

goot[®] SERVICE STATION SVS-500AS/SVS-580AS



SVS-580AS

OPERATION MANUAL

Thank you for buying the **goot** Service Station. Read this **Owner's Operation Manual** before using your service station.

NOTE This is a common operation manual for SVS-500AS & SVS-580AS. Each model number is mentioned in the text. Be sure to read properly for your model.

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KEEP THIS MANUAL FOR FUTURE REFERENCE

1. SAFETY MARK DEFINITIONS

In this manual, the following safety marks are used.



WARNING

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



CAUTION

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



NOTE A note or word of advice.

2. FOR SAFE OPERATION

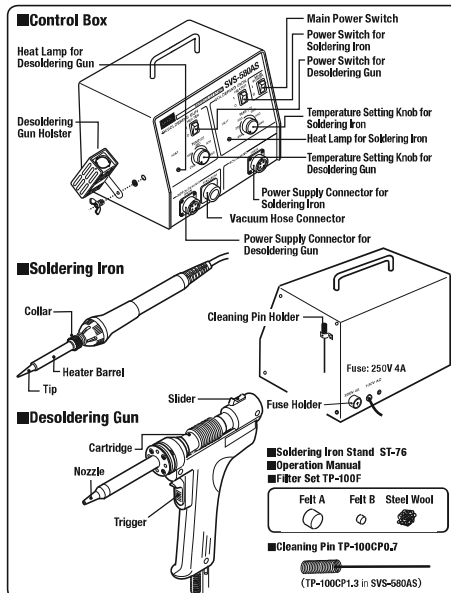
1. Do not use in dangerous environments. Never use it in damp, humid or wet locations (including outside), or near flammable substances.
2. Keep children and bystanders away from the unit.
3. Turn off the power when not in use.
4. Your desoldering station is an electrical tool used to remove solder in order to free components from printed circuit boards. Do not use this for any other purpose.
5. Wear proper apparel and safety glasses.
6. Connect to a correct AC power supply. Do not use with any power voltage other than the indicated voltage.
7. If the power cord, desoldering-gun cord, or soldering-iron cord is damaged, stop using immediately and turn off the power. Return to the distributor for replacement.
8. Be sure to use the ST-76 soldering iron stand included with this Soldering station. Other soldering iron stands may melt the parts of this unit.
9. Make sure that the machine must be grounded at all times to prevent electrical shocks and static electricity.

3. SPECIFICATIONS

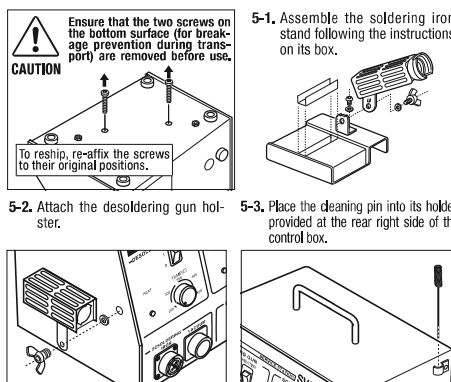
MODEL	SVS-500AS	SVS-580AS
Voltage	110V, 120-130V, 220-240V AC 50/60Hz	
Power Consumption	110V, 120-130V(200W), 220-240V(270-300W)	
Temp. Setting Range	Desoldering Gun Soldering Iron	250-450°C (482-842°F) 200-480°C (392-896°F)
Heater	Ceramic heater with internal sensor	
Temperature Control System	Sensor feedback (ON-OFF control)	
Insulation Resistance	Over 100MΩ	
Vacuum Pump System	Diaphragm system	
Ultimate Pressure	-0.08MPa (-600mmHg)	
Dimensions	Control Box Desoldering Gun Soldering Iron	205 (W) x 160 (L) x 170 (H) mm 220 x 155 mm 190 mm
Weight	Control Box Desoldering Gun Soldering Iron Total	Approx. 3.6kg (w/o cord, hose) 250g (w/o cord) 70g Approx. 4.0kg
Leak Voltage	Less than 2mV	
Ground/Earth Resistance	Less than 2Ω	
Connecting cord length	1.2m	
Power cord length	3-prong cord 1.5m	

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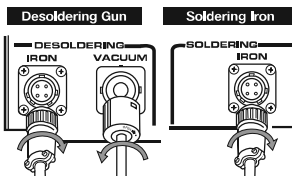
4. PACKAGE CONTENTS / NAMES OF PARTS



5. SETTING



- 5-4. Connect the desoldering gun & soldering iron to the control box. (ex.) SVS-500AS



- 5-5. Put the desoldering gun into its holster, and the soldering iron into its stand.

- 5-6. Check that the main power switch on the control box is OFF (○ side) and then plug in the control box.

WARNING Ensure that the unit is properly grounded to avoid electrical shock. The desoldering gun & the soldering iron are conductive.

- 5-7. Set the desired temperature using the temperature setting knob.

- 5-8. Turn the main power switch ON (to I side). Turn the power switch for desoldering gun and/or soldering iron ON (to I side). The [HEAT] lamp will light up and the heater will start heating up. When the [HEAT] lamp flashes the machine is ready to use. (approx. 2-3 mins)

NOTE Some smoke will be produced from the desoldering gun during initial operation, but it will soon stop. No smoke produced after the initial operation.

