

CORDLESS SOLDERING IRON



COMPONENTS

A	Soldering Tip (replaceable)	F	Battery Indicator
B	Work Lights (2 x LEDs)	G	Charge Port
C	Temperature Indicator LEDs	H	Stand
D	Power Button	I	Tip Cleaning Sponge
E	Touch Sensor	J	USB Charging Connector Lead
		K	Solder wire x 2

PRODUCT SPECIFICATIONS

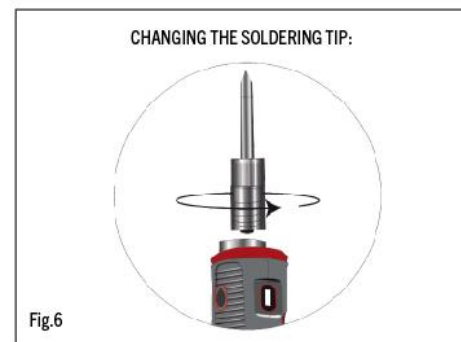
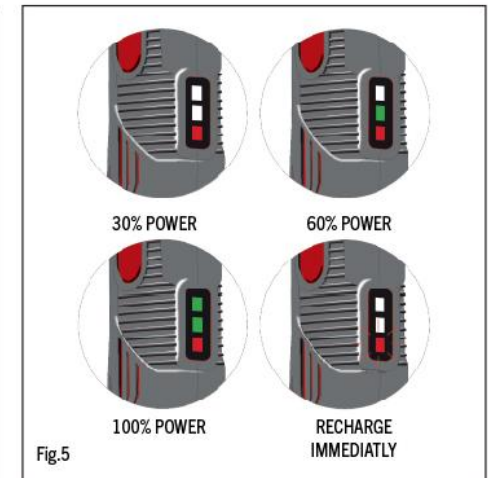
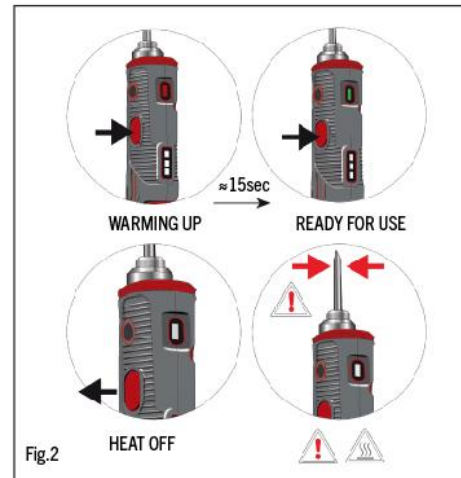
Integrated Lithium battery:	3.7V 1800mAH
Charge time:	1.5 hours (approximately)
Charging method:	USB (PC, laptop, or USB mains adaptor)
Rated voltage:	5V DC
Rated power input:	8W
Max temperature	480°C (900°F)
Max continuous working time:	1 hour
Auto shut-off	Approximately 2 minutes

NEED ASSISTANCE?

Call us on our toll-free customer support line:

1-866-349-8665 (Monday-Friday 9am-5pm Eastern Standard Time)

- Technical questions
- Replacement parts
- Parts missing from package



GENERAL POWER TOOL SAFETY WARNINGS

Warning! Read all instructions. Failure to follow all instructions listed below may result in electric shock, fire and/or serious injury. The term “power tool” in all of the warnings listed below refers to your mains operated (corded) power tool or battery operated (cordless) power tool. Save these instructions.

1) Work area

- a. Keep work area clean and well lit. Cluttered and dark areas invite accidents.
- b. Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquids, gasses, or dust. Power tools create sparks which may ignite the dust or fumes.
- c. Keep children and bystanders away while operating a power tool. Distractions can cause you to lose control.

