

2014-2015

goot

SOLDERING IRONS, EQUIPMENT & ACCESSORIES

TAIYO ELECTRIC IND.CO.,LTD.

Vol.47

SOLDERING SYSTEM

SMT PRODUCTS

SOLDERING STATIONS

SOLDERING IRONS

SOLDER POTS

**DESOLDERING
PRODUCTS**

SOLDERS

**SOLDERING
ACCESSORIES**

TESTERS

HEATED TOOLS

HAND TOOLS



Management
System
ISO 9001:2008

www.tuv.com
ID 9105020933

HIROSHIMA JAPAN

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

6 seconds to set temperature.
The ultimate solution for lead-free soldering.



TEMPERATURE-CONTROLLED LEAD-FREE SOLDERING STATION RX-802AS



New Soldering Iron Stand
More stable, better operation

Tip not included.

Excellent Heat Recovery (PAT.)

There is almost no temperature fluctuation during continuous operation. Good for lead-free soldering.

Fastest in Its Class

Reaches set temperature in just 6 seconds after turning power on.

Tip Replacement without Tools (PAT.)

Slide-change tip. Easy to replace a hot tip without any other tools.

Reduced Grip Heat

Patented thermal-insulation grip permits comfortable and safe work.

Thick Tip Coating for Lead-free Soldering

All tips have extra-thick iron plating, to resist erosion by lead-free solder.

HOW TO CHANGE TIPS

Slide the lever in the direction of the arrow. The tip will come out. Hold and pull the plastic housing of the tip.



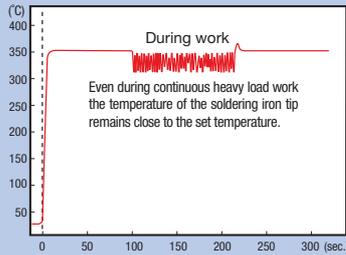
INCLUDED

<p>Station Unit</p> 	<p>Soldering Iron RX-80GAS</p>  <p>Tip is not included</p>	<p>Soldering Iron Stands ST-21</p>  <p>Brass Wool & Sponges included</p>
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PRODUCT SPECIFICATIONS / FUNCTIONS

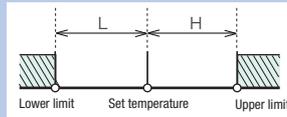
TIP-TEMPERATURE RECOVERY FEATURES

The tip temperature remains close to set temperature even during heavy load work.



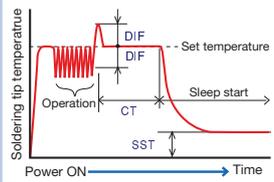
HIGH/LOW TEMPERATURE ALARM

An alarm sounds when the temperature goes above or below temperature settings. High/low setting range 3-100°C.



INTELLIGENT SLEEP FUNCTION (PAT.)

Automatically lowers the temperature when the iron is not in use, during a preset period of time. Prevents tip oxidation and excess heating. Can be used with Shutdown function.

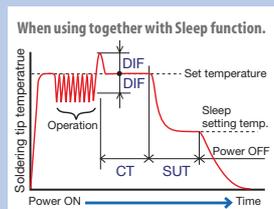
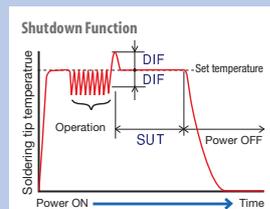


SLEEP FUNCTION RELEASE (PAT.)

Sleep mode can be exited (at any time) by touching a wet sponge with the tip to cause temperature fluctuation. (Effective when temperature is set above 100°C)

MODE: Sleep function ON/OFF
CT: Sleep start time
SST: Sleep set temperature
DIF: Sleep sensitivity
 Each parameter can be set.

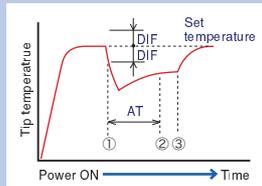
SHUTDOWN FUNCTION



When the unit is not used during the preset time, the unit automatically shuts down. Great when you forget to turn the power off.

SOLDERIG ALARM FUNCTION (PAT.)

- (1) Soldering time countdown (AT) starts when the tip is applied to the component. (The tip temperature goes outside DIF)
- (2) The alarm sounds after the preset countdown. (The display flashes twice)
- (3) Operator takes the tip off the component.



KEY LOCK (PAT.)

Lock with password. No tools or card necessary.

CALIBRATION (PAT.)

The calibration function digitally offsets the difference between the tip temperature and the temperature shown by a tip thermometer being used.

NEW ERGONOMIC GRIP (PAT.)

Prevents fatigue. Flexible cord, and a shorter distance from the handpiece to the tip.

SPECIFICATIONS

Model	RX-802AS
Voltage	110V,120V,130V,220V,230V,240V AC 50/60Hz
Power Consumption	80W
Power Cord Length	1.2m
Temperature Setting Range	50-450°C
Ripple temperature	±5°C (unloaded)
Insulation Resistance	Over 100MΩ (500V DC)
Accessories	Soldering Iron Stand (ST-21)

Control Unit

Output Voltage	24V AC
Dimensions	115(W) × 98(H) × 146(D)mm
Weight	1.8kg

Soldering Unit

Voltage/Consumption	24V AC / 72W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Nichrome heater
Cord Length	1.2m
Length	158mm (with RX-80HRT-BM)
Weight	28g (with RX-80HRT-BM)

Equivalent to IPC/EIA J-STD-001C

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

For replacement tips, refer to p.20

CALIBRATION SERVICES

We provide calibration and/or certification for a fee.

REPLACEMENT PARTS / OPTIONS

Soldering Iron RX-80GAS	Soldering Iron Stand Sponge ST-53SP	Soldering Iron Stand Cleaner ST-40BW	Flux Guard Rubber RX-80P
 Tip is not included		 (2pcs./set)	

Accessories HANDPIECE GRIP RUBBER (Anti-static)

For quick identification of soldering tasks or types.

RX-80RB : gray **RX-80RB-GR** : green
RX-80RB-BK : black **RX-80RB-OR** : orange



with RX-80P

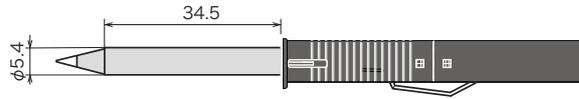


with RX-80RB

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

RX-80HRT Series / Applicable Model (Grip)

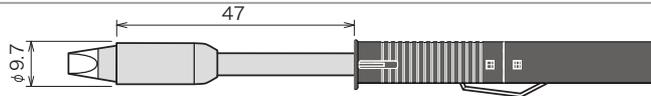
RX-802AS (RX-80GAS), **RX-852AS** (RX-85GAS)
RX-822AS (RX-80GAS and RX-85GAS)



RX-80HRT-B	RX-80HRT-2B	RX-80HRT-SB	RX-80HRT-LB	RX-80HRT-LBJ
RX-80HRT-BM	RX-80HRT-1BC	RX-80HRT-2.3BC	RX-80HRT-3BC	RX-80HRT-0.5C
RX-80HRT-1C	RX-80HRT-2C	RX-80HRT-2CD	RX-80HRT-3C	RX-80HRT-3CD
RX-80HRT-4C	RX-80HRT-4.7C	RX-80HRT-0.8D	RX-80HRT-1.2D	RX-80HRT-1.6D
RX-80HRT-2.4D	RX-80HRT-3.2D	RX-80HRT-5.4D	RX-80HRT-3K	RX-80HRT-4.5K
RX-80HRT-4.5KH	RX-80HRT-5.5K			

RX-85HRT Series / Applicable Model (Grip)

RX-852AS (RX-85GAS), **RX-822AS** (RX-85GAS)



RX-85HRT-B	RX-85HRT-2BC	RX-85HRT-3BC	RX-85HRT-5BC	RX-85HRT-7BC
RX-85HRT-3D	RX-85HRT-5D	RX-85HRT-7D	RX-85HRT-6K	

TEMPERATURE-CONTROLLED SOLDERING STATIONS

Lightweight, slim handpiece with reduced heat-up!



TEMPERATURE-CONTROLLED SOLDERING STATIONS RX-701AS/RX-711AS



New Soldering Iron Stand
More stable, better operation

Quick Heat Recovery

New heater with internal sensor achieves 60W.

Easy to Use

Allows two-tiered setting with another RX-701AS/711AS.

High Insulation. Reliable 24V Output.

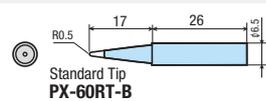
The heater is completely separated from the input power by the insulated transformer. And the 24V heater is safe to use for sensitive components.

Comfortable Handpiece **Protective Cover (PAT.)**

We have made it slimmer while still achieving less heating of grip. Prevents tampering.

Wide Variety of Tips

A wide variety of replacement tips for all types of work. Refer to page p. 26 for further details.

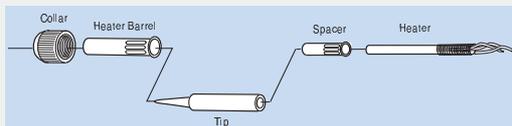


INCLUDED



REPLACEMENT PARTS / OPTIONS

- Heater **RX-72H**
- Heater Barrel **RX-72HP**
- Collar **TQ-77NUT**
- Spacer **RX-72SS**
- Soldering unit **RX-72GAS**



SPECIFICATIONS

Model	RX-701AS	RX-711AS
Voltage	110V,120V,130V,220V,230V,240V AC 50/60Hz	
Power Consumption	65W	
Power Cord Length	1.2m	
Temperature Setting Range	200–450°C	200–480°C
Ripple temperature	±5°C (unloaded)	
Insulation Resistance	Over 100MΩ (500V DC)	
Accessories	Soldering Iron Stand (ST-27), Soldering Iron Tip (PX-60RT-B)	

Control Unit

Output Voltage	24V AC
Dimensions	115(W) × 98(H) × 146(D)mm
Weight	1.5kg

Soldering Unit

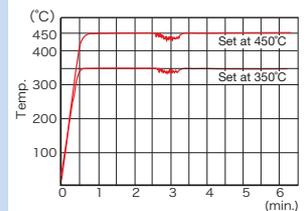
Voltage / Consumption	24V AC / 60W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Ceramic heater
Cord Length	1.2m
Length	197mm (with PX-60RT-B)
Weight	44g (with PX-60RT-B)

Equivalent to IPC/EIA J-STD-001C

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

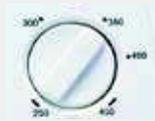
TIP-TEMPERATURE RECOVERY FEATURES

Solder melted consecutively on 5mm-dia land. Approx. 2 sec / land. (with PX-60RT-B tip)



High-performance soldering station.

MINI SOLDERING STATIONS PX-501/PX-501AS



Temperature adjustable
250–450°C

Quick Start (PAT.)

Reaches set temperature fast with the Quick Start circuit.

Temperature Calibration

Accurate calibration.

Leakage Current / Insulation-Resistance Measuring Terminal

The **PX-601** Series has a measurement terminal to easily assess leakage current and insulation resistance.

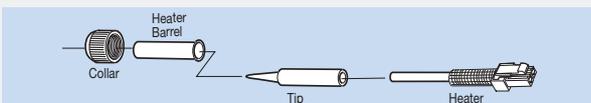
TIP-TEMPERATURE RECOVERY FEATURES

Solder melted consecutively on 5mm-dia land. Approx. 2 sec / land.
(with **PX-60RT-B** tip)



REPLACEMENT PARTS / OPTIONS

Heater	PX-501AS/601AS Soldering Unit
PX-60H	PX-60GAS
PX-501/601 Soldering Unit	Collar
PX-60G	TQ-77NUT
Heater Barrel	
PX-60HP	



Recommended **ST-27** refer to page [p. 76](#)



ST-27

Accurate temperature control, high-performance compact model.

