

Service Manual

Electric Rice Cooker

SR-TEG10
SR-TEG18



Product Colour

Soft Pink (SP)
Harmony Orchid (HO)
Platinum Silver (PS)
Champagne Gold (CN)


Destination

Malaysia

WARNING

The 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 within 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.

CONTENT

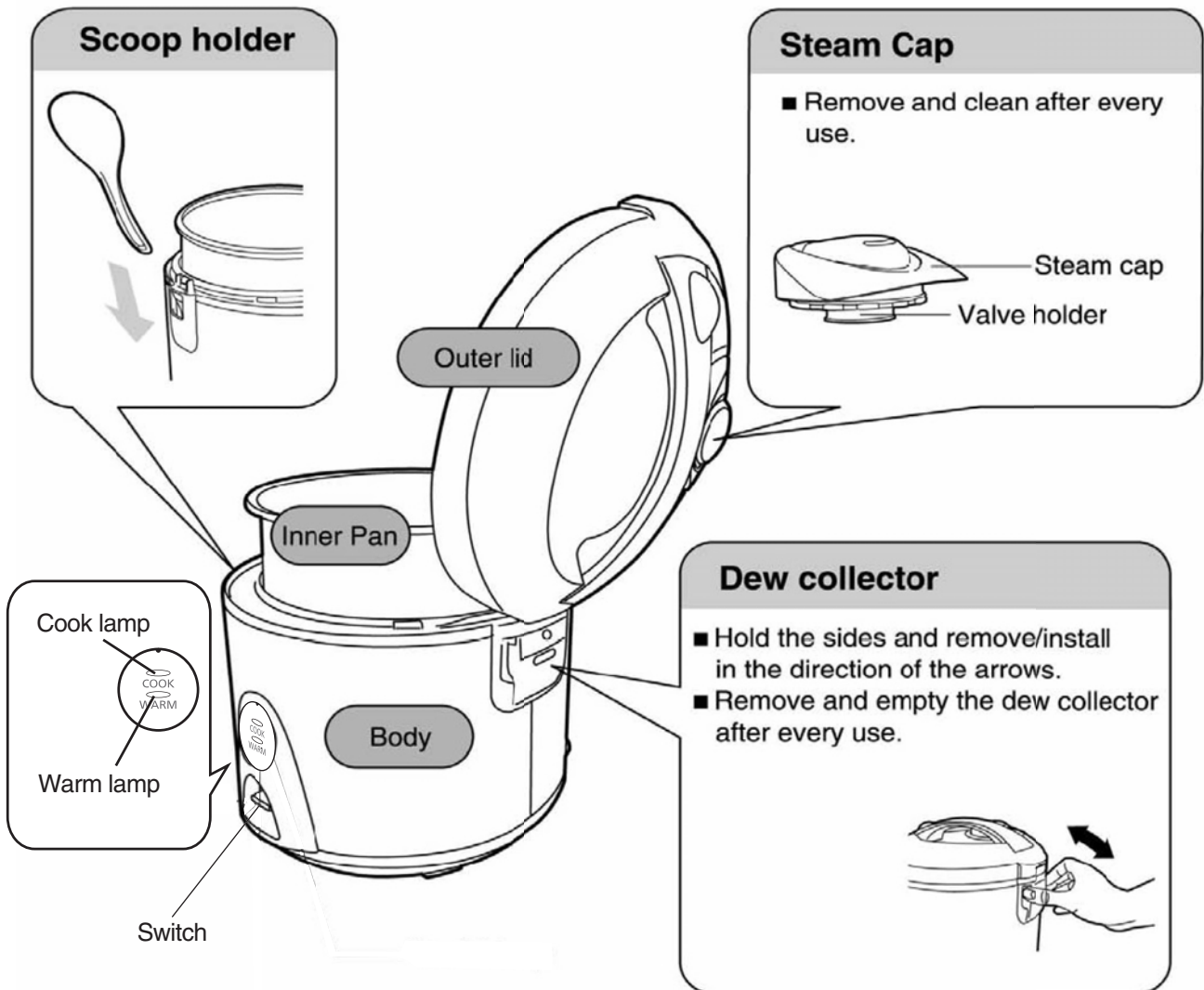
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1. SPECIFICATION

MODEL		SR-TEG10	SR-TEG18
Destination		Malaysia	
Plug		S3P	
Power Supply		240V / 50Hz	
Power Consumption	Keeping Warm	32W	33W
	Cooking	450W	630W
Cooking Capacity	White Rice	1 ~ 5 cups	3 ~ 10 cups
Product Dimension	Width	248 mm	276 mm
	Depth	274 mm	274 mm
	Height	275 mm	275 mm
Power Cord	Length	1.0 m	
Center Thermostat Working Temperature		134°C + 6°C	
Thermal Fuse Specification		142°C	
Weight (Approx.)		2.5 Kgs.	3.1 Kgs.
Accessories		Steaming basket, Scoop, Measuring cup	

* Specification subject to change without notice.

