

POWERED BY
COLD HEAT™

Limited Warranty Information

We warrant this product to be free from defects in workmanship or material for a period of 90 days from date of purchase. During the warranty period such defects will be repaired or will be replaced, at our option, without charge. This warranty does not cover damage through accident or misuse.

ALL IMPLIED WARRANTIES, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF FITNESS AND MERCHANTABILITY, ARE HEREBY LIMITED IN DURATION TO A PERIOD ENDING 90 DAYS FROM THE DATE OF PURCHASE.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you. This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

Repair or replacement will be made at our option if this product is returned postpaid along with the original dates sales receipt and \$7.95 for return postage and handling to:

Cold Heat Consumer Products LLC
12154 Montague Ave.
Pacoima, CA 91331

*Protected by U.S. Patent number 6,646,228.
Other U.S. and foreign patents pending.
Please look for more information about this product at www.coldheat.com.*

Accessories

The patented Split-Tip™ soldering tips are replaceable, and can be easily removed by gently pulling on the tip's black housing. The Split-Tips™ come in various shapes and may perform differently within each type of application. Look for other shapes that may be more functional for your project at www.coldheat.com.

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Cordless Soldering Tool Powered by Cold Heat™

Thank you for purchasing the Cold Heat™ soldering tool. The Cold Heat™ tool's patented technology creates the heat you need to solder within seconds, and its cordless design lets you operate it anywhere.

The patented Split-Tip™ combines unique material properties into two electrically insulated electrodes that form part of an internal electrical circuit. When the tip's two electrodes make simultaneous contact with an electrically conductive material such as the work piece (wire lead, terminal, solder, PCB pad, or other material), this circuit is completed and the high-resistance electrodes generate instantaneous heat at the tip. The heat is then rapidly transmitted to the work piece to complete the quickest soldering joint possible.

Battery Installation & Replacement

The Cold Heat™ tool uses four replaceable AA alkaline batteries (not included). A battery polarity diagram (+/-) is located to the left of the battery compartment.

Please note: Use replaceable AA alkaline batteries. Rechargeable batteries are not recommended.

To insert or change the batteries:

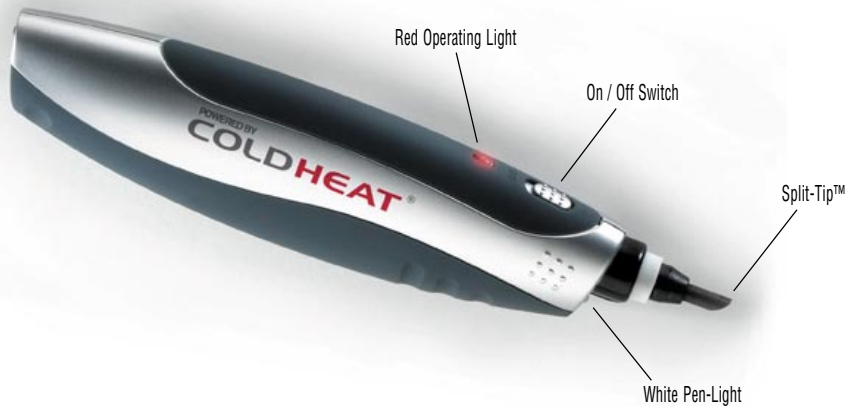
1. Loosen the two screws located on the battery compartment cover (bottom grey section) of the tool.
2. Remove the battery compartment cover by grasping it and gently moving it away from the rest of the unit.
3. Insert or replace batteries according to the polarity diagram (+/-) on the tool.
4. Replace the battery compartment cover prior to use.

Battery Notes

- Do not mix old and new batteries.
- Do not mix alkaline, standard (carbon-zinc) or rechargeable (nickel-cadmium) batteries.
- Remove batteries if not using the soldering tool for an extended period of time.
- Dispose of batteries promptly and properly.

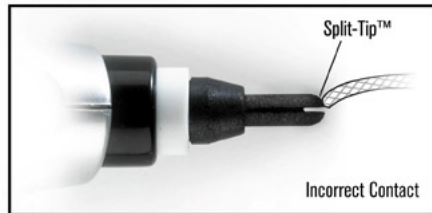
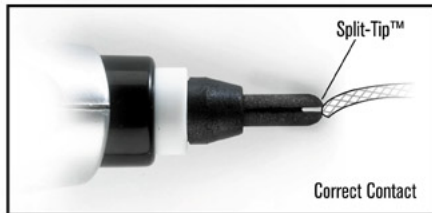


Operation



When you first open the Cold Heat™ tool's case, the tip lies in a separate compartment, and a translucent cap protects the electrical contacts at the front end of the tool. Remove the protective cap, and insert the tip by pushing it into the tool using the tip guidance system located at the end of the tool.

