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Electromagnetic Compatibility
Regular Production Surveillance

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CE

D00672 Desoldering Station

Desoldering Station

1. Description

The desoldering Station designed for lead free desoldering especially. The quick heating and strong power are for convenient and clear soldering / desoldering all types of DIP components.

Reasonable structure, single hand operation and strong absorbing power can be easy removal of the residual solder from the one-sided or two sided of the PCB.

This tool is used in the fields of electronic research, teaching and production, especially in the repairing and desoldering on the electronic appliances and communication equipments.

1.1 Control Unit

The desoldering iron gun is controlled automatically by the micro-processor. The digital control electronics and high-quality sensor and heat exchange system guarantee precise temperature control at the soldering tip. The highest degree of temperature precision and optimal dynamic thermal behavior under load conditions is obtained by the quick and accurate recording of the measured values in a closed control circuit, and this design is especially for the lead-free production technics.

1.2 Desoldering Iron gun

The desoldering iron gun with a power of 80W（Heat up rating 130W）and a wide spectrum of soldering tips（N5 series）can be used anywhere in the electronics field.

The high power and gun type design make this iron gun suitable for fine desoldering work. The heating element is made of PTC and the sensor on the desoldering tip can control the desoldering temperature quickly and accurately.

2. Technical Specification

Code	Voltage supply
89-1511	110~130V
89-1512	220~240V

Spare parts:

Code	Voltage	Power	Name
88-552A	24V	80W	Desoldering Iron gun

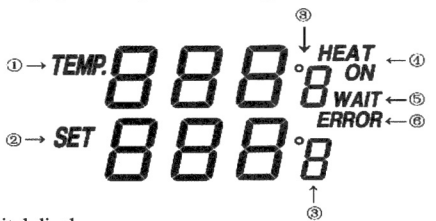
Technical data:

STATION		DESOLDER GUN	
INPUT VOLTAGE	110-130VAC 220-240VAC	VOLTAGE	24V
POWER CONSUMPION	140W	POWER	80W HEAT UP RATING 130W
MAIN FUSE	3.15A	TEMPERTURE	160℃-480℃
ACUUM PRESSURE	600mm Hg	HEATING ELEMENT	PTC CERAMIC HEATER

3. Operating Instruction

3.1 Place the desoldering iron gun in the holder separately. Then connect the plug to the receptacle on the station and turn clockwise to tighten the plug nut. Check that the power supply is corresponding to the specification on the type plate and the power switch is on the "OFF" position. Connect the control unit to the power supply and switch on the power. Then a self-test is carried out in which all display elements are switched on briefly. The electronic system then switches on automatically to the set temperature and displays this value.

3.2 The display and temperature setting



The digital display:

① shows the actual temperature of the desoldering tip .

②shows the setting temperature: Pressing the "UP" or "DOWN" button can switch the digital display to the set point display. The set-point can be changed for ±1℃ by tapping the "UP" or "DOWN" button. Pressing the button will change the set-point quickly. The digital display will return automatically to the actual value and the iron will reach to the setting temperature quickly.

③℃/℉ display: Switching the temperature display from ℃ to ℉ by pressing the "℃/℉" button and then the electronic system will display the actual temperature① and setting temperature② in ℉, and vice versa.

④When the actual temperature on the soldering tip is less than the set-point, "HEAT ON" will display and make the desoldering tip heating up.

⑤When the absolute offset is more than ±10℃ between the actual temperature and the set-point on the soldering tip or the nozzle, "WAIT" will display. It means that the temperature electronic control system is not in the stable situation, we should wait a moment to let the "WAIT" disappear.

⑥When "ERROR" display, there may be a trouble on the system, or the soldering iron is not connected to the control system correctly.

4. Safety Instruction

- The manufacturer assumes no liability for uses other than those described in the operating instructions or for unauthorized alterations.
- The operating instructions and cautions should be read carefully and kept in an easily visible location in the vicinity of the control system. Non-observance of the cautions will result in accidents, injury or risks to health.

