Thank you for buying the goot Soldering Station. Read this Operation Manual before using your soldering station.

This is a common operation manual for RX-701AS & RX-711AS. Each model number is mentioned in the text. Be sure to read properly for your model.

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1. SAFETY MARK DEFINITIONS

In this manual, the following safety marks are used.

**WARNING**
Failure to obey a safety warning could result in serious injury or death to yourself or to others, or in physical damage.

**CAUTION**
Failure to obey a safety warning could result in injury to yourself or to others, or in physical damage.

**NOTE** A note or word of advice.

2. FOR SAFE OPERATION

1. Do not use in dangerous environments. Never use it in damp, humid or wet locations (including outside), or near flammable substances.
2. Keep children and bystanders away from the unit.
3. Turn off the power when not in use.
4. This soldering station is an electrical tool used to solder parts and melt solder. Do not use the soldering station for any purpose not intended. For example: the soldering station should never be used to warm water or other liquids.
5. Wear proper apparel and safety glasses.
6. Connect to a correct AC power supply. Do not use with any power voltage other than the indicated voltage.
7. If the power cord is damaged, stop using immediately and turn off the power. Return to the distributor for replacement.
8. Be sure to use the ST-27 soldering iron stand included with this soldering station. Other soldering iron stands may melt the parts of this unit.
9. Plug the machine into a grounded 3-prong plug. Make sure that the machine must be grounded at all times to prevent electrical shocks and static electricity.

10. The soldering iron is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety. Children should be supervised to ensure that they do not play with the appliance.

11. Do not disassemble the control unit.

12. This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.

13. Cleaning and user maintenance shall not be made by children without supervision.

**WARNING**
This soldering handle must be placed on its stand when not in use.
3. PACKAGE CONTENTS / NAMES OF PARTS

Control Box

- Temperature Display (RX-711AS only)
- Temperature Display Changeover Switch (RX-711AS only)
- Calibration Screw (CAL.)
- Protective Cover
- Heat Monitor Lamp
- Connector
- Protective Cover Fixing Screw
- Name Label
- Power Switch

Soldering Iron

- Rubber Grip Cover
- Black Collar
- Collar
- Heater Barrel
- Tip

Soldering Iron Stand

ST-27

- Brass Wool
- Heat-Resistant Sponge
4. OPERATION

WARNING
To prevent fire, do not use the soldering station near flammable substances. Failure to obey this warning could result in serious injury or death to yourself or to others.

1. Always place the machine and the soldering iron stand on a stable worktable in a well-ventilated area.
2. Connect the soldering iron to the control box. Confirm the orientation of the plug.
3. Put the soldering iron into the soldering stand firmly.
4. Check that the power switch on the control box is OFF (O side), and then plug in the control box.
5. Loosen the fixing-screw at the bottom left of the protective cover by Phillips-head screwdriver. Open the protective cover for temperature setting.

A. RX-701AS only

1. Set the desired temperature using the Temperature Setting Knob.
2. Switch the power switch ON (to I side). The Heat Monitor Lamp will light up and the heater will start heating up. When the Heat Monitor Lamp flashes, the soldering station is ready to use.

B. RX-711AS only

1. Switch the Temperature Display Changeover Switch (at the left of the front panel) to SET. Display shows setting temperature.
2. Switch the power switch ON (to I side). The Heat Monitor Lamp will light up and the heater will start heating up. The temperature display initially shows “999” for approx. 10 seconds, then shows setting temperature.
3. Set the desired temperature using the Temperature Setting Knob.

It may take time to completely stabilize the temperature. When accurate temperature control is required, we recommend waiting 2 minutes after device is switched on.

NOTE

WARNING
To prevent fire, do not use the soldering station near flammable substances. Failure to obey this warning could result in serious injury or death to yourself or to others.
4. Switch the Temperature Display Changeover Switch (at the left of the front panel) to MEAS. Display shows the actual tip temperature. When the Heat Monitor Lamp flashes, the soldering station is ready to use. However if the unit is switched ON again with 1 hour of being switched OFF, and the displayed number is close to “000”, then it is showing the actual tip temperature.