1. Slide the ON/OFF switch on top of the tool to ON. The white light illuminates, and although the tip is still cool, your tool is now ready to solder.
2. To heat the tip, gently place it against the electrically-conductive work piece so that both tip electrodes make solid contact with the work piece; then add solder. If the tip is placed correctly, the red light illuminates and the tip will create heat almost instantly, allowing for clean solder flow and the formation of a smooth joint. A slight spark may occur at the tip during soldering.



Caution: Do not press hard. Excessive pressure does not improve performance and may break the tip. If the tool is not supplying the required heat, the tip electrodes are not both making contact with electrically-conductive material. Reposition the tool for better contact until the red light turns on.

3. When the joint is complete, remove the tip from the work piece. The tip should cool off to touch safe temperatures within one to five seconds, depending on the length of your soldering process.

The Cold Heat™ soldering tool displays a white light and a red light that indicate the tool's operating status, as follows:

White Light	Red Light	Meaning
OFF	OFF	The tool is shut off. No electrical current is present.
ON	OFF	The tool is ready to solder. The tip is cool.
ON	ON	The tool is soldering and the tip is hot.

Soldering Technique

Below are a few operational tips intended to improve your soldering technique with the Cold Heat™ tool:

- The smaller the joint, the quicker the tip will heat and the joint will form. Small joints do not require lengthy application of heat to the work piece; larger ones may.
- If you are having trouble establishing electrical contact between the Split-Tip™ electrodes and the work piece, tilt the tip so that it touches the work piece at an angle. The red light will turn on when the tip makes correct contact with the work piece. A few minutes of practice will go a long way in ensuring that you enjoy your Cold Heat™ tool. Remember: light-handed operation will prolong the life of your tip and create better joints.
- Users more experienced with the soldering process will recognize that the Split-Tip™ eliminates the need for tinning and does not wet. The tips can also be used for desoldering with wick.
- The tool is intended for hobby or light professional use in electrical projects with medium-sized components, such as wiring, small jewelry repairs, and larger printed circuit boards and components. We do not recommend it for soldering temperature-sensitive or very small electronic components. Please check the technical specifications of the electrical or electronic component to be soldered if you have any doubts about your applications.
- When soldering electronic components with small pin-out, do not bridge two or more different pins with the opposite halves of the Split-Tip™. Doing so will cause a current discharge into the part and may damage it.
- Occasionally a piece of solder may become fixed in the gap between the Split-Tip™ electrodes. It should generally melt away; if it does not and it becomes cumbersome, shut the unit off, and then use a thin, non-conductive material to wedge it out. Any other metallic parts fixed in the gap should be removed with care, as the tip may become hot during this operation. Be sure the tool is off while performing this procedure.
- Turn off the tool when not in use. Extended use of the white light will diminish battery life.
- We recommend that you replace the batteries after no more than 750 joints or as needed to maintain high performance for your tool.

Precautions

- Keep out of reach of children.
- The tip temperature rises quickly during prolonged contact between the tip and the work piece, and may cause damage. Do not leave the tip on the work piece for more than a few seconds at a time. Excess smoke may indicate that the flux in the solder is melting, which is a sign that the tip temperature is too high.
- After you have applied solder to several joints or applied it to a work piece for a long time, the tip may take several seconds or longer to cool down to touch-safe temperatures.
- Do not touch the tip during active operation (indicated by the red light) and allow the tip to cool before touching it. Ensure that the tip is cool before replacing the cap.
- For proper storage, turn the switch off, replace the cap onto the tool, and store it in the case. A switch left on may allow the tool to inadvertently start creating heat.
- The Split-Tip™ is fragile. Use it with care and do not apply unnecessary pressure on it.
- Do not store the tool in high-temperature environments, as this can damage the batteries and electrical parts.
- Do not attempt to repair the Cold Heat™ soldering tool, as this will invalidate the product warranty.
- Flux fumes from soldering and desoldering can be harmful, especially when using lead-based solder. Chemicals resulting from the processes of soldering or desoldering are considered possible causes for cancer, birth defects, and other reproductive harm. Please use proper ventilation, use caution and common sense, and become educated about the soldering process.
- Do not operate near flammable or explosive materials.