SOLDERING CONTROLLERS PX-601/PX-601AS



Comes with protective
cover (PAT.)

SPECIFICATIONS

Model	PX-501	PX-501AS	PX-601	PX-601AS
Voltage	110V, 220–240V AC 50/60Hz			
Power Consumption	85W			
Power Cord Length	1.5m			
Temperature Setting Range	250–450°C			
Ripple temperature	±5°C (unloaded)			
Insulation Resistance	Over 100MΩ (500V DC)			
Accessories	Soldering Iron Tip (PX-60RT-B)			

Control Unit

Output Voltage	110V, 220–240V AC		
Dimensions	100(W) × 57(H) × 85(D)mm	48(W) × 31(H) × 130(D)mm	
Weight	266g	75g	

Soldering Unit

Voltage / Consumption	110V, 220–240V AC / 80W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Ceramic heater
Cord Length	1.2m
Length	195mm (with PX-60RT-B)
Weight	41g (with PX-60RT-B)

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

Anti-Static Model PX-501AS/PX-601AS

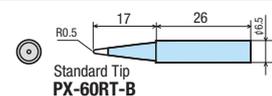


PX-501AS

PX-601AS

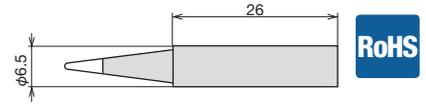
Wide Variety of Tips

A wide variety of replacement tips for all types of work. Refer to page [p. 26](#) for further details.



TEMPERATURE-CONTROLLED SOLDERING STATIONS

PX-60RT Series / Applicable Model RX-701AS, RX-711AS, PX-501, PX-501AS, PX-601, PX-601AS, CXR-31, CXR-41



PX-60RT-B 	PX-60RT-SB 	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-1CR 	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-3K 	PX-60RT-5K 	PX-60RT-1.8H 	PX-60RT-H 	PX-60RT-R
PX-60RT-RT 	PX-60RT-S4 	PX-60RT-SB2 	PX-60RT-SI 	

TEMPERATURE-CONTROLLED SOLDERING IRONS

Large tip for high thermal-storage effect.

HIGH HEAT VOLUME TEMP-CONTROLLED SOLDERING IRON PX-401

RoHS



TEMPERATURE ADJUSTABLE
300-480°C

ACCURATE TEMPERATURE CONTROL
Ceramic heater with internal sensor

ERGONOMIC GRIP
Prevents fatigue

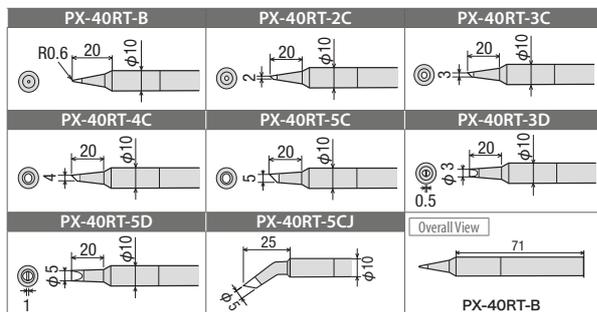
HIGH THERMAL-STORAGE EFFECT
Easy soldering of large parts

SPECIFICATIONS

Model	PX-401
Voltage	110-120V, 220-240V AC 50/60Hz
Power Consumption	70W
Temperature Setting Range	300-480°C
Ripple temperature	±5°C (unloaded)
Insulation Resistance	Over 100MΩ (500V DC)
Heater	Ceramic Heater
Power Cord Length	1.5m
Length	215mm
Weight	92g
Accessories	Soldering Iron Tip (PX-40RT-5C)

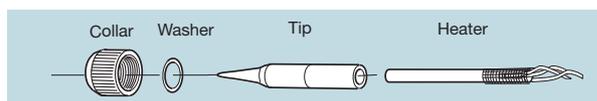
*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT TIPS



REPLACEMENT PARTS / OPTIONS

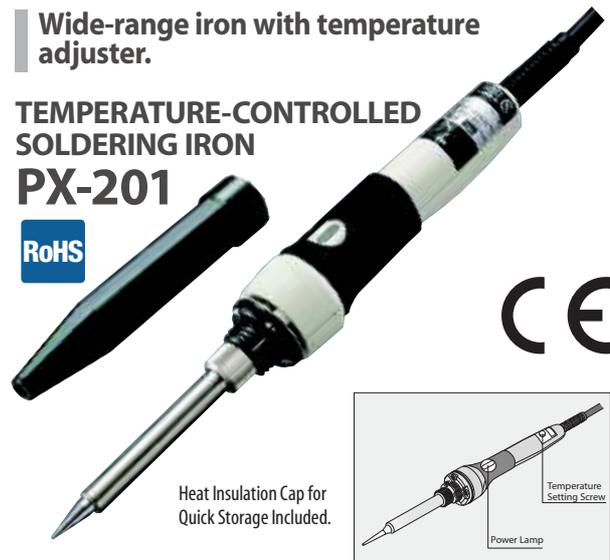
Heater	Collar
PX-20H	CXR-80NUT
Washer	Recommended Stand
CXR-80WS	ST-27



Wide-range iron with temperature adjuster.

TEMPERATURE-CONTROLLED SOLDERING IRON PX-201

RoHS



CE

Heat Insulation Cap for Quick Storage Included.

TEMPERATURE ADJUSTABLE
250-450°C

ACCURATE TEMPERATURE CONTROL
Ceramic heater with internal sensor

ERGONOMIC GRIP
Prevents fatigue

HEAT-RESISTANT CAP
For quick storage after use

SPECIFICATIONS

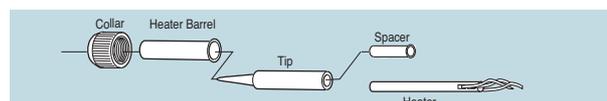
Model	PX-201
Voltage	110-120V, 220-240V AC 50/60Hz
Power Consumption	70W
Temperature Setting Range	250-450°C
Ripple temperature	±5°C (unloaded)
Insulation Resistance	Over 100MΩ (500V DC)
Heater	Ceramic Heater
Power Cord Length	1.5m
Length	210mm
Weight	90g
Accessories	Soldering Iron Tip (PX-2RT-SB)

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

Replacement tips are interchangeable with PX-3 series. Refer to next page.

REPLACEMENT PARTS / OPTIONS

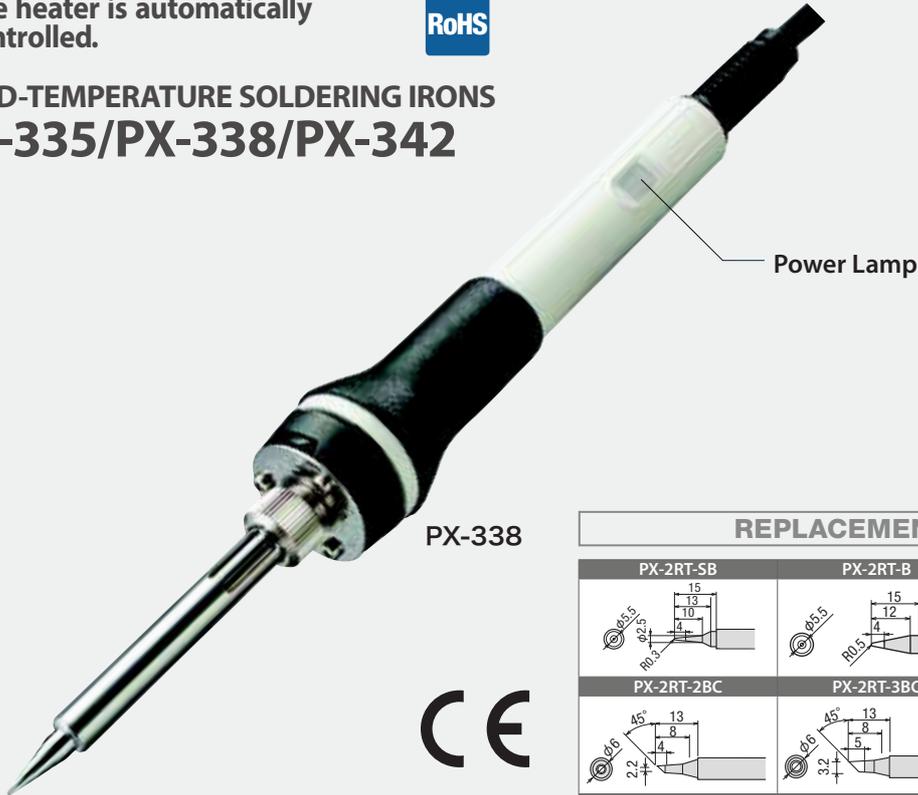
Heater	Heater Barrel
PX-20H	TQ-77HP (S)
Spacer	Collar
TQ-77SS	TQ-77NUT
CAP	Recommended Stand
TQ-CAP	ST-27



The heater is automatically controlled.



FIXED-TEMPERATURE SOLDERING IRONS PX-335/PX-338/PX-342



PX-338



- POWER LAMP**
Easy heater-on check
- AUTOMATIC HEAT CONTROL**
According to the heating load of the tip
- COOLER GRIP**
Thermal insulation & rubber grip

- LEAD-FREE APPLICABLE**
High-power ceramic heater
- COMFORTABLE SOLDERING**
Improved grip design

SPECIFICATIONS

Model	PX-335	PX-338	PX-342
Voltage	110-120V, 220-240V AC 50/60Hz		
Power	110-120V model	90-130W	
Consumption	220-240V model	85-120W	75-110W
Temperature Setting Range	350°C	380°C	420°C
Ripple temperature	±5°C (unloaded)		
Insulation Resistance	Over 100MΩ (500V DC)		
Heater	Ceramic Heater		
Power Cord Length	1.5m		
Length	220mm		
Weight	70g		
Accessories	Soldering Iron Tip (PX-2RT-B)		

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

REPLACEMENT PARTS / OPTIONS

Heater	Spacer
PX-20H	TQ-77SS
Heater Barrel	Collar
PX-3HP	PX3-NUT
Recommended Stand	
ST-27	

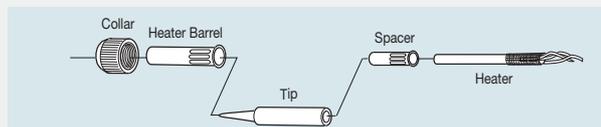
REPLACEMENT TIPS

PX-2RT-SB	PX-2RT-B	PX-2RT-BC
PX-2RT-2BC	PX-2RT-3BC	PX-2RT-2C
PX-2RT-3C	PX-2RT-4C	PX-2RT-5C
PX-2RT-1.6D	PX-2RT-2.4D	PX-2RT-3.2D
PX-2RT-4D	PX-2RT-5D	PX-2RT-5K
PX-2RT-8S	PX-2RT-6E	Overall View PX-2RT-B

Round solder-plated tip

PX-2RT-2CR	PX-2RT-3CR
PX-2RT-4CR	PX-2RT-5CR

Round solder-plated type



SOLDERING SYSTEM
LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS
TEMPERATURE-CONTROLLED SOLDERING STATIONS
TEMPERATURE-CONTROLLED SOLDERING IRONS
HIGH EFFICIENCY SOLDERING IRONS
GENERAL/SPECIAL PURPOSE SOLDERING IRONS
SOLDER POTS
SURFACE MOUNT / SMT PRODUCTS
DESOLDERINGS
SOLDERING ACCESSORIES
SOLDERING MATERIALS
HEATED TOOLS
HAND TOOLS

HIGH-EFFICIENCY SOLDERING IRONS

Two-stage high-power heater.