5. Caution!

5.1 The power cord only can be inserted in approved power sockets or adapters.

5.2 High Temperature

The temperature of the soldering tip will reach as high as around 400℃(752℉) when the power switch is on. Since mishandling may lead to burns and fire, be sure to comply with the following precautions:

- Do not touch metallic parts near the soldering tip/ nozzle.
- Do not use this system near the flammable items.
- Advise other people in the work area that the unit can reach a very high temperature and should be considered potentially dangerous.
- Turn off the power switch while taking breaks and when finishing using.
- Before replacing parts or storing the system, turn off the power and let it cool down to the room temperature.

5.3 take care of your tools

Do not use the tools for any applications other than soldering or desoldering.

Do not rap the iron against the work bench or otherwise subject the iron to severe shocks.

Do not file the soldering tip to remove the oxide, please wipe the tip on the cleaning sponge.

Use only accessories or attachments which are listed in the operation manual. Use of other tools and other accessories can lead to a danger of injury.

Please turn off the power before connecting or disconnecting the soldering iron.

5.4 Maintenance

Before further use, safety devices or slightly damaged parts must be carefully checked for error-free and intended operation. Inspect moving parts for error-free operation and that they don't bind, or whether any parts are damaged. Damaged safety devices and parts must be repaired or replaced by a qualified technician, so long as nothing else is indicated in the operation manual. Use only accessories or attachments which are listed in the operation manual. Use of other tools and other accessories can lead to a danger of injury.

5.5 Keep children at a distance

Do not allow other persons to touch or disturb the soldering tool or power cord. Keep other persons away from the work area. Unused soldering tools should be stored in a dry location which is out of the reach of children. Switch off all unused soldering tools.

5.6 Protect yourself against electrical shocks

Avoid touching grounded parts with your body, e.g. pipes, heating radiators and so on. The grip of antistatic designed soldering tool is conductive.

5.7 Work environment

Do not use the soldering tool in a moist or wet environment. The soldering iron should be placed on the holder after finished using.

5.8 Observe the valid safety regulations at your work place.

Entlötstation

1. Beschreibung

Die Entlötstation ist besonders für bleifreies Entlöten entwickelt. Die schnelle Erwärmung und die hohe Leistungskraft sind besonders angenehm für sauberes Löten und Entlöten von allen DIP Bestandteilen.

Klare Struktur, einhändige Benutzung und die starke aufnehmende Kraft stellen sicher, dass die restlichen Lösungen von einseitigem oder zweiseitigem PCB entfernt werden können. Dieses Gerät ist geeignet für die Bereiche der Überprüfung von elektronischen Geräten, unterrichten und Herstellung, besonders aber für die Reparatur und Bearbeitung von elektronischen Geräten und Kommunikationsgeräten.

1.1 Anzeigenfeld

Die Entlötpistole wird automatisch von einem Mirkoprozessor kontrolliert. Dadurch, dass die Temperatur digital kontrolliert wird und durch die Verwendung eines qualitativ sehr hochwertigen Sensors, sowie durch das Heizaustauschsystem kann eine präzise Temperatureinstellung für die Spitze des Lötkolbens garantiert werden. Die höchste Temperaturpräzision und ein optimales dynamisches Thermalverhalten während der Benutzung sind erreichbar, da die Daten schnellstmöglich und akkurat von der Steuerschaltung aufgezeichnet werden. Daher eignet sich das Gerät auch besonders hervorragend für Bearbeitungstechniken ohne Blei.

1.2 Entlötpistole

Die Entlötpistole hat eine Wattstärke von 80 Watt (bis zu 130 Watt erhitzbar) und eine breite Auswahl von Lötspitzen (N5-Serie) kann benutzt werden.

Die Leistungsstärke und das schmale Design des Gerätes sind Vorzüge, die feine Lötarbeit zu lassen. Das Heizelement ist aus PTC und der Sensor an der Lötspitze kontrolliert die Temperatur schnell und akkurat.

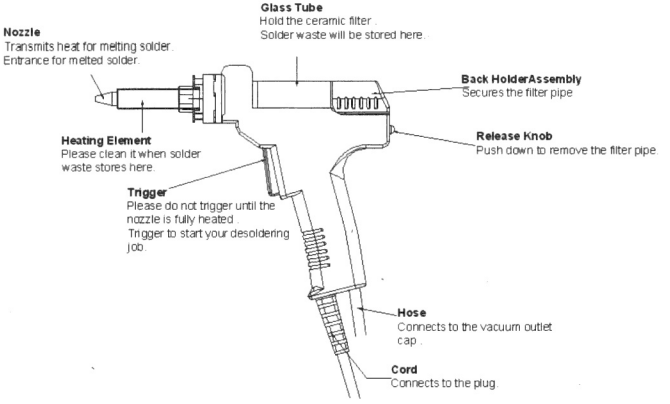
2. Technische Angaben

Voltzahl von 220-240V; Wattzahl 140W; 50 Hz.

