TENMA® 21-19700

DESOLDERING STATION

INSTRUCTION MANUAL

Thank you for purchasing 21-19700 Desoldering Station.
Please read the manual before using the unit.
Keep manual in accessible place for future reference.

⚠CAUTION

Please remember to remove the pump securing screw (M4×10 marked red) from the bottom of the station before using. Failure to do so may cause damage to the unit.

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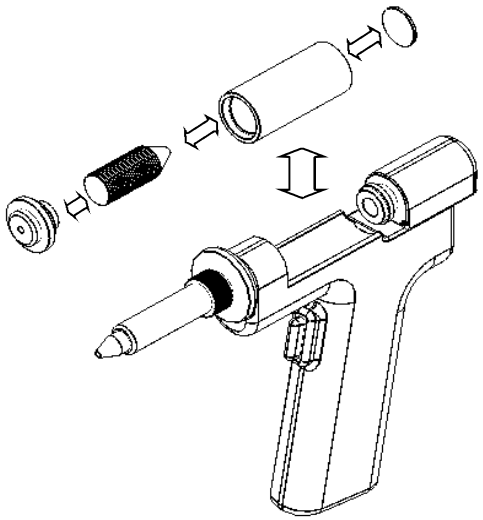
TABLE OF CONTENTS

DESOLDERING GUN MAINTENANCE



After extracting the Filter Barrel Assembly we can now take out the filter spring or the filter pads for cleaning or replacement.

Re-assemble Filter Barrel assembly and place back to the de-soldering gun body.

Push the Filter dock back in place a “click” sound would signify that the filter dock is properly secured.

Using the Cleaning pin:
Caution: Desoldering gun will be hot during maintenance please use proper materials and equipments to avoid injuries.

1. When the suction efficiency has deteriorated the desoldering gun might be clogged. Follow these directions to properly clean the desoldering gun.
2. Turn on the desoldering gun and wait for the nozzle to heat up.
3. Slowly insert the cleaning pin while turning the cleaning pin clockwise.
4. Pull the cleaning pin out in a straight motion.

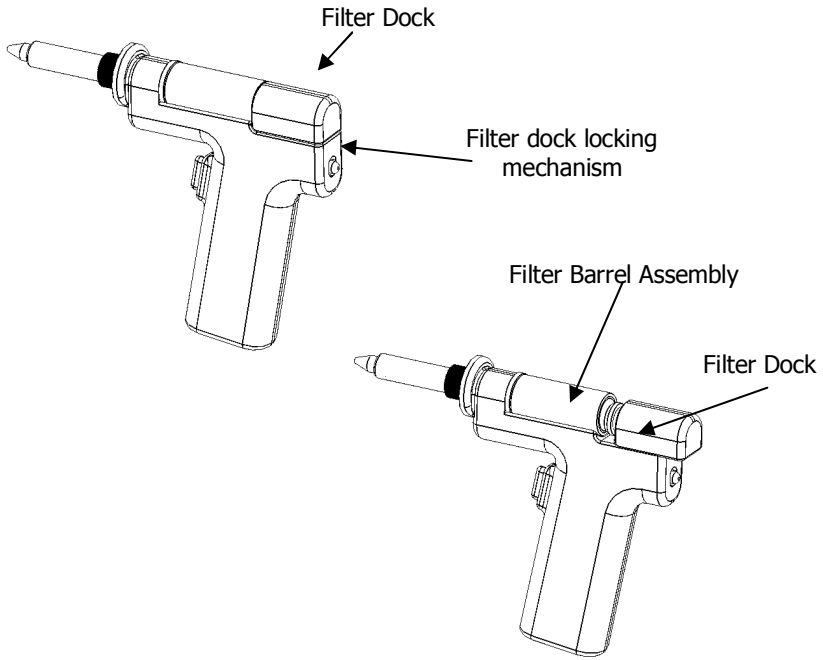
DESOLDERING GUN MAINTENANCE

Changing the nozzle:

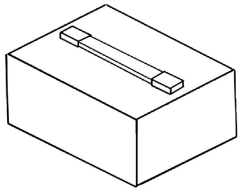
- Unscrew the securing lock and pull out the heater external housing together with the securing lock, the nozzle can now be changed. Re-secure nozzle by tightening the securing lock on its receptacle.

