

# Service Manual

## Multi-Cooker

SR-TMJ181



### Product Colour

Stainless (VP)


### Destination

Russia / Ukraine / Kazakhstan

### 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.

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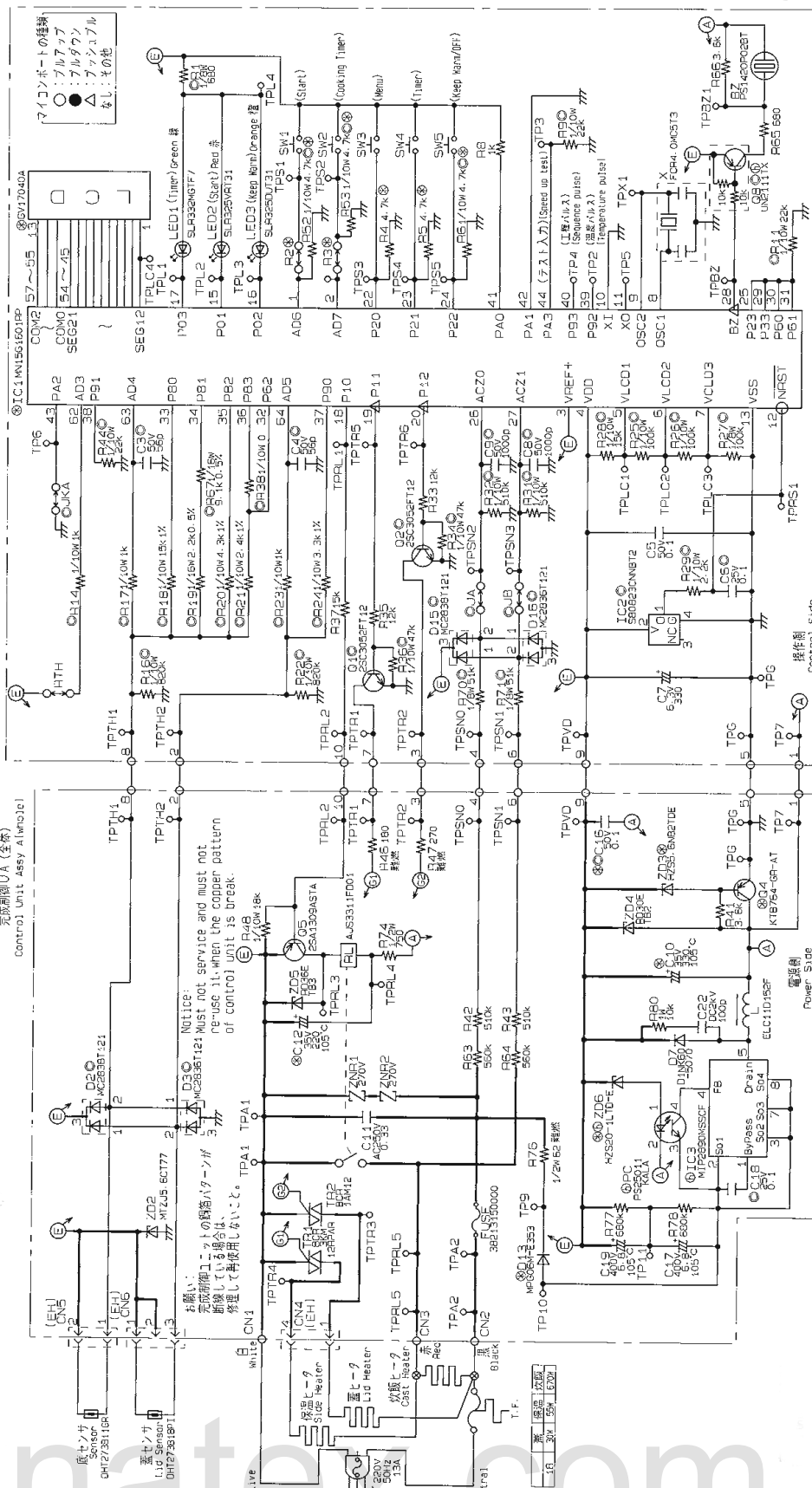
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# 1. SPECIFICATION