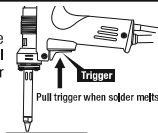
WARNING Never touch the nozzle, tip, or other metal / plastic part. These areas get very hot. Possibly resulting in serious personal injury or damage. Be sure that the nozzle / tip has sufficiently cooled down when storing.

WARNING To prevent fire or personal injury, turn off and unplug the desoldering station if there is a burning smell, overheating, or if the plastic parts deform. Do not use it again and contact your nearest distributor.

6. OPERATION

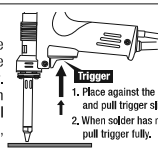
SVS-500AS

Place the nozzle over the leads of the component to be removed. Wait until the solder melts, then pull the trigger for desoldering.



SVS-580AS

Place the nozzle over the leads of the component to be removed. Wait until the solder melts, then pull the trigger slightly. The pump starts operating, and the vacuum is created in the vacuum chamber. Next, pull the trigger more. The open-valve will open, and the solder is pumped.

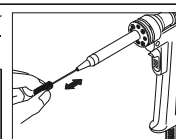


NOTE SVS-500AS After releasing the trigger, the pump will operate for approx. 0.5 seconds more, to pump the collected solder in the nozzle.
SVS-580AS When the vacuum chamber is completely filled, the pump cannot take effect even if the trigger is pulled. In that case, pull the trigger in completely. The open-valve will open, and restore negative pressure in the chamber. Then the pump will operate again.

CAUTION Do not pull the trigger for more than 2 seconds. Wait at least 10 seconds between trigger pulls. Failure to do so could result in the heater or motor overheating.

After desoldering operation, remove any solder scraps on the nozzle by the wetted heat-resistant sponge on the soldering iron stand.

NOTE Clean the nozzle with the cleaning pin frequently during desoldering work. A cleaning drill is an optional part for some nozzle sizes.



When operation is completed, push in and pull out the cleaning pin 3 or 4 times (to reduce nozzle clogs). Lastly, do not fail to put the pretinning on the nozzle tip (to prevent oxidation of the nozzle tip).

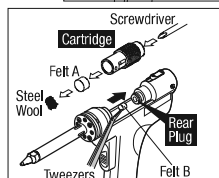
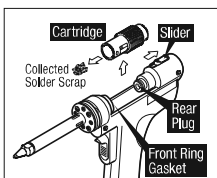
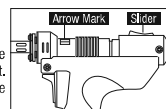
7. MAINTENANCE

WARNING Turn off the main power switch (to ○ side), unplug the power cord before maintenance. And be sure that the nozzle / tip is cooled down.

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

CLEANING AND REPLACEMENT OF CARTRIDGE, FILTER

1. Pull back the slider and take out the cartridge.
2. Remove the solder scraps from the cartridge.
3. Connect the arrow side of the cartridge to the front ring gasket. Return the slider to the front. Make sure that the rear plug goes into the cartridge.

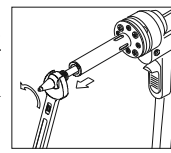


NOTE Do not use this desoldering gun without both felt A and felt B. The pump could be damaged. SVS-580AS: The powerful suction makes many more filter clogs than SVS-500AS. Requires frequent replacing of the filter to maintain desoldering power.

REPLACEMENT OF NOZZLE

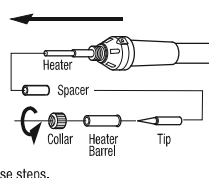
When the clogged collected solder in the nozzle cannot be removed by the cleaning pin or cleaning drill, the nozzle needs to be replaced.

1. Turn the nozzle counterclockwise using a wrench (11mm) and remove it.
2. Replace with a new nozzle. Be careful not to overtighten it.



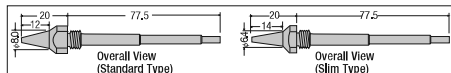
REPLACEMENT OF TIP

1. Remove the collar by turning it in a counter-clockwise direction.
2. Pull out the heater barrel, then pull out the tip from the heater.
3. Be sure that the leaf spring (a rolled metal spring normally stuck inside the tip) is not stuck to the heater.
4. Reassemble with new tip, reversing these steps.



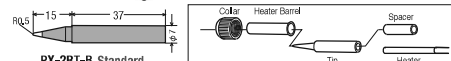
8. REPLACEMENT PARTS

NOZZLE



Part NO.	Gauge	Part NO.	Gauge
TP-100N-08	φ0.8mm	TP-100N-S8	φ0.8mm
TP-100N-10	φ1.0mm	TP-100N-S1	φ1.0mm
(SVS-500AS Standard)		TP-100N-S5	φ1.5mm
TP-100N-15	φ1.5mm	(SVS-580AS Standard)	
TP-100N-25	φ2.5mm		

TIP



REPLACEMENT PARTS

Desoldering Gun	TP-100H
Heater	TP-100HP
Heater barrel	TP-20GAS
Exclusive for SVS-500AS	TP-28GAS
Exclusive for SVS-580AS	TP-100F
Filter Set (3pcs)	TP-100RF
Felt B (10pcs)	TP-100K
Cartridge Set	TP-100K
Steel Wool Only	TP-100UL

WARNING Use this desoldering gun exclusively to prevent the injury or damage.