

JBC 30ST (3302040)

JBC 30ST Soldering Iron User Manual

Model: 30ST (3302040) | Brand: JBC

1. INTRODUCTION

This manual provides essential information for the safe and effective use of your JBC 30ST Soldering Iron. Designed for precision electronic work, this 25W soldering iron features a rapid heating system and is supplied with a durable, heat-resistant R-10D tip.

The JBC 30ST is a versatile tool, ideal for laboratory electronic work and circuit assembly, offering efficient heat utilization and quick temperature recovery.

2. SAFETY INFORMATION

Always read and understand all safety warnings and instructions before using this product.

- **Electrical Safety:** Ensure the soldering iron is connected to a properly grounded power outlet. Do not use with damaged cords or plugs. Disconnect from power when not in use or during maintenance.
- **Burn Hazard:** The soldering iron tip and surrounding metal parts reach very high temperatures (up to 380°C). Always use extreme caution to avoid contact with hot surfaces. Allow the iron to cool completely before storing.
- **Fume Inhalation:** Soldering produces fumes. Work in a well-ventilated area or use a fume extractor to avoid inhaling harmful fumes.
- **Eye Protection:** Always wear safety glasses to protect your eyes from solder splashes or flying debris.
- **Work Surface:** Use a heat-resistant work surface. Keep flammable materials away from the soldering area.
- **Children and Pets:** Keep the soldering iron out of reach of children and pets.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x JBC 30ST Soldering Iron
- 1 x R-10D Heat-Resistant Long-Life Tip (pre-installed or separate)
- 1 x Three-conductor power cable





This image displays the retail packaging for the JBC 30ST Soldering Iron. The box features the JBC logo, website (www.jbctools.com), and product descriptions in multiple languages including English ('Pencil Soldering Iron'), Spanish, French, German, and Italian. The soldering iron itself, with its distinctive blue and black handle and silver tip, is visible on the right side of the packaging. The model number '30 ST' and power '230V-25W' are also printed on the side of the tool.

4. SETUP

1. **Unpacking:** Carefully remove all components from the packaging.
2. **Tip Installation (if not pre-installed):** Ensure the soldering iron is unplugged and cool. Gently insert the R-10D tip into the heating element receptacle until it is seated firmly. Do not force it.
3. **Power Connection:** Plug the three-conductor power cable into a compatible 220V grounded electrical outlet.
4. **Initial Heat-up:** Once plugged in, the soldering iron will begin to heat. It takes approximately 2 minutes and 15 seconds to reach 300°C, with a maximum operating temperature of 380°C.

5. OPERATING INSTRUCTIONS

Follow these steps for effective soldering:

1. **Tinning the Tip:** Before first use and periodically during operation, apply a small amount of solder to the hot tip. This 'tins' the tip, protecting it from oxidation and ensuring efficient heat transfer.
2. **Cleaning the Tip:** Use a damp sponge or brass wool tip cleaner to wipe off excess solder and oxidation from the tip before and after each use.
3. **Applying Heat:** Place the clean, tinned tip against both the component lead and the solder pad simultaneously.
4. **Applying Solder:** Once the joint is hot enough (typically a few seconds), apply solder to the opposite side of the joint from the iron. The solder should flow smoothly and quickly around the joint. Do not apply solder directly to the iron tip.
5. **Removing the Iron:** Once the solder has flowed, remove the soldering iron first, then the solder. Allow the joint to cool undisturbed.
6. **Cool Down:** When finished, unplug the soldering iron and place it in a safe, heat-resistant stand. Allow it to cool completely before handling or storing.

6. MAINTENANCE

Proper maintenance extends the life of your soldering iron:

- **Tip Cleaning:** Regularly clean the tip using a damp sponge or brass wool. For stubborn oxidation, use a tip tinner/cleaner compound. A well-maintained tip will be shiny and accept solder easily.
- **Tip Replacement:** Replace the tip when it becomes pitted, corroded, or no longer accepts solder easily, even after cleaning and tinning. Ensure the iron is cool and unplugged before changing tips.
- **Handle and Cord:** Keep the handle clean and free of solder. Inspect the power cord regularly for any signs of damage (cuts, fraying). If damaged, discontinue use and seek professional repair.
- **Storage:** Store the soldering iron in a dry, safe place, away from dust and moisture, once it has completely cooled.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Soldering iron not heating up.	No power; Faulty heating element.	Check power outlet and cable connection. If still not heating, contact JBC support.
Solder does not melt or flow well.	Tip is oxidized or dirty; Insufficient heat transfer.	Clean and re-tin the tip. Ensure the tip is making good contact with the joint.
Tip turns black quickly.	Tip is not tinned; Running too hot; Using incorrect solder.	Always tin the tip. Ensure proper soldering technique. Use good quality solder.
Solder joints are dull or brittle.	Cold joint (insufficient heat); Movement during cooling.	Ensure components and pads are heated sufficiently. Do not move the joint until solder has solidified.

