

BlackJack SolderWerks BK4000 Repairing System

INSTRUCTION MANUAL

Thank you for purchasing the BlackJack BK4000 Repairing System.
Please read this manual before operating the equipment.
Keep manual in accessible place for future reference.

NOTE: Please remove the screw located at the center of the bottom part of the main unit. This screw holds the pumps in place during shipping. Failing to remove this screw prior to use can cause damage to the unit

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CARE and MAINTENANCE

General Maintenance 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.
- Routinely clean Spring Filter, and replace filter pads when they are dirty or clogged .
- The solder pathway can be cleaned using the provided Nozzle cleaning pin, use the cleaning pin when pathway seems clogged

Replacing the filters:

1. Unlock the filter barrel assembly by toggling the release knob(see illustrations on page 6) . The filter dock would push out to allow easy extraction of the filter barrel assembly which houses the filter pad, Spring filter, Filter barrel body and Filter barrel cap
2. Take out the filter spring or the filter pads for cleaning or replacement.
3. Re-assemble Filter pipe assembly and place back to the de-soldering gun body (see illustrations on page 6) .
4. Push the Filter dock back in place until a “click” sound is heard signifying that the filter dock is properly secured.

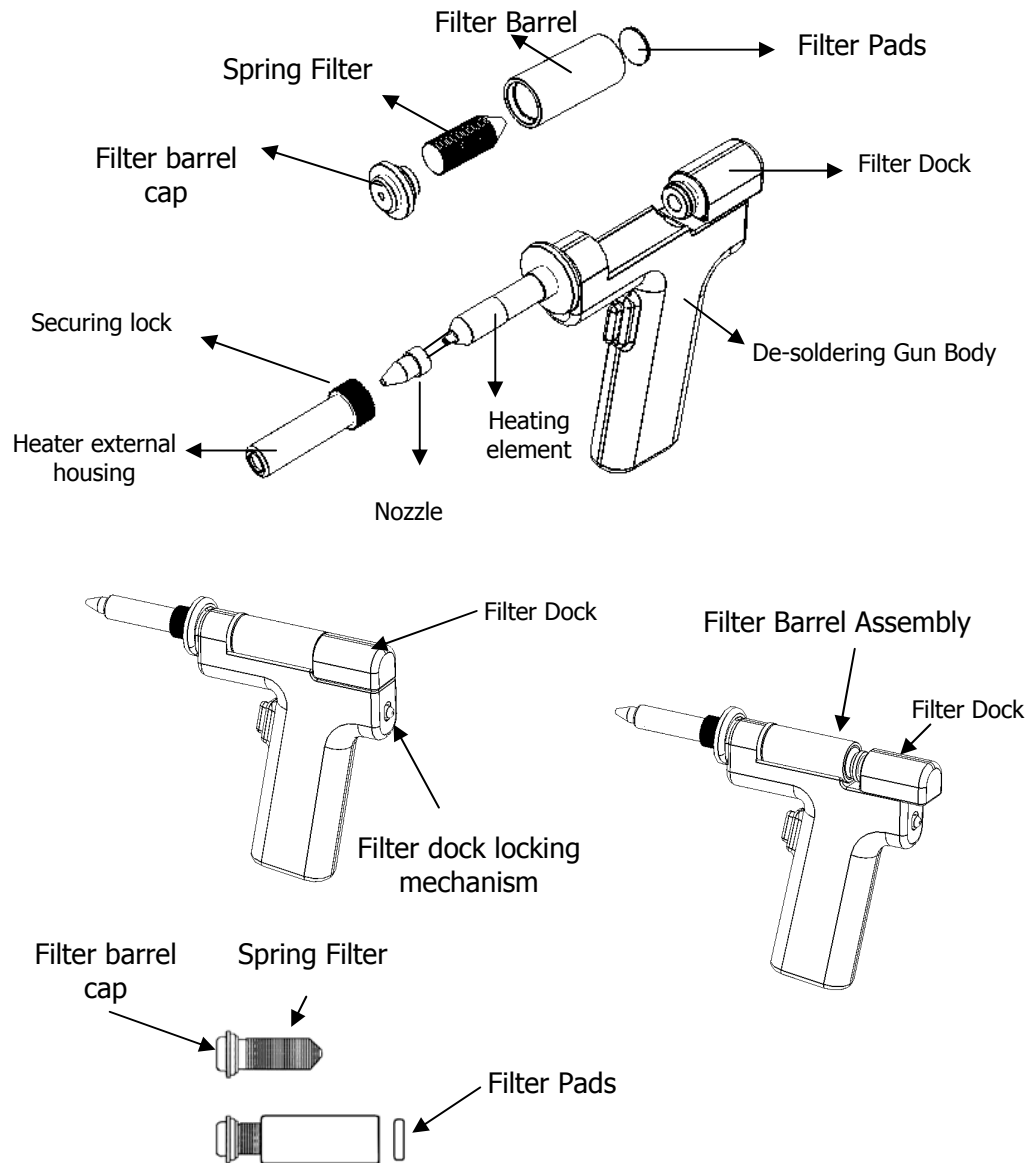
Using Cleaning pin:

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

1. When 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 out the cleaning pin in a straight motion.
5. Repeat steps 3-4 until clog is removed.

