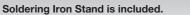


KEEP THIS MANUAL FOR FUTURE REFERENCE



Soldering iron stand usage is described in this manual.

Tip is not included. Please buy it separately.



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.

TAIYO ELECTRIC IND.CO.,LTD.

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.

3

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Specifications

	MODEL	RX-852AS
Voltage		110–120, 220–240V AC
Power Consu	nption	145–170W
Soldering Iron	Voltage / Wattage	24V AC/150W
Temperature S	Setting Range	50°C (122°F)-450°C (842°F)
Dimensions	Soldering Unit	174mm (w/o cord bushing)
Dimensions	Control Unit	116(W) X 105(H) X 194(D) mm
Waight	Soldering Unit	Approx. 39g (w/o cord)
Weight	Control Unit	Approx. 4.8kg (w/o cord)
Control Unit to	Soldering Unit Cord Length	1.5m
AC Power Cord Length		1.5m 3 core cord (ground plug)
Leak Voltage		Less than 2mV
Ground Resistance		Less than 2Ω
Accessories		Soldering Iron Stand ST-21



2-1 Features of the RX-852AS

The **RX-852AS** includes a compact, lightweight soldering iron with excellent heat recovery for lead-free soldering. The tip is a long-life compact type with integrated heater.

1. Excellent heat recovery (PAT.)

Excellent heat recovery has been achieved by combining a 150W-compact-high-outputheater with a high-sensitivity-sensor.

It makes difficult work that requires high heat capacity, easy.

2. New ergonomic design soldering unit (PAT.)

New ergonomically designed soldering unit provides comfortable usability, easy handling and a shorter distance from the grip to the tip.

3. Fastest in its class

Reaches 350°C (662°F) in 14 seconds.

4. Easy to replace tip without using tools (PAT.)

With the new slide-change tip there is no need for heat-resistant pads or tools when changing the tip. After inserting a new tip, it will not start to heat up until any key on the control unit keypad is pressed.

5. RX-80HRT tips can also be used

More than 40 tips with different shapes are available, including the optional tips for the

RX-802AS.

6. Thick iron plating for lead-free soldering

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

7. Key Lock function (PAT.)

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

8. 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 \checkmark key for 1 second. The sleep function can be used in conjunction with the shutdown function.

9. Sleep function release (PAT.)

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

10. Alarm function (PAT.)

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.

11. Calibration function (PAT.)

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

12. 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.

5

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.

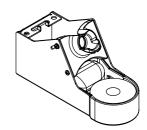
Packing List

- Control Unit
- Soldering Unit **RX-85GAS**
- Soldering Iron Stand ST-21
- Power CordOperation Manual
- Control Unit



Operation Manual

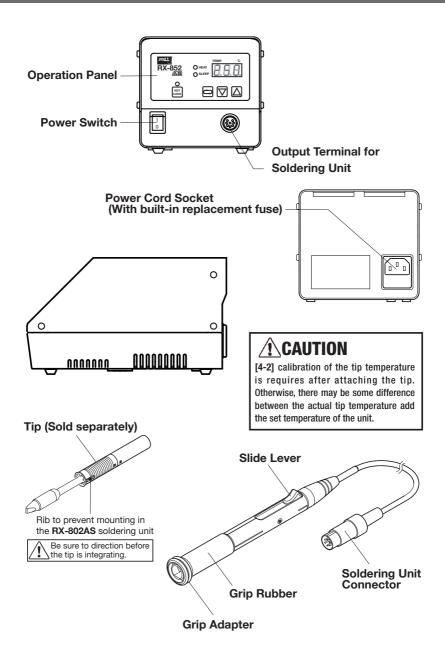




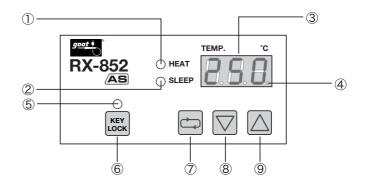
Soldering Unit RX-85GAS

Soldering Iron Stand ST-21 See instruction p. 34

2-3 Name of Parts



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-852AS** 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.