CAUTION
Never set the temperature over 500°C. Your soldering station could be damaged.

Approx. 2°C difference between the SET and MEAS display may occur. In this case, there is no need to adjust the tip temperature (by knob) on MEAS display. The factory default tip temperature is set on SET display.

NOTE When the temperature display is set to MEAS, there is a temperature fluctuation from 2°C to 3°C.

MEAS display has a 10-second delay. If the temperature changes for less than 10 seconds, the display will not change. Ex.) If the tip is rested on a wet sponge, temperature display will continue to show set temperature (eg. 480°C) for approx. 10 seconds. Then it will start dropping. During those 10 seconds, the temperature-control circuit is working to recover the set temperature.

NOTE It may take time to completely stabilize the temperature. When accurate temperature control is required, we recommend waiting 2 minutes after device is switched on.

5. After setting the temperature, close the protective cover and tighten the fixing-screw at bottom left with a Phillips-head screwdriver.

6. Remove the solder scrap on the iron tip regularly with the wet sponge of the soldering iron stand.

WARNING
Turn off and unplug the soldering station if there is a burning smell, overheating, or if the plastic parts deform. Do not use it again and contact your nearest distributor. Continued use could result in serious personal injury or damage.
5. MAINTENANCE

WARNING
Never touch the heater barrel, collar, or adapter, to prevent personal injury or burning yourself.

CAUTION
Do not hit or drop the tip or the heater, to avoid deformation or breakage. The tip life may be decreased when using lead-free solder.

5-1 REPLACEMENT OF TIP
1. Remove the collar by turning it in a counter-clockwise direction.
2. Pull out the heater barrel, then pull out the tip from the heater.
3. Reassemble with new tip, reversing these steps.

NOTE
To prevent seizing, regularly pull out the tip from the heater and remove the oxidized dross inside.

5-2 REPLACEMENT OF HEATER
1. Remove the Collar by turning it in a counter-clockwise direction.
2. Pull out the Heater Barrel, then pull out the tip & Spacer from the heater.
3. Remove the Black Collar by turning it in a counter-clockwise direction.

WARNING
Turn off the main power switch (to O side), and unplug the power cord before maintenance. And be sure that the tip is cooled down. Failure to obey this warning could result in electric shock or serious injury.

CAUTION
Use only genuine goot replacement parts for maintenance. The use of any other parts may be hazardous and cause damage to the unit.

WARNING
Never touch the heater barrel, collar, or adapter, to prevent personal injury or burning yourself.
5-3 TEMPERATURE CALIBRATION
(Tip thermometer required)

A. RX-701AS only
1. Set the desired temperature using the Temperature Setting Knob.
2. While measuring the tip temperature with a tip thermometer, adjust the CAL (Calibration Screw) with Flat-head screwdriver to bring the measured temperature to the desired temperature scale. The tip temperature increases when the CAL is turned clockwise, and it decreases when the CAL is turned counter-clockwise.

B. RX-711AS only
1. Switch the Temperature Display Changeover Switch (at the left of the front panel) to SET.
2. Set the desired temperature using the Temperature Setting Knob.
3. While measuring the tip temperature with a tip thermometer, adjust the CAL (Calibration Screw) with Flat-head screwdriver to bring the measured temperature to the desired temperature scale. The tip temperature increases when the CAL is turned clockwise, and it decreases when the CAL is turned counter-clockwise.
The factory default tip temperature is 350°C. The thermal difference between the actual measured tip temperature and the displayed temperature is in the range of +/-10°C at 200°C, and 450°C(RX-701AS only) or 480°C(RX-711AS only). Tip thermometer readings may vary slightly.