2) Electrical safety

- a. Power tool plugs must match the outlet. Never modify the plug in any way. Do not use any adapter plugs which earthed (grounded) power tools. Unmodified plugs and matching outlets will reduce risk of electric shock.
- b. Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges, and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.
- c. Do not expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.
- d. Do not abuse the cord. Never use the cord for carrying, pulling, or unplugging the power tool. Keep cord away from heat, oil, sharp edges or moving parts. Damaged or entangled cords increase the risk of electric shock.
- e. When operating a power tool outdoors, use an extension cord suitable for outdoor use. Use of a cord suitable for outdoor use reduces the risk of electric shock. Always use tool in conjunction with a residual circuit breaker device.
- f. If operating a power tool in a damp location is unavoidable, use a Ground Fault circuit interrupter (GFCI) protected supply. Use of a GFCI reduces the risk of electric shock

3) Personal safety

- a. Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use a power tool while you are tired or under the influence of drugs, alcohol, or medication.

A moment of inattention while operating power tools may result in serious personal injury.

- b. Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hard hat, or hearing protection used for appropriate conditions will reduce personal injuries.
- c. Avoid accidental starting. Ensure the switch is in the off position before plugging in. Carrying power tools with your finger on the switch or plugging in power tools that have the switch on invites accidents.
- d. Remove any adjusting key or wrench before turning the power tool on. A wrench or a key left attached to a rotating part of the power tool may result in personal injury.
- e. Do not overreach. Keep proper footing and balance at all times. This enables better control of the power tool in unexpected situations.
- f. Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing, and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

4) Power tool use and care

- a. Do not force the power tool. Use the correct power tool for your application. The correct power tool will do the job better and safer at the rate for which it was designed.
- b. Do not use the power tool if the switch does not turn it on and off. Any power tool that cannot be controlled with the switch is dangerous and must be repaired.
- c. Disconnect the plug from the power source and /or the battery pack from the power tool before making any adjustments, changing accessories, or storing power tools. Such preventive safety measures reduce the risk of starting the power tool accidentally.
- d. Store idle power tools out of the reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Power tools are dangerous in the hands of untrained users.
- e. Maintain power tools. Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the power tools operation. If damaged, have the power tool repaired before use. Many accidents are caused by poorly maintained power tools.
- f. Use the power tool, accessories, and tool bits etc. In accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from that intended could result in a hazardous situation.

5) Service

- a. Have your power tool serviced by a qualified repair person using only identical replacement parts. This will ensure that the safety of the power tool is maintained.
- b. Caution! The use of any accessories or additional tools other than those recommended in this manual may lead to an increased risk of injury. Only use original replacement parts.

SPECIFIC SAFETY WARNINGS

- a) Avoid serious burns. This soldering iron reaches extremely high temperatures. Do not point the tool or turn toward a bystander while soldering.
- b) Wear protective eye wear to avoid injury from splashes and soldering fumes
- c) Do not open soldering iron. This tool must be repaired by a qualified service technician.
- d) To prevent electric shock, always de-energize any circuits or wires to be soldered before making connections and soldering.
- e) Exposure to soldering fumes is harmful and can increase the risk of developing certain cancers and diseases. Keep head out of fumes. DO NOT breathe soldering fumes. Use only in a well-ventilated area.
- f) Never lay a hot soldering iron on any surface where contact with flammable materials is possible.
- g) Maintain labels and nameplates on the tool.
- h) Wash hands after use.
- i) Do not touch the hot soldering tips and keep them away from flammable objects.
- j) After the soldering process, the soldering tool and the workpiece holder are still hot.
- k) Risk of burning through liquid solder.
- l) Keep explosive and flammable objects well away from the device.
- m) Only replace solder tips when cold



This symbol designates that this tool is listed with U.S. and Canadian requirements by cTUVus Testing Laboratories, Inc.
 UL 499:2014/R:2022-05
 CSA C22.2 No. 60335-1:2016
 CSA C22.2 No. 60335-2-45:2014

SAVE THIS USER MANUAL**⚠ WARNING**

MISUSE or failure to follow the safety rules stated in this instruction manual may cause serious personal injury.

TOOL CHARGING AND SAFETY

⚠ WARNING: If the integrated lithium-ion battery in the tool no longer charges properly or is damaged, the tool must not be discarded as household trash, burnt, or thrown into water. The tool must be disposed of as hazardous waste in accordance with all municipal requirements.

Do not incinerate. The tool may explode in a fire.

Charge the tool only with the USB Charging Connector Lead supplied for this tool.

For best results, charge the tool when the temperature of the tool and the work area is at or above 0° C (32° F) and below 45° C (113° F).

