

SUPER HIGH-POWER 500W TEMPERATURE-CONTROLLED SOLDERING STATION **RX-892AS**

OPERATION MANUAL



Tip is not included.
Please buy it separately.

Special stand included.
How to use this product is explained in
this manual.



WARNING

Before using the soldering station, read the Operation Manual. Failure to follow the safety precautions and instructions in this manual could result in serious injury and property damage.

Thank you for buying a **goot** soldering station. Your new soldering station has been engineered and manufactured to the **goot** high standards for dependability, ease of operation, and operator safety. If you follow the instructions and safety precautions in this manual and use the soldering station properly and only for what it is intended, you will enjoy years of safe, reliable service. Thank you again for buying a **goot** soldering station.

Safety Mark Definitions

Following the WARNINGS and CAUTIONS in this manual will allow for the safe and proper use of the soldering station, and should protect the operator from injury and operators' property against damage.



WARNING

Failure to obey a safety warning could result in serious injury or death to yourself or to others. Always follow the safety precautions to reduce the risk of electric shock, fire or personal injury.



CAUTION

Failure to obey a safety caution may result in a minor or moderate injury to yourself or to others. Always follow the safety precautions to reduce the risk of electric shock, fire or personal injury.

1 Table of Contents

1. Table of Contents / Specifications.....	3
2. Introduction	4
2.1 Features of the RX-892AS	4
2.2 Unpacking	5
2.3 Name of Parts	6
3. Rules for Safe Operation	8
4. Operating Instructions	10
4.1 Changing the Set Temperature.....	10
4.2 Calibration of the Tip temperature	11
4.3 Calibration Function.....	12
4.4 Sleep Function	13
4.5 Setting the Shutdown Function.....	16
4.6 Setting the Soldering-time Alarm.....	17
4.7 Setting the Temperature Range for the Alarm	18
4.8 Control function for overshooting	19
4.9 Setting the Alarm Sound.....	20
4.10 Setting the Temperature Display	21
4.11 Key Lock Function	22
4.12 How to Restore the Default Setting.....	24
5. Maintenance	25
5.1 How to Change the Tip	26
5.2 How to change the Fuse	27
5.3 How to change the Filter.....	27
5.4 Housing Cleaning	28
5.5 How to Use and Maintain a Lead-Free Soldering Iron.....	28
6. Troubleshooting	29
7. Replacement Tips	30
8. Replacement Parts	30
9. Parameters	31
10. Soldering Iron Stand ST-29 Instructions.....	32

Specifications

MODEL		RX-892AS
Voltage		100–240 V AC 50/ 60 Hz
Power Consumption		630–560 W
Soldering Iron Voltage / Wattage		40 V DC / 500 W
Temperature Setting Range		50–500°C
Dimensions	Soldering Unit	232 mm (with RX-89HRT-15D)
	Control Unit	136 (W) × 240 (H) × 184 (D) mm
Weight	Soldering Unit	120 g (with RX-89HRT-15D)
	Control Unit	Approx. 4.4 kg (w/o cord)
Control Unit to Soldering Unit Cord Length		1.8 m
AC Power Cord Length		1.5 m inlet type
Ground Resistance		Less than 2Ω
Accessories		Soldering Iron Stand ST-29

*The length does not include the cord bushing. The weight does not include the cord.

2-1 Features of the RX-892AS

This machine is a heater-integrated lead-free soldering iron with realized heater output 500W and temperature-controlled function. First in the world. Power comparable to large sheet metal work, but from a small, lightweight iron unit.

1. Exceptional heat recovery. (PAT.)

World-first tremendous heat recovery features due to high-density 500W heater and its own high-sensitivity sensor.

This next-generation high-wattage soldering iron can be adapted to more purposes from a conventional soldering iron.

2. Grip is Light and Nimble

90% lighter than standard 500W sheet metal irons. Will save your hands from repetitive strain. The iron unit is designed to resist getting too hot, greatly reducing the workload. Can also be used to solder a power supply substrate in addition to soldering of sheet metal

3. Thick iron plating for lead-free soldering

All tips have a thick iron plating to slow erosion caused by lead-free soldering.

4. Key Lock function (PAT.)

Tamper-proof keypad lock using a password, no tools or cards are needed.

5. Sleep function (PAT.)

The control unit automatically lowers the temperature when inactive for a preset period of time. This can also be done manually by pressing and holding the ▼ key for 1 second. The sleep function can be used in conjunction with the shutdown function.

6. Sleep function release (PAT.)

Sleep mode can be exited by touching touching the wet sponge with the tip to cause temperature fluctuation.

Effective when sleep setting temperature is greater than or equal to 100°C

7. Alarm function (PAT.)

Prevents overheating of work.

When the soldering iron is left in contact with the component being soldered past the time set, this alarm sounds.

This function prevents inexperienced operators from overheating the component, helping quality control.

8. Calibration function (PAT.)

The calibration function digitally offsets the difference between the tip temperature and the tip thermometer temperature.

9. Shutdown function

When the unit is not used for a preset time, the unit enters shutdown mode automatically, to prevent any unexpected accident. Shutdown is released when turning the power OFF and then ON again. Both the sleep function and the shutdown function can be used together.