MODEL		SR-TMJ181
Countries		Russia, Ukraine, Kazakstan
Power Supply		220V / 50Hz / SH-3
Colour Name		Stainless
Colour Code		VP
Body Material		Stainless steel / SUS
Pan Material		Aluminium / AL
Power Consumption	Cooking	670W
	Warming	108.5W
Cooking Capacity	White Rice	2 cups ~ 8 cups
	Buck Wheat	2 cups ~ 8 cups
	Pearl Barley	2 cups ~ 8 cups
	Pilaf	2 cups
	Porridge / Slow cook / Soup / Compote	3.1 L
	Cake	900 g.
Warming Capacity	Plain Rice	2 cups ~ 8 cups
Cooked rice warming Temperature		71°C ~ 79°C
Temperature Detector		Sensor thermistor
Thermal fuse Specification		172°C 250V 10A
Product Dimension (Width x Depth x Height)		276 x 274 x 275 (mm)
Keep Warm		12 Hours
Weight		3.1 Kgs.
Power Cord (Approx.)		1.0 m.
Accessories		Measuring cup, Scoop, Steaming basket

\* Specification subject to change without notice.





### 3. TROUBLESHOOTING GUIDE

When receiving a rice boiler to be repaired, be sure to check that the main body is completely provide 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.

**3.1 Table 1**

Condition	Troubleshooting	Remedy
<b>Rice boiling section</b> <b>Plane rice.</b> <ul style="list-style-type: none"> <li>Rice is not boiling. (The indicating lamp does not come on)</li> </ul>	<div>Is the power cord conductive?</div> <div>No →</div> <div>Yes ↓</div> <div>Is the thermal fuse conductive?</div> <div>No →</div> <div>Yes ↓</div> <div>Is the therminal conductive?</div> <div>No →</div> <div>Yes ↓</div> <div>Are the parts on the P.C.B. mistake?</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>Replace the cord.</li> <li>Isolate the cause which melt the thermal fuse, correct the cause and</li> <li>Make sure insert therminal is fasten.</li> <li>Replace the P.C.B. complete.</li> </ul>
<ul style="list-style-type: none"> <li>Rice is not boiling. (The indicating lamp is lit)</li> </ul>	<div>Is the cast heater conductive?</div> <div>No →</div> <div>Yes ↓</div> <div>Are the parts on the P.C.B. mistake?</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>Replace the cast heater.</li> <li>Replace the P.C.B. complete.</li> </ul>
<ul style="list-style-type: none"> <li>Earlier cut off.</li> <li>Poor boiling up.</li> </ul> <div> <ul style="list-style-type: none"> <li>Too hard</li> <li>Too soft</li> <li>Insufficient boiling</li> </ul> </div>	<div>Is the pan bottom properly contacted with the cast heater? (Check with the bubbling test).</div> <div>No →</div> <div>Yes ↓</div> <div>Does the center thermostat operate properly? (Check with the operation test).</div> <div>No →</div> <div>Yes ↓</div> <div>Are the parts on the P.C.B. mistake?</div> <div>Yes →</div> <div>No ↓</div> <div>Improper operation</div> <div> <ul style="list-style-type: none"> <li>Rice is excessive or insufficient.</li> <li>Water is excessive or insufficient.</li> <li>The switch is turned off once during boiling.</li> <li>Immediately after the switch is turned off, open the cap.</li> <li>Rice has not been scooped and mixed well.</li> </ul> </div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>Replace the inner pan or the cast heater.</li> <li>Replace the center thermostat.</li> <li>Seeing at Table 2</li> <li>Explain the proper operation.</li> </ul>

