Service Manual



Automatic Rice Cooker/Steamer
Model No. SR-W18GSLRA
SR-W18GSARA
SR-W18GSRRA
SR-W22GSLRA
SR-W22GSARA
SR-W22GSRRA

Destination \

VIETNAM

⚠ 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 \triangle 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.

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1 Safety Precautions

It is describing to be always looked after for the accident prevention at the time of the repair works and the safety ensuring of the product after work as follows.

The precautions listed below must be followed in order to prevent accidents during repair and ensure the safety of the product after repair.

■ The following labels describe the degree of danger and damage that might result through non-compliance with these precautions.

\triangle	Danger This section warns of the urgent danger of death or serious injury.			
Warning This section warns of the risk of death or serious injury.		This section warns of the risk of death or serious injury.		
<u> </u>	Caution	This section warns of the risk of injury or damage to property.		

■ The following labels describe the types of rules that need to be followed. (These labels are examples.)

\triangle	This label shows a "reminder" action to be paid attention to.			
0	This label shows a "prohibited" action.			
0	This label shows a "compulsory" action to be followed without fail.			





Be careful of electrical shocks caused by the high-voltage section of the IH circuit when the power is turned on.

The high-voltage section of the IH circuit includes a heat sink and heating coil terminal on the control board.

After repair, return wiring to its original condition.



Rotary parts or part extremities that contact lead may cause failure, electrical shock, or fire.

Unplug before repair.



Make sure to unplug before disassembly, parts replacement, and assembly. Otherwise, electrical shock or injury may occur.

Use a designated part



Make sure to use a designated part when the part is marked in circuit diagrams and parts lists.

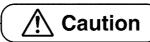
Otherwise, smoke, fire, or failure may occur.

Wait until the rotary part has stopped completely.



You may injure your hands even when the part is rotating slowly.

Do not touch





Wear gloves for disassembly, replacement and assembly.

Make sure to wear gloves in order to prevent injuries by metal edges and electric shock when the power is turned on.

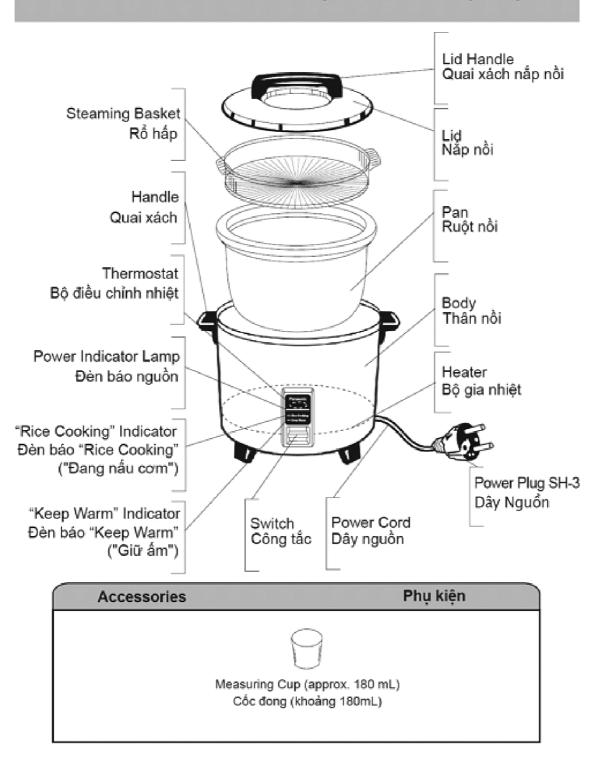
2 Specifications

2.1. SR-W18GSLRA/ARA/RRA / SR-W22GSLRA/ARA/RRA

Model No.		SR-W18GSLRA/ARA/RRA	SR-W22GSLRA/ARA/RRA	
Power Source		AC220V~50Hz	AC220V~50Hz	
Power Consumption	Cooking	600W	730W	
I ower consumption	Warming	45W	45W	
Cooking Capacity	•	2cups-10cups (0.36L-1.8L)	2cups-12cups (0.36L-2.2L)	
Warming Capacity		2cups-10cups (0.36L-1.8L)	2cups-12cups (0.36L-2.2L)	
Dimensions		(Length) 259mm (Width) 308mm (Height) 325mm	(Length) 259mm (Width) 308mm (Height) 340	
Weight		2.50kg	2.60kg	
Cord		Approx. 1.2m	Approx. 1.2m	
Accessories		Measuring cup, Steaming basket	Measuring cup, Steaming basket	