ASSEMBLY GUIDE

Gun Assembly:



SPECIFICATIONS

Station Dimensions:	188 (W) x 127 (L) x 244 (D) mm
Power Consumption	70 W (peak)
Temperature Range:	200°C - 480°C
Heating Element	Ceramic Heating Core
Pump/Motor Type:	Double cylinder Diaphragm Pump
Air Suction:	15 l/min (Max)

Specifications are subject to change without prior notice

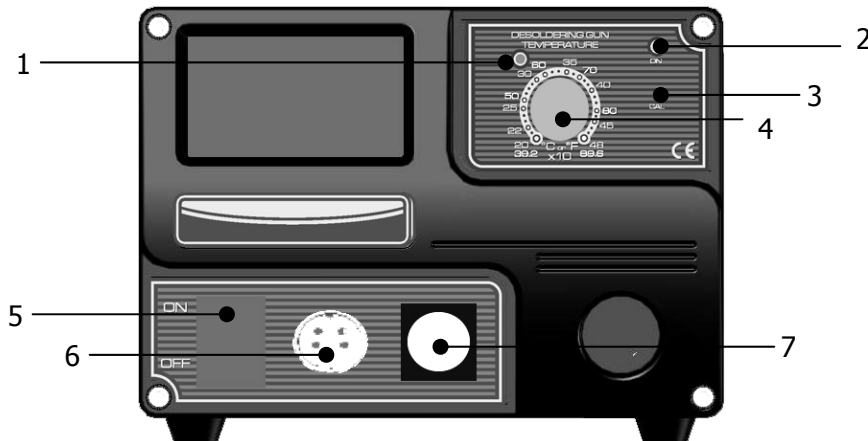
SAFETY PRECAUTIONS

CAUTION:

Improper usage can cause serious injury to personnel and/or damage to equipment. For safety, please follow these precautions:

- Check each component after opening the package to make sure everything is in good condition. Do not use item if visible damage is seen, report the issue to your vendor.
- Power off unit and unplug the device when moving the device from one location to another.
- Do not subject the main unit to physical shock
 - Never drop or sharply jolt the unit.
 - Contains delicate parts that may break if the unit is dropped.
- Always connect power to a grounded receptacle.
- Tip temperature may reach as high as 480°C when switched ON.
 - Do not use the device near flammable materials.
 - Do not touch heated parts which may include tips, nozzles, barrels.
- Disconnect from power source if the unit will not be used for a long periods. Switch off power during short breaks.
- Use only genuine replacement parts.
- Soldering process produces smoke — use on well ventilated place.
- Do not try to alter or repair unit, bring to qualified service center for repairs.

CONTROL PANEL GUIDE



LEGEND:

- 1 Desoldering gun heater lamp
- 2 Power indicator
- 3 Calibrator
- 4 Desoldering gun temperature adjust knob
- 5 Power switch
- 6 Desoldering gun receptacle
- 7 Suction receptacle

IMPORTANT:

REMOVE THE SCREW located at the center of the bottom part of the main unit. This screw holds the pump in place during transportation. Failing to remove the screw before using the equipment can cause damage to the system.

OPERATING GUIDELINES

Please refer to the **CONTROL PANEL GUIDE** page for panel reference.

1. Make sure unit is unplugged and power switched off.
2. Connect the cord assembly of the desoldering gun to its receptacle.
3. Connect the vacuum suction tube to the suction receptacle.
4. Plug unit to AC supply.
5. Turn the Desoldering Gun ON . The Power indicator lamp would light up.
6. The nozzle begins to heat up as soon as the switch is turned ON. While heating up the heater lamp will continuously be lit. The lamp will start to blink when the set temperature has been reached.
7. Adjust knob ("4" from the control panel) to the appropriate desoldering temperature. Always set the temperature to the lowest possible working temperature.
8. Wait a few minutes or until Nozzle is hot enough to melt solder.
9. Keep the nozzle clean. If the tip of the nozzle is coated with oxide, the nozzle's heat conductivity will be lowered.
10. Always place the desoldering gun in its holder when not in use.
11. Apply the nozzle to the solder until the solder melts.
12. Never allow the nozzle to touch the Board itself.
13. Confirm that the solder is melted, to confirm that all the solder is melted, observe the inside of the hole and the backside of the PCB. If this is difficult to do, try slowly moving the lead with the nozzle-if the lead moves, the solder is melted.
14. Never move the lead by force .If it doesn't move easily, the solder is not fully melted.
15. After confirming that the solder is completely melted, absorb the solder by squeezing the trigger.
16. Never leave any solder remaining inside the hole in the PCB.
17. After fully absorbing all the solder ,cool the soldering junction in order to prevent it from becoming re-soldered.
18. If solder remains, re-solder the component and repeat the desoldering process.