⚠ WARNING: Use only the specified USB Charging Connector Lead supplied with the tool. Using any other charging system may damage the integrated battery and possibly cause serious injury.

Charging the Tool

1. Plug the end of the charging cable into the matching receptacle on the base of the soldering iron handle.
2. Plug the charging cable into any USB port such as computer, cell phone charger, cube or even car. The LED lights (3) on the handle will light up and flash while the tool is charging. See Fig. above for charge light functions and meanings.

NOTES:

a) If the LED lights do not glow when the USB plug is inserted into the USB port, it means that USB port is not "live".

b) The time to fully charge a depleted tool will vary depending upon the output of the USB device being used to charge the integrated battery. This can vary from 1.5 to 5 hours or more.

OPERATING

Tinning The Tip

Before soldering, prep the soldering iron by tinning the tip. Tinning is the process of covering the tip with a thin layer of solder. This process will help improve the heat transfer from the soldering iron to the item being soldered. Tinning will also help to protect the tip, reduce wear, and extend the life of the tip by reducing oxidation. Tin tips before and after each soldering session, as well as in between soldering every two to three joints. Keep the tip tinned at all times, from the first time it is used until it is discarded.

- Ensure the tip is attached to the iron and securely tightened in place.
- Heat soldering iron. If using a soldering station with an adjustable temp control, set it to 400° C/ 752° F.
- Wipe the tip of the soldering iron on a damp sponge to clean it. Wait a few seconds to let the tip heat up again before proceeding to next step.
- Hold the soldering iron in one hand and solder in the other. Touch the solder to the tip of the iron and make sure the solder flows evenly around the tip.
- The tip should appear shiny.
Begin soldering as soon as the “tinning” is completed.

Soldering

- Turn the iron on to heat the tool.
- Tin the soldering iron tip as described above.
- Put the soldering tip to the joint or components to be soldered. Hold the soldering iron there for 3-4 seconds to heat the joint
- Continue holding the soldering iron to the joint to be soldered and then touch the solder to the joint. **IMPORTANT-** Do not touch the solder directly to the tip of the iron. The joint must be hot enough to melt the solder when its touched. If the joint to be soldered is too cold, it will form a bad connection.

- Apply solder to the joint until it is fully coated.
- Remove the iron and let the solder cool down naturally, don't blow on the solder to cool as this will cause a bad joint.

A proper solder joint is smooth, shiny and looks like a volcano or cone shape. Use just enough solder to cover the entire joint but not too much so it becomes a ball or spills to a nearby lead or joint.

ON BOARD WORK LIGHTS

The solder iron comes equipped with dual on-board LED lights to illuminate the work area. The LED lights are activated with the Touch Sensor Pad. See (E) in components chart above.

STORAGE

Never attempt to store the soldering iron while it is hot. Ensure the tool is OFF/unplugged and cooled **BEFORE** storing.

MAINTENANCE

Surfaces of the soldering iron may be cleaned with a damp rag or sponge. **NEVER** use petroleum-based cleaners to clean any components of the soldering iron.

NEVER use lubricants on any part of the soldering iron.

Remove any debris and combustible material from the soldering iron. The tool must be kept clear and free from combustible materials, gasoline and other flammable vapor and liquids.

NOTE: ANY OTHER SERVICING SHOULD BE PERFORMED BY AN AUTHORIZED SERVICE REPRESENTATIVE.

BENCHMARK WARRANTY

If this Benchmark tool fails due to a defect in material or workmanship within five years from the date of purchase, return it to any Home Hardware store with the original bill of sale for exchange. 3-year warranty for the battery and charger. This warranty does not include expendable parts including but not limited to blades, brushes, belts, light bulbs. This warranty covers defects in material or workmanship only. It does not cover normal wear and tear, failure due to abuse/misuse, or defects caused by careless or accidental mishandling. If this Benchmark product is used for commercial or rental purposes, this warranty does not apply.

**BENCHMARK TOOLS CANADA**

ST. JACOBS, ONTARIO N0B 2N0

© 2022 Home Hardware Stores Limited

CUSTOMER SERVICE/SERVICE À LA CLIENTÈLE

1-866-349-8665