

# TS4000 BERNZOMATIC TORCH

(TS4000TK includes torch and a Map-Pro cylinder)

## DESCRIPTION

The Bernzomatic® Advanced Performance Torch is built with instant on/off ignition, a swirl flame profile and flame lock option for continuous use. The Advanced Performance Torch is compatible with 14.1 oz Bernzomatic MAP-Pro® fuel and 14.1 oz and 16 oz Bernzomatic Propane fuel, sold separately. Limited Lifetime Warranty.



## SPECIFICATIONS

- Flame type: swirl flame
- Warranty: limited lifetime warranty
- Approval: ANSI/UL 147. Certificate no. 20120611-MH5592
- Fuel type: Bernzomatic Map-Pro (181120) or Bernzomatic Propane (1811220)
- Instant on/off ignition
- Continuous flame lock
- Pressure regulated for consistent performance when inverted
- Durable, cast body construction
- Uses: ideal for large diameter soldering, light brazing, woodworking and cooking.
- Torch head not available on its own. Only available in a kit with the cylinder.



## SPARE PARTS

A replacement tip can be purchased from any Bromic distributor using part number T21198



## ASSEMBLY

1. Turn ignition knob (2) to LOCKED position.
2. Hold torch so that burn tip (4) is pointed away from persons and flammable materials. Thread gas cylinder into regulator/torch body. Hand tighten only. Do not force.
3. Check all joints and couplings periodically to ensure against loose connections. With valve open, without lighting, test all connections with soapy water. If bubbles appear, gas is leaking and torch must be repaired. NEVER USE A FLAME TO CHECK FOR LEAKS. Make this test in a well-ventilated and spark-free area and where there are no open flames.

## WARNINGS

This torch is used with a flammable product. Failure to comply with these warnings and instructions may result in an explosion or fire that may cause property damage, serious personal injury or death.

Read and comply with the instructions and warnings in this manual and familiarize yourself with the torch before lighting and using. Review instructions and warnings periodically to maintain awareness. Do not try to operate before reading instructions. Torches are to be used only with hand-held gas cylinders specifically designated for use with torches.

**WARNING:** This product can expose you to chemicals including lead, which is known to the State of California to cause cancer and birth defects or other reproductive harm. For more information go to [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov). Wash hands after handling.

- Keep torch out of reach of children and anyone who has not read instructions. Do not point torch towards face, other persons or flammable objects. Never attempt to use torch as a cigarette lighter.
- Disconnect cylinder when not in use.
- Never attempt to modify the torch construction and never use unapproved accessories or fuels.
- Treat the torch as you would any fine tool or instrument. Do not drop, throw, or otherwise abuse.
- Do not use a leaking, damaged or malfunctioning torch.
- Always wear safety glasses, protective gloves and use proper tools to handle hot work.
- Radiant energy can harm your eyes. Wear glasses having an appropriate lens shade number (see 29 CFR 1926.102) for the torch operation being done; brazing and light cutting (3 or 4), medium cutting and light welding (4 or 5), heavy cutting and medium/heavy welding (5-8).
- Work only in well-ventilated areas. Avoid the fumes from fluxes, lead-based paint, and all metal heating operations. Be careful to avoid fumes from cadmium plating and galvanized metal- remove these coatings in the area to be heated by filing or sanding prior to heating.
- Never use torch to strip lead paint.
- Be careful when using the torch outdoors on sunny or windy days. Bright light makes it difficult to see the torch's flame. Wind may carry the torch's heat back towards you or other areas not intended to be heated. Windy conditions may also cause sparks to be blown into other areas with combustible materials.
- Heating a surface may cause heat to be conducted to adjoining surfaces that may be combustible or become pressurized when heated. Always check to make sure no unintended parts or materials are being heated.
- Be aware that the tip of the torch can get extremely hot during use. Take precautions to protect yourself and others from accidental burns.
- Never use the torch on or near combustibles. Be careful around motor vehicles or any gasoline-fired products and beware of hidden fuel lines and tanks.
- Always make certain the torch is placed on a level surface when connected to the fuel cylinder to reduce the risk of accidental tip over. Be sure the torch is not pointed in a direction which could cause nearby objects to ignite when the torch is set down.
- Be careful not to overheat surrounding materials. Use a heat shield when necessary.
- Never leave the torch unattended when lit.
- Never attempt to repair or heat a gasoline tank, a chemical drum an aerosol can, a compressed gas container that held flammable liquid or gas or any other chemical. Heating these is extremely dangerous, especially after they have been emptied because vapors may still be in the container.
- Always have a fire extinguisher and a bucket of water near the torch and work area.
- This torch consumes oxygen and must only be used in well-ventilated areas. Do not use in a confined space.