To prevent any damage to soldering station or other objects, make sure to calibrate the tip temperature after replacement of the tip or heater. If you do not have a tip thermometer, or you are unable to calibrate, please contact your nearest distributor.

5-4 PLASTIC COMPONENT CARE

Do not allow gasoline, petroleum-based, permeable oil to contact any plastic parts. It may damage the machine or the components. Use a clean cloth to wipe the machine.

6. IN THE EVENT OF FAILURE

Proceed with the following steps if you have any problems.

1. Check that the power cord is not damaged. If you notice any signs of damage, please contact your distributor.

2. If the cord is fine, use the below troubleshooting guide.

3. Turn off and unplug the soldering station if there is a burning smell, overheating, or if the plastic parts deform. Please contact your distributor.

4. If the machine is dropped, be sure to check the above troubleshooting guide. If you notice any signs of damage, do not use it, and please contact your distributor.

<table>
<thead>
<tr>
<th>PROBLEM</th>
<th>REASON</th>
<th>ACTION</th>
</tr>
</thead>
<tbody>
<tr>
<td>Power does not turn ON.</td>
<td>Power cord unplugged?</td>
<td>Connect it properly.</td>
</tr>
<tr>
<td></td>
<td>Power switch is OFF (O side).</td>
<td>Turn switch ON (to I).</td>
</tr>
<tr>
<td></td>
<td>Power cord damaged?</td>
<td>Contact distributor.</td>
</tr>
<tr>
<td></td>
<td>Fuse blown out?</td>
<td>Contact distributor.</td>
</tr>
<tr>
<td>Heater does not heat up.</td>
<td>Connector loose or disconnected?</td>
<td>Connect it properly.</td>
</tr>
<tr>
<td></td>
<td>Heater damaged?</td>
<td>Replace the heater (See 6-2).</td>
</tr>
<tr>
<td></td>
<td>Soldering-iron cord damaged?</td>
<td>Replace the soldering iron.</td>
</tr>
<tr>
<td>Other problems</td>
<td>PCB may be broken, contact to distributor.</td>
<td></td>
</tr>
</tbody>
</table>

7. SPECIFICATIONS

<table>
<thead>
<tr>
<th>MODEL</th>
<th>RX-701AS</th>
<th>RX-711AS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage</td>
<td>110V, 120V, 130V, 220V, 230V, 240V AC 50/60Hz</td>
<td>110V, 120V, 130V, 220V, 230V, 240V AC 50/60Hz</td>
</tr>
<tr>
<td>Power Consumption</td>
<td>65W</td>
<td>65W</td>
</tr>
<tr>
<td>Output Voltage</td>
<td>24V</td>
<td>24V</td>
</tr>
<tr>
<td>Temperature Setting Range</td>
<td>200-450°C (392-842°F)</td>
<td>200-480°C (392-896°F)</td>
</tr>
<tr>
<td>Insulation Resistance</td>
<td>Over 100MΩ</td>
<td>Over 100MΩ</td>
</tr>
<tr>
<td>Dimensions</td>
<td>Control Box 146(L) × 115(W) × 98(H)mm</td>
<td>Control Box 146(L) × 115(W) × 98(H)mm</td>
</tr>
<tr>
<td></td>
<td>Soldering Iron 197mm (w/o cord)</td>
<td>Soldering Iron 197mm (w/o cord)</td>
</tr>
<tr>
<td>Weight</td>
<td>Control Box 1.5kg (w/o cord)</td>
<td>Control Box 1.5kg (w/o cord)</td>
</tr>
<tr>
<td></td>
<td>Soldering Iron 44g (w/o cord)</td>
<td>Soldering Iron 44g (w/o cord)</td>
</tr>
<tr>
<td>Connecting Cord Length</td>
<td>1.2m</td>
<td>1.2m</td>
</tr>
<tr>
<td>Power Cord Length</td>
<td>3-prong cord 1.5m</td>
<td>3-prong cord 1.5m</td>
</tr>
<tr>
<td>Leak Voltage</td>
<td>Less than 2mV</td>
<td>Less than 2mV</td>
</tr>
<tr>
<td>Ground/Earth Resistance</td>
<td>Less than 2Ω</td>
<td>Less than 2Ω</td>
</tr>
</tbody>
</table>
8. REPLACEMENT TIP