Condition	Troubleshooting	Remedy
<ul style="list-style-type: none"> <li>Excessive burning. (More than light brown)</li> </ul>	<div>Does the center thermostat operate properly? (Check with the evaporation test).</div> <div>No →</div> <div>Yes ↓</div> <div>Are the parts on the P.C.B. mistake?</div> <div>Yes →</div> <div>No ↓</div> <div>Improper operation</div> <div> <ul style="list-style-type: none"> <li>Rice is not washed sufficiently (Bran remains still)</li> <li>The pan bottom is conditioned to generate burning easily.</li> <li>The voltage is lower than specified.</li> <li>Water is excessive.</li> </ul> </div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>Replace the center thermostat.</li> <li>Seeing at Table 2.</li> <li>Explain the proper operation.</li> </ul>
<ul style="list-style-type: none"> <li>Display of “Slow Cook” and “Rice Cook/Steam” are flashing light.</li> </ul>	<div>Check the sensor lead wire is connect completely with control unit board.</div> <div>No →</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>To join it with CN5.</li> <li>Take off and join it with CN5 again.</li> </ul>
<ul style="list-style-type: none"> <li>Display of “Start” and “Timer” are flashing light.</li> </ul>	<div>Is the relay operation ON/OFF alternately after flashing light occure?</div> <div>No →</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>Check the connector of wiring.</li> <li>Replace the control unit complete.</li> </ul>

3.2 Table 2

Condition	Troubleshooting	Remedy
<ul style="list-style-type: none"> <li>• Rice is not boiling. (The indicating lamp does not come on)</li> </ul>	<div>Is the transformer operating?</div> <div>No →</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>• Replace the transformer.</li> <li>• Replace the P.C.B. complete.</li> </ul>
<ul style="list-style-type: none"> <li>• Rice is not boiling. (The indicating lamp is lit)</li> </ul>	<div>Is the relay operation?</div> <div>No →</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>• Replace the relay.</li> <li>• Replace the P.C.B. complete.</li> </ul>
<ul style="list-style-type: none"> <li>• The thermal fuse is blown off.</li> </ul>	<div>Is the relay cut off?</div> <div>No →</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>• Replace the relay.</li> <li>• Replace the P.C.B. complete.</li> </ul>
<ul style="list-style-type: none"> <li>• Earlier cut off.</li> <li>• Poor boiling up.</li> </ul>	<div>Is the relay operation?</div> <div>No →</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>• Replace the relay.</li> <li>• Replace the P.C.B. complete.</li> </ul>
<ul style="list-style-type: none"> <li>• Excessive burning.</li> </ul>	<div>Is the relay operation?</div> <div>No →</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>• Replace the relay.</li> <li>• Replace the P.C.B. complete.</li> </ul>
<ul style="list-style-type: none"> <li>• Heat is not reserved. (The indicating lamp does not come on)</li> </ul>	<div>Is the transformer operating?</div> <div>No →</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>• Replace the transformer.</li> <li>• Replace the P.C.B. complete.</li> </ul>
<ul style="list-style-type: none"> <li>• Heat is not reserved. (The indicating lamp is lit)</li> </ul>	<div>Is the trial operating?</div> <div>No →</div> <div>Yes →</div>	<ul style="list-style-type: none"> <li>• Replace the transformer.</li> <li>• Replace the P.C.B. complete.</li> </ul>

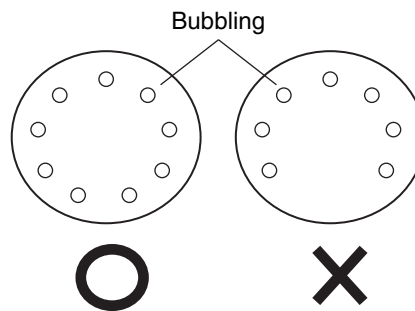


## 4. TESTING PROCEDURE

### 4.1 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

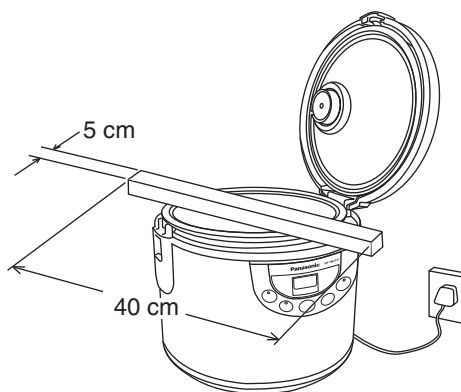
Bubbles does not generate on more than one quater part of the pan bottom circumference.....Improper

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.