Do not wear loose clothing (such as a necktie). Tie up long hair. Clothing or hair can burn on contact with the tip or surrounding heated parts.

5. CONNECT TO THE SPECIFIED AC POWER SUPPLY.

The power voltage for this soldering station is indicated at the back of the control unit. Never plug the soldering station into any other voltage.

6. DO NOT ABUSE THE POWER CORD AND INSPECT IT PERIODICALLY.

Never yank the power cord to disconnect it from the receptacle. Keep the power cord away from heat, oil and sharp edges. If it is damaged, contact the nearest distributor to order a new one.

9

7. USE STAND PROVIDED.

Be sure to use the soldering iron stand (**ST-21**) 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. Follow instructions in p.34.

8. 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.

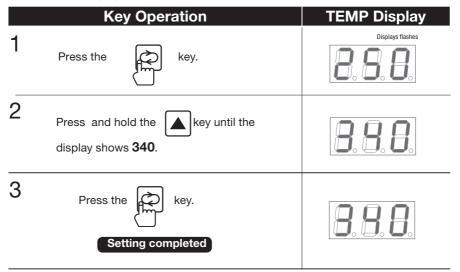
4 Operating Instructions

4-1 Changing the Set Temperature

When the station is shipped the temperature is set at $250^{\circ}C$ ($482^{\circ}F$). The temperature can be set from $50^{\circ}C$ ($122^{\circ}F$) to $450^{\circ}C$ ($842^{\circ}F$).

*For the steps given in the operation instructions, only $^\circ \mbox{C}$ is used.

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



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.

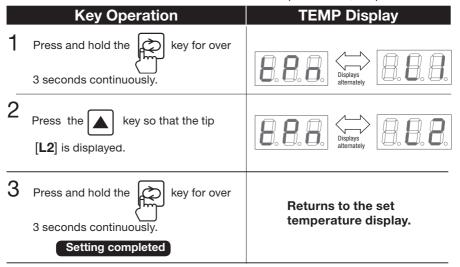
 \rightarrow Refer to the Parameters table (on **page 33**) for the explanation of the display messages.

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.



Tip No. List

Tip No. List (RX-85HRT Series)

MODEL	TIP NO.	MODEL	TIP NO.
RX-85HRT-B	L2	RX-85HRT-3D	L1
RX-85HRT-2BC	L1	RX-85HRT-5D	L1
RX-85HRT-3BC	L1	RX-85HRT-7D	L1
RX-85HRT-5BC	L1	RX-85HRT-6K	L1
RX-85HRT-7BC	L1		

Tip No. List (RX-85HSRT Series)

MODEL	TIP NO.	MODEL	TIP NO.
RX-85HSRT-B	L2	RX-85HSRT-2BC	L1
RX-85HSRT-1.6D	L1	RX-85HSRT-3BC	L1
RX-85HSRT-2.4D	L1	RX-85HSRT-4.5K	L1
RX-85HSRT-3.2D	L1		

Tip No. List (RX-80HRT Series)

MODEL	TIP NO.	MODEL	TIP NO.
RX-80HRT-SB	3	RX-80HRT-4.7C	0
RX-80HRT-B	1	RX-80HRT-0.8D	2
RX-80HRT-2B	1	RX-80HRT-1.2D	2
RX-80HRT-LB	2	RX-80HRT-1.6D	2
RX-80HRT-LBJ	2	RX-80HRT-2.4D	1
RX-80HRT-1C	4	RX-80HRT-3.2D	1
RX-80HRT-2C	4	RX-80HRT-5.4D	0
RX-80HRT-3C	2	RX-80HRT-3K	1
RX-80HRT-3BC	1	RX-80HRT-4.5K	1
RX-80HRT-4C	1	RX-80HRT-4.5KH	1
RX-80HRT-BM	1	RX-80HRT-5.5K	1
RX-80HRT-2CD	4	RX-80HRT-0.5C	3
RX-80HRT-2.3BC	1	RX-80HRT-1BC	1
RX-80HRT-3CD	2		

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).