3 Location of Controls and Components SR-W18GS (LRA/ARA/RRA) & SR-W22GS (LRA/ARA/RRA)

PARTS IDENTIFICATION NHẬN BIẾT CÁC BỘ PHẬN



4 Operating Instructions

4.1. How to Use

HOW TO USE

CÁCH SỬ DỤNG

Measure rice with the provided Measuring Cup. One cup of uncooked rice makes approximately 2 cups of cooked rice. Rinse rice in a separate bowl until water becomes relatively clear.

Đong gạo bằng Cốc đong đi kèm. Một cốc gạo sống sẽ nấu được khoảng 2 bát cơm. Vo gạo trong bát riêng cho đến khi nước tương đối trong.

2 Put rinsed rice in the Pan. Refer to the markings on the Pan.

e.g. To cook 6 cups of rice, put the rice into the Pan and then add water to the LEVEL INDICATOR 6.

Đổ gạo đã vo vào Ruột nồi. Tham khảo các dấu trên Ruôt nồi.

ví dụ:Để nấu 6 cốc gạo, đổ gạo vào Ruột nồi rồi thêm nước đến VẠCH CHỉ BÁO MỨC ĐỘ SỐ 6



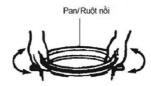


MAX. LEVEL: Do not cook more than this amount. MÚC TỐI ĐA: Không nấu nhiều hơn số lượng này.

Adjust water quantity to your taste.

Điều chỉnh lượng nước theo khẩu vị của bạn.

3 Set the Pan in the Rice Cooker. To place correctly on the Heater, turn the Pan gently to right and left. Cover with the Lid and let rice soak approximately 30 minutes. Đặt Ruột nồi vào trong Nồi cơm điện. Để đặt một cách chính xác trên Bộ gia nhiệt, xoay Ruột nồi nhẹ nhàng sang phải và trái. Đậy Nắp nồi và ngâm gạo khoảng 30 phút.



HOW TO USE

CÁCH SỬ DỤNG

4

Plug in. The Power Indicator Lamp lights.

Do not plug in until ready to cook. Otherwise, the Rice Cooker will turn into "Keep Warm" function and rice may be spoiled.

If you do not set the Pan in the Rice Cooker, the Switch cannot be turned on.



Cắm điện. Đèn báo nguồn sáng.

Không cắm điện khi chưa sẵn sàng nấu. Nếu không, Nồi cơm điện sẽ chuyển sang chức năng "Keep Warm" (Giữ ấm) và gạo có thể bị hỏng.

Nếu không đặt Ruột nồi trong Nồi cơm điện, bạn không thể bật Công tắc được.

Press the Switch. The "Rice Cooking" Indicator (Orange) shows you cooking has started.



Ấn Công tắc. Đèn báo "Rice Cooking" (Đang nấu cơm) (Màu cam) cho bạn biết quá trình nấu đã bắt đầu.

When rice is done, the Switch will pop up. The "Keep Warm" Indicator changes to orange to signal "Keep Warm" function is working. Khi cơm cạn, Công tắc sẽ bật lên. Đèn báo "Keep Warm" (Giữ ấm) chuyển sang màu cam để báo hiệu chức năng "Keep Warm" (Giữ ấm) đang hoạt động.

After the Switch pops up, leave the Lid closed for at least 15 minutes to steam rice. Then mix the rice well by using a rice scoop to allow water vapor to escape (especially when cooking towards maximum quantity).