2. PARTS IDENTIFICATION



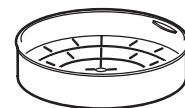
Accessories



Measuring cup
(Approx 180 ml)



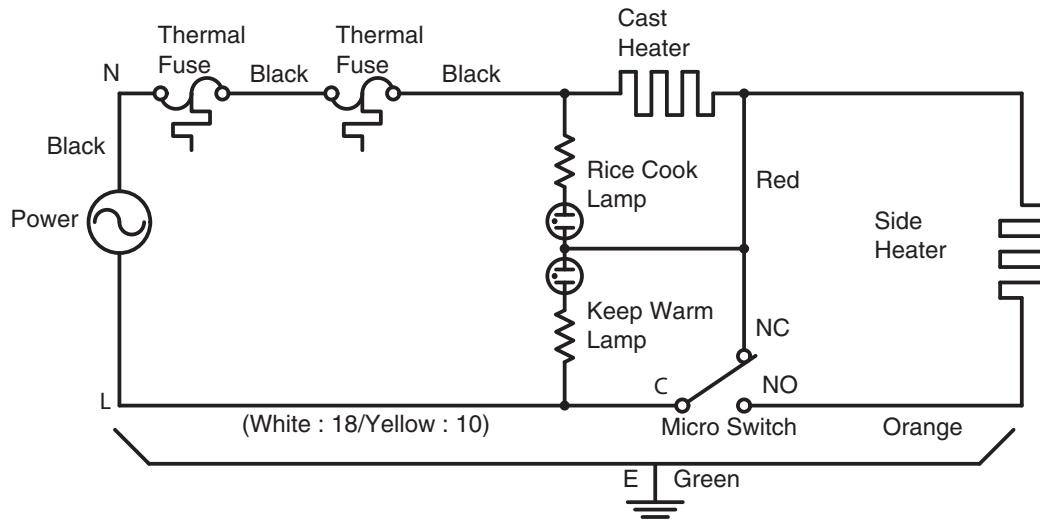
Rice scoop



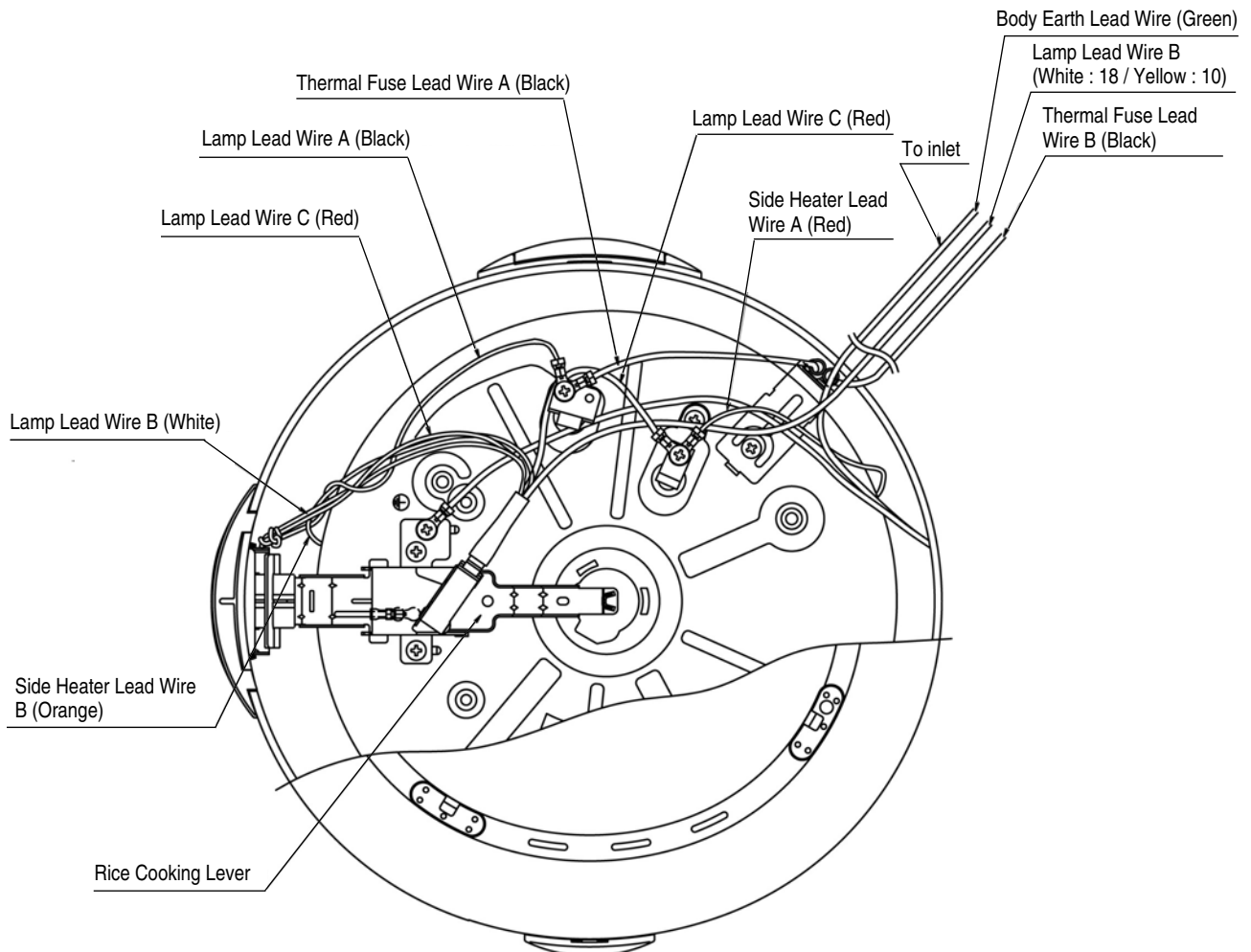
Steaming basket

3. SCHEMATIC DIAGRAM

3.1 Circuit Diagram



3.2 Wiring Diagram



4. TROUBLESHOOTING GUIDE

When receiving a rice boiler to be repaired, be sure to check that the main body is completely provided with the inner pan and the inner lid, ask the condition (phenomenon) of the trouble in detail. Before troubleshooting single parts, be sure to disconnect the power supply plug from the receptacle.

Condition	Troubleshooting	Remedy
Rice boiling section • Rice is not boiling. (The indicating lamp does not come on)	<pre> graph TD Q1[Is the power cord conductive?] -- No --> R1[Replace the cord.] Q1 -- Yes --> Q2[Is the thermal fuse conductive?] Q2 -- No --> R2[Isolate the cause which melt the thermal fuse, correct the cause and replace the fuse.] Q2 -- Yes --> Q3[Is the micro switch (across C to NC) conductive when the rice boiling process is turned on?] Q3 -- No --> R3[Replace the micro switch.] Q3 -- Yes --> Q4[Is the rice boiling control lever properly adjusted?] Q4 -- No --> R4[Adjust the control lever.] </pre>	<ul style="list-style-type: none"> • Replace the cord. • Isolate the cause which melt the thermal fuse, correct the cause and replace the fuse. • Replace the micro switch. • Adjust the control lever.
• Rice is not boiling. (The indicating lamp is lit)	<pre> graph TD Q5[Is the cast heater conductive?] -- No --> R5[Replace the cast heater.] </pre>	<ul style="list-style-type: none"> • Replace the cast heater.
• The thermal fuse is blown off.	<pre> graph TD Q6[Is the micro switch (across C to NC) conductive when the rice boiling process is turned off?] -- Yes --> R6[Replace the micro switch.] Q6 -- No --> Q7[Is the rice boiling control lever properly adjusted?] Q7 -- No --> R7[Adjust the control lever.] Q7 -- Yes --> Q8[Does the center thermostat operate properly? (Check with the evaporation test).] Q8 -- No --> R8[Replace the center thermostat.] Q8 -- Yes --> Q9[The operation is wrong. (Forcibly flow the electric current).] Q9 -- Yes --> R9[Explain the proper operation.] </pre>	<ul style="list-style-type: none"> • Replace the micro switch. • Adjust the control lever. • Replace the center thermostat. • Explain the proper operation.