10. Multi-Voltage Inlet

Accepts a commercial power supply of 100V-240V. Inlet-type power cord is replaceable. Can be used internationally.

2-2 Unpacking

Please make sure that all the items listed below are included, and that the soldering station (control unit and soldering unit) function properly. If any items are missing or damaged, please contact your **goot** distributor. Please store the packaging for future shipment or repair.



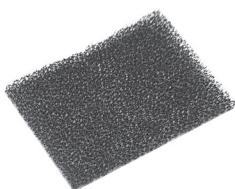
Control Unit



Soldering Unit
RX-89GAS



Screwdriver for
Replacing the Tip \oplus



Replacement Filter (Rear)



Operation Manual



Power Cord

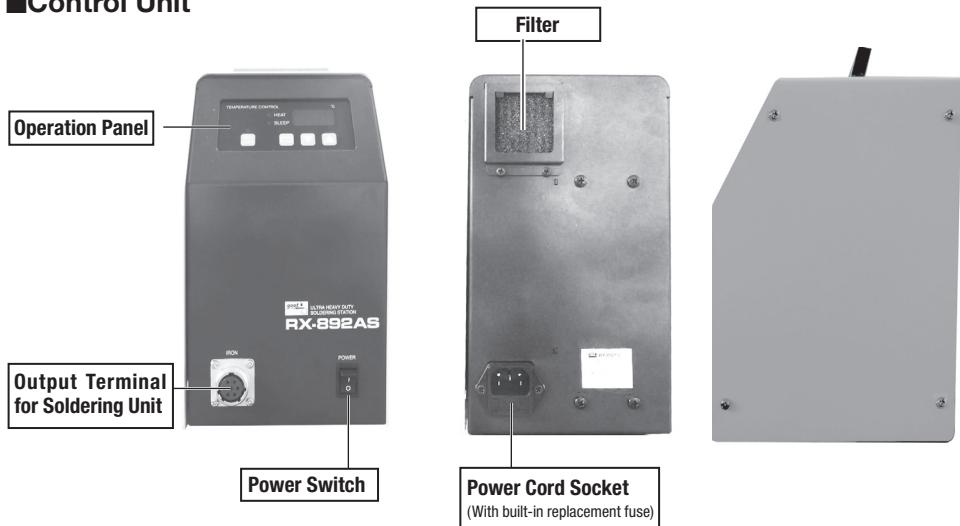


Soldering Iron
Stand ST-29

For how to use, please
see **p.32**

2-3 Name of Parts

■Control Unit



■Soldering Unit

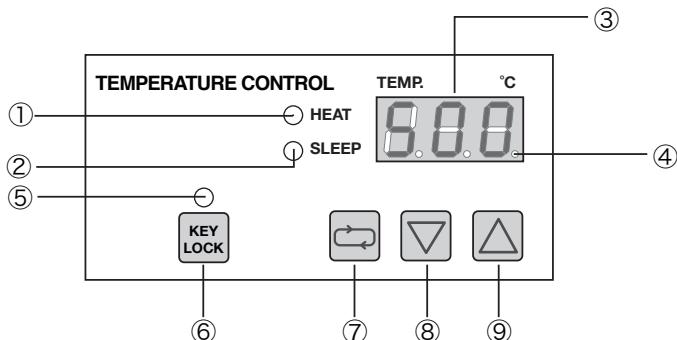
CAUTION

Please carry out [4-2] Calibration of the Tip Temperature after fixing the tip. If you do not perform this operation, a measurement error occurs between the tip temperature and the set temperature.

For how to attach the tip,
please see 5. Maintenance p.26



■Operation Panel



1. HEAT lamp

Lights up when the heater is ON.

2. SLEEP lamp

Flashes while setting the SLEEP function.

Lights up when the unit enters the SLEEP mode.

3. TEMP display

When the power is turned ON or when SLEEP mode is exited, the TEMP display shows the tip temperature rise to the set temperature.

The TEMP display shows the set temperature.

4. Alarm Lamp (to the right of the last digit in the temperature display)

Lights up when the tip temperature is within the DIF range.

Turns off when the tip temperature is out of the DIF range.

Flashes when the tip temperature is out of the upper and lower temperature limits.

5. KEY LOCK lamp

Flashes while setting the Key Lock function.

Lights up when the Key Lock mode is set.

6. KEY LOCK key

Used to set the Key Lock function.

Used to lock and unlock the keypad.

7. SETTING key

This key is pressed when starting and completing the temperature setting process. It is also used during the parameter changing procedure to move to the next parameter and to complete the parameter setting process by pressing continuously for 3 seconds.

8. DOWN key

This key is used to reduce the temperature and change the parameter.

9. UP key

This key is used to increase the temperature and change the parameter.

3 Rules for Safe Operation



WARNING

The **RX-892AS** is an anti-static model. Be sure to properly ground the soldering station using a grounded receptacle to prevent electric shocks and anti-static. If it is not properly grounded, electric shocks will occur. As the soldering station uses conductive materials, please be careful not to touch any electrical power source or a serious injury will result.