Calibration Function 4-3

The RX-852AS can be calibrated using a tip thermometer. Generally speaking, when measuring the tip temperature of the RX-852AS with a standard tip thermometer, the measured temperature will usually be lower than that of the actual tip temperature displayed on the RX-852AS 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-852AS soldering tip, the metallic parts in the thermometer conduct heat which transfers away from the RX-852AS tip. This results in the thermometer indicating a slightly lower temperature than the one in the RX-852AS display.

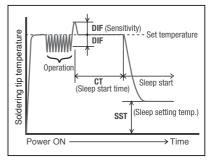
How to Calibrate the Temperature

(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.	B. B. B. Displays alternately B. B. B.
3	Press the key so that (°C) is displayed.	BBC D D S D S D S D S D S D S D S D S D S D S D S S D S S S S S S S S S S
4	Press and hold the key for over 3 seconds continuously.	Returns to the set temperature display.

4-4 Sleep Function

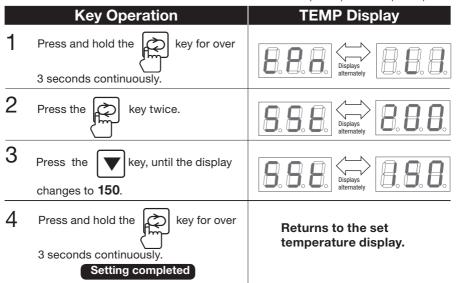
The sleep start timer (CT) function automatically lowers the temperature of the tip after a preset period of inactivity. This function is exited by pressing any key on the control panel. This function reduces power consumption and helps extend soldering tip life. The sleep function can be used with the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



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 $\mathbf{\nabla}$ 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 Set to 5 minutes before shipping. **Example** : Changing the sleep start time from 5 to 10 minutes. time (CT) Unit: mins. **Key Operation TEMP** Display 1 Press and hold the key for over Displays alternately 3 seconds continuously. 2 Press the key three times. Displays alternately 3 Press the key, until the display Displays changes from 5 to 10. alternately 4 Press and hold the key for over Returns to the set temperature display. 3 seconds continuously. 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.

		Examp l 2.0 to 3	le :Changing the sleep sensitivity value from .0 °C.
	Key Operation		TEMP Display
1	Press and hold the key for a	over	
	3 seconds continuously.		
2	Press the key four times.		B. B. B. Displays atternately B. B. B. S.
3	Press the and change the difference from 2.0 t		B B B B B B B B B B
4	Press and hold the key for of 3 seconds continuously. Setting completed	over	Returns to the set temperature display.

NOTE)

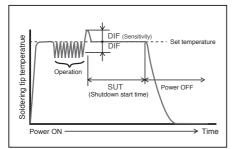
*If the sleep sensitivity value (DIF) is set too high, there is a possibility that the sleep function will be activated even during soldering. If this happens, reduce the sleep sensitivity value.

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

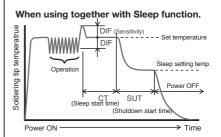
*If the sleep sensitivity value (DIF) is set too low, there is a possibility that the sleep function will not be activated even passed sleep start time. If this happens, increase the sleep sensitive value

4-5 Setting the Shutdown Function

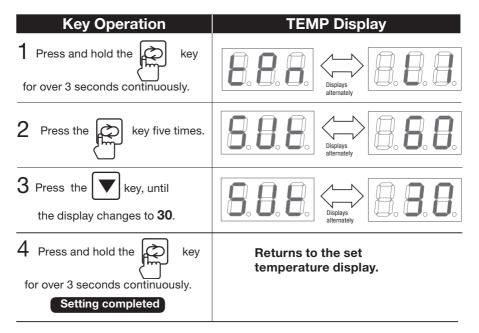
When the unit is not operated during the preset time, the unit is automatically shutdown. Even if the user forgets to turn OFF the unit, this Shutdown function works to keep the unit inactive and prevents accidents.



Setting the Shutdown start time (SUT)



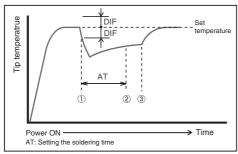
Example : Changing the Shutdown start time from 60 to 30. Unit : mins



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-852AS** 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.