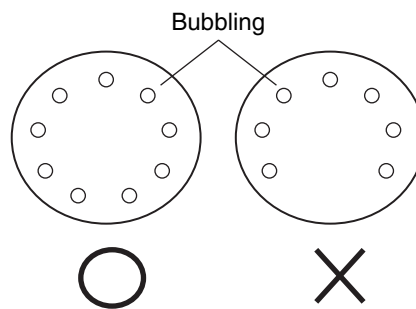
Condition	Troubleshooting	Remedy
<ul style="list-style-type: none"> • Earlier cut off. • Poor boiling up. <div style="border: 1px solid black; padding: 5px; margin-top: 10px;"> <ul style="list-style-type: none"> • Too hard • Too soft • Cored rice • Insufficient boiling </div>	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Is the pan bottom properly contacted with the cast heater? (Check with the bubbling test).</p> </div> <p style="text-align: center;">↓ Yes</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Does the center thermostat operate properly? (Check with the operation test).</p> </div> <p style="text-align: center;">↓ Yes</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Is the rice boiling control lever properly adjusted?</p> </div> <p style="text-align: center;">↓ Yes</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Is the cast heater conductive?</p> </div> <p style="text-align: center;">↓ Yes</p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Improper operation</p> <ul style="list-style-type: none"> • Rice is excessive or insufficient. • Water is excessive or insufficient. • The switch is turned off once during boiling. • Immediately after the switch is turned off, open the cap. • Rice has not been scooped and mixed well. </div>	<ul style="list-style-type: none"> • Replace the inner pan or the cast heater. • Replace the center thermostat. • Adjust the control lever. • Replace the cast heater. • Explain the proper operation.
<ul style="list-style-type: none"> • Excessive burning (More than light brown) 	<div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Does the center thermostat operate properly? (Check with the evaporation test).</p> </div> <p style="text-align: center;">↓ Yes</p> <div style="border: 1px solid black; padding: 5px; margin-bottom: 5px;"> <p>Is the rice boiling control lever properly adjusted?</p> </div> <p style="text-align: center;">↓ Yes</p> <div style="border: 1px solid black; padding: 5px;"> <p style="text-align: center;">Improper operation</p> <ul style="list-style-type: none"> • Rice is not washed sufficiently. (Bran remains still). • The pan bottom is conditioned to generate burning easily. • Germ rice or wheat-mixed rice is boiled. • Mixed rice is boiled. • The voltage is lower than specified. • Water is excessive. </div>	<ul style="list-style-type: none"> • Replace the center thermostat. • Adjust the control lever. • Explain the proper operation.

5. TESTING PROCEDURE

5.1 Bubbling test

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

1. Fill water until 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 immediately check the bubbling condition on the pan bottom.
3. As show in the figure.



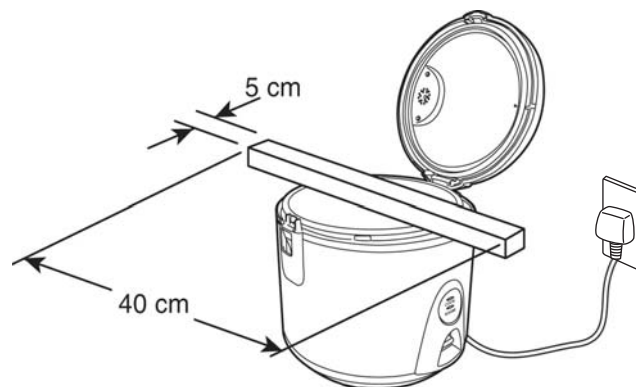
Bubbles generate through out the circumference of the pan bottom.....Proper

Bubbles does not generate on more than one quarter part of the pan bottom circumference.....Improper

If it is improper, it may result from the insufficient contact between the pan bottom and heating plate. Check the pan bottom and the heating plate for foreign material remainder. Clean off the foreign materials or replace the parts.

5.2 Evaporation test

1. Check that bubbling is proper, open the lid and place a weight.



Place a weight so that its gravity center may be aligned at the center

Note : To prevent plastic parts from deformation caused by steam, be sure to open the lid fully.

2. Fully cover 2 to 3 sheet of tissue paper (gauze is also applicable) on the pan bottom and continuously flow electric current.

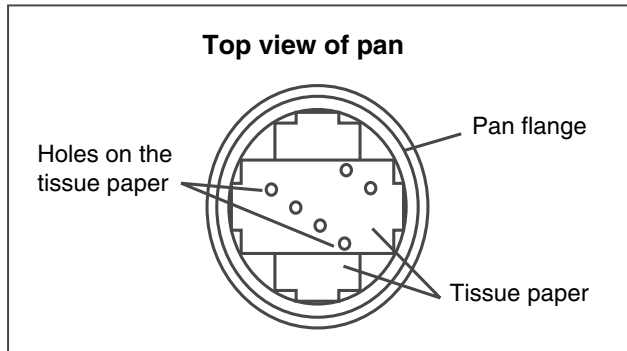
Note : To prevent tissue paper from floating because of bubbling, previously hole the paper.