3. Bedienungsanleitung

3.1 Stellen Sie Entlötpistole in die Halterung. Schließen Sie den Stecher an den Empfänger der Station on und drehen Sie die Nuss des Steckers im Uhrzeigersinn fest. Überprüfen Sie, dass die Voltzahl des Stromnetzes mit den Angaben des Gerätes übereinstimmen und dass das Gerät ausgeschaltet ist (der Schalter muss auf „OFF“ stehen). Schließen Sie das Gerät an das Stromnetz an, und betätigen Sie den Einschaltknopf. Danach kann der Lötkolben oder die SMD Bearbeitungsstation eingeschaltet werden, in dem Sie den Einschaltknopf betätigen. Das Gerät

Desoldering Gun Maintenance Manual



WARNINGS:

1. Maintain the heated desoldering gun carefully, the high temperature gun will cause fires or painful burns to the body if you are not careful.

2. Always disconnect the mains plug to a socket before any maintenance performance except you do the solder waste removing on the heater and nozzle .

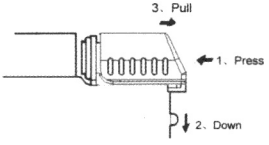
3.Solder waste will be stored in the nozzle and heating element. These solder waste will lower the heating process and reduce the suction efficiency . Should there be a noticeable drop in suction efficiency during operation, please replace the filter and clean the nozzle and heater with the cleaning pin .

4.After use, the solder waste will be stored in the pipe. If you do not clean it on time, the solder waste will block the desoldering gun. This is because, when under high temperature, the solder waste will get oxidated(lead free solder's melting point is 220° C, non-lead free solder's melting point is 180° C), get swelled and stuck on the inner wall tightly, you can not remove it even clean it with cleaning pin.

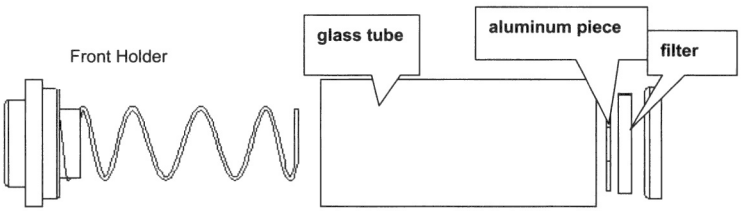
(cleaning pin)

Please follow below steps to remove the solder waste:

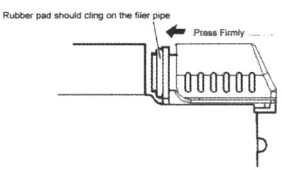
1.Pull the back holder, then the knob will bullet up and become unlocked automatically .



2.Take the spring out from the glass tube ,then remove the solder waste.



3、 Put the spring back to glass tube, then put glass tube back to position.
Press the back holder , then the knob will bullet down and become locked automatically .



INSTRUCTIONS:

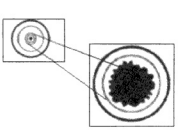
1. After each operation is finished, please idling suck the desoldering gun3-5 times soon, this can clean the solder waste inside the pipe.

2. If the operation interval is about 20 minutes, after idling sucking the desoldering gun, please also use the cleaning tool to clean the pipe.

3. When you find the desoldering efficiency gets down, please use the cleaning Pin to clean the pipe immediately.

4. If the operation interval is long, we advise to adjust the temperature to about 200° C . When you use it again, you can adjust to the working temperature,

5. When the glass tube has absorbed about 1/2 solder waste, please clean it immediately. When you find the filter is getting hardened, please replace the filter immediately.



The Nozzle hole will get enlarged with corrosion.

⚠CAUTION
The Nozzle hole will get enlarged with corrosion.but such phenomona can not be noticed easily. Therefore,if desoldering efficiency goes down and all other parts appear to be OK, the nozzle is probably eroded and should be replaced.