1. DO NOT USE IN DANGEROUS ENVIRONMENTS.

Do not use the soldering station in damp or wet locations or expose it to external environmental conditions, particularly rain. Never use it in an explosive atmosphere. The heat from the heater can ignite fumes. Be sure that the work area is well ventilated.

2. KEEP CHILDREN AND BYSTANDERS AWAY FROM THE SOLDERING STATION.

Do not let bystanders touch the soldering station. All bystanders should be kept a safe distance from the work area.

3. USE FOR THE RIGHT JOB.

Your soldering station is an electrical tool used to solder parts and melt solder. Do not use the soldering station for any other purpose. For example: The soldering station should never be used to warm water or other liquids.

4. WEAR PROPER APPAREL, SAFETY GLASSES, GLOVES AND MASK.

The object to be soldered and melted solder get very hot. Please be sure to wear proper apparel, safety glass and gloves to prevent injury and property damage. Do not wear unsuitable apparel for operation.

5. CONNECT TO THE SPECIFIED AC POWER SUPPLY.

Connect to AC 100-240V 50/60Hz power supply. Never plug the soldering station into any other voltage.

6. DO NOT BEND THE POWER/IRON UNIT CORDS

Requires periodic inspections. Check that there is no damage. Do not carry the unit by the power/iron unit cords. Hold by the plug when disconnecting the power cord from a wall outlet. When unplugging, pull on the plug. Do not pull on the cord. Keep the power/iron unit cords away from heat, oil, and sharp edges.

7. STOP USING THE PRODUCT IF ANYTHING ABNORMAL OCCURS.

Turn off the power and stop using the product, if the control/iron unit has a strange odor or the iron unit cord becomes inordinately hot.

8. USE STAND PROVIDED.

Be sure to use the soldering iron stand (**ST-29**) included with the soldering station. If this stand is not used, the plastic parts (adapter ring and/or soldering unit housing) of the soldering iron unit could be damaged. Position the soldering iron stand on a flat work-surface bench.

9. CONCERNING THE TIP.

Allow the tip to cool naturally. Never use any other method to cool it down. For example: Water should never be poured or sprinkled on the tip to cool it down.

10. PERFORM MAINTENANCE WHEN TIP IS COOLED DOWN.

The tip and peripheral area around the metal part get very hot. Perform maintenance only when tip is cooled down, when replacing tip, etc.

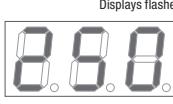
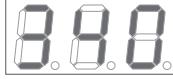
4 Operating Instructions

4-1 Changing the Set Temperature

When the station is shipped the temperature is set at 250°C (482°F). The temperature can be set from 50°C (122°F) to 450°C (842°F).

*For the steps given in the operation instructions, only °C is used.

Example: Changing the temperature from 250°C (482°F) to 340°C (644°F).

Key Operation		TEMP Display
1	Press the  key.	
2	Press and hold the  key until the display shows 340.	
3	Press the  key. Setting completed	

NOTE) If nothing is pressed for 30 seconds the temperature automatically returns to the temperature setting before it was changed. The tip temperature will remain unchanged.

*The set temperature should be set at 50°C (90°F) higher than the sleep temperature (see the section 4-4), otherwise you will not be able to set the set temperature value. (Example: If the set temperature is set at 200°C (392°F), the sleep temperature must be 150°C (302°F) or lower.

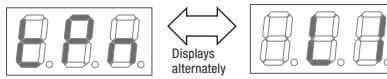
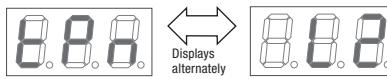
→Refer to the Parameters table (on **page 31**) for the explanation of the display messages.

4-2 Calibration of the Tip Temperature

The temperature can be calibrated easily by inputting the tip number, which is engraved on the tip. When changing to a different type of tip, the calibration of the tip temperature is required before starting soldering work.

How to set the TIP No.

Example: When changing the tip used from tip number L1, to tip number L2.

Key Operation	TEMP Display
1 Press and hold the  key for over 3 seconds continuously.	 <small>Displays alternately</small>
2 Press the  key so that the tip [L2] is displayed.	 <small>Displays alternately</small>
3 Press and hold the  key for over 3 seconds continuously. Setting completed	Returns to the set temperature display.

Tip No. List

Tip No. List (RX-89HRT Series)

MODEL	TIP NO.
RX-89HRT-10D	L1
RX-89HRT-15D	L1
RX-89HRT-15A	L1

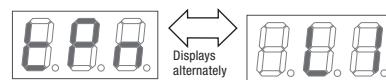
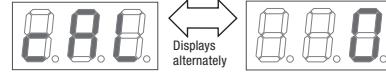
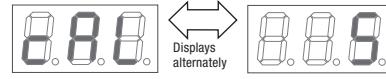
The above tip number (TIP No.) may be changed without notice, due to design changes, etc.
Be sure to check the actual engraved tip number of your tip (at the base).