3. Water on the pan bottom is completely evaporated to be empty. This timing is as follows :

Within 1 minute before the boiling switch is turned off.

Within 1 minute after the boiling switch is turned off.

The above conditions are proper.



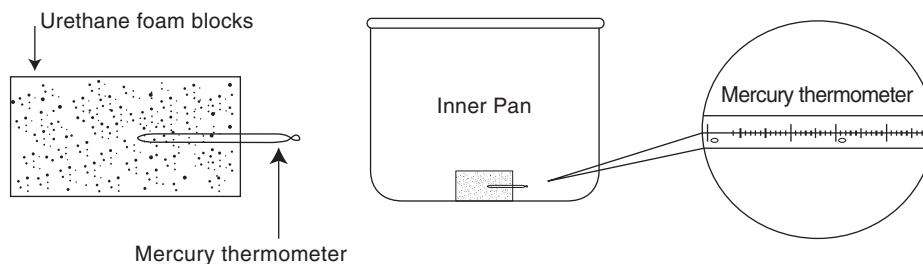
If it is improper, check the contact between the pan bottom, the heating plate and the center thermostat. Repair or replace if necessary.

5.3 Heat reserving test

1. Put approx. 1 liter of water and the thermometer [repairing tool (mercury thermometer ASN-150H)] in the pan, close the lid and turn on the boiling switch.
2. When it begins boiling to generate steam turn off the boiling switch.
3. Add water or keep the lid opened until the reading of the thermometer falls to approx. 70°C.
4. When it becomes approx. 70°C, close the lid. After the warming heater is activated for 1 hour or more, check the heat reserving temperature.

Within 69°C - 77°CProper

If outside 69°C - 77°C, check TRS mounting for irregularity, if it is proper, replace warming heater.



5.4 Boiling control lever adjustment

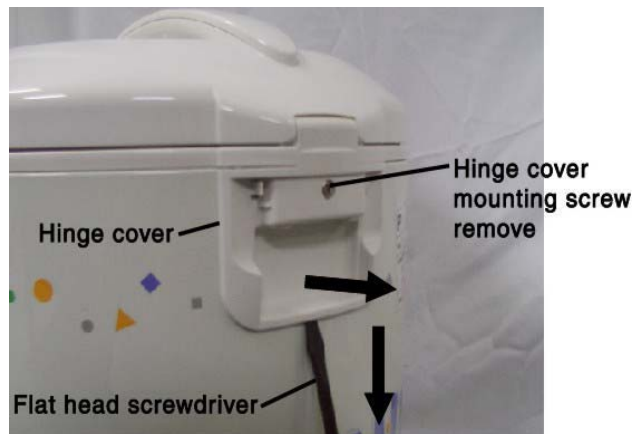
Such a mechanical operation as center thermostat goes up and down is used to turn on and off the micro-switch. Check and adjust this relationship as shown below.

	When the boiling switch is turned on	When the boiling switch is turned off
	<p>The photograph shows the micro switch assembly. The auxiliary lever is bent upwards, pressing against the push button. Labels include 'Micro switch', 'Frame', 'Push button', and 'Auxiliary lever'.</p>	<p>The photograph shows the micro switch assembly. The auxiliary lever is bent downwards, away from the push button. Labels include 'Micro switch', 'Frame', and 'Auxiliary lever'.</p>
Checking	The auxiliary lever presses the push-button. (The heat reserving lamp come on).	The auxiliary lever does not press the push-button. (The boiling indication lamp comes on).
Adjusting	To gain the above relationship, adjust the auxiliary lever by bending it with long nose pliers.	

6. DISASSEMBLY

6.1 Hinge cover removal

1. Remove the dew collector.
2. Remove the hinge cover mounting screws.
3. As show in the figure, insert a narrow flat head screwdriver from just below and pry off the hinge cover.



