

**PREST-O-LITE®****NO. 1 FG AIR-FUEL GAS PENCIL-FLAME TIP**

PART NO. 17861

For industrial use with FG-2, Propane, or MAPP\* on PREST-O-LITE Torch Handles

**! CAUTION**

These INSTRUCTIONS are for experienced operators. If you are not fully familiar with the principles of operation and safe practices for air-fuel gas equipment, we urge you to read our booklet "Precautions and Safe Practices for Gas Welding, Cutting and Heating," Form 2035. Do NOT permit untrained persons to operate this equipment. Do NOT attempt to operate this equipment until you have read and fully understand these instructions. If you do not fully understand these instructions, contact your supplier for further information.

The No. 1 FG Pencil-Flame Tip (P/N 17861) produces a sharp, fine flame about 1-in. long making it ideal for soldering small wire splices or other applications requiring delicate flame control.

The tip may be used with FG-2, propane, or MAPP fuel gas. *Do NOT use with acetylene.* An acetylene flame can quickly overheat and damage the tip.

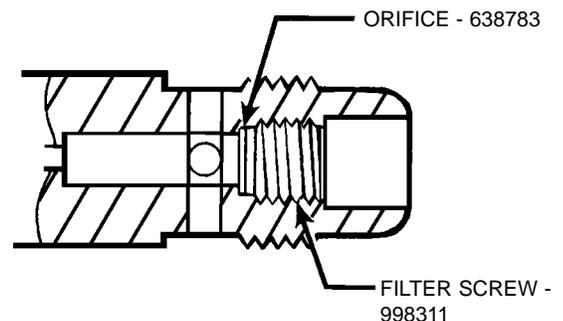
1. The fuel gas should be supplied from a tank through a suitable regulator, such as the *PREST-O-LITE* R-511LPG regulator (P/N 21820).

*NOTE: The tip can also be attached to a small disposable cylinder of FG-2, propane, or MAPP using PREST-O-LITE R-10-40-600 Regulator (P/N 21504). Instructions (Form F-15-166) are packed with the regulator.*

2. Follow all instructions supplied with the regulator. Connect the regulator to the fuel gas tank.
3. Connect a special fuel gas hose (90F49) to the regulator and to the *PREST-O-LITE* No. 403 (P/N 17200) torch handle. Tighten the hose connecting nuts firmly with a wrench. Do NOT over-tighten.
4. Insert the tip into the torch handle, and hand tighten the tip connection nut.
5. Adjust the regulator to deliver at least 10 psi pressure. Crack the torch valve open, and light the gas flowing from the tip with a friction lighter. Do NOT use a match. Use of a match can seriously burn your hand. When lit, open the torch valve wide.
6. If heavier flame is desired, adjust by increasing

pressure at the regulator with the torch valve wide open.

7. To stop work, close the torch valve. If shutting down for more than a few minutes (always for an overnight shutdown), release pressure from the regulator to prevent any occurrence of leakage or accidental release of fuel gas. Shut down as follows: (1) Close tank valve; (2) Open torch valve; (3) When delivery pressure drops to zero, back out the regulator pressure-adjusting screw and close torch valve.
8. If the tip overheats, the mixer parts in the back end of the tip may be clogged (see illustration). To clear, shut off the torch, allow the tip to cool, and then remove the tip. Use a 1/8-in. Allen wrench (key) to remove the filter screw recessed in the connection end, and then tap the tip to dislodge the thin disk with orifice. Replace the mixer disk and filter-screw with new parts.



**SAFETY PRECAUTIONS:** Be sure to read and understand all Safety Precautions in the Instructions supplied with the regulator and torch handle.

\*MAPP is a Registered trademark of Air Reduction Co.

**Be sure this information reaches the operator.  
You can get extra copies through your supplier.**



ESAB Welding & Cutting Products  
PO Box 100545, Florence SC 29501-0545