PX-60RT-SB
PX-60RT-B
PX-60RT-LB
PX-60RT-1C
PX-60RT-1.5C
PX-60RT-2C
PX-60RT-3C
PX-60RT-4C
PX-60RT-0.5CR
PX-60RT-0.8CR
PX-60RT-2CR
PX-60RT-3CR
PX-60RT-4CR
PX-60RT-0.8D
PX-60RT-1.2D
PX-60RT-1.2LD
PX-60RT-1.6D
PX-60RT-2.4D
PX-60RT-3.2D
PX-60RT-1.8H
PX-60RT-H
PX-60RT-3K
PX-60RT-5K
PX-60RT-R
PX-60RT-RT
PX-60RT-S4
PX-60RT-SB2
PX-60RT-SI
### 9. PARTS LIST

<table>
<thead>
<tr>
<th>NO.</th>
<th>Parts Name</th>
<th>Code</th>
<th>Note</th>
</tr>
</thead>
<tbody>
<tr>
<td>①</td>
<td>Soldering Iron Unit</td>
<td>A0883AF00</td>
<td>RX-72GAS</td>
</tr>
<tr>
<td>②</td>
<td>Heater</td>
<td>B0882AH00</td>
<td>RX-72H</td>
</tr>
<tr>
<td>③</td>
<td>Black Collar</td>
<td>A0880HW00</td>
<td>RX-72GASAD</td>
</tr>
<tr>
<td>④</td>
<td>Spacer</td>
<td>A0880HS00</td>
<td>RX-72SS</td>
</tr>
<tr>
<td>⑤</td>
<td>Tip</td>
<td>B0672AB00</td>
<td>PX-60RT-B</td>
</tr>
<tr>
<td>⑥</td>
<td>Heater Barrel</td>
<td>A0880HP00</td>
<td>RX-72HP</td>
</tr>
<tr>
<td>⑦</td>
<td>Collar</td>
<td>B1362AJ00</td>
<td>TQ-77NUT</td>
</tr>
</tbody>
</table>
WARNING
• High temperatures. Handle with care.
• To avoid injury, do not touch the metal part of the stand.
• To prevent fire, do not use the ST-27 near flammable substances.

CAUTION
• Always place the stand on a stable worktable, or other stable location, to prevent injury or accident from dropping it.
• To avoid splattering solder scrap, do not swipe the tip of the iron across the brass wool. This is dangerous.
• To prevent fire or personal injury, be sure that the stand has cooled sufficiently before storing it.
INSTRUCTION FOR USE
Rub the soldering-iron tip on the moistened sponge. Use the hole of the sponge for better cleaning. Alternatively, push the soldering-iron tip in and out of the brass wool a few times. Stab, not swipe.

NOTE
• To avoid rust, do not pour water on the brass wool. • Sponge tray and holding flange (of the front opening) are made of phenol. Be aware that extended tip-contact may result in their deterioration. • Remove the collected solder scrap regularly.

NAMES OF PARTS / REPLACEMENT PARTS

The angle of the front opening can be adjusted by loosening screws on the side.

REPLACEMENT PARTS

- Heat-Resistant Sponge / ST-53SP
- Front Opening (with adjusting screws) / ST-27MS
- Brass Wool (2balls) / ST-40BW

DIMENSIONS

<table>
<thead>
<tr>
<th>Size</th>
<th>72(W) × 106(H) × 178(D)mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Weight</td>
<td>485g</td>
</tr>
</tbody>
</table>