4-3 Calibration Function

The **RX-892AS** can be calibrated using a tip thermometer. Generally speaking, when measuring the tip temperature of the **RX-892AS** with a standard tip thermometer, the measured temperature will usually be lower than that of the actual tip temperature displayed on the **RX-892AS** control unit display. This could be because the tip is not coming into contact properly with the sensor of the tip thermometer. It could also be because once the tip thermometer comes into contact with the **RX-892AS** soldering tip, the metallic parts in the thermometer conduct heat which transfers away from the **RX-892AS** tip. This results in the thermometer indicating a slightly lower temperature than the one in the **RX-892AS** display.

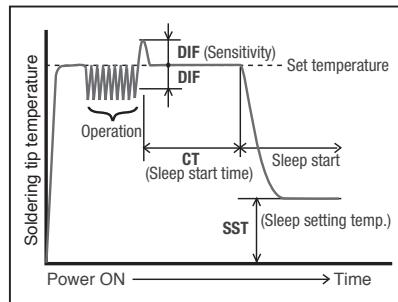
How to Calibrate the Temperature

(Example : Where the set temperature is 300°C (572°F), tip thermometer value is 295°C (563°F), and the calibration value to be input is 5°C (9°F).)

Key Operation	TEMP Display
1 Press and hold the  key for over 3 seconds continuously.	
2 Press the  key once.	
3 Press the  key so that (°C) is displayed.	
4 Press and hold the  key for over 3 seconds continuously.	Returns to the set temperature display.
Setting completed	

4-4 Sleep Function

The sleep start timer (CT) function automatically lowers the temperature of the tip after a preset period of inactivity. This function is exited by pressing any key on the control panel. This function reduces power consumption and helps extend soldering tip life. The sleep function can be used with the shut down function.



The sleep function is exited when the tip is brought into contact with the tip cleaner or wet sponge. However, this method cannot be used if the sleep temperature (SST) is set below 100 °C because there will be very little temperature fluctuation. Sleep mode can be exited by pressing any key on the control panel.

Setting the Sleep Temperature (SST) Unit: °C

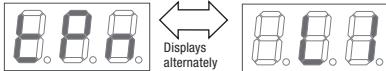
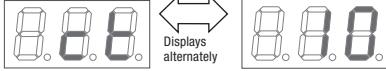
Set to 200°C (392°F) before shipping.

Example : Changing the sleep temperature from 200°C (392°F) to 150°C (302°F).

Key Operation	TEMP Display
1 Press and hold the key for over 3 seconds continuously.	Displays alternately
2 Press the key twice.	Displays alternately
3 Press the key, until the display changes to 150.	Displays alternately
4 Press and hold the key for over 3 seconds continuously. Setting completed	Returns to the set temperature display.

While setting the sleep function, the sleep lamp will flash. The flashing of the sleep lamp will become faster 30 seconds before entering Sleep mode. When the soldering station has entered Sleep mode, the sleep lamp will change from flashing to continuously lit, and the display will alternate between "SLP" and the temperature. To use sleep function manually during operation, press and hold the key for 1 second continuously. Whenever the power switch is turned ON, the soldering station will automatically enter the Sleep mode either in 10 minutes or in twice the set sleep time (CT), whichever time is longer, if no soldering is done. However, if soldering is started or any key is pressed on the control panel, the soldering station will automatically revert to the set sleep start time.

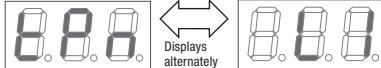
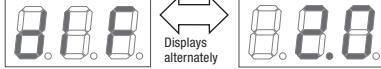
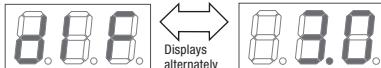
Setting the Sleep start time (CT) Set to 5 minutes before shipping.
 Unit: mins. Example : Changing the sleep start time from 5 to 10 minutes.

Key Operation	TEMP Display
1 Press and hold the  key for over 3 seconds continuously.	
2 Press the  key three times.	
3 Press the  key, until the display changes from 5 to 10.	
4 Press and hold the  key for over 3 seconds continuously.	Returns to the set temperature display.
Setting completed	

By setting the CT (Sleep start time) to 0.00, the sleep function will be turned off and the SLEEP lamp turn off.

Setting the Sleep
Sensitivity (DIF) Unit : °C

Example : Changing the sleep sensitivity value from 2.0 to 3.0 °C.

Key Operation	TEMP Display
1 Press and hold the  key for over 3 seconds continuously.	
2 Press the  key four times.	
3 Press the  and change the display from 2.0 to 3.0.	
4 Press and hold the  key for over 3 seconds continuously.	Returns to the set temperature display.
Setting completed	

NOTE)

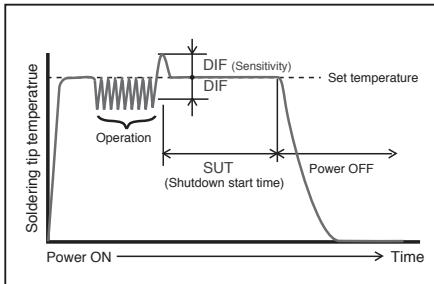
*If the sleep sensitivity value (DIF) is set too high, there is a possibility that the sleep function will be activated even during soldering. If this happens, reduce the sleep sensitivity value.