Sau khi Công tắc bật lên, tiếp tục đóng Nắp nồi trong ít nhất 15 phút để gạo chín bằng hơi. Sau đó, dùng muôi múc cơm đảo đều gạo để cho phép hơi nước thoát ra (đặc biệt khi nấu gần tới số lượng tối đa).

Unplug after use. Grasp the Power Plug, not the Power Cord.

Rút phích cắm sau khi sử dụng. Nắm Phích cắm điện, không nắm Dây nguồn.

4.2. Keep Warm Function

KEEP WARM FUNCTION

CHỰC NĂNG GIỮ ÂM

- After cooking is completed, the "Keep Warm" function automatically works until the Power Cord is unplugged.
- Always unplug before taking the Pan out of the Rice Cooker.
- Do not switch to "Rice Cooking" again during "Keep Warm" function.
- Do not keep rice warm for more than 5 hours.
- Do not use the "Keep Warm" function to reheat cold rice.
- Sau khi nàu xong, chức năng "Keep Warm" (Giữ ắm) tự động vặn hánh tới khi bạn rút phích cẩm Đây nguồn
- Luốn rút phích cảm trước khi lậy Ruột nói ra khỏi Nổi cơm điện
- Không chuyển lại công tắc sang "Rice Cooking" (Đạng nấu cơm) khi chức năng 'Keep Warm' (Giữ âm) dạng hoạt động.
- Không giữ ám cơm quá 5 giớ.
- Không sử dụng chức năng "Keep Warm" (Giữ ám) để hàm lại com nguội.

4.3. How to Steam Foods

HOW TO STEAM FOODS

CÁCH HẤP THỰC PHẨM

Add water to the Pan and put the Pan into the Body



Thêm nước vào Ruột nồi và đặt Ruột nồi vào Thân nồi

Nước

Place the Steaming Basket on the Pan. Add food in the Steaming Basket, (place it on a dish if required).



Đặt Rổ hấp lên Ruột nồi. Thêm thực phẩm vào Rổ hấp, (đặt lên đĩa nếu cần).

Cover the Rice Cooker with the Lid.



Đậy Nắp Nồi cơm điện.

Plug in and press the Switch. The orange "Rice Cooking" Indicator shows you steaming has started.



Cắm điện và ấn Công tắc. Đèn báo "Rice Cooking" (Đang nấu cơm) màu cam cho ban biết quá trình hấn đã bắt

màu cam cho bạn biết quá trình hấp đã bắt đầu.

- Time the cooking manually.
 - * The Rice Cooker will automatically switch to "Keep Warm", when water has evaporated.
 - * Remember that foods will continue to cook on "Keep Warm". There must be water in the Pan.

Canh thời gian nấu theo cách thủ công.

- * Nồi cơm điện sẽ tự động chuyển sang chức năng Giữ ấm khi nước đã bốc hơi.
- * Nhớ rằng thực phẩm sẽ tiếp tục được nấu khi chức năng Giữ ấm hoạt động. Ruột nồi phải có nước.
- Turn off the Rice Cooker by unplugging.

Tắt Nồi cơm điện bằng cách rút phích cắm.

Remove foods, then the Steaming Basket, and then finally pour off water.

Lấy thực phẩm ra, sau đó, lấy Rổ hấp ra, cuối cùng đổ nước đi.

4.4. How to Clean

HOW TO CLEAN

- Unplug before cleaning.
- Soak the Pan in hot water to loosen cooked-on rice.
- Do not immerse the Rice Cooker in water or any other liquid. Wipe with a dry cloth.
- Do not use abrasive cleaners or steel wool. Clean with non-metal brush or sponge.
- Please use fine sand paper (around No. 600) or dry cloth to gently clean the Heater.

CÁCH VỆ SINH

- Rút phích cắm trước khi vệ sinh.
- Ngâm Ruột nồi trong nước nóng để cơm bong ra.
- Không ngâm Nồi cơm điện trong nước hoặc bất kỳ dung dịch nào khác. Lau bằng khăn đã vắt sạch nước.
- Không sử dụng giẻ nhám hoặc bùi nhùi thép. Vệ sinh bằng chổi không chứa kim loại hoặc bằng bọt biển.
- Vui lòng sử dụng giấy nhám vừa phải (loại có số khoảng 600) hoặc khăn khô để lau nhẹ Bộ gia nhiệt.