6.2 Inner enclosure and Upper frame removal

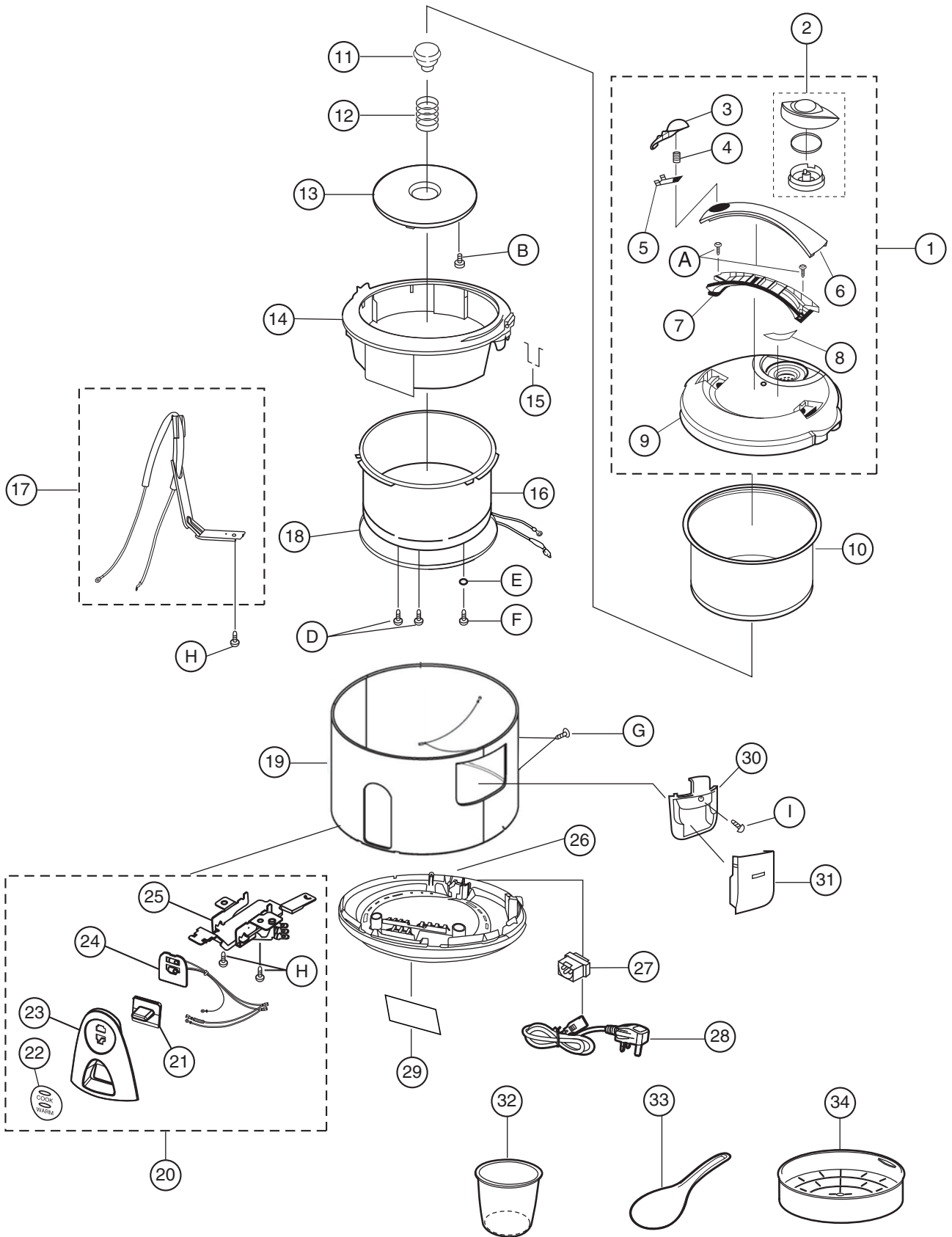
1. As show in the figure, pry up three fastening hooks. Fixing the upper frame, turn the inner enclosure in the arrow direction.
2. The upper frame will be separated from the inner enclosure and the upper frame.