*Sleep sensitivity value (DIF) can be set anywhere between 0°C (0°F) and 20°C (36°F).

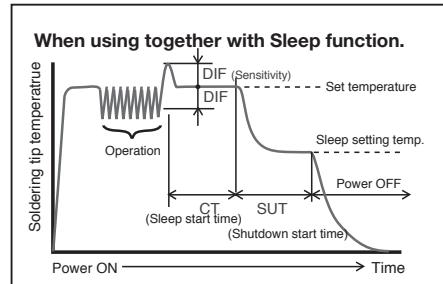
*If the sleep sensitivity value (DIF) is set too low, there is a possibility that the sleep function will not be activated even passed sleep start time. If this happens, increase the sleep sensitive value

4-5 Setting the Shutdown Function

When the unit is not operated during the preset time, the unit is automatically shutdown. Even if the user forgets to turn OFF the unit, this Shutdown function works to keep the unit inactive and prevents accidents.



Setting the Shutdown start time (SUT)



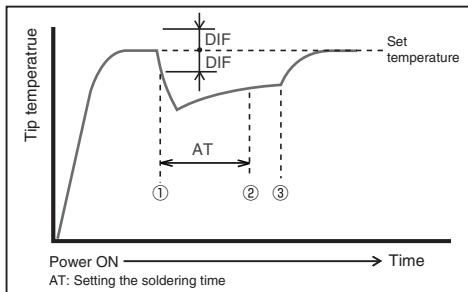
Example : Changing the Shutdown start time from 60 to 30. Unit : mins

Key Operation	TEMP Display
1 Press and hold the key for over 3 seconds continuously.	
2 Press the key five times.	
3 Press the key, until the display changes to 30.	
4 Press and hold the key for over 3 seconds continuously.	Returns to the set temperature display.
Setting completed	

When the SUT (Shutdown Start Time) value is set to 0, the shutdown function is OFF. When the unit enters shutdown, the Sdn and the temperature are displayed alternately. After the temperature drops below 50°C only the LED to the right of the last digit on the TEMP display remains lit. To use the unit again after shutting down, turn the power switch OFF, wait a few seconds, and then ON again to operate the unit.

4-6 Setting the Soldering-time Alarm

The RX-892AS sounds an alarm, when the soldering iron is left in contact with the component being soldered past the time set. This function prevents inexperienced operators from overheating the component.



(1) RX-892AS starts the soldering-time count down, when the tip temperature exceeds the set parameter.

(2) The alarm sounds after the soldering-time preset is reached. The display will also flash twice at this point.

(3) Lift the tip from the component being soldered when the alarm sounds.

To turn off the alarm function, set the preset time value at 0.3 or less, and then [---] is displayed.

Setting the soldering start time

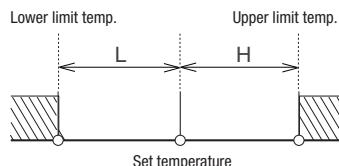
Example : Changing the soldering time from 0 to 1.5. Unit : seconds

Key Operation	TEMP Display
1 Press and hold the key for over 3 seconds continuously.	 Displays alternately
2 Press the key 6 times to display "At".	 Displays alternately
3 Press the key, until the display changes from --- to 1.5.	 Displays alternately
4 Press and hold the key for over 3 seconds continuously.	Returns to the set temperature display.
Setting completed	

4-7 Setting the Temperature Range for the Alarm

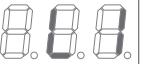
This function indicates to the operator with the sound of the alarm, when the tip temperature goes past the set parameter. The illustration on the right shows when the alarm will sound: The diagonal lines represent outside the temperature parameters.

The alarm can be set from 3 to 100°C, for the upper limit and the lower limit respectively. To turn off this function, set the preset value at 3 °C or lower, for the upper limit and the lower limit respectively. The display will then show [---].



Setting the alarm range

The upper limit and the lower limit are set to 50°C respectively, before shipping

Key Operation	TEMP Display
1 Press and hold the  key for over 3 seconds continuously.	    <small>Displays alternately</small>
2 Display "H" or "L", by pressing the  key.	    <small>Displays alternately</small> Upper Temperature Limit
3 Change the preset temperature by pressing the   key.	    <small>Displays alternately</small> Upper Temperature Limit     <small>Displays alternately</small> Lower Temperature Limit
4 Press and hold the  key for over 3 seconds continuously. Setting completed	Returns to the set temperature display.

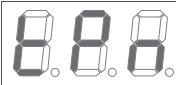
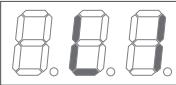
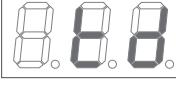
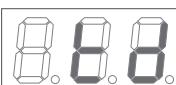
4-8 Control function for overshooting

After soldering, the tip temperature may increase to higher than the set temperature depending on the tip type or the kind of work. (Overshoot)

“Overshoot” can be controlled by setting the parameters.

Setting the differential time (td)

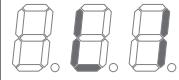
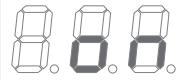
Example : Changing the differential time from 20 to 30.