QUICK-HEAT SOLDERING IRONS

TQ-77/95 RoHS



TQ-95

SPECIFICATIONS

Model	TQ-77	TQ-95
Voltage	110-130V, 220-240V AC 50/60Hz	
Power Consumption	High 150W / Low 15W (110-130V model) High 200W / Low 20W (220-240V model)	
Insulation Resistance	Over 100MΩ (500V DC)	
Heater	Ceramic Heater	
Power Cord Length	1.5m	
Length	167mm	210mm
Weight	90g	65g
Accessories	Soldering Iron Tip (TQ-77RT-B)	Soldering Iron Tip (TQ-77RT-B) Cap for TQ-95 (TQ-CAP)

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

NOTE: High power runs while trigger/quick button is pressed.

REPLACEMENT PARTS / OPTIONS

TQ-95Heater	TQ-77 Heater	TQ-77/95 Spacer	TQ-95 Heat-Resistant Cap	Recommended Stand
TQ-95H	TQ-77H	TQ-77SS	TQ-CAP	ST-27
TQ-77/95 Heater Barrel	TQ-77/95 Collar			
TQ-77HP(L) 220-240V	TQ-77NUT			
TQ-77HP(S) 110-130V				

POWER LAMP (TQ-77 ONLY)
Easy heater-on check

COMFORTABLE SOLDERING
High-power ceramic heater

TWO-STAGE HEAT-SWITCH SYSTEM
10 times higher power than normal

ERGONOMIC GRIP
Prevents fatigue



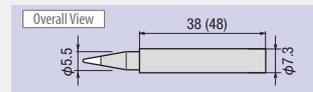
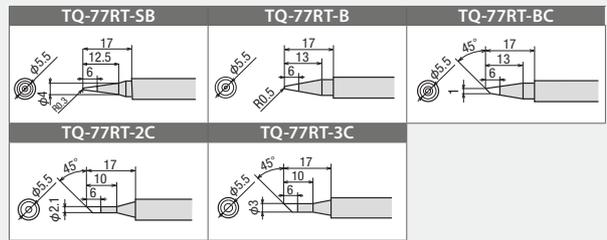
Power monitor lamp



trigger

TQ-77

REPLACEMENT TIPS



() Size for 220-240V AC model

Best for precision soldering.

PRECISION PCB SOLDERING IRONS

CS-21/31 RoHS



CS-31



CERAMIC-PIPE HEATER
Lower priced tips

PERFECT FOR PRECISION SOLDERING
Slim and sharp tips

SLIM GRIP
Easy to hold

REPLACEMENT PARTS / OPTIONS

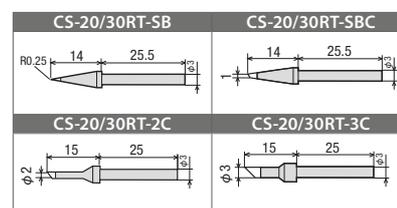
CS-21 Heater	Recommended Stand
CS-21H	ST-27
CS-31 Heater	
CS-31H	

SPECIFICATIONS

Model	CS-21	CS-31
Voltage	110V, 220V, 240V AC 50/60Hz	
Power Consumption	20W	25W
Insulation Resistance	Over 100MΩ (500V DC)	
Heater	Ceramic Heater	
Power Cord Length	1.5m	
Length	188mm	
Weight	43g	
Accessories	Soldering Iron Tip (CS-20/30RT-SB)	

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

REPLACEMENT TIPS



Best for SMD soldering. **RoHS**
PRECISION-COMPONENT MOUNTING-BOARD SOLDERING IRONS
CXR-31/41

- COMPACT AND LIGHT**
Easy use
- THICK-PLATED LONG-LIFE TIP**
Hard chrome coated
- EASY HEATER REPLACEMENT**
Connector-type heater



CXR-31

Heat-resistant cap for quick storage after use. (Sold separately)

High-powered quick thermal recovery. **RoHS**
HIGH-POWER SOLDERING IRONS
CXR-60/80/100

- HIGH THERMAL-STORAGE EFFECT**
Good for terminals, connectors
- THICK-PLATED LONG-LIFE TIP**
Hard chrome coated
- EASY HEATER REPLACEMENT**
Connector-type heater

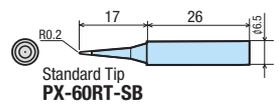


Heat-resistant cap (TQ-CAP) is not available for the CXR-60/80/100.



REPLACEMENT TIPS

For CXR-31/41 Series
 A wide variety of replacement tips for all types of work. Refer to p.26 for further details.

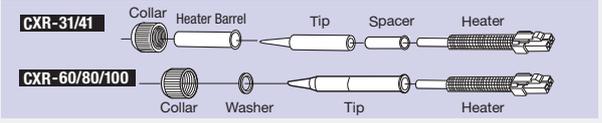


SPECIFICATIONS					
Model	CXR-31	CXR-41	CXR-60	CXR-80	CXR-100
Voltage	110V, 120V 220-230V AC	110V, 120V 220-230V, 240V	110-130V, 220-240V AC 50/60Hz		
Power Consumption	22W	30W	28W	32W	38W
Insulation Resistance	Over 100MΩ (500V DC)				
Heater	Ceramic Heater				
Power Cord Length	1.5m				
Length	205mm		268mm		
Weight	60g	80g	80g		88g
Accessories	Soldering Iron Tip				
	PX-60RT-SB		CXR-80RT-5C		CXR-100RT-7C

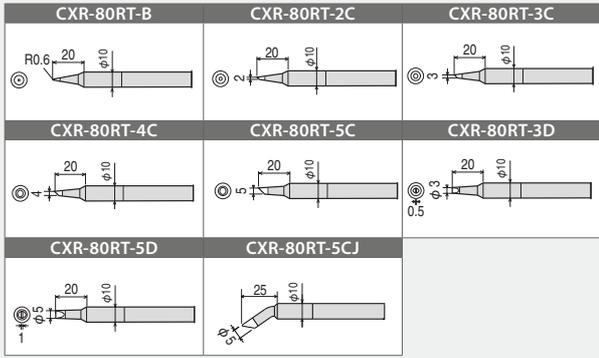
*The length does not include the cord bushing. The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

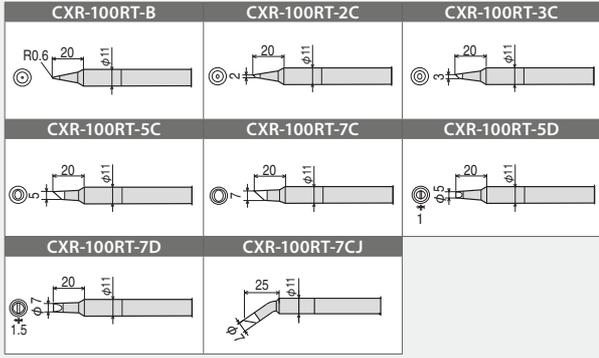
- | | |
|-------------------------------------|---|
| CXR-31 Heater
CXR-31H | CXR-41 Heater
CXR-41H |
| CXR-31/41 Spacer
CXR-31SS | CXR-31/41 Heater Barrel
PX-60HP |
| CXR-31/41 Collar
TQ-77NUT | Heat-Resistant Cap
TQ-CAP |
| CXR-60 Heater
CXR-60H | CXR-80 Heater
CXR-80H |
| CXR-100 Heater
CXR-100H | CXR-60/80 Collar
CXR-80NUT |
| CXR-100 Collar
CXR-100NUT | CXR-60/80 Washer
CXR-80WS |
| CXR-100 Washer
CXR-100WS | Recommended Stand
ST-27 |



For CXR-60/80 Series



For CXR-100 Series



SOLDERING SYSTEM
 LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS
 TEMPERATURE-CONTROLLED SOLDERING STATIONS
 TEMPERATURE-CONTROLLED SOLDERING IRONS
 HIGH EFFICIENCY SOLDERING IRONS
 GENERAL/SPECIAL PURPOSE SOLDERING IRONS
 SOLDER POTS
 SURFACE MOUNT / SMT PRODUCTS
 DESOLDERINGS
 SOLDERING ACCESSORIES
 SOLDERING MATERIALS
 HEATED TOOLS
 HAND TOOLS

NICHROME HEATER SOLDERING IRONS/GAS-POWERED SOLDERING IRONS

Our best-selling soldering iron.



GENERAL ELECTRONICS
SOLDERING IRONS

KS Series

RED TIP
Long-life tips

LIGHT GRIP
Easy to use



KS-30R

New ergonomic design.



GENERAL ELECTRONICS
SOLDERING IRONS

KX Series

RED TIP
Long-life tips

ERGONOMIC HANDLE
Reduces fatigue



KX-30R

Model / Application	IC	P.C. Board	Transistors	Capacitors	Relays	Switches	Terminals	Connectors	Lead wires	Coaxial Cables	Metal Cases
KS-20R / KX-20R	○	○	○	○	○	○	○	○	○	○	○
KS-30R / KX-30R	○	○	○	○	○	○	○	○	○	○	○
KS-40R / KX-40R	○	○	○	○	○	○	○	○	○	○	○
KS-60R / KX-60R	○	○	○	○	○	○	○	○	○	○	○
KS-80R / KX-80R	○	○	○	○	○	○	○	○	○	○	○
KS-100R / KX-100R	○	○	○	○	○	○	○	○	○	○	○

○ The most suitable ○ Suitable — Not suitable

SPECIFICATIONS

KS series

Model	KS-20R	KS-30R	KS-40R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	20W	30W	40W
Heater	Nichrome Heater		
Length	205mm		
Weight	45g		
Accessories	Soldering Iron Tip		
	R-48SB	R-48B	R-48B

Model	KS-60R	KS-80R	KS-100R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	60W	80W	100W
Heater	Nichrome Heater		
Length	230mm	235mm	240mm
Weight	65g	70g	75g
Accessories	Soldering Iron Tip		
	R-6B	RD-67BC	RD-68BC

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

KX series

Model	KX-20R	KX-30R	KX-40R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	20W	30W	40W
Heater	Nichrome Heater		
Length	208mm		
Weight	50g		
Accessories	Soldering Iron Tip		
	R-48SB	R-48B	R-48B

Model	KX-60R	KX-80R	KX-100R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	60W	80W	100W
Heater	Nichrome Heater		
Length	233mm	238mm	243mm
Weight	70g	75g	80g
Accessories	Soldering Iron Tip		
	R-6B	RD-67BC	RD-68BC

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

REPLACEMENT PARTS / OPTIONS

KS-20R/KX-20R Heater	KS-30R/KX-30R Heater
KS-20H	KS-30H
KS-40R/KX-40R Heater	KS-60R/KX-60R Heater
KS-40H	KS-60H
KS-80R/KX-80R Heater	KS-100R/KX-100R Heater
KS-80H	KS-100H
Recommended Stand	Recommended Stand
ST-75	ST-11

REPLACEMENT TIPS

<p>R-48SB</p>	<p>R-48B</p>	<p>R-6B</p>
<p>RD-67BC</p>	<p>RD-68BC</p>	

High power. Suitable for sheet-metal work.



