protech TS1470 40W LEDs Soldering Iron User Manual

Contents

protech TS1470 40W LEDs Soldering Iron

Specifications

- **Heating Element:** 40W
- **Temperature Range:** 420-450ºC
- **Input Voltage:** 240VAC @ 50/60Hz
- **Weight:** 195g
- **Dimensions:** 215(H) x 35(Dia.)mm
- **Cable Length:** 1m

Product Information

The 40W Soldering Iron with LEDs is designed for hobbyists and comes with LED lights for better visibility during soldering tasks.
The product includes a soldering iron with features such as power LED indicator, power switch, and a soldering tip. The soldering iron is ideal for various soldering applications and projects.

Product Usage Instructions

Before First Use

1. Inspect the soldering iron for any visible damage.
2. Assemble the stand to safely hold the iron when not in use.
3. Attach the soldering tip securely.

Operating Instructions

1. Prepare the part by removing any dirt, rust, or paint.
2. Heat the part using the soldering iron.
3. Apply rosin-based solder to the part and melt it with the soldering iron.
4. Allow the solder to cool and harden before handling the soldered part.

Cleaning, Care, Storage & Maintenance

After each use, clean the tip using a damp sponge and apply tin for protection. Place the soldering iron on the holder when not in use for safety. Avoid filing the specially-plated tip to prevent damage.

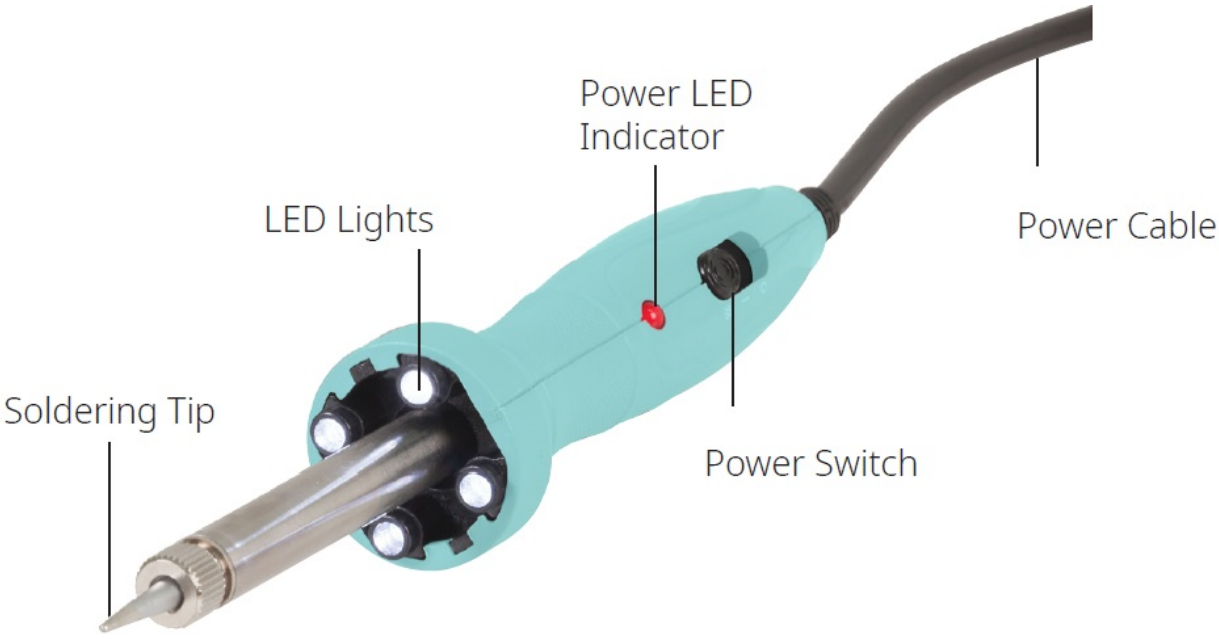
FAQ

- **Q: What should I do if the soldering iron tip is damaged?**
  A: If the tip is damaged, it is recommended to replace it with a new one following the manufacturer's instructions to maintain optimal performance.

BOX CONTENTS

1x Soldering Iron

PRODUCT DIAGRAM



BEFORE FIRST USE

Using a soldering iron for the first time requires careful preparation to ensure safety and effectiveness. Here are the steps to follow before you begin:

Preparation

1. Inspect the Soldering Iron: Check for any visible damage to the cord, handle, or tip.
2. Assemble the Stand: Set up the soldering iron stand to safely hold the iron when not in use.

3. Attach the Tip: Ensure the soldering tip is securely attached to the iron.

Initial Setup
Tinning the Tip: This process prepares the tip for effective soldering.

- Heat the Iron: Plug in the soldering iron and let it reach its operating temperature.
- Apply Solder: Once heated, apply a small amount of solder to the tip, covering it entirely with a thin layer.
- Wipe Excess Solder: Use a damp sponge to wipe off excess solder, leaving a shiny, tinned tip.

Testing
Test the Iron: Practice on a scrap piece of metal or wire to get a feel for the soldering iron and ensure it is working correctly.