### 4.2 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.

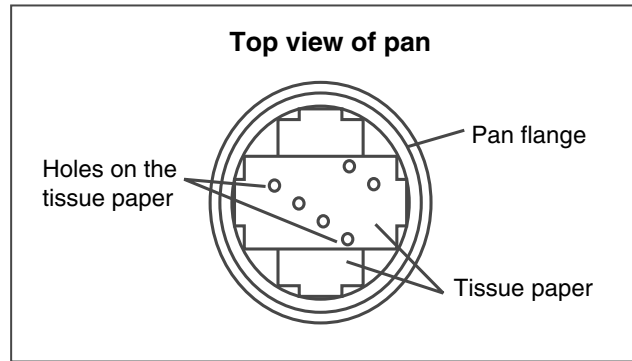
Note : To prevent tissue paper from floating because of bubbling, previously hole the paper.

3. Water on the pan bottom is completely evaporated to be empty. This timing is an 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.

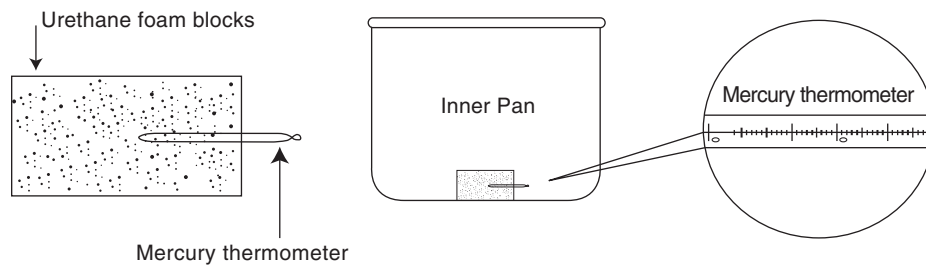


### 4.3 Heat reserving test

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 the beings 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°C .....Proper

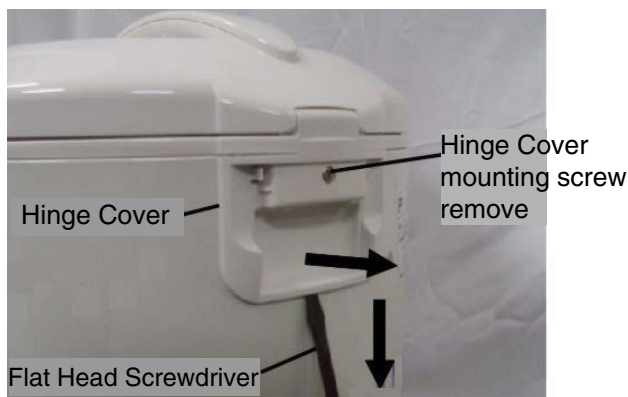
If outside 69°C - 77°C, check triac mounting for irregularity, if it is proper, replace warming heater.