Key Operation	TEMP Display
1 Press and hold the  key for over 3 seconds continuously.	   Displays alternately
2  Press the [SET.] key to select [td].	   Displays alternately
3  Press the [UP] key to set to 30.	   Displays alternately
4  Press down the [SET.] key for over 3 seconds. Setting completed	Returns to the set temperature display.

4-9 Setting the Alarm Sound

This setting switches the alarm ON and OFF. The initial setting is ON (the alarm sounds). Set to OFF for mute (no sound).

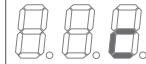
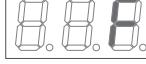
Setting the alarm sound

Key Operation	TEMP Display
1 Press and hold the  key for over 3 seconds continuously.	   Displays alternately
2 Press the  key ten times.	   Displays alternately
3 Press the  key to set to ON . Press the  key to set to OFF .	   Displays alternately    Displays alternately
4 Press and hold the  key for over 3 seconds continuously. Setting completed	Returns to the set temperature display.

4-10 Setting the Temperature Display

The temperature can be displayed in either Celsius or in Fahrenheit.

The temperature display is set to Celsius (°C) before shipping.

Key Operation	TEMP Display
1 Press and hold the  key for over 3 seconds continuously.	 
2 Press the  key eleven times.	 
3 Press the  key to change the format to F . (Fahrenheit °F) Press the  key to change the format to C . (Celsius °C)	   
4 Press and hold the  key for over 3 seconds continuously. Setting completed	Returns to the set temperature display.

4-11 Key Lock Function

The Key Lock function locks the temperature and parameter settings so that the temperature and parameters cannot be changed by any unauthorized personnel. Authorized personnel may use a code number to set, or release the Key Lock function.

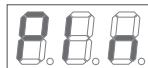
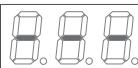
The code number is not set before shipping.

- The code number can be set using any three-digit number from 001 to 999.
- When the code number is set correctly, the number will flash 5 times.
- If an incorrect code number is input, the display will show 'NG', and return to the initial display.

The Key Lock is set and released by the same procedure.

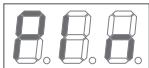
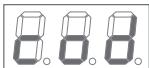
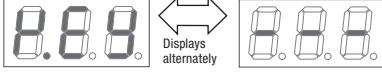
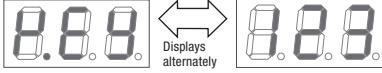
Setting and Releasing the Key Lock

Example : The code number is 123

Key Operation	TEMP Display
1 Press the  key.	  Displays alternately 
2 Input the desired code number using the   keys	
3 Press the  key. Setting completed	Returns to the set temperature display.

Changing the Code Number

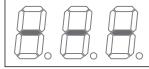
Example : When changing the code number from 123 to 234.

Key Operation	TEMP Display
<p>1</p> <p>Press the  key.</p>	 
<p>2</p> <p>Press and hold the  key for over 3 seconds continuously.</p>	 
<p>3</p> <p>Press the   keys so that the present code number is displayed</p>	
<p>4</p> <p>Press the  key.</p>	
<p>5</p> <p>Input the desired new code number using the   keys.</p>	
<p>6</p> <p>Press the  key.</p> <p>Setting completed</p>	<p>Returns to the set temperature display.</p>

Resetting the Code Number

If you forget the code number, follow the procedure below to delete the code number and reset the key lock.

This procedure releases the key lock function which means that unauthorized persons can change temperature and/or parameter settings. Please keep this manual with authorized personnel only and in a safe place for future reference.

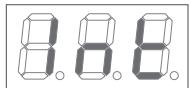
Key Operation	TEMP Display
<p>1 Press the  key.</p>	  Displays alternately 
<p>2 Press and hold the  and the  key simultaneously for over 3 seconds.</p>	 Displays alternately 
<p>3 Press the   keys so that the present code number is displayed</p>	
<p>4 Press the  key. Setting completed</p>	 Flashes 5 times.

4-12 How to Restore Default Settings

By doing the procedure shown below, all the parameters will be restored to the default settings set before the unit was shipped.

The key-lock function is also unlocked using this procedure. This can allow a third party to alter the settings on the unit. Please keep this manual with authorized personnel only and in a safe place for future reference.

How to Restore Default Settings

Key Operation	TEMP Display
<p>1 Press these the following keys simultaneously for over 5 seconds, while the preset temperature display is shown.</p> 	<p>The preset temperature is displayed.</p>
<p>2 All settings are restored to the factory default.</p> <p>Setting completed</p>	 <p>Flashes 5 times ↓</p> <p>Returns to the set temperature display.</p>

Though the key lock can be released by doing the procedure shown above, the code number cannot be reset.

To reset the code number, follow the procedure for "Resetting the Code Number" shown on page 23.

When doing the "Resetting the Code Number" procedure, the alarm sounds until the tip temperature falls below 250°C. This is normal.

The initial temperature setting is 250°C.

In this case, the temperature range for the alarm is at 250°C plus/minus 50°C.

During the resetting, the tip temperature is often out of this range.

That is why the alarm sounds for a short time.