Maintenance

1. Clean the Tip: Regularly clean the tip with a damp sponge during use to remove oxidation and solder residue.
2. Unplug After Use: Always unplug the soldering iron when finished and let it cool down before storing it.

Following these steps will ensure your soldering iron is ready for use and will help prolong its life while ensuring safe operation.

WARNINGS & SAFETY INFORMATION

When handling electric soldering irons, it is important to adhere to fundamental safety measures at all times:

- Verify that the voltage specified on the appliance’s rating plate matches the local electrical network’s voltage before connecting it to the main power supply.
- Adult supervision recommended for children aged under 8.
- Do not use the appliance if it has a damaged plug or cord, has malfunctioned, or has been dropped or damaged in any manner.
- Always place the soldering iron on its stand when not in use.
- Maintain adequate space and ventilation around the appliance to facilitate the dissipation of heat and/or fumes.
- Avoid contact with any metal parts close to the soldering tip/nozzle.
- Never leave the soldering iron unattended when it is powered on.
- Confirm that the power switch is turned off and disconnect the appliance from the power source when not in use.
- Prior to storing, make sure the appliance is switched off and allow it to cool down to room temperature.

FEATURES

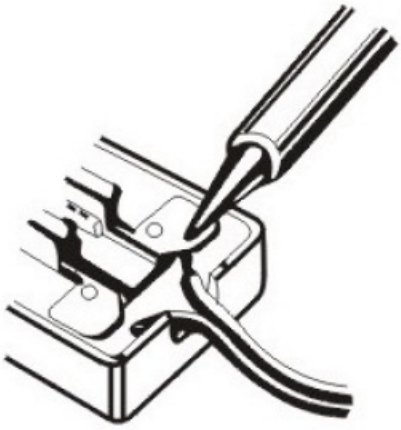
High-Performance LED Soldering Iron
Featuring four long-life LEDs for superior soldering accuracy and enhanced illumination.

Operation method as follows:

- When powered on, the red LED indicator will illuminate.

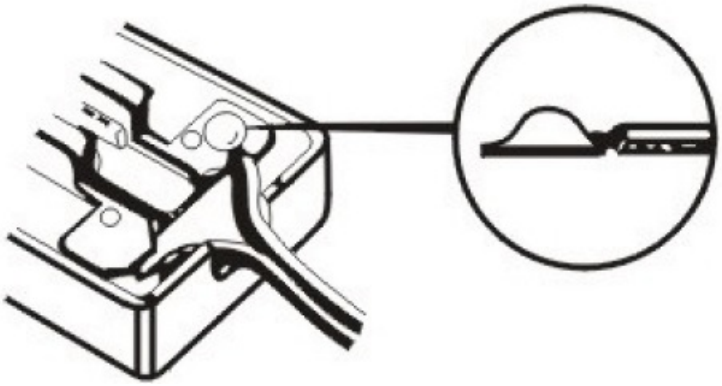
- To activate the soldering iron, press the switch on the handle to the first gear.
- To activate the four LED lights, press the switch on the handle to the second gear.

OPERATING INSTRUCTIONS



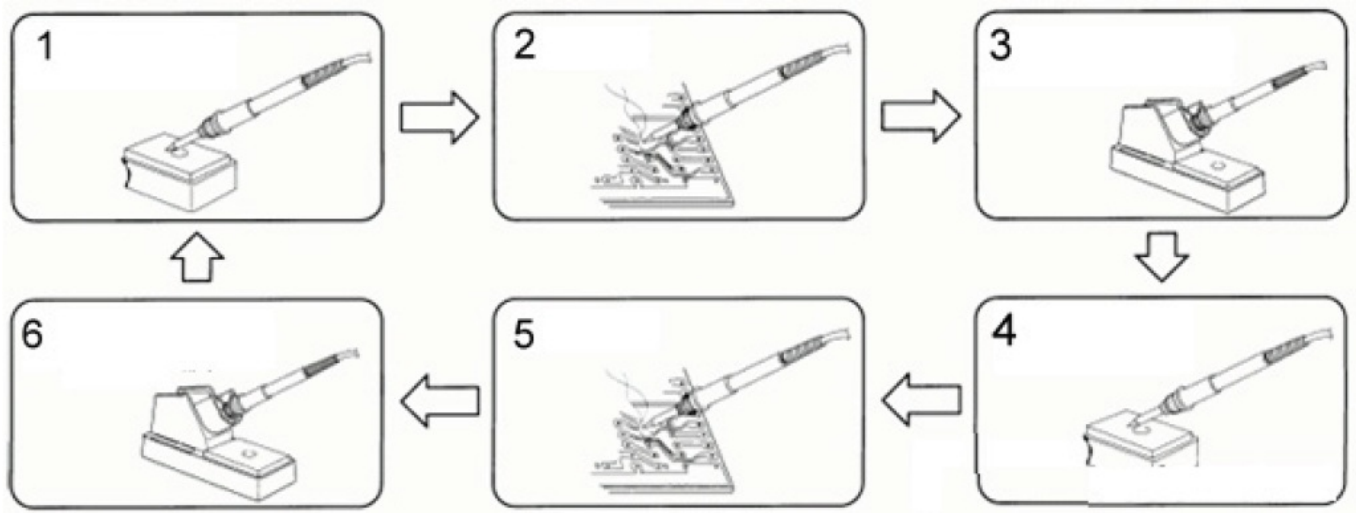
1. Remove any dirt, rust, or paint from the part you intend to solder. Then, heat the part using the soldering iron.