## 5. DISASSEMBLY

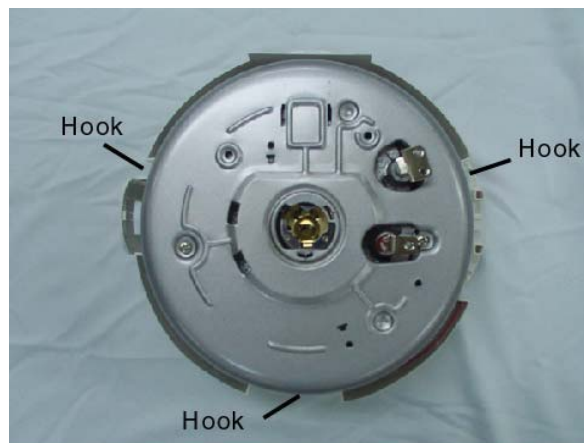
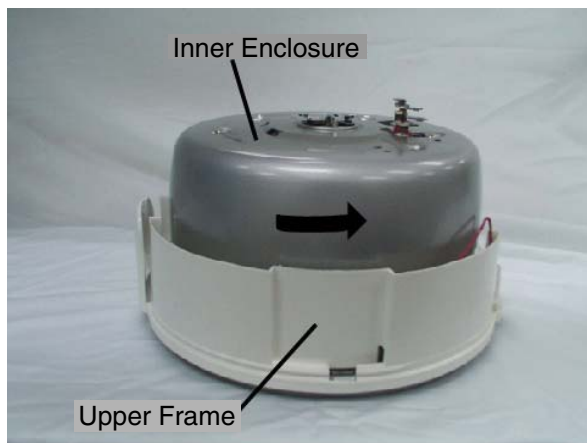
### 5.1 Hinge Cover removal (Hinge Cover)

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.







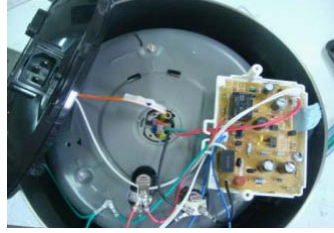

### 5.2 Inner Enclosure and Upper Frame