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Bernzomatic TS4000

Bernzomatic TS4000 Trigger Start Torch Instruction Manual

Model: TS4000 | Brand: Bernzomatic

INTRODUCTION

The Bernzomatic TS4000 Trigger Start Torch is designed for various applications, including soldering, brazing, and heat treating. It features instant on/off ignition, a swirl flame profile, and pressure regulation for consistent performance. This manual provides essential information for safe and effective operation, maintenance, and troubleshooting of your Bernzomatic TS4000 torch.



Image: Two Bernzomatic TS4000 Trigger Start Torches, showcasing their design and trigger mechanism.

SETUP

Before operating the torch, ensure proper assembly and connection to a compatible fuel cylinder. The TS4000 torch is compatible with 14.1 oz Bernzomatic MAP-Pro fuel and 14.1 oz and 16 oz Bernzomatic Propane fuel cylinders.

1. **Prepare the Fuel Cylinder:** Ensure the fuel cylinder is upright and stable.
2. **Attach the Torch Head:** Carefully screw the torch head onto the threaded valve of the fuel cylinder. Turn clockwise until hand-tight. Do not overtighten.
3. **Check for Leaks:** After attaching, listen for any hissing sounds indicating a gas leak. If a leak is detected, tighten the connection. If the leak persists, disconnect and inspect the threads for damage. Do not use if a leak cannot be stopped.



Image: A hand holding the Bernzomatic TS4000 torch attached to a yellow MAP-Pro fuel cylinder, demonstrating its compact and portable setup.

OPERATING INSTRUCTIONS

The Bernzomatic TS4000 features a trigger-start ignition for ease of use and a swirl flame for efficient heating.

1. **Ignition:** Point the torch away from yourself and any flammable materials. Press the trigger to ignite the flame. The instant on/off ignition allows for quick starts and stops.
2. **Flame Lock (Continuous Use):** For continuous operation without holding the trigger, press the trigger to ignite, then push the flame lock button (typically a small button or lever near the trigger) while the flame is active. Release the trigger, and the flame will remain lit.
3. **Adjusting Flame:** The torch is pressure regulated for consistent performance, even when inverted. While there isn't a manual flame adjustment dial, the flame intensity is optimized for various tasks.
4. **Extinguishing:** To turn off the torch, release the trigger. If the flame lock is engaged, press the trigger again briefly to disengage the lock, then release. Ensure the flame is completely extinguished before setting the torch down.



Image: The Bernzomatic TS4000 torch in action, heating a copper pipe for soldering, demonstrating the precise and powerful swirl flame.



Image: The Bernzomatic TS4000 torch heating a metal plate, illustrating its effectiveness for various heating applications.

MAINTENANCE

Proper maintenance ensures the longevity and safe operation of your Bernzomatic TS4000 torch.

- **Cleaning:** Keep the torch head and nozzle clean from debris and residue. Use a soft cloth to wipe down the exterior. Do not use abrasive cleaners or solvents.
- **Storage:** Always disconnect the torch head from the fuel cylinder when not in use. Store the torch and fuel cylinders in a cool, dry, well-ventilated area, away from direct sunlight, heat sources, and ignition sources. Keep out of reach of children.
- **Inspection:** Periodically inspect the torch head for any signs of damage, wear, or blockages in the nozzle. Ensure all connections are secure before each use.

TROUBLESHOOTING

If you encounter issues with your Bernzomatic TS4000 torch, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Torch does not ignite.	<ul style="list-style-type: none">• Fuel cylinder empty.• Torch head not securely attached.• Ignition mechanism dirty or faulty.	<ul style="list-style-type: none">• Replace fuel cylinder.• Ensure torch head is hand-tight.• Clean ignition area; if faulty, consider professional service or replacement.
Flame is weak or inconsistent.	<ul style="list-style-type: none">• Low fuel in cylinder.• Nozzle partially blocked.• Operating in extremely cold conditions.	<ul style="list-style-type: none">• Replace fuel cylinder.• Inspect and carefully clear any nozzle blockages (ensure torch is off and cool).• Allow fuel cylinder to warm to room temperature.

Problem	Possible Cause	Solution
Gas leak detected.	<ul style="list-style-type: none">Loose connection between torch and cylinder.Damaged O-ring or threads.	<ul style="list-style-type: none">Tighten connection.Disconnect, inspect for damage, and replace if necessary. Do not use if leak persists.



SPECIFICATIONS


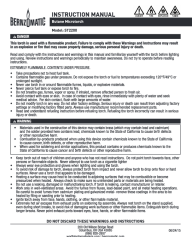
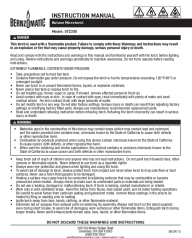
- **Brand:** Bernzomatic
- **Model:** TS4000
- **Item Weight:** 14.1 Ounces
- **Product Dimensions:** 10.5"L x 3"W x 3.5"H
- **Material:** Alloy Steel
- **Maximum Temperature:** 2860 Degrees Fahrenheit (with MAP-Pro fuel)
- **Power Source:** Propane Gas / MAP-Pro Gas
- **Ignition:** Trigger Start (Instant On/Off)
- **Flame Type:** Swirl Flame
- **Features:** Pressure Regulated for Consistent Performance when Inverted, Flame Lock Option
- **UPC:** 014045452953

WARRANTY & SUPPORT

For warranty information or product support, please refer to the official Bernzomatic website or contact their customer service directly. Specific warranty terms and conditions may vary.
Visit the official Bernzomatic Store: [Bernzomatic Store](#)

Related Documents - TS4000

	<p>Bernzomatic TS3700/MT545 Torch Instruction Manual & Safety Guide</p> <p>Comprehensive safety instructions, assembly, and operation guide for Bernzomatic TS3700 and MT545 handheld torches. Learn how to use your torch safely and effectively.</p>
	<p>Bernzomatic 3301 Handheld Torch Instruction Manual and Safety Guide</p> <p>Comprehensive instruction manual and safety guide for the Bernzomatic 3301 handheld propane torch. Learn about assembly, operation, safety warnings, and storage to ensure safe and effective use.</p>

	<p>Bernzomatic ST2000 Butane Torch User Manual and Safety Guide</p> <p>Comprehensive instructions and safety warnings for the Bernzomatic ST2000 butane torch, covering operation, refilling, storage, and potential hazards. Includes multilingual safety information.</p>
	<p>Bernzomatic ST2200 Butane Microtorch Instruction Manual</p> <p>Comprehensive safety warnings, operating instructions, refilling procedures, and storage guidelines for the Bernzomatic ST2200 Butane Microtorch.</p>
	<p>Bernzomatic ST2200 Butane Microtorch Instruction Manual & Safety Guide</p> <p>Comprehensive instruction manual and safety guide for the Bernzomatic ST2200 Butane Microtorch. Learn about operation, refilling, safety warnings, and storage.</p>