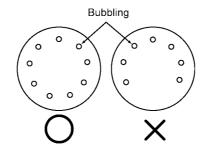
5 Test Mode

Judging Method of Defective Parts

5.1. Bubbling Test

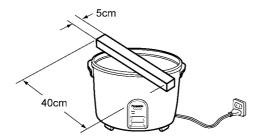
Put the pan in the cooker body and turn it lightly right-and-leftwards in order to allow the pan to properly contact the heating plate.

- 1. Put water in the pan to barely cover the center of the pan bottom, and turn on the cooking switch after the lid is placed.
- 2. When water has started boiling to issue steam, remove the lid and check the bubbling condition of the pan bottom immediately.
- 3. If bubbling takes place uniformly around the circumference of the pan bottom as shown in the figure, the cooker is considered free from trouble. However, if more than 1/4 of the pan circumference is not bubbling as shown in the righthand figure, the cooker is considered defective. Since the cause for this defect lies in poor contact of the pan buttom with the cooking heater, check if no foreign matter exists on the pan bottom or the cooking heater and if foreign matter is found, remove it or replace the parts.



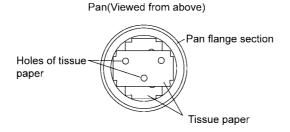
5.2. Evaporation Test

1. After satisfactory bubbling is confirmed, remove the lid and put a weight on the cooker.



Caution: To prevent heat distortion of plastic parts due to steam, be sure to fully open the lid.

2. Cover the entire pan bottom with 2 or 3 pieces of tissue paper (or gauze), and turn on the switch subsequently.



Caution: To prevent the tissue paper from being lifted by bubbling, make some holes in the paper beforehand.

3. The cooker is considered acceptable it 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 requirments are not satisfied, check the center thermostat as well as the contacted condition between the pan bottom and the cast heater, and then repair or replace the parts.

5.3. Switch Lever (Auxiliary Lever Adjustment)

The cooking switch turns on and off the micro-switch by means of a switch lever, utilizing the mechanical up/down movements of the center thermostat. Therefore, check this function in the following procedure.

5.3.1. Checking of Cooking Switch

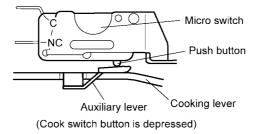
Put the pan in the body and plug in the cooker through a wattmeter.

- 1. When the cooking switch is turned on, the rated power consumption for cooking should be indicated on the wattmeter. Furthermore, even when the cooking button is moved up and down to such as extent that the cooking switch is not turned off (i.e. even when moved by the lever gap). this rated cooking power should be being consumed.
- 2. Turning off the cooking switch should indicate "45W" on the wattmeter.

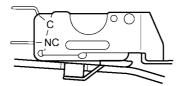
5.3.2. Switch Lever Adjustment

Put the pan in the body.