removal

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 seperated from the Inner Enclosure and the Upper Frame.



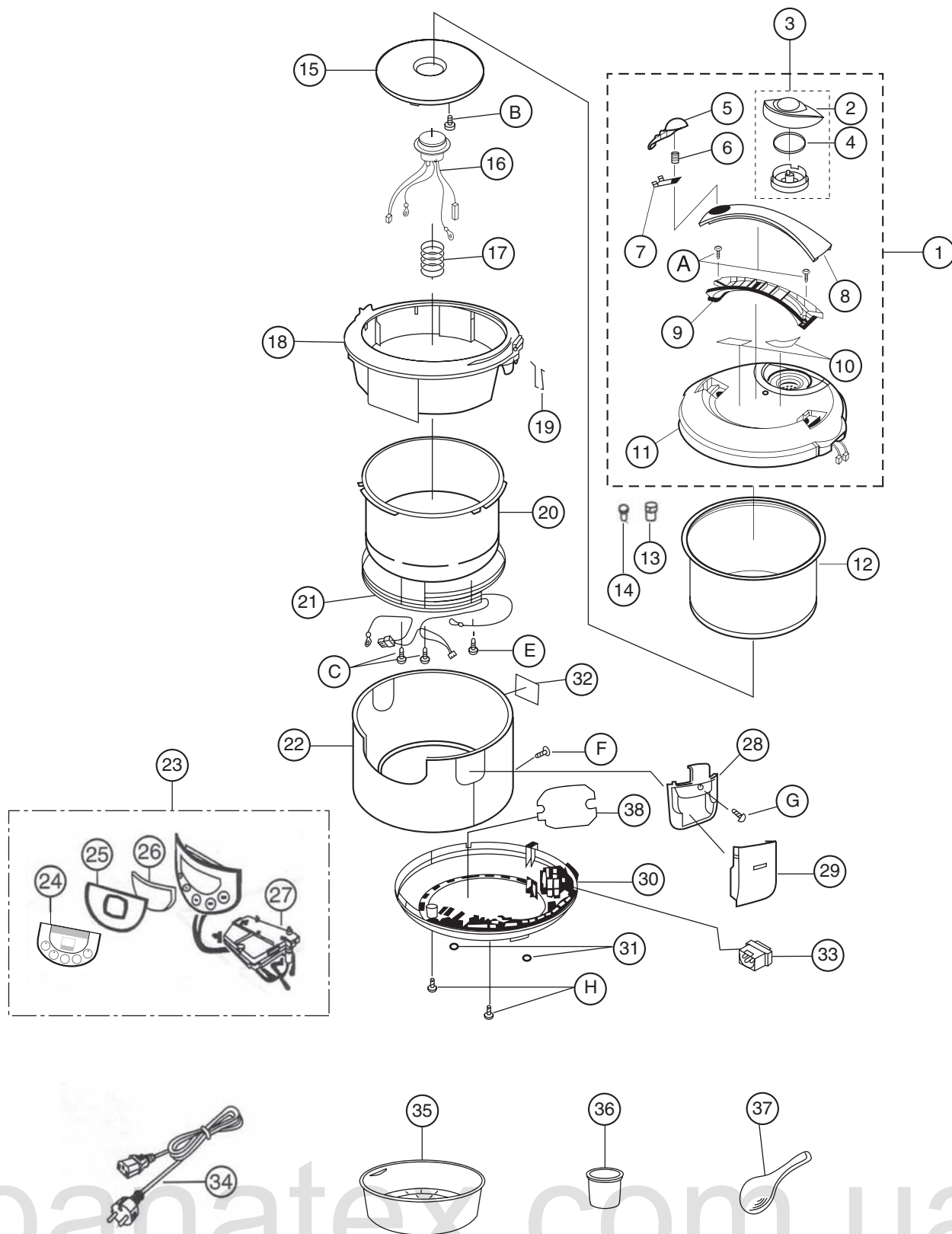
Note : When assembling, refer to the illustration without the position relationship between the Inner Enclosure and the Upper Frame.