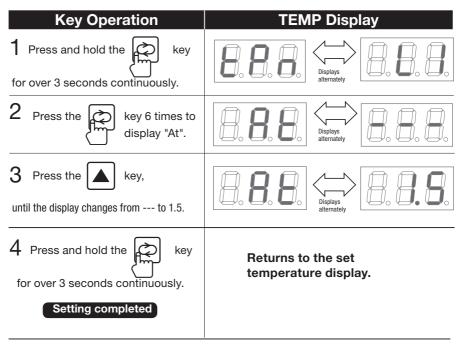


Setting the soldering start time

- RX-852AS 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.

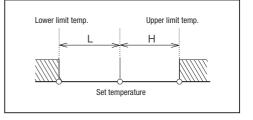
Example : Changing the soldering time from 0 to 1.5. Unit : seconds



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.

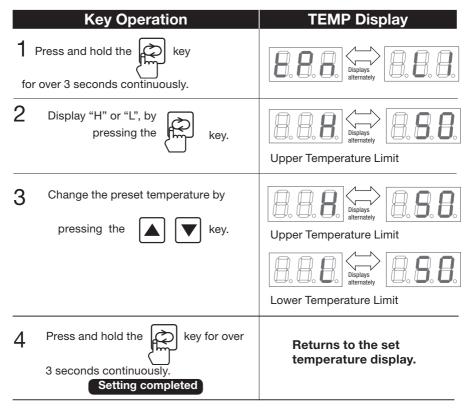
The alarm can be set from 3 to 100°C, for the upper limit and the lower limit



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



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" will often occur when using the **RX-85HSRT**, but "Overshoot" can be controlled by setting the parameters.

Setting the differential time (td)

Example : Changing the differential time from **5** to **30**.

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

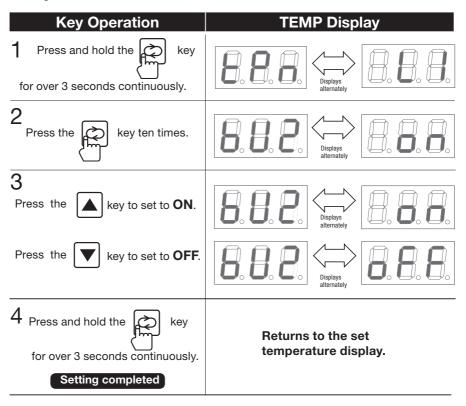
Standard of the differential time

Tip type	Differential time
RX-80HRT series	5
RX-85HRT series	5
RX-85HSRT series	30

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



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.	B.B.C. Displays atternately
2	Press the key eleven times.	Do D
3	Press the key to change the format to F . (Fahrenheit ° F)	
	Press the \checkmark key to change the format to C . (Celsius ° C)	
4	Press and hold the key for over 3 seconds continuously.	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 LOCK key.	8 . 8 . 8 .
		B.B. B. Displays alternately
2	Input the desired code number using the	B. 8. 8 .
3	Press the KEY LOCK key. Setting completed	Returns to the set temperature display.

	code number from 123 to 234.
Key Operation	TEMP Display
Press the LOCK key.	8.8.8. Displays alternately
Press and hold the KEY LOCK key for over 3 seconds continuously.	0.0.0. 8.8.8. Dispays Dispays 0.0.0.0.
3 Press the keys so that the present code number is displayed	
4 Press the LOCK key.	B.B. B. Displays alternately D. B. B. S.
5 Input the desired new code number using the keys.	8 . 8 . 8 .
6 Press the KEY key. Setting completed	Returns to the set temperature display.