2. Apply rosin-based solder to the part and melt it with the soldering iron. Note: If you're using non-rosin-based solder, make sure to apply soldering paste to the part before applying the solder.



3. Allow the solder to cool and harden before handling the soldered part.

Soldering steps to protect the tip from oxidation.



1. Before soldering, clean the tip using a sponge, and then apply tin to the tip.
2. Begin your soldering work.
3. When not in use, please place the soldering iron on the holder.
4. Clean the tip and apply tin to it.
5. Proceed with the soldering.
6. Repeat steps 1 to 5 as needed.
7. When your soldering work is finished, either adjust the temperature to 270°C or switch off the power.
8. Afterward, clean the tip and apply tin for protection.

CLEANING, CARE, STORAGE & MAINTENANCE

Soldering Tip Care Guidelines

- Always ensure that the tips are coated with tin to prolong their service life.
- Avoid leaving the iron at high temperatures for an extended duration.
- Never clean the tip with abrasive materials.
- Do not quench the tip in water.
- It is advisable to remove and clean the tip every twenty hours of use, or at least once a week, and clear any loose residue from the barrel.
- Refrain from using fluxes that contain chloride or acid; opt for rosin or activated resin fluxes only.
- Avoid using any compounds or anti-seize materials.
- Handle the heated soldering iron with extreme caution, as its high temperature can lead to fires or severe burns.
- Ensure the soldering tip is correctly fitted and the locking screw is tightened securely.

Soldering Iron Maintenance
This tool should be placed on its stand when not in use. If the supply cord is damaged, it should be replaced by the manufacturer, its service agent, or a similarly qualified person to avoid any hazards.
Do not attempt to file the specially-plated tip.

Tip Replacement
Tip replacement or cleaning should be performed only when the iron is at room temperature or below. To change or replace the tip, unscrew the knurled nut barrel assembly. Ensure that the station is switched off and allowed to cool both before and during this operation, as leaving the system on without the tip inserted could lead to damage.

After removing the tip, clean any oxide dust that may have formed in the tip-retaining area of the barrel. Be cautious to prevent dust from getting into your eyes. To replace the tip, screw the retaining knurled nut barrel assembly using only hand pressure to tighten. Pliers should be used only if the nut needs tightening when the iron is hot, to avoid burns on your fingers. Be careful not to overtighten, as this could damage the heating element.

General Cleaning
You can clean the outer case of the iron or station with a damp cloth and a small amount of liquid detergent. Do not submerge the unit in liquid or allow any liquid to enter the case of the station. Never use solvent to clean the case.

WORKING TEMPERATURE

Soldering at the correct temperature is crucial to ensuring a perfect solder connection. If the temperature is too low, the solder will not flow correctly and may result in cold solder joints. Conversely, if the temperature is too high, it can lead to the burning of the flux, preventing the solder from flowing properly. High temperatures can also cause damage to the PCB (Printed Circuit Board) and other sensitive components.
The most common solder wire contains a composition of 60% tin and 40% lead (60/40).

A typical working temperature for 60/40 solder is as follows:

- Melting point……. 419ºF (215ºC)
- Normal operation……419ºF-572ºF (215ºC – 300ºC)
- Production line operation……608ºF-716ºF (320ºC – 380ºC)
- Desoldering operation for small joint…… 599ºF (315ºC)
- Desoldering operation for larger joint…….. 752ºF (400ºC)
- Temperature range……300ºF-790ºF (150ºC – 420ºC)

WARRANTY INFORMATION

Our product is guaranteed to be free from manufacturing defects for a period of 12 Months.
If your product becomes defective during this period, Electus Distribution will repair, replace, or refund where a product is faulty; or not fit for intended purpose.
This warranty will not cover modified product; misuse or abuse of the product contrary to user instructions or packaging label; change of mind and normal wear and tear.
Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and failure does not amount to a major failure.
To claim warranty, please contact the place of purchase. You will need to show receipt or other proof of purchase. Additional information may be required to process your claim.
Any expenses relating to the return of your product to the store will normally have to be paid by you.
The benefits to the customer given by this warranty are in addition to other rights and remedies of the Australian Consumer Law in relation to the goods or services to which this warranty relates.

This warranty is provided by:
Electus Distribution
Address 46 Eastern Creek Drive, Eastern Creek NSW 2766
Ph. 1300 738 555

Documents / Resources

	protech TS1470 40W LEDs Soldering Iron [pdf] User Manual TS1470, TS1470 40W LEDs Soldering Iron, 40W LEDs Soldering Iron, LEDs Soldering Iron, Soldering Iron, Iron

References

- User Manual