SHEET-METAL SOLDERING IRONS HP-150/200/300

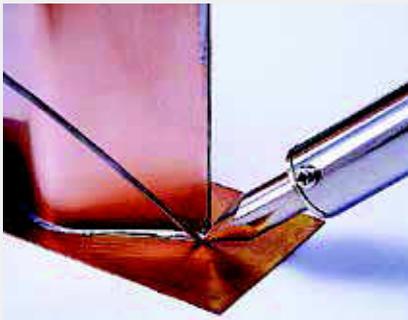
WOODEN HANDLE
Has good insulation

LARGE COPPER TIP
Can be shaped to suit your work purpose

SPECIFICATIONS

Model	HP-150	HP-200	HP-300
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz		
Power Consumption	150W	200W	300W
Heater	Nichrome Heater		
Length	360mm	370mm	390mm
Weight	450g	610g	710g
Accessories	Soldering Iron Tip		
	T-13A	T-16A	T-19A

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



REPLACEMENT TIPS

HP-150 T-13A	HP-200 T-16A	HP-300 T-19A

REPLACEMENT PARTS / OPTIONS

HP-150 Heater

HP-150H

HP-300 Heater

HP-300H

HP-200 Heater

HP-200H

Recommended Stand

ST-70

SOLDERING SYSTEM

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING IRONS

HIGH EFFICIENCY SOLDERING IRONS

GENERAL/SPECIAL PURPOSE SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT PRODUCTS

DE-SOLDERINGS

SOLDERING ACCESSORIES

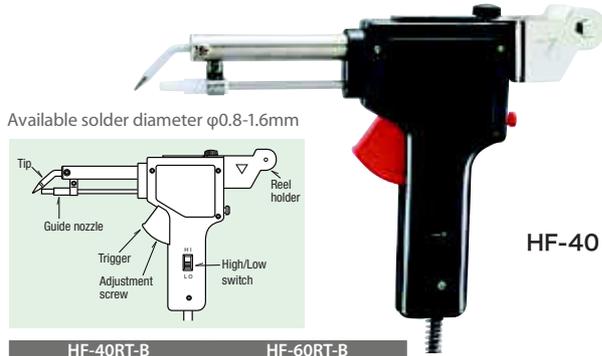
SOLDERING WORK MATERIALS

HEATED TOOLS

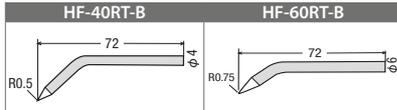
HAND TOOLS

NICHROME HEATER SOLDERING IRONS/GAS-POWERED SOLDERING IRONS

One-handed soldering work. MANUAL-FEED SOLDERING IRONS HF-40/60



Available solder diameter $\phi 0.8-1.6\text{mm}$



HF-40

SPECIFICATIONS

Model	HF-40	HF-60
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz	
Power Consumption	40 / 20W	60 / 30W
Heater	Nichrome Heater	
Length	190mm	
Weight	305g	325g
Accessories	Soldering Iron Tip	
	HF-40RT-B	HF-60RT-B

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

REPLACEMENT PARTS / OPTIONS

HF-40 Heater HF-40H	HF-60 Heater HF-60H
Guide Nozzle HF-40N	Recommended Stand ST-70

For hobby use with dual switch. DUAL-POWER SOLDERING IRONS KYP-60/70

High 60W power when trigger is pulled.



KYP-70 comes with heat resistant cap for quick storage.

For other replacement tips, refer to next page.

SPECIFICATIONS

Model	KYP-60	KYP-70
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz	
Power Consumption	Trigger ON 60W/Trigger OFF 30W	
Heater	Nichrome Heater	
Length	170mm	
Weight	160g	
Accessories	TQ-CAP (KYP-70), Soldering Iron Tip : RB-475B	

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

REPLACEMENT PARTS / OPTIONS

Heater KYP-70H	Heat Resistant Cap for KYP-70 TQ-CAP
Recommended Stand ST-11	

Store quickly after soldering. PORTABLE SOLDERING IRON WITH CAP CA-30R/40R

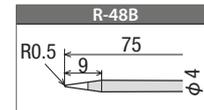


CA-30R

SPECIFICATIONS

Model	CA-30R	CA-40R
Voltage	110V, 120V, 130V, 220V, 240V AC 50/60Hz	
Power Consumption	30W	40W
Heater	Nichrome Heater	
Length	185mm	
Weight	60g	
Accessories	Soldering Iron Tip : R-48B	

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



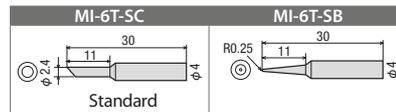
For other replacement tips, refer to next page.



REPLACEMENT PARTS / OPTIONS

CA-30R Heater KS-30H	CA-40R Heater KS-40H
Heat Resistant Cap TQ-CAP	Recommended Stand ST-11

Length only 150mm! Weight only 9g! LOW-VOLTAGE SOLDERING IRONS MI-6-6V/MI-6-12V



⚠ The tip and heater barrel connect to the minus pole (-) of the power supply. When using power from a car cigarette-lighter socket, never let the iron come into contact with the plus pole (+) of the car's electrical circuitry, or it may short-circuit or cause serious damage.

SPECIFICATIONS

Model	MI-6-6V	MI-6-12V
Voltage	5-6V AC / DC	11-12V AC / DC
Power Consumption	6W	
Heater	Nichrome Heater	
Length	150mm	
Weight	9g	
Accessories	Soldering Iron Tip : MI-6T-SC	

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

REPLACEMENT PARTS / OPTIONS

MI-6-6V Heater MI-6H-6V	MI-6-12V Heater MI-6H-12V
Recommended Stand ST-30	

Accurate temperature control with PID control.



SOLDER POT [Stainless bath]
POT-100C



ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

EASY HEATER REPLACEMENT
Separated structure of heater and bath

Accurate temperature control with PID control.



SOLDER POT [Stainless bath]
POT-200C



ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

EASY HEATER REPLACEMENT
Separated structure of heater and bath

Economical and erosion-resistant cast-iron bath.



SOLDER POT [cast-iron bath]
POT-103C



ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

CAST-IRON BATH
Lead-free solder applicable

EASY HEATER REPLACEMENT
Separated structure of heater and bath

Economical and erosion-resistant cast-iron bath.



SOLDER POT [cast-iron bath]
POT-203C



ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

CAST-IRON BATH
Lead-free solder applicable

EASY HEATER REPLACEMENT
Separated structure of heater and bath

SPECIFICATIONS

Model	POT-100C	POT-103C	POT-200C	POT-203C
Voltage	110V,120V, 220V,240V AC 50/60Hz	110-120V, 220-240V AC 50/60Hz	110V,120V,220V,240V AC 50/60Hz	110-120V, 220-240V AC 50/60Hz
Power Consumption	440W	900W	650W	1400W
Max. Temp.	350°C	450°C	400°C	450°C
Set Accuracy	±((1.25% of display temperature)+1°C)			
Heater	Nichrome Heater	Sheath Heater	Nichrome Heater	Sheath Heater
Control System	PID Control			
Power Cord Length	1.3m	1.5m	1.3m	1.5m
Solder Bath Material	SUS316	Cast Iron	SUS316	Cast Iron
Max. Solder Volume	Approx. 5.5kg	Approx. 3.5kg	Approx. 9.5kg	Approx. 7kg
Dimensions	360(W)×124(H)×220(D)mm		450(W)×124(H)×220(D)mm	
Solder Bath Dimensions	91(W)×60(H)×135(D)mm	82(W)×53(H)×110(D)mm	180(W)×60(H)×130(D)mm	173(W)×53(H)×108(D)mm
Weight	5kg	8kg	7kg	11kg

NOTE: The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

POT-100C Heater
POT-100CH

POT-200C Heater
POT-200CH-S

POT-100C Bath (Stainless)
POT-100CP

POT-200C Bath (Stainless)
POT-200CP

POT-103C Heater
POT-103CHA
POT-103CHB

POT-203C Heater
POT-203CHA
POT-203CHB

POT-103C Bath (Cast Iron)
POT-103CP

POT-203C Bath (Cast Iron)
POT-203CP

SOLDER POTS

Economical and erosion-resistant cast-iron bath.



SOLDER POT [cast-iron bath] POT-50C

ACCURATE TEMPERATURE CONTROL
With PID control

DUAL DIGITAL DISPLAY
Shows set-temperature & measured-temperature

CAST IRON BATH
Lead-free solder applicable



- Lead-free applicable bath. Perfect for pre-tinning of transformer leads or small PCBs.
- Accurate PID temperature control. (sensor feedback ON/OFF control available)
- Temperature adjustable up to 500°C.
- Assured temperature control with the digital key-lock function.
- Safety housing design.

SPECIFICATIONS

Model	POT-50C	
Voltage	110V-130VAC 50/60Hz	220V-240VAC 50/60Hz
Power Consumption	470-610W	370-430W
Max. Temp.	500°C	
Heater	Ceramic Heater	
Control System	PID Control	
Power Cord Length	1.5m Inlet type	
Solder Bath Material	Cast Iron	
Max Solder Volume	Approx. 850g	
Unit Dimensions	174(W)×142(H)×285(D) mm	
Solder Bath Dimensions	50(W) × 50(H) × 50(D) mm	
Weight	3kg	

NOTE: The weight does not include the cord.

REPLACEMENT PARTS / OPTIONS

Heater
POT-50CH

Bath
POT-50CP

Temperature control knob for optimal dipping.

SOLDER POT POT-21C/23C/28C



POT-21C

Spatula included.



POT-23C

Spatula included.



POT-28C

Spatula included.

- Zero-cross control drastically reduces output noise (Time-proportioning system).
- LED pilot lamp lights when heater is ON.

NOTE: No sensor feedback system, so temperature may fluctuate +/- approx.10%.

POT-21C	POT-23C	POT-28C
Suitable for pre-tinning of large terminals, urethane wires, connectors, and large lead wires.	Lead-free applicable. No erosion with a ceramic bath. Suitable for pre-tinning of relatively large parts.	Lead-free applicable. Longer life with a cast-iron bath. Suitable for pre-tinning of relatively large parts.

REPLACEMENT PARTS / OPTIONS

POT-21C/23C/28C Heater
POT-21CH

POT-21C Bath
POT-21CP

POT-23C Bath
POT-23CP

POT-28C Bath
POT-28CP

SPECIFICATIONS

Model	POT-21C	POT-23C	POT-28C
Voltage	110V, 120V, 220V, 240V AC 50/60Hz		
Power Consumption	130W		
Bath Temperature	270-530°C		
Melting Time (at max. setting)	Approx. 10 mins.		
Heater	Nichrome Heater		
Control System	Time Proportioning Control		
Power Cord	1.3m		
Solder Bath Material	Stainless Steel	Ceramic	Cast Iron
Solder Capacity	Approx. 300g		
Dimensions	90(W)×87(H)×150(D)mm	90(W)×91(H)×150(D)mm	90(W)×89(H)×150(D)mm
Internal Pot Dimensions	ø36 × 36(D) mm	ø31 × 39(D) mm	ø34 × 32(D) mm
Weight	720g		800g

NOTE: The weight does not include the cord.

DESOLDERING PRODUCTS SERVICE STATIONS

Desoldering in an instant, with reduced solder residue! Combines desoldering gun and temperature-controlled soldering iron in one unit.

SERVICE STATION
SVS-580AS



400% MORE SUCTION CAPACITY
With open-valve mechanism

CERAMIC HEATER WITH INTERNAL SENSOR
A wide range for terminals, connectors and flat ICs

SUPERIOR TEMPERATURE-CONTROL CIRCUIT
To keep the temperature constant during desoldering

ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

SUCTION CAPACITY COMPARISON

The arrow indicates solder residue.