1. When the cooking switch is on, the auxiliary lever should not be in contact with the push button of micro-switch.



2. When it is off, the auxiliary lever should be in contact with the bottom surface of micro-switch.



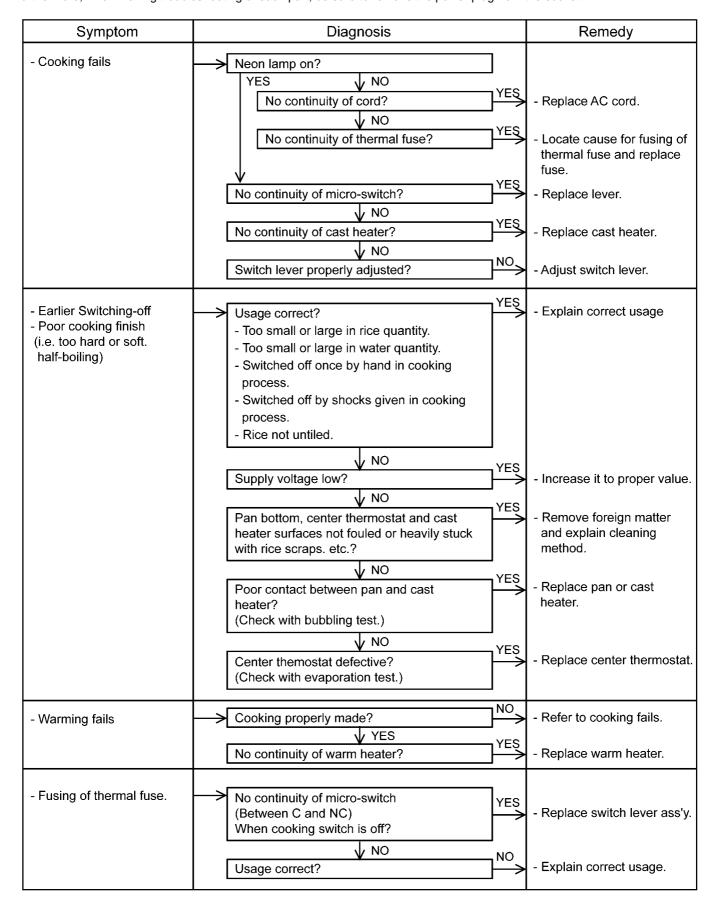
(Cook switch button is relieved to it's original position.)

Adjust the auxiliary lever by bending its roots section, with a regular screwdriver in such a manner that the above requirements a) and b) are met. Then, check the cooking switch again in accordance with the procedure given in "Checking of Cooking Switch" above.

6 Troubleshooting Guide

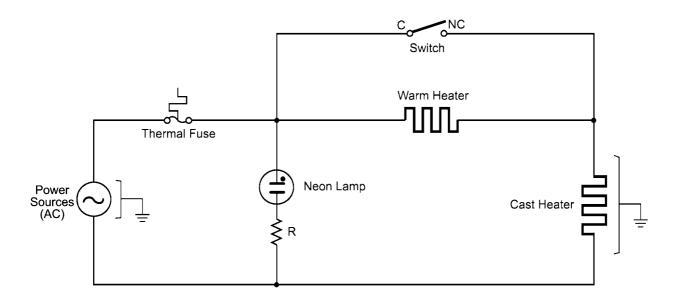
When receiving the cooker to be repaired. always take charge of not only the cooker body but also the pan and the lid, and ask for details as to the symptom of the trouble.

Furthermore, when making troubleshooting of each part, be sure to remove the power plug from the socket.