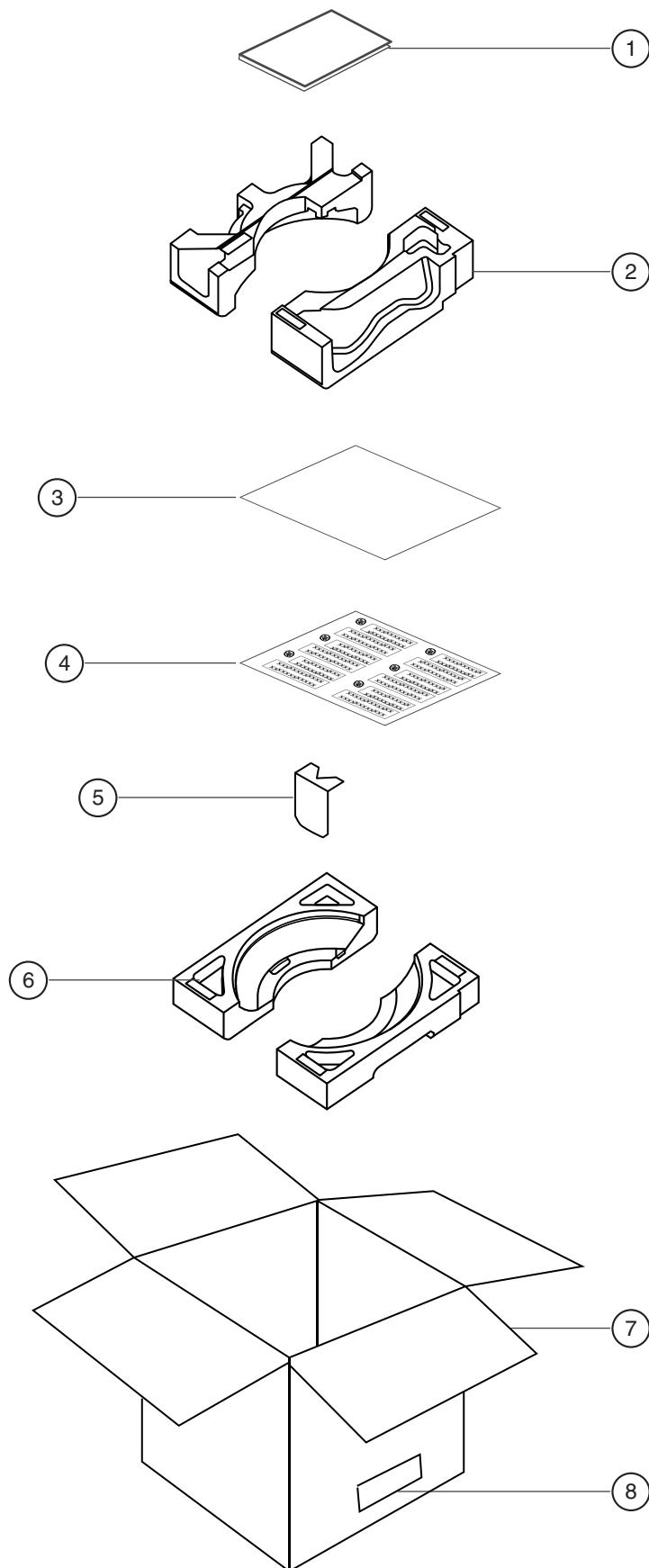
Note : When assembling, refer to the illustration without the position relationship between the Inner Enclosure and the Upper Frame.

7. PARTS EXPLODED VIEW AND REPLACEMENT PARTS LIST

7.1 Parts Exploded View : Body



7.2 Parts Exploded View : Packing



Important safety notice :

Components identified by mark have special characteristics important for safety.
When replacing any of these components, use only manufacturer's specified part.

7.3 Replacement Parts List : SR-TEG10 / SR-TEG18**Parts List**

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL / Q'TY		REMARK
				TEG10	TEG18	
1	OUTER LID ASSY	ARB01H921-0U		1		
		ARB01H920-0U			1	
2	STEAM VENT ASSY	ARC00T9201WU		1	1	
3	HOOK LEVER	ARE05H617-W9		1		
		ARE05H616-W9			1	
4	HOOK LEVER SPRING	ARE06H616		1	1	
5	HOOK LEVER BASE	ARC31H617		1		
		ARC31H616			1	
6	HANDLE COVER	ARB15T9211W9		1		
		ARB15T920-W9			1	
7	HANDLE	ARB10T921-W9		1		
		ARB10T920-W9			1	
8	LID CAUTION LABEL	ARB32H920	S	1	1	
9	OUTER LID COMP	ARB01H921-WU		1		
		ARB01H920-WU			1	
10	FLUORO PAN	ARE50M921		1		
		ARE50T920			1	
11	THERMOSTAT ASSY	AQS00T270B0U		1	1	
12	OUTER SPRING	ARS61H616		1	1	
13	CAST HEATER ASSY	ARL20M921-0U	S	1		
		ARL20M920-0U	S		1	
14	UPPER FRAME	ARE00L6171W9		1		
		ARE00L6161W9			1	
15	HINGE SHAFT	ARB74H616		1	1	
16	PROTECTING FRAME	ARE20T9211		1		
		ARE20T9201			1	
17	THERMAL FUSE ASSY	ARN40T92030U	S	1	1	
18	SIDE HEATER ASSY	ARL10R68910U	S	1		
		ARL10R68710U	S		1	
19	BODY ASSY	ARE10H921-SP		1		SOFT PINK
		ARE10H920-HO			1	HARMONY ORCHID
		ARE10H920-SP			1	SOFT PINK
		ARE10M921PSU		1		PLATINUM SILVER
		ARE10M920PSU			1	PLATINUM SILVER
		ARE10M920CNU			1	CHAMPAGNE GOLD
20	SWITCH ASSY	ARN01T921-WU		1		
		ARN01T920-WU			1	
21	SWITCH BUTTON	ARN70T920-W9		1	1	
22	DECORATIVE PANEL	ARN21T920-W9		1	1	
23	SWITCH PANEL	ARN10T9201W9		1	1	
24	LAMP BOARD ASSY	ARN85T92130U	S	1		
		ARN85T92030U	S		1	
25	FRAME COMPLETE	AQN60H921-0U		1		
		AQN60H920-0U			1	
26	BOTTOM FRAME	ARH30T9214		1		
	BOTTOM FRAME ASSY	ARH30T9204W9			1	
27	INLET	ARG10T92010U		1	1	
28	POWER CORD ASSY	ARQ00M96110U		1	1	S-3