SVS-500AS

SVS-580AS



OPEN-VALVE MECHANISM

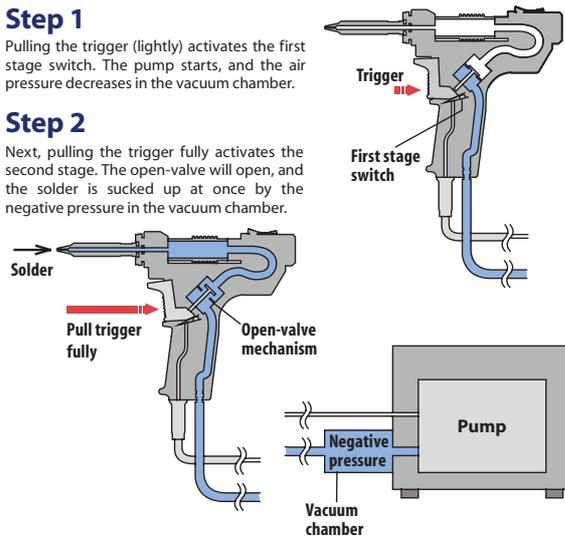
Two-stage trigger switch (PAT.P)

Step 1

Pulling the trigger (lightly) activates the first stage switch. The pump starts, and the air pressure decreases in the vacuum chamber.

Step 2

Next, pulling the trigger fully activates the second stage. The open-valve will open, and the solder is sucked up at once by the negative pressure in the vacuum chamber.



SPECIFICATIONS

MODEL	SVS-580AS
Voltage	110V,120V, 220-240V AC 50/60Hz
Power Consumption	200W (110V,120V) 270-300W (220-240V)
Power Cord Length	1.5m
Temperature Setting Range	Desoldering Unit: 250-450°C Soldering Unit: 200-480°C
Insulation Resistance	Over 100MΩ(500V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08MPa (-600mmHg)
Accessories	Cleaning pin TP-100CP-13 Soldering iron stand ST-76
Total Weight	4.0kg (w/o cord)

CONTROL BOX

Output Voltage	110V,120V, 220-240V AC
Dimensions	205(W) x 170(H) x 160(D) mm
Weight	3.6kg (w/o cord, hose)

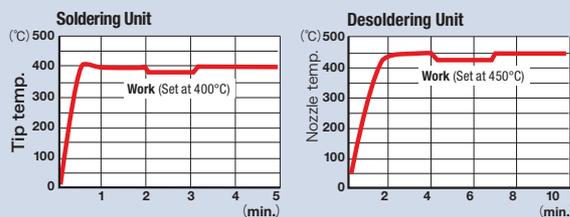
DESOLDERING UNIT

Input Voltage/Power Consumption	110-120V, 220-240V AC 85W
Heater	Ceramic Heater
Cord Length	1.2m
Dimensions	220 x 155mm
Weight	250g (w/o cord, hose)
Standard Nozzle	TP-100N-S5

SOLDERING UNIT

Input Voltage/Power Consumption	110-130V, 220-240V AC 70W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Ceramic heater
Cord Length	1.2m
Length	190mm (with PX-2RT-B w/o cord bushing)
Weight	70g (with PX-2RT-B w/o cord)
Standard Tip	PX-2RT-B

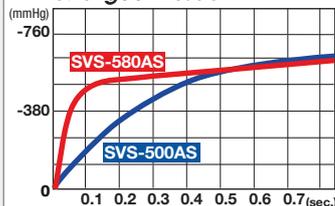
TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES



Desoldering/Soldering time is approx. 2 seconds / 5x5mm land (with PX-2RT-B tip, TP-100N-10 nozzle)

The open-valve allows the device to reach vacuum pressure of -0.06MP (approx. -450mmHg) in only 0.1second. (about 4 times faster than our SVS-500AS).

Vacuum pressure compared with other goot models



For replacement tips, nozzles, and optional parts, refer to p.67

ST-76 soldering iron stand (included)



Combines desoldering gun and temperature-controlled soldering iron in one unit.

SERVICE STATION
SVS-500AS



POWERFUL VACUUM
Everything from through-hole to multi-layered PCB

CERAMIC HEATER WITH INTERNAL SENSOR
A wide range for terminals, connectors and flat ICs

SUPERIOR TEMPERATURE-CONTROL CIRCUIT
To keep the temperature constant during desoldering

REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

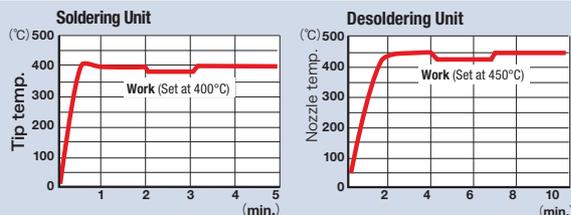
SOLDERING UNIT

- Stable temperature with excellent heat speed & heat recovery.
- Good for a wide range of soldering work, for terminals, connectors, and flat ICs.

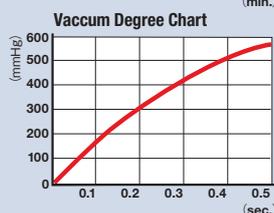
DESOLDERING UNIT

- Built-in powerful and compact twin pump.
- When trigger is pulled, the heater heats up forcibly, reducing temperature decrease.
- After trigger release, the pump operates for approx. 0.5 seconds more, reducing solder clogs.

TIP/NOZZLE TEMPERATURE-RECOVERY FEATURES



Desoldering/Soldering time is approx. 2 seconds / 5x5mm land (with PX-2RT-B tip, TP-100N-10 nozzle)



SPECIFICATIONS

MODEL	SVS-500AS
Voltage	110V,120-130V,220-240V AC 50/60Hz
Power Consumption	200W (110V,120-130V) 270-300W (220-240V)
Power Cord Length	1.5m
Temperature Setting Range	Soldering Unit: 250-450°C Desoldering Unit: 200-480°C
Insulation Resistance	Over 100MΩ(500V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08MPa (-600mmHg)
Accessories	Cleaning pin TP-100CP-07 Soldering iron stand ST-76
Total Weight	4.0kg

CONTROL BOX

Output Voltage	110V,120-130V,220-240V AC
Dimensions	205(W) x 170(H) x 160(D) mm
Weight	3.6kg (w/o cord, hose)

DESOLDERING UNIT

Input Voltage/Power Consumption	110-130V, 220-240V AC / 85W
Heater	Ceramic Heater
Cord Length	1.2m
Dimensions	220 x 155mm
Weight	250g (w/o cord, hose)
Standard Nozzle	TP-100N-10

SOLDERING UNIT

Input Voltage/Power Consumption	110-130V, 220-240V AC / 70W
Ground Resistance	Less than 2Ω
Leak Voltage	Less than 2mV
Heater	Ceramic heater
Cord Length	1.2m
Length	190mm (with PX-2RT-B w/o cord bushing)
Weight	70g (with PX-2RT-B w/o cord)
Standard Tip	PX-2RT-B

For replacement tips, nozzles, and optional parts, refer to p.67

ST-76 soldering iron stand (included)



DESOLDERING PRODUCTS AUTOMATIC DESOLDERING STATIONS

New open-valve mechanism achieves unrivalled vacuum power and start-up speed.

AUTOMATIC DESOLDERING STATION TP-280AS



400% MORE SUCTION CAPACITY
With open-valve mechanism

CERAMIC HEATER WITH INTERNAL SENSOR
A wide range for terminals, connectors and flat ICs

SUPERIOR TEMPERATURE-CONTROL CIRCUIT
To keep the temperature constant during desoldering

ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

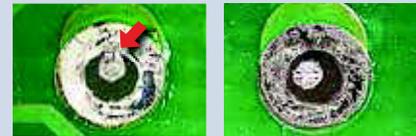
REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

SUCTION CAPACITY COMPARISON

The arrow indicates solder residue.

TP-200AS

TP-280AS



OPEN-VALVE MECHANISM

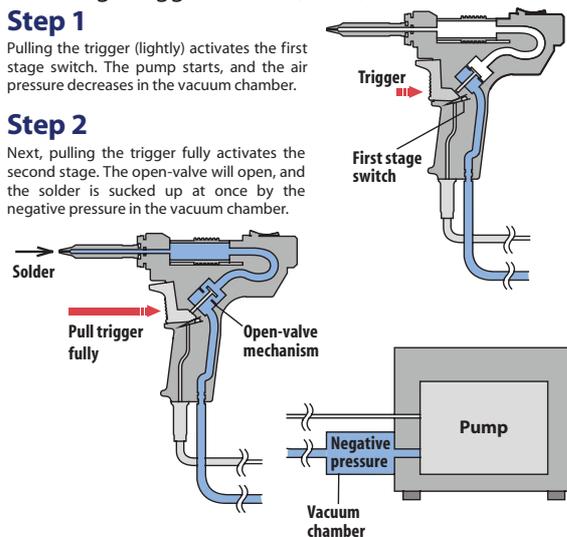
Two-stage trigger switch (PAT.P)

Step 1

Pulling the trigger (lightly) activates the first stage switch. The pump starts, and the air pressure decreases in the vacuum chamber.

Step 2

Next, pulling the trigger fully activates the second stage. The open-valve will open, and the solder is sucked up at once by the negative pressure in the vacuum chamber.



SPECIFICATIONS

MODEL	TP-280AS
Voltage	110V,120V, 220-240V AC 50/60Hz
Power Consumption	130W (110V,120V) 170-200W (220-240V)
Power Cord Length	1.5m
Temperature Setting Range	250-450°C
Insulation Resistance	Over 100MΩ(500V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08MPa (-600mmHg)
Accessories	Cleaning pin TP-100CP-07 Soldering iron stand ST-76
Total Weight	Approx. 2.9kg (w/o cord, hose)

CONTROL BOX

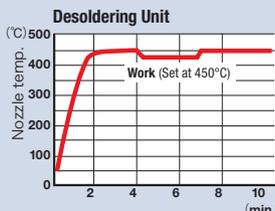
Output Voltage	110V, 120V, 220-240V AC
Dimensions	95(W)x205(H)x256(D)mm
Weight	2.6kg (w/o cord, hose)

DESOLDERING UNIT

Input Voltage/Power Consumption	110-120V, 220-240V AC / 85W
Heater	Ceramic Heater
Cord Length	1.2m
Dimensions	220x155mm
Weight	250g (w/o hose)
Standard Nozzle	TP-100N-S5

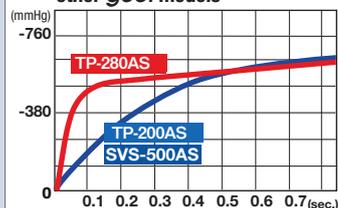
NOZZLE TEMPERATURE-RECOVERY FEATURES

Soldering time is approx. 2 seconds / 5x5mm land (with PX-2RT-B tip)



The open-valve allows the device to reach vacuum pressure of -0.06MP (approx.-450mmHg) in only 0.1second. (about 4 times faster than our TP-200AS).

Vacuum pressure compared with other gool models



For replacement nozzles, and optional partss, refer to p. 67

ST-76 soldering iron stand (included)



Perfect for desoldering through-hole and multi-layered PCBs.