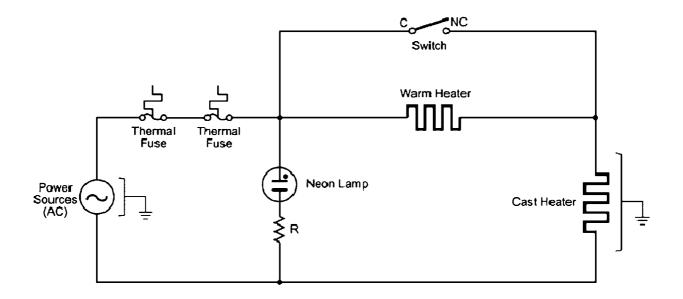


7 Schematic Diagram

7.1. SR-W18GSLRA/ARA/RRA

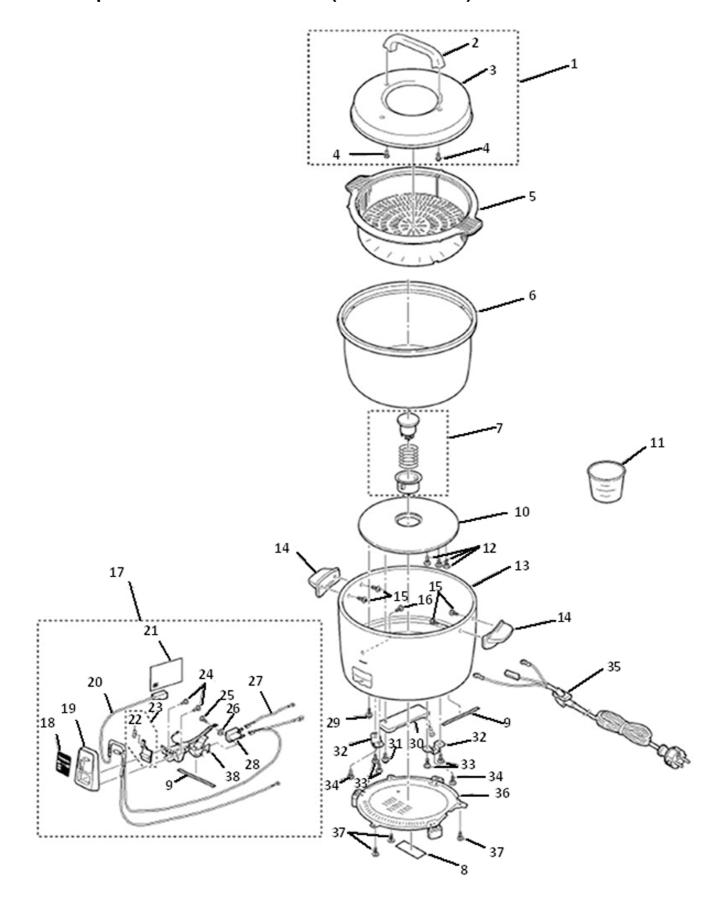


7.2. SR-W22GSLRA/ARA/RRA



8 Exploded View and Replacement Parts List

8.1. Exploded View -- SR-W18GS (LRA/ARA/RRA)



8.2. Replacement Parts List -- SR-W18GS (LRA/ARA/RRA)

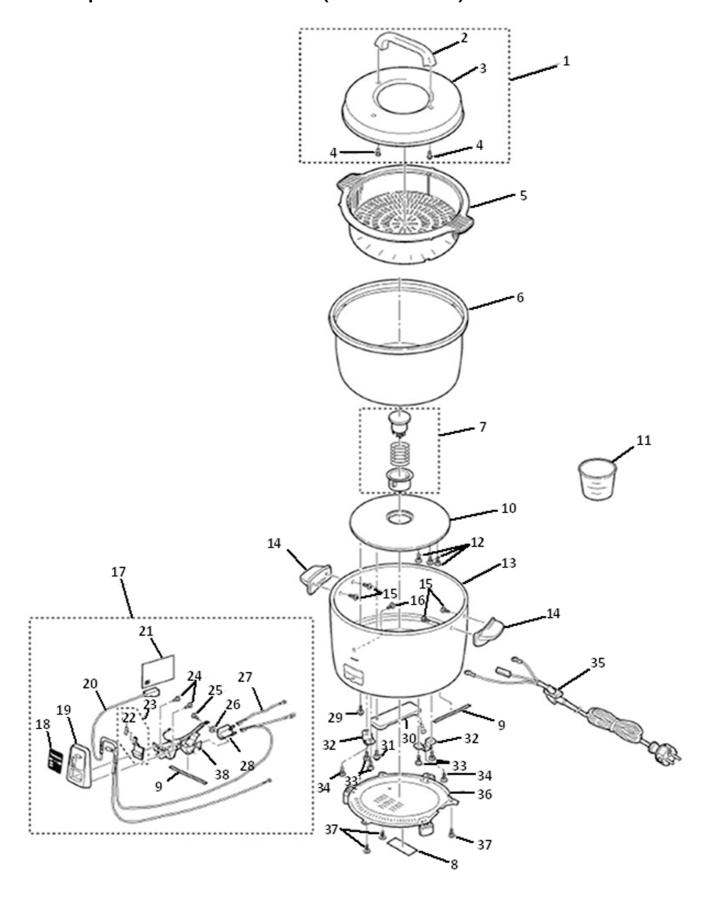
Notes: Important safety notice

- \bullet Components identified by ${\vartriangle}$ mark have special characteristics important for safety.
- When replacing any of these components use only manufacturer's specified parts.