5 Maintenance



CAUTION

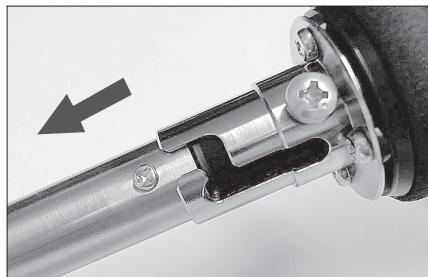
Before maintenance, be sure to turn off the switch and allow your tip to fully cool down. Be sure that the tip-fixing screw is securely tightened prior to use.

5-1 How to Change the Tip

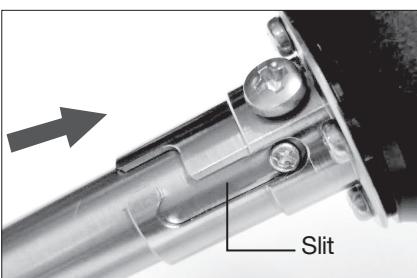
1. Allow tip to cool down sufficiently, then loosen the tip-fixing screw on the flange. You do not have to take off the screw.



2. Take off the old tip.



3. Insert a new tip aligned with the slit on the flange. Push the tip as far as it will go, and fix it securely with the tip-fixing screw.



4. Put the iron unit onto the soldering iron stand, and turn on the power.

NOTE

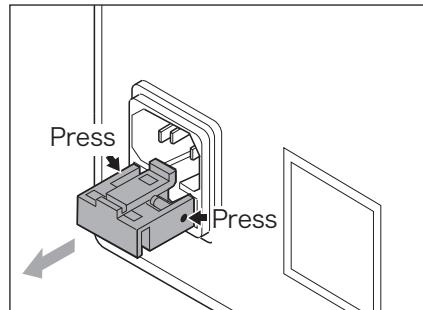
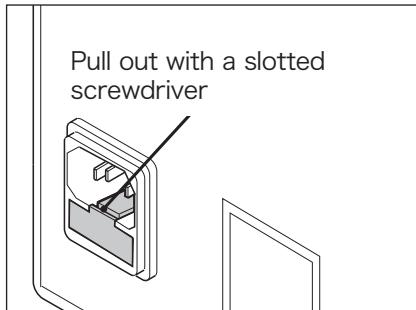
When changing to a different type of tip, be sure to input the Tip No. (Refer to page 11)

Since the heater is integrated into the tip, replacement of only the heater or the tip is not possible.

Do not try to insert the tip by force when the tip-fixing screw is tightened. This will cause damage.

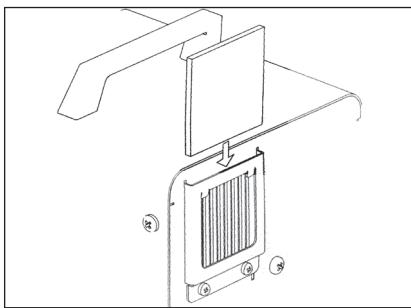
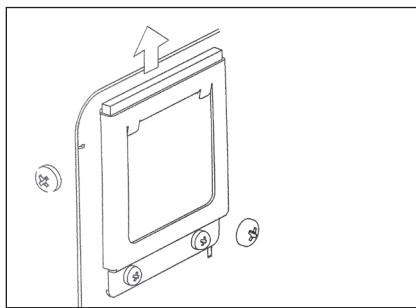
5-2 How to Change the Fuse

1. Place a slotted screwdriver in the slot to pull out the fuse box.
2. Press both sides of the fuse box to remove it. A spare fuse is stored on the other side of the fuse box. Therefore, turn the fuse box over or to the side to replace the fuse.



5-3 How to change the Filter

1. Pull out the old filter in the direction of the arrow.
2. Insert a new filter in the reverse order.



NOTE

Do not use the station without the filter.

5-4 Housing Cleaning

When cleaning, do not at any time allow gasoline, petroleum-based products, penetrating oils, etc. to come into contact with the plastic parts. They contain chemicals that can damage, weaken, or destroy plastics.

5-5 How to Use, Clean, and Maintain a Lead-Free Soldering Iron

A lead-free soldering iron is more susceptible to oxidation, and it is more difficult to wet the tip with solder. Flux within the solder adheres to the tip, carbonizes and blackens. This cannot be stopped. However, if the user follows the instructions for use and maintenance below, the user will be able to easily wet the tip with solder consistently.

How to use, clean, and maintain the soldering iron

Recommended temperature

The lead-free soldering iron should be set at a low temperature. This slows down carbonization. Lead-free soldering irons have excellent heat recovery. Reducing the temperature will not affect the work being carried out. However even at lower temperatures, flux still carbonizes.

Cleaning tips

During and after use, rub the tip over the sponge or in and out of the tip cleaner metal shavings while hot to remove the blackened oxidized particles from the tip.

Applying solder

Be careful to keep the solder only in contact with the solder-coated area of the tip.

Using the soldering iron stand

After purchase, the first time you plug in the soldering station, or when resting the iron in the stand during use, leave a coating of solder on the solder-coated area of the tip and place it into the soldering iron stand. Only a thin layer of solder is necessary. The tin surface of a lead-free soldering iron oxidizes easily. Coating it with solder reduces oxidation levels.