**AUTOMATIC DESOLDERING STATION
TP-200AS**



POWERFUL VACUUM
Everything from through-hole to multi-layered PCB

CERAMIC HEATER WITH INTERNAL SENSOR
A wide range for terminals, connectors and flat ICs

ZERO VOLT SWITCH CIRCUIT
Reduces noise during heater ON/OFF

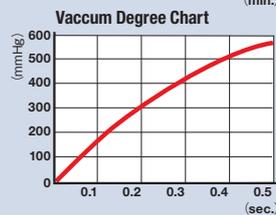
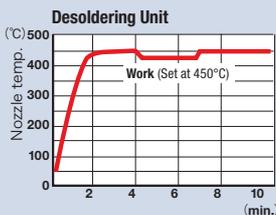
REPLACEABLE CARTRIDGE FILTER
Makes changing the filter easy

POWERFUL VACUUM

- Built-in powerful and compact twin pump.
- When trigger is pulled, the heater heats up forcibly, reducing temperature decrease.
- After trigger release, the pump operates for approx. 0.5 seconds more, reducing solder clogs.

NOZZLE TEMPERATURE-RECOVERY FEATURES

Desoldering time is approx. 2 seconds / 5x5mm land (with TP-100N-10 nozzle)



SPECIFICATIONS

MODEL	TP-200AS
Voltage	110V,120-130V, 220-240V AC 50/60Hz
Power Consumption	130W (110V,120-130V) 170-200W (220-240V)
Power Cord Length	1.5m
Temperature Setting Range	250-450°C
Insulation Resistance	Over 100MΩ(500V DC)
Vacuum Pump System	Diaphragm system
Vacuum	- 0.08MPa (-600mmHg)
Accessories	Cleaning pin TP-100CP-07 Soldering iron stand ST-76
Weight	Approx. 2.9kg (w/o cord, hose)

CONTROL BOX

Output Voltage	110V,120-130V, 220-240V AC
Dimensions	95(W)x205(H)x256(D)mm
Weight	2.6kg (w/o cord, hose)

DESOLDERING UNIT

Input Voltage/Power Consumption	110-130V, 220-240V AC / 85W
Heater	Ceramic Heater
Cord Length	1.2m
Dimensions	220x155mm
Weight	250g (w/o cord, hose)
Standard Nozzle	TP-100N-10

For replacement nozzles, and optional partss, refer to p.67



ST-76 soldering iron stand (included)

SOLDERING SYSTEM
LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS
TEMPERATURE-CONTROLLED SOLDERING STATIONS
TEMPERATURE-CONTROLLED SOLDERING IRONS
HIGH EFFICIENCY SOLDERING IRONS
GENERAL/SPECIAL PURPOSE SOLDERING IRONS
SOLDER POTS
SURFACE MOUNT / SMT PRODUCTS
DESOLDERINGS
SOLDERING ACCESSORIES
SOLDERING WORK MATERIALS
HEATED TOOLS
HAND TOOLS

DESOLDERING PRODUCTS PORTABLE DESOLDERING GUNS

Handy, portable Desoldering Gun with combined temperature-control circuit and desoldering mechanism

PORTABLE DESOLDERING GUNS TP-100/100AS



- POWERFUL VACUUM**
Everything from through-hole to multi-layered PCB
- CERAMIC HEATER WITH INTERNAL SENSOR**
A wide range for terminals, connectors and flat ICs
- ZERO VOLT SWITCH CIRCUIT**
Reduces noise during heater ON/OFF
- REPLACEABLE CARTRIDGE FILTER**
Makes changing the filter easy



TP-100/100AS FEATURES

Easy to Use

Compact design with an internal motor, pump, and temperature-control circuit built into the grip. Portable and efficient.

Powerful Vacuum

Maximum vacuum of -0.08Mpa (-600mmHg). Removes through-hole solder easily.

Variable Temperature Setting

Sensor feedback system allows temperature setting from 250-450°C.

Replaceable Cartridge Filter

Makes changing the filter easy.



Carry case included.



Can be set from 250-450°C.



Anti-static Model
TP-100AS

SPECIFICATIONS		
MODEL	TP-100	TP-100AS
Voltage	110-130V, 220-240V AC 50/60Hz	
Power Consumption	80W (110-130V), 70-75W (220-240V)	
Power Cord Length	1.5m	
Temperature Setting Range	250-450°C	
Insulation Resistance	Over 100MΩ(500V DC)	
Vacuum Pump System	Diaphragm system	
Vacuum	- 0.08MPa (-600mmHg)	
Heater	Ceramic Heater	
Standard Nozzle	TP-100N-10	
Accessories	Cleaning pin TP-100CP-07/ Filter TP-100F	
	Carry case	
	Heat resistant pipe /Stand	
Dimensions	225x170 mm	
Weight	470g (w/o cord)	



Carry case with heat resistant pipe that allows the gun to be stored immediately after use. Also includes stand to rest the gun.

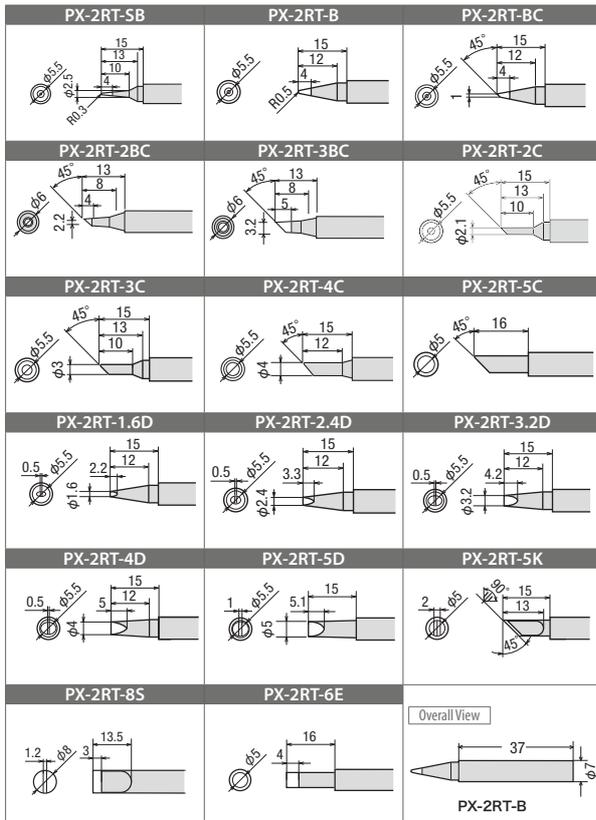


For replacement nozzles, and optional partss, refer to [p.67](#)

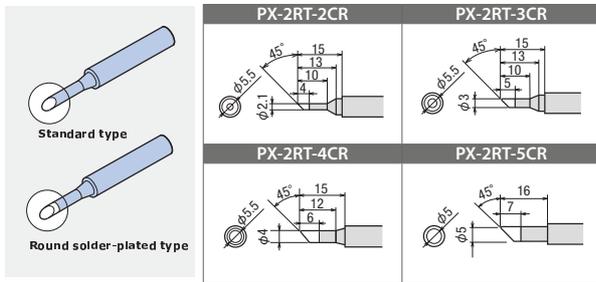
REPLACEMENT TIPS

SVS-800AS/580AS/500AS

RoHS



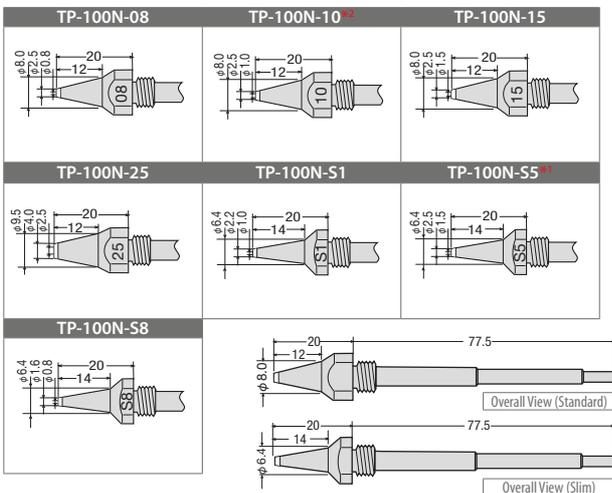
ROUND SOLDER-PLATED TIP



REPLACEMENT NOZZLES

SVS-800AS/580AS/500AS/TP-280AS/TP-200AS/TP-100(AS)

RoHS



*1 Model SVS-800AS, SVS-580AS, TP-280AS Standard Nozzle : TP-100N-S5

*2 Model SVS-500AS, TP-200AS, TP-100(AS) Standard Nozzle : TP-100N-10

REPLACEMENT PARTS / OPTIONS

REPLACEMENT PARTS FOR SVS-800AS/580AS/500AS

*Desoldering Unit for SVS-800AS/SVS-580AS TP-28GAS	Soldering Iron Unit (common for SVS series) SVS-50GAS
Desoldering Unit for SVS-500AS TP-20GAS	Heater for Soldering Iron SVS-500H-1
Heater for Desoldering Gun TP-100H	Heater Barrel for Soldering Iron TQ-77HP(S)
Heater Barrel for Desoldering Gun TP-100HP	Spacer for Soldering Iron TQ-77SS
	Collar for Soldering Iron TQ-77NUT

*TP-28GAS Desoldering Unit is not interchangeable with TP-20GAS (SVS-500, SVS-500AS, SVS-550AS)

REPLACEMENT PARTS FOR TP-280AS/200AS

*Desoldering Unit for TP-280AS TP-28GAS	Desoldering Unit for TP-200AS TP-20GAS
Heater TP-100H	Heater Barrel TP-100HP

*TP-28GAS Desoldering Unit is not interchangeable with TP-20GAS (TP-200, TP-200AS, TP-250AS)

REPLACEMENT PARTS FOR TP-100/100AS

Heater TP-100H	Heater Barrel TP-100HP
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COMMON PARTS

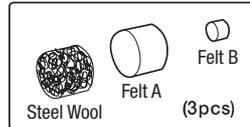
Filter

Filter Set (3pcs) TP-100F	Steel Wool Only (3pcs) TP-100UL
Cartridge Set TP-100K	Felt B (10pcs) TP-100RFT

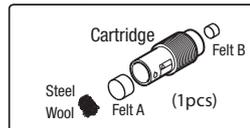
Cleaning Pin Vice

Pin vice body (The drill bit is not included.) TP-100PV	Cleaning Pin $\varnothing 0.7\text{mm}$ (for $\varnothing 0.8$ & 1.0mm nozzle) TP-100CP-07
Drill Bit $\varnothing 0.7\text{mm}$ TP-100DB-07	Drill Bit $\varnothing 1.3\text{mm}$ (for $\varnothing 1.5$ & 2.5mm nozzle) TP-100CP-13
Drill Bit $\varnothing 0.9\text{mm}$ TP-100DB-09	
Drill Bit $\varnothing 1.4\text{mm}$ TP-100DB-14	
Drill Bit $\varnothing 2.4\text{mm}$ TP-100DB-24	

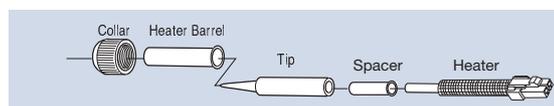
Filter Set TP-100F



Cartridge Set TP-100K



Soldering Iron Unit SVS-800AS, SVS-580AS, SVS-500AS



SOLDERING SYSTEM

LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING STATIONS

TEMPERATURE-CONTROLLED SOLDERING IRONS

HIGH EFFICIENCY SOLDERING IRONS

GENERAL/SPECIAL PURPOSE SOLDERING IRONS

SOLDER POTS

SURFACE MOUNT / SMT PRODUCTS

DESOLDERINGS

SOLDERING ACCESSORIES

SOLDERING MATERIALS

HEATED TOOLS

HAND TOOLS

HAND TOOLS

67

DESOLDERING PRODUCTS DESOLDERING WICKS

RMA base flux. DESOLDERING WICKS CP/CPN series



CONVENTIONAL DISPENSER PACK

●High-quality desoldering wick with braided copper wire, saturated with non-chlorine special flux. ●Can be used for precision PCBs safely.