Parts List

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL / Q'TY		REMARK
				TEG10	TEG18	
29	NAME PLATE	ARY30M9213SP	S	1		SOFT PINK
		ARY30M9203HO	S		1	HARMONY ORCHID
		ARY30M9203SP	S		1	SOFT PINK
		ARY30M921-PS	S	1		PLATINUM SILVER
		ARY30M920-PS	S		1	PLATINUM SILVER
		ARY30M920-CN	S		1	CHAMPAGNE GOLD
30	HINGE COVER	ARE40H6161W9		1	1	
31	DEW COLLECTOR	ARK10H616-C0		1	1	
32	MEASURING CUP	ASR792-454BK		1	1	
33	SCOOP	ASR79WT281AK		1	1	
34	STEAM BASKET	ARK53H617-W9		1		
		ARK53H6161W9			1	

Screws

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL / Q'TY		REMARK
				TEG10	TEG18	
A	TAPPING SCREW	XTB4+10GFJ		2	2	FOR HANDLE
B	SEMS SCREW	XYN4+C10FNS		1	1	FOR CAST HEATER
D	SEMS SCREW	XYN4+C7FNS		2	2	FOR WIRING
E	SPRING WASHER	XWA4BPW		1	1	USE WITH XYC4+CF8FJ
F	TAPPING SCREW	XYC4+CF8FJ		1	1	FOR BODY EARTH LEAD WIRE
G	TAPPING SCREW	ASR118-972-W		2	2	FOR BODY
H	TAPPING SCREW	XTN4+6FFJ		1	1	FOR THERMAL FUSE ASS'Y
				2	2	FOR FRAME ASS'Y
I	TAPPING SCREW	XTN4+16AVW		1	1	FOR HINGE COVER

Packing

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL / Q'TY		REMARK
				TEG10	TEG18	
1	OPERATING INSTRUCTIONS	ARZ19H9205	S	1	1	ENGLISH / CHINESE
2	UPPER PAD ASSY	ARZ80T921-0U		1		
		ARZ80T920-0U			1	
3	PLASTIC SHEET	ASR762T929AK		1	1	
4	RUST PROOF PAPER	ASR758T344B		1	1	
5	CORD PROTECTOR	ASR761H915-K		1	1	
6	LOWER PAD ASSY	ARZ11T92110U		1		
		ARZ11T92010U			1	
7	INNER PACKING CASE	ARZ01M9213SP		1		HARMONY ORCHID
		ARZ01M9203HO			1	HARMONY ORCHID
		ARZ01M921-PS		1		PLATINUM SILVER
		ARZ01M920-PS			1	PLATINUM SILVER
		ARZ01M9201CN			1	CHAMPAGNE GOLD
8	POS LABEL	ARZ80V921-SP		1		FOR SR-TEG10-SP
		ARZ80V920-LT			1	FOR SR-TEG18-LT
		ARZ80V920-SP			1	FOR SR-TEG18-SP

DETAIL CHANGE NOTICE

REVISION	ITEM NO.	PAGE	DETAIL	REMARK
NOV. 2013	1	1	ADD NEW COLOUR	ADD PLATINUM SILVER (PS), CHAMPAGNE GOLD (CN)
	2	2~3	ADD PAGE NO. 2~3	ADD CONTENT AND SPECIFICATION
	3	2~14	REVISE TO NEW PATTERN	USE PATTERN SAME OTHER PRODUCTS
	4	11~12	REVISE PICTURES	FOR SAME FACTORY ORDER SUPPLIERS
	5	13~14	REVISE SOME PARTS NO.	FOR USE PART NO. CORRECT