8. SPECIFICATIONS

Feature	Specification
Model Number	3302040 (30ST)
Manufacturer	JBC
Power	25 Watts
Power Source	Electric Cable (220V mains)
Maximum Temperature	380 °C
Time to reach 300 °C	2 minutes 15 seconds
Weight (without cord)	40 grams
Weight (with cord)	120 grams
Product Dimensions (L x W x H)	30 x 6 x 4.9 cm
Handle Material	Nylon







Feature	Specification
Special Feature	Heat Resistant
Included Components	R-10D heat-resistant long-life tip, three-conductor cable





9. WARRANTY AND SUPPORT

For warranty information, technical support, or spare parts availability, please refer to the official JBC website or contact your authorized JBC dealer. Keep your purchase receipt as proof of purchase.
JBC Official Website: www.jbctools.com

© 2024 JBC. All rights reserved.

Related Documents - 30ST (3302040)

<div> 取扱説明書</div> <div></div> <div>NT115 ナノグリップ</div>	<p>JBC NT115 Nano Grip Instruction Manual</p> <p>Comprehensive instruction manual for the JBC NT115 Nano Grip soldering tool, covering setup, maintenance, safety, and specifications. Includes details on grip and cartridge replacement, compatible cartridges, and warranty information.</p>
<div> INSTRUCTION MANUAL</div> <div></div> <div>ALE250 Auto-Feed Soldering Iron</div>	<p>JBC ALE250 Auto-Feed Soldering Iron - Instruction Manual</p> <p>Detailed instruction manual for the JBC ALE250 Auto-Feed Soldering Iron, covering features, assembly, operation, guide kits, maintenance, safety, and specifications. Learn how to use and maintain your ALE250 soldering tool.</p>
<div> INSTRUCTION MANUAL</div> <div></div> <div>DR560 Desoldering Iron</div>	<p>JBC DR560 Desoldering Iron: Instruction Manual and Specifications</p> <p>Comprehensive instruction manual for the JBC DR560 Desoldering Iron. Includes packing list, features, desoldering process, maintenance, safety guidelines, and specifications. Learn how to use and care for your JBC DR560.</p>

<div data-bbox="156 103 271 152"><p>JBC www.jbctools.com INSTRUCTION MANUAL</p></div> <div data-bbox="118 174 306 284"></div> <div data-bbox="145 320 282 349"><p>B-500 K Handle Expansion Kit for B-IRON</p></div>	<p>JBC B-500 K Handle Expansion Kit for B-IRON: Instruction Manual & User Guide</p> <p>Comprehensive instruction manual for the JBC B-500 K Handle Expansion Kit, designed to extend B-IRON soldering stations. Learn about setup, operation, maintenance, safety, and specifications for enhanced soldering efficiency.</p>
<div data-bbox="156 616 300 869"><p>JBC www.jbctools.com</p><p>P&P Certified</p><p>NASE 双工头纳米级返修站 NANO REWORK STATION 40W</p><p>TRA245/TRA470 Automatic General/Heavy Duty Soldering Tool for Robot</p></div>	<p>JBC NASE Dual Tool Nano Rework Station - Product Guide</p> <p>Product guide for the JBC NASE Dual Tool Nano Rework Station, detailing specifications, packaging contents, connection diagrams, and compliance information for models NASE-2HC and NASE-2HQC.</p>
<div data-bbox="156 929 271 1182"><p>JBC www.jbctools.com INSTRUCTION MANUAL</p><p>TRA245/TRA470 Automatic General/Heavy Duty Soldering Tool for Robot</p></div>	<p>JBC TRA245/TRA470 Automatic Soldering Tool for Robot - Instruction Manual</p> <p>Comprehensive instruction manual for the JBC TRA245 and TRA470 Automatic General/Heavy Duty Soldering Tools for Robots, covering assembly, connections, maintenance, safety, specifications, and spare parts.</p>