

CFH 52028

CFH Diamant M 28 Multifunction Gas Soldering Iron Instruction Manual

Model: 52028

1. INTRODUCTION

This manual provides comprehensive instructions for the safe and effective use of your CFH Diamant M 28 Multifunction Gas Soldering Iron. Designed for precision and versatility, this tool is ideal for fine soldering work on a variety of materials including glass, metals, tin, copper, aluminum, silver, gold, and plastics. Please read all instructions carefully before initial operation and retain this manual for future reference.

2. SAFETY INSTRUCTIONS

Your safety is paramount. Always adhere to the following safety guidelines when operating the CFH Diamant M 28 Gas Soldering Iron:

- **Ventilation:** Always operate the soldering iron in a well-ventilated area to prevent the accumulation of hazardous fumes.
- **Heat Hazard:** The soldering iron and its tips reach high temperatures (up to 650°C). Avoid direct contact with hot parts. Allow the device to cool completely before handling, cleaning, or storing.
- **Flammable Materials:** Keep the soldering iron away from flammable liquids, gases, and materials.
- **Personal Protective Equipment (PPE):** Wear appropriate safety glasses and heat-resistant gloves to protect against burns and eye injuries.
- **Children and Pets:** Keep the device out of reach of children and pets at all times.
- **Gas Handling:** Use only standard refill gas. Refill in a well-ventilated area, away from open flames or ignition sources. Do not overfill.
- **Storage:** Store the soldering iron in a cool, dry place when not in use. Ensure it is fully depressurized and cooled before storage.
- **Inspection:** Before each use, inspect the device for any damage or leaks. Do not use if damaged.

3. PACKAGE CONTENTS

Verify that all components are present in your package:

- 1x CFH Diamant M 28 Gas Soldering Iron
- 6x Interchangeable Attachments (various soldering tips)
- 1x Catalytic Adapter
- 1x Tin/Copper Solder
- 1x Safety Stand



Figure 1: CFH Diamant M 28 Gas Soldering Iron with all included accessories, including various tips, solder, and safety stand.

4. SETUP

4.1. Refilling the Gas Tank

1. Ensure the soldering iron is turned off and completely cool.
2. Hold the soldering iron upside down.
3. Insert the nozzle of a standard butane refill gas canister into the refill valve at the bottom of the soldering iron.
4. Press down firmly for approximately 10-15 seconds, or until the tank is full. Do not overfill.
5. Allow a few moments for the gas to stabilize before ignition.

4.2. Attaching Soldering Tips/Attachments

1. Ensure the soldering iron is cool and turned off.
2. Select the appropriate attachment for your task (e.g., fine point, chisel, hot knife).
3. Carefully screw the desired attachment onto the tip of the soldering iron until it is secure. Do not overtighten.
4. To remove, unscrew the attachment once the device has cooled.



Figure 2: The CFH Diamant M 28 Gas Soldering Iron shown with its array of interchangeable tips, ready for various applications.

5. OPERATING INSTRUCTIONS

5.1. Ignition

1. Ensure the gas tank is adequately filled.
2. Turn the gas flow control knob (usually located near the igniter button) to the 'ON' position.
3. Press the ignition button. You should hear a click and see a flame. If it does not ignite, repeat the process.

5.2. Adjusting Flame and Temperature

The CFH Diamant M 28 features an adjustable flame for precise control. Rotate the gas flow control knob to increase or decrease the flame size and intensity. The device can reach a working temperature of approximately 650 degrees Celsius, suitable for various soldering tasks.

5.3. Soldering Techniques

Place the safety stand on a stable, heat-resistant surface. Once the tip is heated, apply the solder to the joint, allowing the heat from the tip to melt the solder and create a strong connection. For fine work, use the appropriate small tips. For melting or shaping, use the catalytic adapter or broader tips.



Figure 3: The CFH Diamant M 28 Gas Soldering Iron in operation, showing the precise flame being applied to a metal component.



Figure 4: A user demonstrating fine soldering work on electrical wires using the CFH Diamant M 28 Gas Soldering Iron.

5.4. Shutting Down

1. Turn the gas flow control knob to the 'OFF' position.
2. Ensure the flame is extinguished.

3. Place the soldering iron on its safety stand and allow it to cool completely before storing.

6. MAINTENANCE

6.1. Cleaning Tips

Regularly clean the soldering tips to ensure optimal performance. While the tip is warm (not glowing hot), wipe it with a damp sponge or brass wool. For stubborn residue, use a tip tinner/cleaner. Ensure the tip is clean and tinned before and after each use.

6.2. Storage

Always ensure the soldering iron is completely cool and the gas tank is empty or at a low level before storing. Store the device and its accessories in a dry, safe place, away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

- **No Flame/Weak Flame:**
 - Check if the gas tank is sufficiently filled. Refill if necessary.
 - Ensure the gas flow control knob is in the 'ON' position.
 - Check for blockages in the nozzle or tip. Clean if obstructed.
- **Difficulty Igniting:**
 - Ensure the gas flow is open.
 - Check if the igniter is sparking. If not, it may require service.
- **Inconsistent Heat:**
 - Ensure the gas level is adequate.
 - Clean the soldering tip and ensure it is properly seated.

8. SPECIFICATIONS

Feature	Specification
Brand	CFH
Model Number	52028
Product Dimensions	3.3 x 20.5 x 14 cm
Weight	285.6 g
Material	Copper
Energy Source	Gas (Butane)
Maximum Temperature	650°C
Special Features	Portable, Adjustable Flame

Feature	Specification
Included Components	Gas Soldering Iron, 6 Attachments, 1 Catalytic Adapter, 1 Tin/Copper Solder, 1 Safety Stand

9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the documentation provided at the time of purchase or contact CFH customer service directly. Keep your proof of purchase for any warranty claims.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question