Changing the Code Number

Example · When changing the

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
1	Press the LOCK key.	8.8.8. 8.8 .8. Displays alternately
2	Press and hold the and the key simultaneously for over 3 seconds.	B.B.C. Displays alternately
3	Press the keys so that the present code number is displayed	
4	Press the LOCK key.	$\boxed{\begin{array}{c} \hline \\ \hline \\ \hline \\ \hline \\ \hline \\ \\ \hline \\ \\ \\ \hline \\$

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
1	Press these the following keys simultaneously for over 5 seconds, while the preset temperature display is shown.	The preset temperature is displayed.
2	All settings are restored to the factory default. Setting completed	B B B B B B B B B B

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

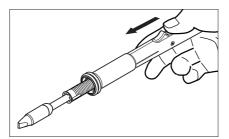
The soldering unit is designed so the tip can be replaced without turning OFF the power. However, the tip is very hot. Do not touch the tip or serious burns may result.

The removed tip should be placed in the tip stand and kept there until it cools down.

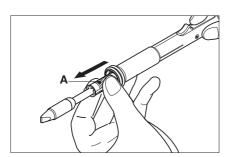


5-1 How to Change the Tip

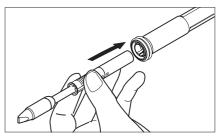
1. Slide the lever on the soldering unit in the direction of the arrow.



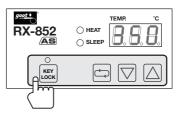
 Hold the part marked A and pull the tip out in the direction of the arrow. The electricity to the soldering unit automatically goes off as soon as the lever is slid forward to remove the tip.



3. Plug the new tip into the end of the soldering unit making sure that the cut part on the rear end of the tip is aligned with the cut part of the soldering unit. Push the tip into the handpiece as far as it will go. The tip will not heat up until any key on the control unit keypad is pushed.



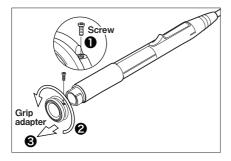
4. Press any key on the keypad to start the flow of electricity to the heater.



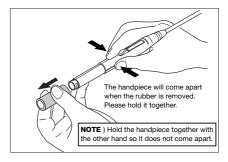
NOTE) When changing to a different type of tip, be sure to input the Tip No. (Refer to **page 11**) Since the heater is integrated into the tip, replacement of only the heater or the tip is not possible.

5-2 How to Change the Grip Rubber

1. Remove the screw. Turn and pull the grip adapter to remove the grip rubber.



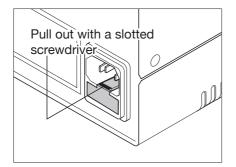
2. Remove the old grip rubber and replace with new one.

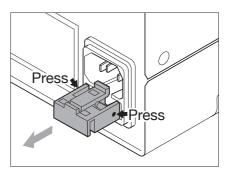


5-3 How to Change the Fuse

- 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.





5-4 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.

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.

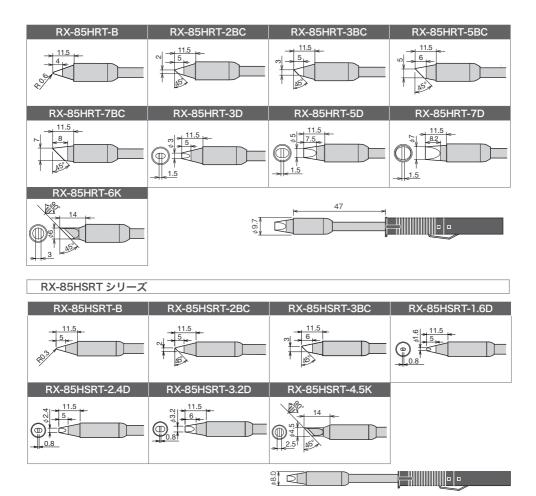
→ Check that the heater is not damaged.

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.
B . B . B . Ero	Memory error.	If the unit is not in continuous use, please take it to the nearest dealer for repair.
8.8.8. HtA	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.
8 . 8 . 8 . EHt	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.

