1	-	-	Silver
9	AQE13T271-WU	BODY COMPLETE	-	1	-	White
9	AQE13T271-U2	BODY COMPLETE	-	1	-	Silver
9	AQE13T270-WU	BODY COMPLETE	-	-	1	White
9	AQE13T270-U2	BODY COMPLETE	-	-	1	Silver
10	AQN00T272-WU	SWITCH ASS'Y	1	-	-	White
10	AQN00T272-EG	SWITCH ASS'Y	1	-	-	Silver
10	AQN00T271-WU	SWITCH ASS'Y	-	1	-	White
10	AQN00T271-EG	SWITCH ASS'Y	-	1	-	Silver
10	AQN00T270-WU	SWITCH ASS'Y	-	-	1	White
10	AQN00T270-EG	SWITCH ASS'Y	-	-	1	Silver
11	AQN10T272-WU	SWITCH PANEL	1	-	-	White
11	AQN10T272-EG	SWITCH PANEL	1	-	-	Silver
11	AQN10T270-WU	SWITCH PANEL	-	1	-	White
11	AQN10T270-EG	SWITCH PANEL	-	1	-	Silver
11	AQN10T270-WU	SWITCH PANEL	-	-	1	White
11	AQN10T270-EG	SWITCH PANEL	-	-	1	Silver
12	AQN85T27210U	LAMP BOARD ASS'Y	1	-	-	
12	AQN85T27110U	LAMP BOARD ASS'Y	-	1	-	
12	AQN85T27010U	LAMP BOARD ASS'Y	-	-	1	

6. REPLACEMENT OF PARTS LIST & PACKING LIST

PARTS LIST

No.	Part Name	Part Number	SR-G06G	SR-G10SG	SR-G18SG	Remark
13	AQN65T270	WIRING TIED	1	-	-	
13	AQL65T270	WIRING TIED	-	1	1	
14	AQN20T272-WT	DECORATIVE PANEL	1	-	-	White
14	AQN20T272-UH	DECORATIVE PANEL	1	-	-	Silver
14	AQN20T270-WT	DECORATIVE PANEL	-	1	1	White
14	AQN20T270-UH	DECORATIVE PANEL	-	1	1	Silver
15	AQN60T272-0U	FRAME COMPLETE	1	-	-	
15	AQN60T271-0U	FRAME COMPLETE	-	1	-	
15	AQN60T270-0U	FRAME COMPLETE	-	-	1	
16	AQN31T272-WU	SWITCH BUTTON	1	-	-	White
16	AQN31T272-EG	SWITCH BUTTON	1	-	-	Silver
16	AQN31T270-WU	SWITCH BUTTON	-	1	1	White
16	AQN31T270-EG	SWITCH BUTTON	-	1	1	Silver
17	AQL70T270-0U	MICA HEATER ASS'Y	-	1	1	
18	AQL92T270	WIRING TERMINAL ASS'Y	-	1	1	
19	AQH20T270-WU	BOTTOM PLATE ASS'Y	1	-	-	White
19	AQH20T270-EG	BOTTOM PLATE ASS'Y	1	-	-	Silver
19	AQH20T271-WU	BOTTOM PLATE ASS'Y	-	1	-	White
19	AQH20T271-EG	BOTTOM PLATE ASS'Y	-	1	-	Silver
19	AQH20T270-WU	BOTTOM PLATE ASS'Y	-	-	1	White
19	AQH20T270-EG	BOTTOM PLATE ASS'Y	-	-	1	Silver
20	AQY50H280-WU	NAME PLATE	1	-	-	White
20	AQY50H280-EG	NAME PLATE	1	-	-	Silver
20	AQY50H279-WU	NAME PLATE	-	1	-	White
20	AQY50H279-UG	NAME PLATE	-	1	-	Silver
20	AQY50H278-WU	NAME PLATE	-	-	1	White
20	AQY50H278-UG	NAME PLATE	-	-	1	Silver
21	AQQ00H272-0U	POWER CORD ASS'Y	1	-	-	
21	AQQ00H277-0U	POWER CORD ASS'Y	-	1	-	
21	AQQ00H276-0U	POWER CORD ASS'Y	-	-	1	
22	ASR577Y120-K	CORD BUSHING	1	1	1	
23	ASR792-454BK	MEASURING CUP	1	1	1	
24	AQK25T277-W9	STEAM BASKET		1		
24	AQK25T276-W9	STEAM BASKET			1	

6. REPLACEMENT OF PARTS LIST & PACKING LIST

LIST OF SCREW

No.	Part Name	Part Number	SR-G06G	SR-G10SG	SR-G18SG	Remark
A-2	QB06T270	ALUMINIUM SCREW	1	1	1	
B	XYN4+C10FNS	SEMS SCREW	2	2	2	
C	XTN4+10BFJ	TAPPING SCREW	2	2	2	
D	XTN4+8BFJ	TAPPING SCREW	1	1	1	
E	XTN4+6FFJ	TAPPING SCREW	2	2	2	
F	XTN4+14BFJ	TAPPING SCREW	-	1	1	
G	XYN4+C7FNS	TAPPING SCREW	1	1	1	
H	XTN4+8BFJ	TAPPING SCREW	1	1	1	
I	XYC4+CF6FJ	SEMS TAPPING SCREW	1	1	1	

PACKING LIST

No.	Part Name	Part Number	SR-G06G	SR-G10SG	SR-G18SG	Remark
1	AQY00H2761	OPERATING INSTRUCTION	1	1	-	
1	AQY00H2701	OPERATING INSTRUCTION	-	-	1	
2	AQZ11T270	UPPER PAD	-	-	2	
2	AQZ11T271	UPPER PAD	-	2	-	
2	AQZ11T272	UPPER PAD	2	-	-	
3	ASR758T140A	RUST PROOF PAPER	1	1	1	
4	AQZ12T272	LOWER PED A	1	-	-	
4	AQZ12T271	LOWER PED A	-	1	-	
4	AQZ12T270	LOWER PED A	-	-	1	
5	AQZ13T772	LOWER PED B	1	-	-	
5	AQZ13T271	LOWER PED B	-	1	-	
5	AQZ13T270	LOWER PED B	-	-	1	
6	AQZ12T272-WU	INNER PACKING CASE	1	-	-	
6	AQZ01H270-W9	INNER PACKING CASE	-	1	-	
6	AQZ01H278-WU	INNER PACKING CASE	-	-	1	
7	AQZ80H280-UG	POS LABEL	1	-	-	
7	AQZ80H279-UG	POS LABEL	-	1	-	
7	AQZ80H278-UG	POS LABEL	-	-	1	
8	AQZ31H276-UG	PACKING CASE LABEL	1	1	1	