Oxidation starts as soon as the tool is plugged in and begins to heat. When operation is completed, tin the tip with solder before turning the power off. This protects the tip from oxidation when it starts heating up the next time it is in use.

Give your tip a longer life

**Point
1**

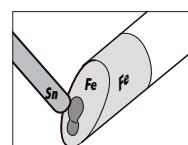
Use with lower temperature settings.

At higher temperatures, the Sn (tin) in the solder more quickly erodes the Fe (iron) plating of the tip. Do not raise the temperature more than needed. Erosion is quicker when temperature is higher.

**Point
2**

Use the entire tip face, not a smaller part of it.

Tip life is shorter if solder is applied only to a part of the tip face. Tip life is longer if solder is applied to the entire tip face.



What to do when the tip is blackened and not ‘wettable’

Using a clean sponge, repeat the process of ‘tinning’ and ‘cleaning’ the tip several times. The tip surface of an iron that has been in use a short time, generally has a higher ‘wettability’ recovery level.

If this does not remove the discoloration, use a fine grit sandpaper (eg., #600 grit) to remove any black solid particles and try to ‘tin’ it with solder once more.

Washing and replacement of the cleaning sponge

If the cleaning sponge appears black or brown, rinse out the stains in water. If rinsing does not remove the stains, replace the sponge.

6 Troubleshooting

Read the items below before sending for service or repair.

The power does not go ON.

- Check that the power cord is plugged in.
- Check that the fuse is not blown.

The soldering iron tip does not heat up.

- Check that the heater is not damaged.



NOTE: A clicking sound might be heard from the station or iron. This is not a problem, but the heater switching off/on.

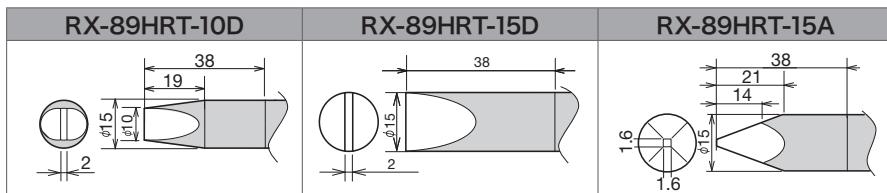
Error message	Cause	Countermeasure
 S o P	The sensor or cord is damaged.	Replace the tip or soldering unit. This message is also displayed when changing the tip but this is not an error. Press any key on the panel.
 E r O	Memory error.	If the unit is not in continuous use, please take it to the nearest dealer for repair.
 H t A	Sensor error, heater error.	The sensor in the tip and/or the heater may be damaged. Replace the tip with a new one. Turn the unit OFF and turn it ON again.
 E H t	Sensor error.	There is a problem with the sensor. Replace the tip. Turn OFF the unit, and then turn the power switch ON again after changing the tip.

8 Replacement TIPS

RX-89HRT series

Note : Since the heater is integrated in the tip, replacement of only the heater or the tip is not possible.

RX-89HRT series



8 Replacement Parts

For replacement parts, contact a **goot** distributor.

NO.	Item	Parts No.	Note
1	RX-892AS Soldering unit	RX-89GAS	(Tip is not included)
2	Filter	RX892ASF	
3	Soldering Iron Stand	ST-29	For RX-892AS
4	Sponge	ST-53SP	For ST-22
5	Brass Wool	ST-40BW	Cleaner For ST-22 (2pcs./set)

ST-53SP



ST-40BW

9 Parameters

Term (display panel letters)	Display Panel	Unit	Range	Shipping Default Setting
Set Temperature (PT)		°C °F	(SSt + 50) to 500 (SSt + 90) to 932	250
Tip Number (tPn)		—	0 to 4, L1 to L3	L1
Temperature Calibration (cAL)		°C °F	-50 to 50 -90 to 90	0
Sleep Set Temp (SSt)		°C °F	0 to (Pt-50) 32 to (Pt-90)	200
Sleep Timer (ct)		Minute	0.00 to 999	5
Sleep Sensitivity (diF)		°C °F	0. to 20.0 0. to 36.0	2.0
Shutdown Start time (SUt)		Minute	0 to 999	60
Alarm (At)		sec.	---, 0.3 to 30	---
Upper Limit (H)		°C °F	---, 3 to 100 ---, 5 to 180	50
Lower Limit (L)		°C °F	---, 3 to 100 ---, 5 to 180	50
Differential Time (td)		cyc	0-50	20
Alarm Sound		—	ON / OFF	ON
Temperature Scale		—	c/F	c

Soldering Iron Stand ST-29 Instructions

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-29 near flammable substances.



- 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.

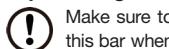
Alternatively, push the soldering-iron tip in and out of the brass wool a few times. Stab, not swipe.



- To avoid rust, do not pour water on the brass wool.
- Extended contact with hot tip may damage sponge tray.
- Remove the collected solder scrap regularly.



Tip Holding Bar



Make sure to put the tip below this bar when you store the iron part.

Brass Wool
ST-40BW

Heat-Resistant
Sponge
ST-53SP



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