

JBC R10D

JBC R10D Soldering Tip Instruction Manual

Model: R10D (Part No. 300905)

1. INTRODUCTION

This instruction manual provides essential information for the proper use, installation, and maintenance of your JBC R10D soldering tip. Adhering to these guidelines will ensure optimal performance and extend the lifespan of your soldering tip. Please read this manual thoroughly before use.

2. PRODUCT OVERVIEW

The JBC R10D is a high-quality replacement soldering tip designed for precision soldering tasks. It features a durable construction for efficient heat transfer and long-lasting performance.



Image 1: The JBC R10D soldering tip, showing its conical shape and the engraved model number.

3. COMPATIBILITY

The JBC R10D soldering tip (Part No. 300905) is compatible with the following JBC soldering irons:

- JBC 30S Soldering Iron
- JBC 40S Soldering Iron
- JBC SL2006 Soldering Iron
- JBC IN2100 Soldering Iron

Always ensure the tip is compatible with your specific soldering station or iron model before installation.

4. SETUP AND INSTALLATION

Follow these steps to safely install the JBC R10D soldering tip:

1. **Safety First:** Ensure your soldering iron is unplugged and completely cooled down before handling the tip. Hot tips can cause severe burns.
2. **Remove Old Tip (if applicable):** Carefully unscrew or pull out the existing soldering tip from the iron's heating element. Dispose of old tips responsibly.
3. **Insert New Tip:** Gently slide the JBC R10D tip onto the heating element. Ensure it is fully seated and aligned correctly.
4. **Secure the Tip:** If your soldering iron uses a retaining screw or mechanism, tighten it securely to hold the tip in place. Do not overtighten.
5. **Initial Tinning:** Once installed and the iron is heated to operating temperature, immediately apply a small amount of solder to the tip. This 'tins' the tip, protecting it from oxidation and ensuring efficient heat transfer.

5. OPERATING INSTRUCTIONS

For optimal soldering results with your JBC R10D tip:

- **Temperature Setting:** Refer to your soldering iron's manual for recommended temperature settings for different solder types and applications. Avoid excessively high temperatures, as this can shorten tip life.
- **Cleanliness:** Always ensure the tip is clean and properly tinned before and during soldering. A clean tip transfers heat efficiently.
- **Contact:** Apply the tip to the joint to be soldered, ensuring good contact with both the component lead and the PCB pad. Feed solder into the joint, not directly onto the tip.
- **Avoid Force:** Do not apply excessive force to the tip. This can damage the tip or the components.

6. MAINTENANCE

Proper maintenance is crucial for extending the life of your JBC R10D soldering tip:

- **Tip Cleaning:** Regularly clean the tip using a damp cellulose sponge or brass wool. Wipe the tip frequently during use to remove excess solder and flux residue.
- **Re-tinning:** After cleaning, always re-tin the tip with a fresh layer of solder. This prevents oxidation and maintains its wetting properties.
- **Avoid Abrasives:** Never use abrasive materials, files, or sandpaper to clean the tip, as this will damage the protective plating.
- **Storage:** When not in use, ensure the tip is properly tinned and stored in a dry environment. If storing for extended periods, consider applying a tip tinner compound.

- **Inspection:** Periodically inspect the tip for signs of wear, pitting, or excessive oxidation. Replace the tip if it shows significant degradation.

7. TROUBLESHOOTING

Refer to the table below for common issues and their potential solutions:

Issue	Possible Cause	Solution
Tip not heating up	Poor connection to heating element; faulty heating element; incorrect tip installation.	Ensure tip is fully seated. Check soldering iron connection. Consult soldering iron manual.
Solder does not wet the tip (does not stick)	Tip oxidation; insufficient tinning; incorrect temperature.	Clean and re-tin the tip immediately. Adjust soldering iron temperature.
Tip wears out quickly	Excessively high temperature; aggressive cleaning methods; using lead-free solder without proper care.	Reduce temperature. Use only damp sponge or brass wool for cleaning. Ensure proper tinning.





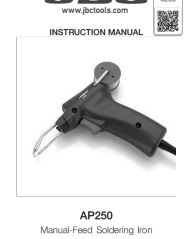

8. SPECIFICATIONS

Key specifications for the JBC R10D Soldering Tip:

- **Model:** R10D
- **Part Number:** 300905
- **Manufacturer Reference:** R10DBIS
- **Manufacturer:** JBC
- **Package Dimensions:** 10.3 x 5.7 x 1.3 cm (approximately 4.06 x 2.24 x 0.51 inches)
- **Item Weight:** 10 g (approximately 0.35 ounces)
- **Country of Origin:** Spain
- **First Available Date:** November 21, 2013

9. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries regarding your JBC R10D soldering tip, please contact JBC directly or refer to the documentation provided with your JBC soldering iron or station. Keep your purchase receipt as proof of purchase.

	<p>JBC SL2020 Temperature-Controlled Soldering Iron User Manual</p> <p>User manual for the JBC SL2020 temperature-controlled soldering iron, including specifications, operating instructions, cleaning and tip replacement procedures, and warranty information.</p>
	<p>JBC SL2020 Temperature-Controlled Soldering Iron - User Manual and Specifications</p> <p>Comprehensive user manual for the JBC SL2020 temperature-controlled soldering iron, detailing specifications, operating instructions, tip maintenance, warranty, and electrical diagram.</p>
	<p>JBC CLUP Senior Tip Cleaner with Non-Metal Brushes Instruction Manual</p> <p>This manual provides detailed instructions for the JBC CLUP Senior Tip Cleaner with Non-Metal Brushes, covering its features, operation, brush replacement, maintenance, safety guidelines, and technical specifications. Learn how to effectively clean soldering iron tips and manage the device using JBC software.</p>
	<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>
	<p>JBC AP250 Manual-Feed Soldering Iron Instruction Manual</p> <p>Instruction manual for the JBC AP250 Manual-Feed Soldering Iron, covering packing list, features, connections, cartridge changes, solder reel replacement, feeder nozzle adjustment, compatible cartridges, and accessories.</p>
	<p>JBC B.NANO Nano Grip for B.IRON - Instruction Manual</p> <p>Comprehensive instruction manual for the JBC B.NANO Nano Grip, detailing its features, setup, operation, software, maintenance, and safety precautions for the B.IRON system.</p>