MODEL	Type	Width	Length
CP-1515	Tubular Knitting	Approx. 1.5mm	Approx. 1.5m
CP-2015	Plain Knitting	Approx. 2.0mm	
CP-2515	Tubular Knitting	Approx. 2.5mm	
CP-3015	Plain Knitting	Approx. 3.0mm	
CP-3515	Tubular Knitting	Approx. 3.5mm	
CP-4515	Tubular Knitting	Approx. 4.5mm	

ECONOMICAL PACKS OF 10PCS

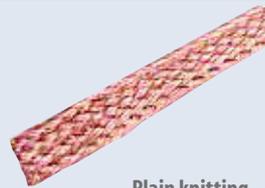
●With convenient zipper bag. ●Contains silica gel to reduce quality degradation.



MODEL	Type	Width	Length
CP-1515-10	Tubular Knitting	Approx. 1.5mm	Approx. 1.5m
CP-2015-10	Plain Knitting	Approx. 2.0mm	
CP-2515-10	Tubular Knitting	Approx. 2.5mm	
CP-3015-10	Plain Knitting	Approx. 3.0mm	
CP-3515-10	Tubular Knitting	Approx. 3.5mm	
CP-4515-10	Tubular Knitting	Approx. 4.5mm	

FOR LEAD-FREE DESOLDERING

Our thin and soft desoldering wire's flat braid has efficient thermal transmission. Removes solder faster with better heat response than previous wicks. Recommended for lead-free solder with high heating load.



Plain knitting

FOR LARGE QUANTITY DESOLDERING

Available in widths of 1.5/2.5/3.5/4.5mm. The wicks are woven cylindrical.



Tubular knitting

DISPENSER PACK WITH STAINLESS STEEL MOUTH

●Can be used for precision PCBs safely. ●Ergonomic design will keep your fingers cool.



MODEL	Type	Width	Length
CP-15Y	Tubular Knitting	Approx. 1.5mm	Approx. 2m
CP-20Y	Plain Knitting	Approx. 2.0mm	
CP-25Y	Tubular Knitting	Approx. 2.5mm	
CP-30Y	Plain Knitting	Approx. 3.0mm	
CP-35Y	Tubular Knitting	Approx. 3.5mm	
CP-45Y	Tubular Knitting	Approx. 4.5mm	

BULK-LENGTH SPOOL

●Bargain extra-long wicks with spool. ●Makes it easy to take anywhere.



MODEL	Type	Width	Length
CP-15B	Tubular Knitting	Approx. 1.5mm	Approx. 30m
CP-20B	Plain Knitting	Approx. 2.0mm	Approx. 30m
CP-25B	Tubular Knitting	Approx. 2.5mm	Approx. 20m
CP-30B	Plain Knitting	Approx. 3.0mm	Approx. 20m
CP-35B	Tubular Knitting	Approx. 3.5mm	Approx. 15m
CP-45B	Tubular Knitting	Approx. 4.5mm	Approx. 13m

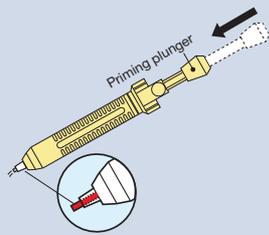
DESOLDERING PRODUCTS DESOLDERING SUCKERS

Manual pumps suck up solder.
Plunger pumps are light, strong, and economical.

DESOLDERING SUCKERS GS series

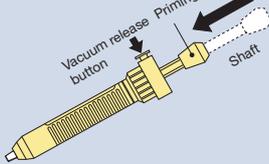
SELF-CLEANING SHAFT

When the plunger is pushed, a piston extends out the nozzle. This prevents solder build-up.



PLUNGER LOCK FUNCTION

The plunger can be stored inside the shaft by pushing it in completely, and pressing the vacuum release button. Compact storage. (w/o GS-20)



GS-100 **RoHS**

SELF-CLEANING SHAFT
To prevent solder clogs

JUMBO SIZE
Large vacuum capacity

PLUNGER LOCK FUNCTION
Portable, compact storage



GS-104 **RoHS**

SELF-CLEANING SHAFT
To prevent solder clogs

PLUNGER LOCK FUNCTION
Portable, compact storage



GS-108 **RoHS**

SELF-CLEANING SHAFT
To prevent solder clogseasy



GS-150 **RoHS**

SELF-CLEANING SHAFT
To prevent solder clogs

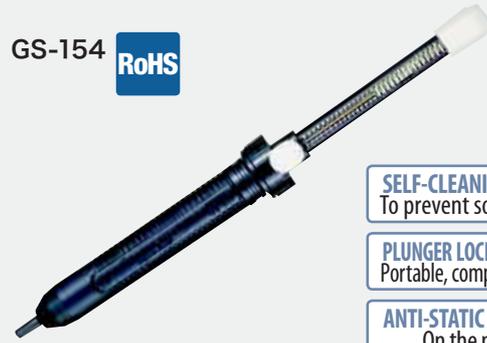
PLUNGER LOCK FUNCTION
Portable, compact storage

JUMBO SIZE
Large vacuum capacity

ANTI-STATIC MATERIAL
On the nozzle



GS-154 **RoHS**



SELF-CLEANING SHAFT
To prevent solder clogs

PLUNGER LOCK FUNCTION
Portable, compact storage

ANTI-STATIC MATERIAL
On the nozzle

GS-158 **RoHS**



SELF-CLEANING SHAFT
To prevent solder clogs

ANTI-STATIC MATERIAL
On the nozzle

SELF-CLEANING SHAFT
To prevent solder clogs

PENCIL SIZE
Compact and Portable

SPECIFICATIONS

MODEL	GS-20	GS-100	GS-104	GS-108
Color	blue		ivory	
Length	155mm	330mm	275mm	190mm
When Stored	-	240mm	205mm	-
Weight	25g	89g	65g	25g
Diameter	ø12mm	ø23mm	ø19mm	ø14mm
Applicable Nozzle	GS-20N		GS-100N	GS-108N

MODEL	GS-150	GS-154	GS-158
Color		Black	
Length	330mm	275mm	190mm
When Stored	240mm	205mm	-
Weight	89g	65g	25g
Diameter	ø23mm	ø19mm	ø14mm
Applicable Nozzle		GS-150N	GS-158N

REPLACEMENT NOZZLES

GS-20N	GS-108N	GS-158N
GS-100N	GS-150N	

SOLDERING ACCESSORIES TWEEZERS

Ideal for assembly work such as soldering PCBs or replacing parts.

PRECISION TWEEZERS [STANDARD]
TS-10

RoHS SST



MODEL	Tip Shape	Length	Weight
TS-10	Standard	Approx. 120mm	Approx. 19g

Longer tip and overall length, best for holding tiny components.

PRECISION TWEEZERS [LARGE]
TS-11

RoHS SST

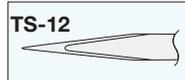


MODEL	Tip Shape	Length	Weight
TS-11	Large	Approx. 140mm	Approx. 15g

Extra-strength tip.

PRECISION TWEEZERS [HEAVY-DUTY]
TS-12

RoHS SST

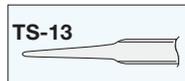


MODEL	Tip Shape	Length	Weight
TS-12	Extra Strength	Approx. 115mm	Approx. 15g

Round tip prevents damage to components.

PRECISION TWEEZERS [ROUND]
TS-13

RoHS SST

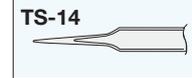


MODEL	Tip Shape	Length	Weight
TS-13	Round	Approx. 120mm	Approx. 19g

Extra-fine tip with sharp and strong edges.

PRECISION TWEEZERS [ULTRAFINE]
TS-14

RoHS SST

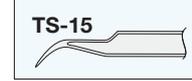


MODEL	Tip Shape	Length	Weight
TS-14	Extra fine	Approx. 115mm	Approx. 17g

Eagle-beak tweezers with 45° bent tip.

PRECISION TWEEZERS [EAGLE BEAK]
TS-15

RoHS SST



MODEL	Tip Shape	Length	Weight
TS-15	Curved	Approx. 120mm	Approx. 15g

Self-closing, reverse action. Ideal for holding parts when soldering.

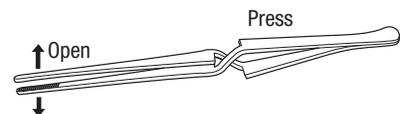
PRECISION TWEEZERS [REVERSE ACTION]
TS-16/17

RoHS SST



TS-16

TS-17



MODEL	Tip Shape	Length	Weight
TS-16	Standard	Approx. 120mm	Approx. 20g
TS-17	Round	Approx. 165mm	Approx. 30g

Protects components from excess heat from soldering iron.

HEAT CLIPS [HEAT SINK]

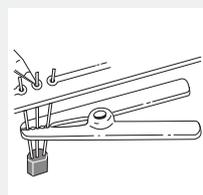
H-1S/1L/2SL

H-1L is suitable for reaching into narrow spaces.

H-2SL is a set of H-1S and H-1L.

RoHS

H-1S



H-1L

MODEL	Material	Length	Weight
H-1S	Aluminum	70mm	4.5g
H-1L		68mm	4.5g
H-2SL		A set of H-1S and H-1L	

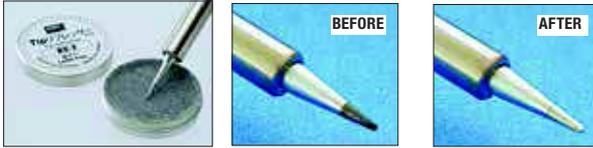
SOLDERING SYSTEM
LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS
TEMPERATURE-CONTROLLED SOLDERING STATIONS
TEMPERATURE-CONTROLLED SOLDERING IRONS
HIGH EFFICIENCY SOLDERING IRONS
GENERAL/SPECIAL PURPOSE SOLDERING IRONS
SOLDER POTS
SURFACE MOUNT / SMT PRODUCTS
DESOLDERINGS
SOLDERING ACCESSORIES
SOLDERING MATERIALS
HEATED TOOLS
HAND TOOLS

SOLDERING ACCESSORIES TIP CLEANER/SOLDERING IRON STANDS

Improves oxidized soldering tips. TIP REFRESHER BS-2



● Removes oxides on tips, re-coats the tip with tin, and restores solder wetting capability.



HOW TO USE

1. Optimal tip temperature for cleaning is 300°C-360°C.
2. Rub the tip in the tip refresher.
3. Apply solder to the tip, and clean the tip with the sponge of the soldering iron stand.
4. Apply solder again. You are finished. If wetting capability is not enough, repeat steps 2 & 3.

MODEL	BS-2
Composition	Ammonium phosphate, Tin Powder
NET Content	9g

No water, so less heat loss. TIP CLEANER ST-40



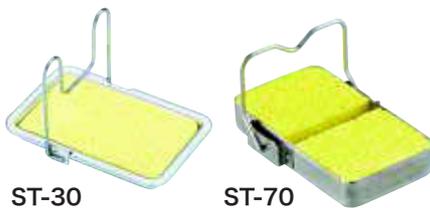
● The holder is made of slip-proof, heat-resistant silicon rubber. Its special shape prevents solder-slag flying around. ● 1 ball of brass wool is included.