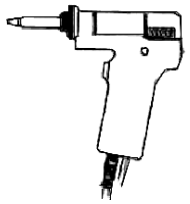
Changing the Filter pad and Filter Spring:

- Unlock the filter dock by toggling the filter dock locking mechanism. The filter dock would push out to allow easy extraction of the filter barrel assembly which houses the filter, filter spring and filter barrel cap.



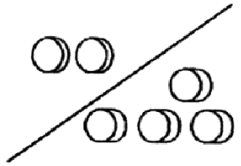
PACKAGE CONTENTS


21-19700 Main Station

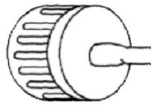

Desoldering Gun


Spring Filter

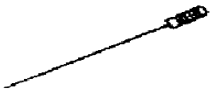

Filter Pipe

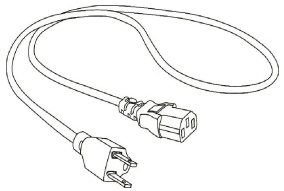

Ceramic Filter Paper

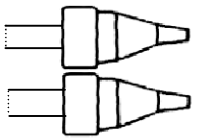

Gun Holder


Vacuum Cover


Cleaning Drill


Cleaning Pin


Power Cord


Desoldering Tips

Silcone Grease and Instruction Manual

CARE and SAFETY PRECAUTIONS

CAUTION: Misuse may cause extensive damage to the unit. For your own safety, be sure to comply with the following precautions.

- Check every component after opening the package whether everything is in good working condition. If there are any damages suspected , don't use the item and contact your dealer.
- Upon using, please make sure that the plug is properly grounded . When moving the unit to another location, besure to turn off the power switch and remove the plug.
- Do not disassemble/modify unit, high voltage pressure inside unit may cause damages.
- Do not allow nozzle tip to touch board directly.
- Unit produces heat, use under ventilated environment.
- Disconnect plug when not to be used for a long period of time.
- Do not strike or subject to physical shock the main unit or any parts of the system. Use carefully and lightly so as not to damage any parts.
- Be sure the unit is grounded. Always connect power to a grounded receptacle.

DESOLDERING GUN MAINTENANCE

General Guidelines:

- Before usage dampen the filter pads with a little bit of water to allow efficient air passage and filter action, re-dampen pads frequently for maximum efficiency.

Filter Pads

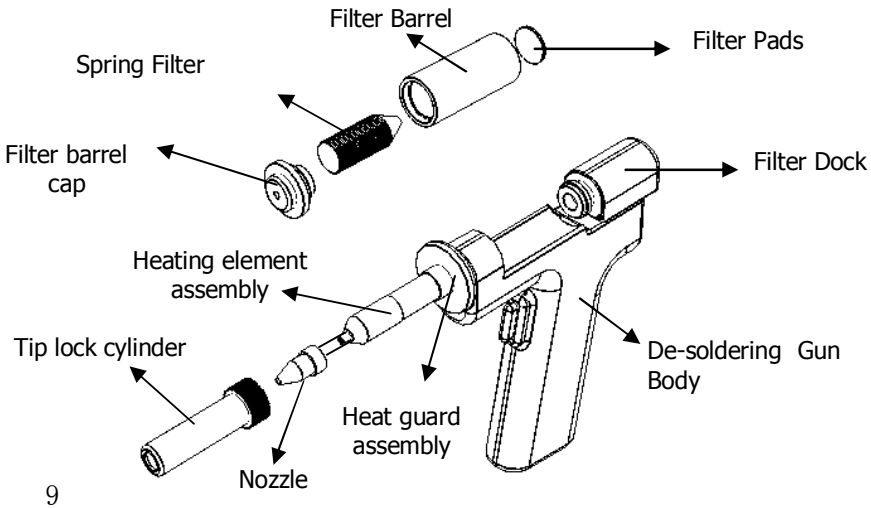
- Routinely clean Spring Filter, and replace filter pads when they are dirty or clogged .

Filter Spring

- The solder pathway can be cleaned using the provided Nozzle cleaning pin, use the cleaning pin when pathway seems clogged.

Nozzle cleaning pin

Disassembled illustration:



OPERATION GUIDELINES

II. Melt the solder

1. Apply the nozzle to the soldered part and melt the solder.
   ** Do not touch nozzle to board.*
2. Try to check the inside of the hole and the backside of the PCB if solder is melted.
3. Try moving the solder using the desolder gun nozzle, if it moves easily then it means that solder is completely melted but do not force it.