## LIGHTING AND OPERATION

**CAUTION:** Tipping the gas cylinder more than 60 degrees from its upright position may cause torch to flare. The torch has a built-in regulator that controls pressure and reduces the risk of pulsating or yellow flames when used other than upright. It is recommended to start working with a disposable hand torch cylinder at room temperature and to keep torch upright as much as possible.

1. Never look into the burner tube (4) or point in unsafe direction.
2. Turn ignition button (2) to UNLOCK position.
3. Point the torch in a safe direction and pull ignition button (2) toward you. Repeat if necessary. Keep ignition button depressed. When ignition button (2) is released the flame is automatically extinguished.

## TO ENGAGE FLAME LOCK FEATURE

1. While ignition button (2) is depressed, press flame lock button (3).
2. To release flame lock, pull ignition button (2) until flame lock button (3) releases.
3. After flame is extinguished, turn ignition button to LOCKED position.

## AFTER USE

1. Return the ignition button (2) to LOCKED position.
2. Remove cylinder from torch when not in use.
3. With the torch disconnected from the cylinder, point torch in a safe direction and pull ignition button (2) to release gas in the torch

## ADDITIONAL WARNINGS

- Make sure the torch is cool before installing or removing cylinder and accessories. Using the torch with a low flame can cause damage to the burn tube and ignition system.
- Check all joints and couplings periodically to insure against loose connections. With valve open, without lighting, test all connections with soapy water. If bubbles appear, gas is leaking and torch must be repaired or replaced. NEVER USE A FLAME TO CHECK FOR LEAKS. Make this test in a well ventilated and spark-free area and where there are no open flames.
- In cold weather the size of the flame will be smaller. To produce a larger flame, pre-warm the cylinder to room temperature prior to use.

## STORAGE

REMOVE CYLINDER FROM TORCH WHEN NOT IN USE

1. Turn ignition button to the LOCKED position.
2. When torch is cool, disconnect cylinder and store torch and cylinder separately and out of reach of children. Observe cautions on cylinder label.
3. Do not expose cylinders to temperatures in excess of 50°C.
4. Store cylinders in well ventilated areas.

## LIMITED LIFETIME WARRANTY

Bromic warrants to the original purchaser that this product is free from defects in material and workmanship for as long as you own your TS4000. This warranty does not apply to product that has been damaged as a result of improper maintenance, accident or other misuse, or which fails to operate due to normal wear and tear. This warranty is void if the product is repaired or modified in any way by anyone other than Bromic.

Bromic will repair the product if it proves to be defective in materials or workmanship. At the choice of Bromic, a replacement product may be provided instead of repairing a defective product. The sole obligation of Bromic and your exclusive remedy under this warranty are limited to such repair or replacement.

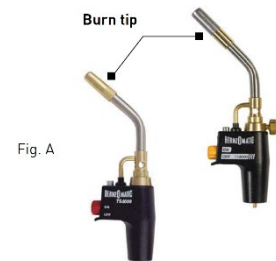
To make a claim under this Limited Lifetime Warranty, contact your store of purchase or contact Bromic directly at 1300 276 642. A service representative will assist you. Please provide proof of date of purchase when making a claim.

Bromic makes no other warranties concerning the product. In no event shall Bromic be liable for incidental or consequential damages. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

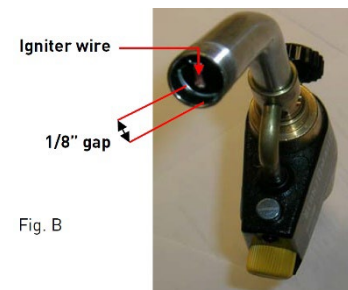
## TROUBLESHOOTING

- If torch will not light, but gas is flowing when you pull the trigger:
  1. Remove torch from cylinder.
  2. Unscrew removable burn tip. (see Fig. A)
  3. Check for spark. The igniter wire is located approx. 1/8" from the side wall. Pull the trigger and look for a spark from the igniter wire to the burn tube.



**CAUTION:** touching this wire while pulling the trigger can shock you. (See Fig. B)

4. If there is no spark, bend the wire so it is 1/8" away from the wall of the burn tube. Then check for spark.
5. If there is still no spark, clean the tip of the igniter wire (do not remove wire) with a piece of sandpaper or emery cloth. Position the wire 1/8" from the wall of the burn tube. Then check for spark.
6. If there is a consistent spark, then unit is ready for use. Replace burn tip and follow instructions for use of torch.



**NOTE:** If after following each of these steps, unit will not ignite, torch must be retired.

- If gas/ flame is blowing out of the hole in the body, there is damage to the internals and the torch should not be used. This is a safety feature to ensure the torch is no longer used after damage is ensued.

END TECHNICAL DATA SHEET