MODEL No. SR-W18GS LRA / SR-W18GS ARA / SR-W18GS RRA

Safety	Ref. No.	Part No.	Part Name & Description	Pcs/Set VIETNAM - 220V SR-W18GS	Remarks
	<u> </u>		< PARTS LIST >	511 112005	
	1	AQB01D104H0U	Lid Ass'ly	1	
	2	AQB10D100-H0	Lid Knob	1	
	3	AQB01D104	Lid	1	
	4	XTN4+10BVW	Screw	2	For Lid Assy.
	5	AQK25A195-C0	Steaming Basket	1	
	6	AQE50V197	Pan	1	
Δ	7	AQS00D10000U	Center Thermostat	1	
<u> </u>	8	AQ50V522-LN	Name Plate	1	Silver Body (LRA)
<u></u>	8	AQ50V522-BP	Name Plate	1	Metallic Blue Body (ARA)
<u> </u>	8	AQ50V522-V2	Name Plate	1	Burgundy Body (RRA)
	9	AQN45D100	Binder	2	
⚠	10	AQL20Y52200U	CastHeater Ass'ly	1	Sheath heater , AC220V
7:3	11	AQK00D100	Measuring Cup	1	180mL
	12	XYN4+C7FNS	Screw	3	
	13	AQE10D1001LN	Body Comp	1	For Internal Wiring Assly Silver (LRA)
	13	AQE10D1001EN	Body Comp	1	Metallic Blue (ARA)
	13	AQE10D1001BP	Body Comp	1	Burgundy (RRA)
	14	AQE30D100-H0	Handle	2	Dargana, (Mar)
	15	XTN4+8BFY	Screw	4	For Handle
	16	XTN4+8BFY	Screw	1	For Comp. Switch
⚠	17	AQN00Y522W0U	Comp Switch	1	Tor comp. Dwreen
	18	AQN20Y1051	Front Panel	1	
	19	AQN10D100-W0	Switch Enclosure	1	
⚠	20	AQN35Y522	Lamp Comp.	1	113deg , 10A
	21	AQQ91Y522	Glass Tape B	1	
	22	AQN32D100	Indicator Sheet	1	
	23	AQN31D10000U	Switch Button Comp	1	
	24	XTN3+10BFY	Screw	2	For Switch Lever
	25	XYN3+C14FNS	Screw	1	For Micro Switch
	26	AQN02D100	Fiber Washer	1	For Micro Switch
Δ	27	AQN44D209	Lead Wire	1	
<u> </u>	28	AQN01D100	Micro Switch	1	
	29	XYN5+C10FNS	Sems Screw	1	For Cast Heater
Δ	30	AQL70D20900U	Mica Heater Ass'y	1	
	31	XYN5+C10FNS	Sems Screw	1	For Mica Heater Ass'y
	32	ARQ18Y522	Earth Plate	2	
	33	XTN4+6FFJ	Screw	4	For Earth Plate
	34	XYC4+EF8FJ	Screw	2	For Earth Lead Wire
Δ	35	AQQ00E522-00U	Power Cord Assly	1	SH-3 Type Plug
	36	AQH20D100H0U	Bottom Plate Assly	1	
	37	XTN4+8BFY	Screw	3	For Bottom Plate
	38	AQN30Y52200U	Switch Lever Assy	1	
	1	1	< PACKING SPECIFICATION		<u> </u>
	1	AQZ02V522	Packing Case	1	
	2	AQZ20D1001	Bottom Pad-A	1	
	3	AQZ21D1001	Bottom Pad-B	1	
	4	AQZ25D1001	Handle Pad	1	
	5	AQZ30D100	Cord Pad	1	
⚠	6	AQY00V522	Operating Instructions	1	
	7	AQQ31D100	Packing Paper	1	For Lid Assy.
-	8	AQZ03D100	Protecting Sheet	1	-
	9	AQZ33L102	Rust Proof Paper	1	

8.3. Exploded View -- SR-W22GS (LRA/ARA/RRA)



8.4. Replacement Parts List -- SR-W22GS (LRA/ARA/RRA)

Notes: Important safety notice

- \bullet Components identified by \triangle mark have special characteristics important for safety.
- When replacing any of these components use only manufacturer's specified parts.