7 Replacement tips

RX-85HRT series

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

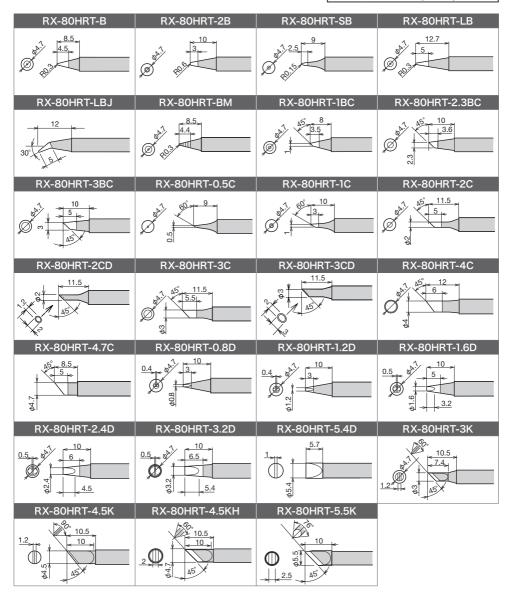




RX-85HRT replacement tips cannot be used with the **RX-802AS**. To prevent improper usage of these tips, a notch has been added to the **RX-85HRT** tips so that they cannot be inserted into the **RX-802AS** soldering unit. Attempting to use the **RX-85HRT** series tips in the **RX-802AS** will result in damaging the **RX-802AS**, because the electric current will exceed the capacity of the **RX-802AS**.



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







8 Replacement Parts

For replacement parts, contact a *goot* distributor.

NO.	Item	Parts No.	Note
1	RX-852AS Soldering unit	RX-85GAS	(Tip is not included)
2	Soldering Iron Stand	ST-21	For RX-802AS/852AS/822AS
3	Sponge	ST-53SP	For ST-53/21/27
4	Brass Wool	ST-40BW	Cleaner For ST-40/21/27 (2pcs./set)

Grip Rubber Sele Four different colour Handy to differentiat being used for different the same workspace	s available. e stations ent tasks in	<i>]]]]</i>	0000
Grip rubber (gray)	RX-80RB		
Grip rubber (black)	RX-80RB-BK		
Grip rubber (orange)	RX-80RB-OR	Anti-Static	
Grip rubber (green)	RX-80RB-GR	7 1	



Term (display panel letters)	Display Panel	Unit	Range	Shipping Default Setting
Set Temperature (PT)		°C °F	(SSt + 50) to 450 (SSt + 90) to 842	250
Tip Number (tPn)	8.8.8.	_	0 to 4, L1 to L3	L1
Temperature Calibration (cAL)	8.8.8.	°C °F	-50 to 50 -90 to 90	0
Sleep Set Temp (SSt)	8 . 8 . 8 .	°C °F	0 to (Pt–50) 32 to (Pt–90)	200

Term (display panel letters)	Display Panel	Unit	Range	Shipping Default Setting
Sleep Timer (ct)	8.8.8.	Minute	0.00 to 999	5
Sleep Sensitivity (diF)	8.8.8.	°C °F	0. to 20.0 0. to 36.0	2.0
Shutdown Start time (SUt)	8.8.8.	Minute	0 to 999	60
Alarm (At)	8.8.8	sec.	, 0.3 to 30	
Upper Limit (H)	8.8.8.	°C °F	, 3 to 100 , 5 to 180	50
Lower Limit (L)	8.8.8.	°C °F	, 3 to 100 , 5 to 180	50
Differential Time (td)	B . B . B .	сус	0–50	5
Alarm Sound	8.8.8.	_	ON / OFF	ON
Temperature Scale	8.8.8.	_	c/F	с

Soldering Iron Stand ST-21 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-21** 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.

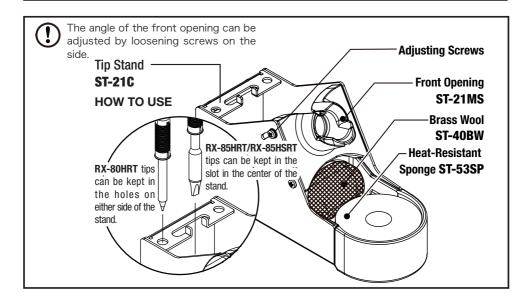
INSTRUCTION FOR USE

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.

●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.





Customer service: Contact your nearest distributor

HomePage: www.goot.co.jp E-mail: info@goot.co.jp

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