MODEL	Width	Height	Weight
ST-40	59mm	60mm	80g

Simple, portable, fold-away cleaner. Can be kept in a tool box.



TIP CLEANERS ST-30/70



MODEL	Width	Depth	Height	Weight
ST-30	57mm	87mm	45mm	35g
ST-70	60mm	110mm	60mm	70g

For any type of soldering iron: nichrome or ceramic. SOLDERING IRON STANDS ST-11/75/75V/76/77



For ceramic-heater soldering iron only

Cannot be used for HRC series



MODEL	Width	Depth	Height	Weight
ST-11	75mm	110mm	130mm	350g
ST-75	102mm	110mm	115mm	410g
ST-75V	110mm	125mm	125mm	480g
ST-76	102mm	110mm	140mm	490g
ST-77	68mm	160mm	148mm	400g

Only for ceramic soldering iron. HRC series compatible



SOLDERING IRON STAND ST-27



MODEL	Width	Depth	Height	Weight
ST-27	72mm	178mm	106mm	485g

REPLACEMENT PARTS / OPTIONS

- ST-11 Sponge ST-11SP
- ST-21/27/53 Sponge ST-53SP
- ST-30 Sponge ST-30SP
- ST-70/75/76/77/75V Sponge ST-70/75SP
- ST-21/27/40 Cleaner (2pcs) ST-40BW

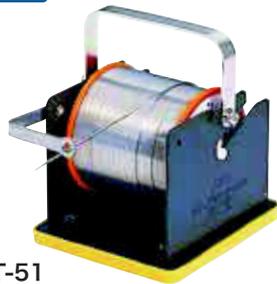
SOLDERING ACCESSORIES SOLDERING IRON STANDS/MAGNIFIERS

Superior stability



SOLDER REEL HOLDERS ST-51/52/53

●Maximum load of 1kg. Heavy base ensures extra stability. Guide spring prevents solder tangle. Comes with carrying handle. Solder is not included.



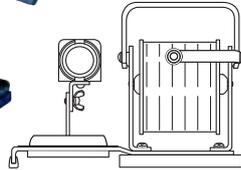
ST-51

ST-53

For ceramic-heater soldering iron only
Cannot be used for HRC series



ST-53 soldering iron stand attaches to either side of the reel holder.



ST-52

●Both the upper and lower spindles can be mounted with up to 1kg solder reels.



MODEL	Width	Depth	Height	Weight
ST-51	92mm	120mm	110mm	620g
ST-52			194mm	870g
ST-53	163mm	150mm	126mm	1100g

3X magnification with a diameter of 90mm acrylic bifocal lens.

MAGNIFIERS ST-91/92/93

Stable base makes safe soldering work.



ST-91



ST-92

ST-93



ST-93 has small & large flexible clips.

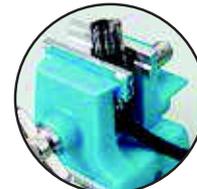


MODEL	Width of Clip	Width	Depth	Height	Weight
ST-91	—	95mm	170mm	190mm	410g
ST-92	105mm	120mm	160mm	130mm	550g
ST-93	200mm	150mm	245mm	280mm	1000g

Rubber suction base easily fixes to any work table.

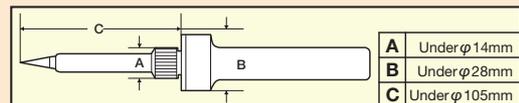
MINI VISE ST-80

Makes soldering work easier by holding small components.



MODEL	Width of Clip	Width	Depth	Height	Weight
ST-80	35mm	80mm	90mm	70mm	110g

Applicable Soldering Iron Dimensions for ST-53/76/77



PERFECT CHOICE OF TIP CLEANER AND IRON STAND

◎ Best ○ Good

Item	Model	Nichrome Type			Ceramic Type				Temperature Controlled	
		KS HOT CA	HP	HRC	CS-21 CS-31	CXR-31 CXR-41	CXR-60 CXR-80 CXR-100	TQ	PX-335 PX-338 PX-342	PX-201 PX-401 PX-501 (AS) PX-601 (AS)
Tip Cleaner	ST-30	○								
	ST-70	○	○							
Soldering Iron Stand	ST-11	◎			○	○	○	○		
	ST-27			◎	◎	◎	◎	◎	◎	◎
	ST-75	◎								
	ST-76						○		○	○
	ST-77					◎	◎	◎	◎	◎

SOLDERING SYSTEM
LEAD-FREE TEMPERATURE-CONTROLLED SOLDERING STATIONS
TEMPERATURE-CONTROLLED SOLDERING STATIONS
TEMPERATURE-CONTROLLED SOLDERING IRONS
HIGH EFFICIENCY SOLDERING IRONS
GENERAL/SPECIAL PURPOSE SOLDERING IRONS
SOLDER POTS
SURFACE MOUNT / SMT PRODUCTS
DESOLDERINGS
SOLDERING ACCESSORIES
SOLDERING WORK MATERIALS
HEATED TOOLS
HAND TOOLS

SOLDERING ACCESSORIES CORE DRIVERS/TOOL SETS

For adjusting high frequency coils. CORE ALIGNMENT TOOLS CD-10

RoHS



5 alignment tools to adjust potentiometers, IFT coils, and high frequency coils. Made of plastic. Can be used safely for high-voltage parts.
NOTE: Not sold individually.

MODEL	SIZE	Length	Weight
CD-1	1.2×0.65 1.4 2.6 2.7 1.5 1.4×0.75	127mm	3.2g
CD-2	1.95 2.6 2.65 2.0 1.9×0.9	141mm	3.1g
CD-3	2.6×1.0 2.65 3.1 3.35 3.15 3.2×1.2	131mm	3.5g
CD-4	2.8×0.3 3.4×0.3	137mm	4.2g
CD-5	⊙ For trimmer potentiometer diam. φ7.8, inner diam. φ5.8	136mm	2.2g

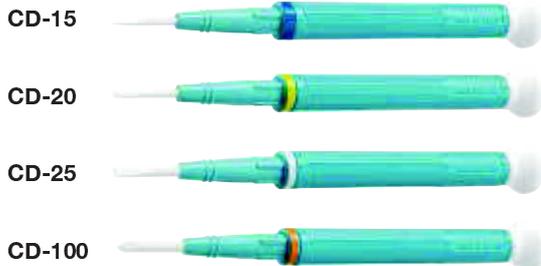
MODEL	Item
CD-10	Core Alignment Tools (5 tools per set)

Best adjusting tool for high-frequency components.

RoHS

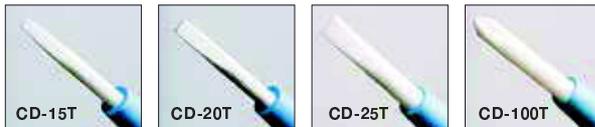
CERAMIC CORE DRIVERS CD series

Non-conductive, anti-magnetic, and long-life screwdriver with zirconia ceramic tip. Best adjusting tool for high-frequency components such as in Tuner, TV, Radio, Transceiver.



MODEL	Length	Weight	Tip size	Tip type
CD-15	115mm	5g	1.3(W) x 0.4(D)mm	CD-15T
CD-20			1.8(W) x 0.4(D)mm	CD-20T
CD-25			2.6(W) x 0.4(D)mm	CD-25T
CD-100			No.0. +	CD-100T

TIP SHAPES



REPLACEMENT PARTS / OPTIONS

Tip for CD-15 (1.3×0.4mm) CD-15T	Tip for CD-20 (1.8×0.4mm) CD-20T
Tip for CD-25 (2.6×0.4mm) CD-25T	Tip for CD-100 (No.0 +) CD-100T

A must-have! MAINTENANCE TOOL SETS TL-10/20



TL-20

No.	Contents	No.	Contents	No.	Contents
1	Cutting nippers	8	Screwdriver (+) No.0	15	Solder assist (Reamer)
2	Pliers	9	Screwdriver (+) No.1	16	Solder assist (Fork & Remover)
3	Cutting pliers	10	Screwdriver (+) No.2	17	Desoldering wick
4	Tweezers	11	Hexagonal wrench 5.5 BOX	18	Tip cleaner
5	Miniature screwdriver (-)	12	Soldering iron	19	Cutter knife
6	Screwdriver (-) 4.0mm	13	Solder	20	File
7	Screwdriver (-) 5mm	14	Desoldering pump	21	Tool bag



TL-10

No.	Contents	No.	Contents
1	Pliers	8	Screwdriver (-) 5mm
2	Cutting nippers	9	Hexagonal wrench 5.5 BOX
3	Tweezers	10	Desoldering wick
4	Miniature screwdriver (-)	11	Tip cleaner
5	Screwdriver (+) No.1	12	Solder
6	Screwdriver (+) No.2	13	File
7	Soldering iron	14	Tool bag

SOLDERING WORK MATERIALS



Industry-standard composition
LEAD-FREE SOLDERS
SF-A series (Rosin core)



Low-Ag type
LEAD-FREE SOLDERS
SF-B series (Rosin core/ Non-rosin core)



Eco-friendly
HALOGEN-FREE LEAD-FREE SOLDERS
SF-N series (Rosin core)



●High-reliability residue after soldering. Wash-free available. Does not intentionally contain halogens. Fewer than 1,000 ppm each of chlorine, bromine, fluorine, and iodine. (JEITA Standards)

LEAD-FREE SOLDERS SF-A series (Industry-standard composition)

MODEL	Composition (Sn-Ag-Cu)	M.T.	Dia.	Length (reference)	Weight	Rosin
SF-A0403	96.5-3.0-0.5	217-220°C	ø0.3mm	107m	45g	Rosin core
SF-A0404			ø0.4mm	60m		
SF-A0406			ø0.6mm	27m		
SF-A0408			ø0.8mm	15m		
SF-A0410			ø1.0mm	10m		

JAPAN PAT.: 3027441 US PAT.: 5527628

LEAD-FREE SOLDERS SF-B series (Low-Ag type)

MODEL	Composition (Sn-Ag-Cu)	M.T.	Dia.	Length (reference)	Weight	Rosin
SF-B1003	99-0.3-0.7	216-227°C	ø0.3mm	225m	100g	Rosin core
SF-B1004			ø0.4mm	127m		
SF-B1006			ø0.6mm	56m		
SF-B1008			ø0.8mm	32m		
SF-B1010			ø1.0mm	20m		
SF-B1012			ø1.2mm	14m		
*SF-B1012N			ø1.2mm	14m		None
SF-B1016			ø1.6mm	8m		Rosin core
*SF-B1016N			ø1.6mm	8m		None
SF-B4006			99-0.3-0.7	216-227°C		ø0.6mm
SF-B4008	ø0.8mm	127m				
SF-B4010	ø1.0mm	81m				
SF-B4012	ø1.2mm	56m				
SF-B8008	99-0.3-0.7	216-227°C	ø0.8mm	253m	800g	Rosin core
SF-B8010			ø1.0mm	162m		
SF-B8012			ø1.2mm	113m		

NOTE: SF-B1012N & SF-B1016N are not rosin core. They require metal-working flux.

LEAD-FREE SOLDERS HALOGEN-FREE SF-N series

MODEL	Composition (Sn-Ag-Cu)	M.T.	Dia.	Length (reference)	Weight	Rosin
SF-N0406	96.5-3.0-0.5	217-220°C	ø0.6mm	27m	45g	Rosin core
SF-N0408			ø0.8mm	15m		
SF-N0410			ø1.0mm	10m		