### 5.3 Control Unit A

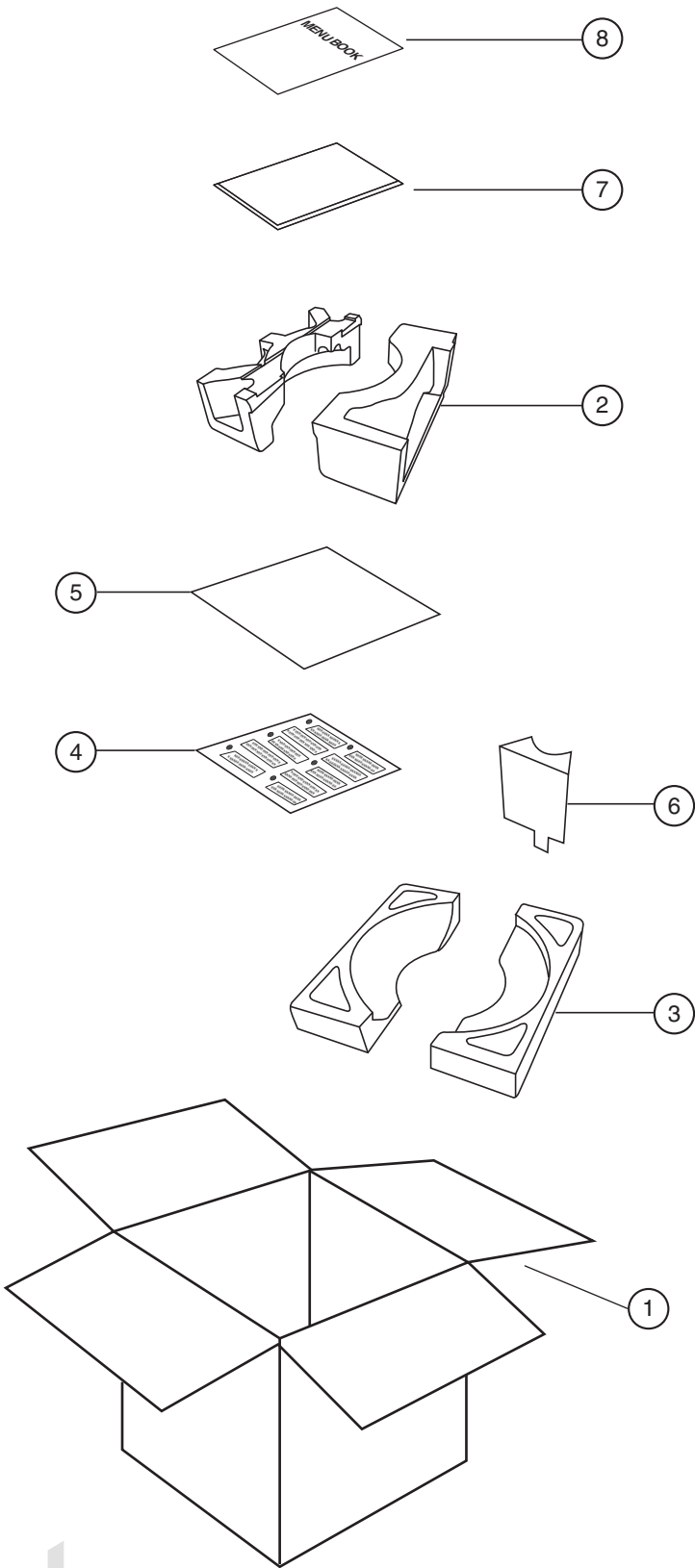
<ol style="list-style-type: none"> <li>1. Use screwdriver take off Hinge Cover. (PIC-1)</li> <li>2. Pull out at Hinge Shaft. (PIC-2)</li> <li>3. Pull out at Wiring of Lid Heater and then pull out Outer Lid Assy. (PIC-3)</li> </ol>	<div data-bbox="715 230 1050 454">  </div> <div data-bbox="842 461 916 490">PIC-1</div> <div data-bbox="1082 230 1422 454">  </div> <div data-bbox="1209 461 1289 490">PIC-2</div> <div data-bbox="715 510 1050 741">  </div> <div data-bbox="842 750 919 781">PIC-3</div>
<ol style="list-style-type: none"> <li>4. Loosen screw at Bottom Frame and Body. (PIC-4)</li> <li>5. Loosen screws at Bottom Frame and PCB Base. (PIC-5)</li> </ol>	<div data-bbox="715 824 1050 1055">  </div> <div data-bbox="842 1061 919 1093">PIC-4</div> <div data-bbox="1082 824 1422 1055">  </div> <div data-bbox="1209 1061 1289 1093">PIC-5</div>
<ol style="list-style-type: none"> <li>6. Use screwdriver pry up between Bottom Frame with Body.</li> <li>7. Take off Body with Bottom Frame. (PIC-6)</li> </ol>	<div data-bbox="715 1137 1050 1361">  </div> <div data-bbox="842 1368 919 1400">PIC-6</div>
<ol style="list-style-type: none"> <li>8. Loosen screw of Wiring. (PIC-7)</li> </ol>	<div data-bbox="715 1440 1050 1671">  </div> <div data-bbox="842 1680 919 1711">PIC-7</div>
<ol style="list-style-type: none"> <li>9. Loosen screw of PCB Control with P.C.B. Base. (PIC-8)</li> </ol>	<div data-bbox="715 1753 1050 1984">  </div> <div data-bbox="842 1991 919 2022">PIC-8</div>

## 6. PARTS EXPLODED VIEW AND REPLACEMENT PARTS LIST

### 6.1 Parts Exploded View : Body



6.2 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.