III. Absorb the solder

1. After checking that solder is completely melted, position the desolder gun then absorb the solder by pulling the trigger.
   ** Be careful not to leave any solder remain in the hole.*
2. After fully absorbing all the solder, cool the soldering junction in order to prevent it from becoming resoldered.

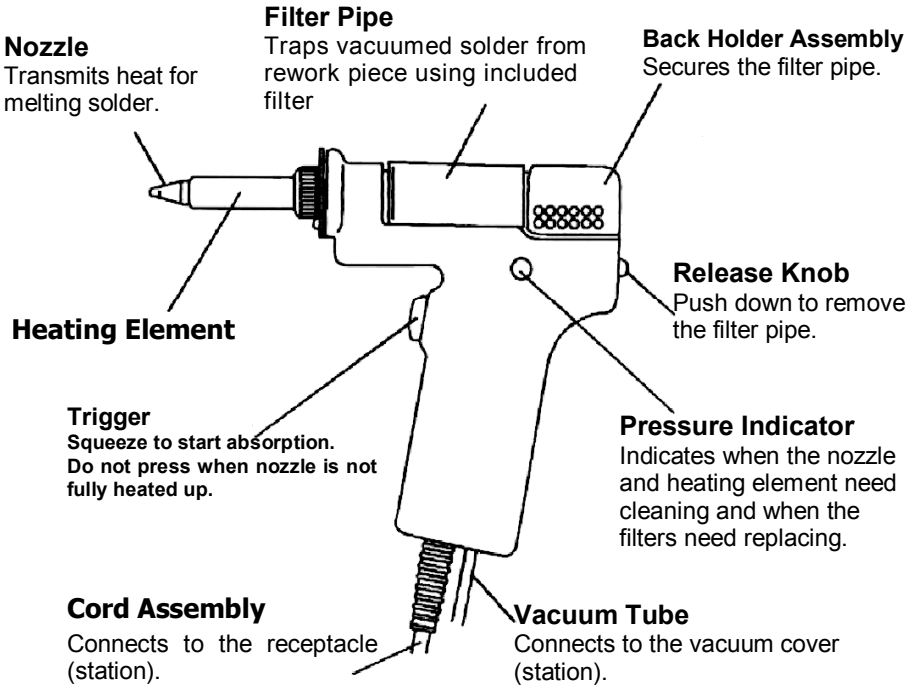
SPECIFICATIONS

Power Input :	Available in 110V / 220V
Power Consumption:	80W (Max)
Temperature Range:	150°C - 380°C
Heating Element:	Heating Element
Output Voltage:	24V
Tip to Ground Resistance:	Below 2 Ω
Tip to Ground Potential:	Below 2mV
Suction Flow:	15 l /min (max)
Vacuum Generator:	Double Cylinder
Vacuum Pressure:	600mm Hg
Station Dimensions:	7.4” x 5” x9.6”
Weight:	11.7 lbs.

FEATURES

- Compact unit with air cylinder type strong suction vacuum pump.
- Suited for multi-layered PCB reworking.
- The heating element and tip are designed closely to guarantee enough temperature during desoldering.

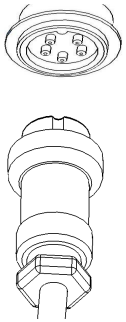
PARTS GUIDE



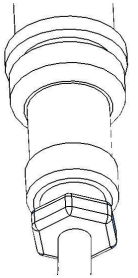
OPERATION GUIDELINES

I. Connections

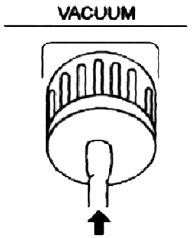
1. Connect the cord assembly of the Desoldering Gun to the receptacle .
2. Connect the tube to the vacuum outlet cap.
3. Connect the power cord.



Insert the cord assemble by keying the plug to the key on the receptacle.



Secure the plug by turning it clockwise.



Fully insert the vacuum tube in the vacuum outlet cap.

NOTE:

- Confirm that the power switch is set to "***OFF***", before connecting the power plug to the power supply
- Check if the *indicator light* lights up when you turn the unit "ON".
- The suction nozzle begins to heat up as soon as the desoldering switch is turned on.
- After turning the switch to ***"ON"***, wait for a few minutes（until suction nozzle fully heats up）before beginning desoldering operations.