MODEL No. SR-W22GS LRA / SR-W22GS ARA / SR-W22GS RRA

Safety	Ref. No.	Part No.	Part Name & Description	Pcs/Set	Remarks
				VIETNAM - 220V	
				SR-W22GS	
			< PARTS LIST >		
	1	AQB01D104H0U	Lid Ass'ly	1	
	2	AQB10D100-H0	Lid Knob	1	
	3	AQB01D104	Lid	1	
	4	XTN4+10BVW	Screw	2	For Lid Assy.
	5	AQK25A195-C0	Steaming Basket	1	
	6	AQE50Y254	Pan	1	
Æ	7	AQS00D10000U	Center Thermostat	1	
Æ	8	AQ50V523-LN	Name Plate	1	Silver Body (LRA)
A	8	AQ50V523-BP	Name Plate	1	Metallic Blue Body (ARA)
A	8	AQ50V523-V2	Name Plate	1	Burgundy Body (RRA)
	9	AQN45D100	Binder	2	
Δ	10	AQL20Y52300U	CastHeater Ass'ly	1	Sheath heater , AC220V
	11	AQK00D100	Measuring Cup	1	180mL
	12	XYN4+C7FNS	Screw	3	For Internal Wiring Assly
	13	AQE10Y2041LN	Body Comp	1	Silver (LRA)
	13	AQE10Y2041BP	Body Comp	1	Metallic Blue (ARA)
	13	AOE10Y2041V2	Body Comp	1	Burgundy (RRA)
	14	AOE30D100-H0	Handle	2	burgundy (RRA)
	15	XTN4+8BFY	Screw	4	For Handle
	16	XTN4+8BFY	Screw	1	For Comp. Switch
⚠	17	AQN00Y523W0U	Comp Switch	1	FOI COMP. SWITCH
<u> </u>		17			
	18	AQN20Y1051	Front Panel	1	
Δ.		AQN10D100-W0	Switch Enclosure		1123 103
⚠	20	AQN35Y523	Lamp Comp.	1	113deg , 10A
	21	AQQ91Y522	Glass Tape B	1	
	22	AQN32D100	Indicator Sheet	1	
	23	AQN31D10000U	Switch Button Comp	1	
	24	XTN3+10BFY	Screw	2	For Switch Lever
	25	XYN3+C14FNS	Screw	1	For Micro Switch
^	26	AQN02D100	Fiber Washer	1	For Micro Switch
<u> </u>	27	AQN44D209	Lead Wire	1	
Æ	28	AQN01D100	Micro Switch	1	
	29	XYN5+C10FNS	Sems Screw	1	For Cast Heater
⚠	30	AQL70D20900U	Mica Heater Ass'y	1	
	31	XYN5+C10FNS	Sems Screw	1	For Mica Heater Ass'y
-	32	ARQ18Y522	Earth Plate	2	
	33	XTN4+6FFJ	Screw	4	For Earth Plate
	34	XYC4+EF8FJ	Screw	2	For Earth Lead Wire
Æ	35	AQQ00E522-00U	Power Cord Assly	1	SH-3 Type Plug
	36	AQH20D100H0U	Bottom Plate Assly	1	
	37	XTN4+8BFY	Screw	3	For Bottom Plate
	38	AQN30Y52200U	Switch Lever Assy	1	
			< PACKING SPECIFICATIONS	>	
	1	AQZ02V523	Packing Case	1	
	2	AQZ20D1001	Bottom Pad-A	1	
	3	AQZ21D1001	Bottom Pad-B	1	
	4	AQZ25D1001	Handle Pad	1	
	5	AQZ30D100	Cord Pad	1	
Æ	6	AQY00V522	Operating Instructions	1	
	7	AQQ31D100	Packing Paper	1	For Lid Assy.
	•	AQZ03D100	Protecting Sheet	1	
	8	AQZUSDIUU	riotecting blieet	_	

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