**6.3 Replacement Parts List : SR-TMJ181****Parts List**

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL / Q'TY	REMARK
				SR-TMJ181	
1	OUTER LID ASSY	ARB00K986KCU		1	COLOUR : BLACK
2	STEAM DOME	ARB19T9201KC		1	COLOUR : BLACK
3	STEAM VENT ASSY	ARC00T9201KU		1	COLOUR : BLACK
4	STEAM VENT PACKING	ARB31T920		1	
5	HOOK LEVER	ARE05H616-KC		1	COLOUR : BLACK
6	HOOK LEVER SPRING	ARE06H616		1	
7	HOOK LEVER BASE	ARC31H616		1	
8	HANDLE COVER	ARB15T920-KC		1	COLOUR : BLACK
9	HANDLE	ARB10T920-KC		1	COLOUR : BLACK
10	LID CAUTION LABEL - F	ARB32K986-F	S	1	RUSSIA / UKRAINE / KAZAKSTAN
	LID CAUTION LABEL - B	ARB32K986-B	S	1	RUSSIA / UKRAINE / KAZAKSTAN
11	OUTER LID COMP.	ARB01K920KCU		1	COLOUR : BLACK
12	PAN	ARE50T9341		1	COLOUR : SUMIFLON BLACK
13	RECEPTACLE HOUSING	ASLR-06VF		1	
14	PLUG HOUSING	ASLP-01V		1	
15	CAST HEATER ASSY	ARL20T908-0U	S	1	
16	THERMOSTAT ASSY	ARS14T90810U	S	1	
17	OUTER SPRING	ARS61H616		1	
18	UPPER FRAME	ARE00A6161KC		1	COLOUR : BLACK
19	HINGE SHAFT	ARB74H616		2	
20	PROTECTING FRAME	ARE20T934		1	
21	SIDE HEATER ASSY	ARL10T90810U	S	1	
22	BODY ASSY	ARE10K986VPU		1	STAINLESS
23	SWITCH ASSY	ARN01K986VMU	S	1	COLOUR : LIGHT GREY
24	DECORATIVE PANEL A	ARN21K986-VM		1	COLOUR : LIGHT GREY
25	DECORATIVE PANEL B	ARN24K986-KC		1	COLOUR : BLACK
26	ACRYLIC COVER	ARN20T908-C0		1	
27	SWITCH PANEL ASSY	ARN10K986KCU	S	1	
28	HINGE COVER	ARE40H6161KC		1	COLOUR : BLACK
29	DEW COLLECTOR	ARK10H616-KC		1	COLOUR : BLACK
30	BOTTOM FRAME	ARH30T9204KC		1	COLOUR : BLACK
31	FOOT RUBBER	AFU86-162		2	

## Parts List

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL / Q'TY	REMARK
				SR-TMJ181	
32	NAME PLATE	ARY30K9861VP	S	1	
33	INLET	ARG10T92010U	S	1	
34	POWER CORD ASSY	ARQ00T920-0U	S	1	
35	STEAM BASKET	ARK53H6161W9		1	
36	MEASURING CUP	ASR792-454BK		1	
37	SCOOP	ASR79WT281AK		1	
38	PCB COVER	ARN32K986		1	

## Screws

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL / Q'TY	REMARK
				SR-TMJ181	
A	TAPPING SCREW	XTB4+10GFJ		2	FOR HANDLE
B	SEMS SCREW	XYN4+C10FNS		1	FOR CAST HEATER ASSY
C	SEMS SCREW	XYN4+C7FNS		3	FOR INTERNAL WIRING
E	TAPPING SCREW	XYC4+CF8FJ		1	FOR BODY AND THERMOSTAT EARTH
F	TAPPING SCREW	ASR118-972-W		2	FOR BOTTOM FRAME AND BODY
G	TAPPING SCREW	XTN4+16AVW		1	FOR HINGE COVER
H	TAPPING SCREW	XTB4+25CFJ		2	FOR BOTTOM FRAME AND PCB BASE

## Packing List

REF. NO.	PART NAME	PART NO.	SAFETY	MODEL / Q'TY	REMARK
				SR-TMJ181	
1	INNER PACKING CASE	ARZ01K986-VP		1	
2	UPPER PAD ASSY	ARZ80T920-0U		1	SET
3	LOWER PAD ASSY	ARZ11T92010U		1	SET
4	RUST PROOF PAPER	ASR758T344B		1	
5	POLYETHYLENE SHEET	ASR762T929-K		1	
6	CORD PROTECTOR	ASR761H915-K		1	
7	OPERATING INSTRUCTION	ARZ19K986	S	1	RUSSIA / UKRAINE / KAZAKSTAN
8	MENU BOOK	ARZ20K986	S	1	



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