

PREST-O-LITE®

NO. 1 QUICK-DISCONNECT TORCH HANDLE

Part No. 21702

! 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" 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 regulator covered by these instructions is listed by Underwriter's Laboratories only when using parts manufactured by ESAB Welding & Cutting Products to the specifications on file with Underwriter's Laboratories, Inc., and when they are used in the gas service for which they are designed and listed. The use of other parts that cause damage or failure to the equipment will void the manufacturer's warranty.

This sheet covers use of Quick-Disconnect PREST-O-LITE which attach directly to this torch handle. Supplementary instructions are supplied with quick-disconnect SWIRLJET air-fuel gas (F-15-242) and SWIRLJET air-acetylene tips (F-15-241).

CONNECTING:

1. Attach a regulator to your acetylene or fuel gas tank, following the instructions supplied with the regulator.
2. Connect a 3/16-in. hose assembly with 'A'-size lefthand-thread fittings to the regulator outlet and to the handle. Tighten the connection nuts with a wrench.

NOTE: If using B-size fitting hose, adaptor P/N 18Z56 is required.

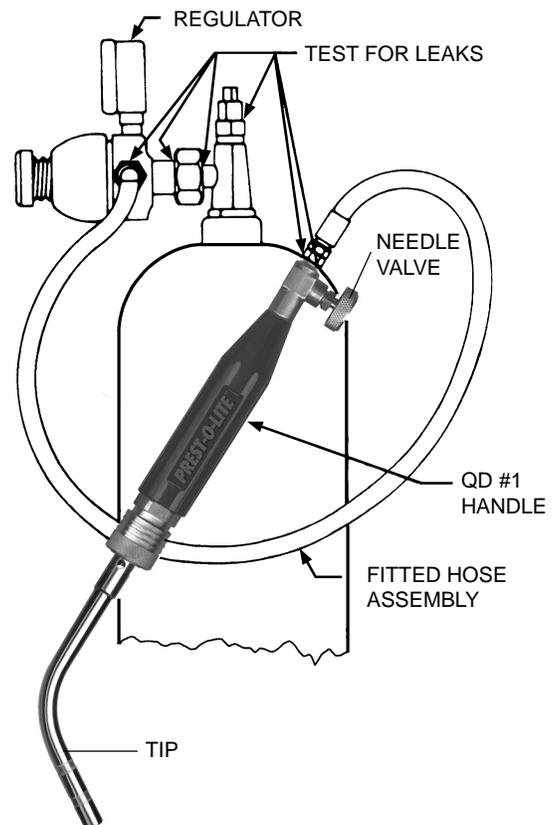
3. Pull back on the quick-disconnect sleeve on torch handle; insert the QD Swirljet tip into the quick-disconnect until fully seated; and then release the sleeve.

TEST FOR LEAKS:

Close the shutoff valve on the torch handle. Open the tank valve, set the regulator to deliver 10 psi (see instructions supplied with regulator) and check for leaks, using a thick solution of soap and water, at the points indicated on the adjoining sketch.

LIGHTING & FLAME ADJUSTMENT:

1. If you have set the regulator to 10 psi delivery pressure for testing, you may wish to reset it before lighting the flame, since only a few tips require a pressure that high. Unless you are sure 10 psi is needed, we suggest the regulator be reset for 5 psi ('B' setting on the R-411 Acetylene Regulator) before you light your torch.



NOTE: When using SWIRLJET tips, be sure to follow the pressure recommendations given in the instruction sheets supplied with those tips.

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

2. Having set or reset your regulator to 5 psi delivery pressure, open the needle valve on the torch handle, and light the gas at the tip with a friction lighter.
3. After lighting the torch, adjust the flame size, if necessary, by changing the setting of the regulator pressure-adjusting screw or partially closing the torch needle.

SHUTTING OFF:

1. For short intervals, merely close the needle valve on the torch handle.
2. For longer periods, or if you are going to leave the outfit unattended, close the tank valve as well as the torch valve.

MAINTENANCE:

1. If the needle valve turns too freely, or there is gas leakage around the valve stem, tighten the valve stem packing nut. If leakage persists, replace the valve stem assembly (P/N 21784).
2. If the needle valve does not shut off complete, remove the valve stem assembly and wipe the seating surfaces on the stem and in the body with a clean cloth. If the valve stem is bent, or the seating surface nicked or marred, replace it with a new assembly (21784).
3. Each torch is equipped with a filter-screw, which holds a mixer disk in place. If flow of gas through the tip appears to be restricted, remove the filter-screw with a 1/8-in. socket key ('Allen wrench') and replace both filter-screw and mixer disk. See F-15-241 or F-15-242 supplied with the quick-disconnect Swirljet tips.

PRECAUTIONS & SAFE PRACTICES

- A. DO NOT let acetylene or LP-Gas escape near any possible source of ignition. Accumulations of either in certain proportions may explode if ignited.
- B. NEVER store acetylene or LP-Gas tanks (cylinders) in a closed or confined space, such as a closet, tool box, or automobile trunk.
- C. NEVER solder a container that contains or has contained flammable liquids or vapors (including gaso-

- line, benzene, solvents, and other similar materials) unless the container has been thoroughly purged of all traces of flammable material and vapors.
- D. Before starting work always test for leaks around all joints with a soapy water solution.
- E. NEVER use a flame to test for leaks of flammable gases.
- F. NEVER use a tank with a leaking valve.
- G. DO NOT attempt any repairs to an acetylene or LP-Gas tank, except to tighten the packing-gland nut on the valve.
- H. DO NOT abuse or drop tanks or handle them roughly.
- I. NEVER use a tank as a roller or support.
- J. NEVER use a hammer, wrench, or pliers on a tank valve equipped with a handwheel. On small acetylene tanks, always use PREST-O-LITE valve wrench (box type, P/N 505L00).
- K. DO NOT open tank valve more than 1-1/2 turns. (Preferably no more than 3/4 of a turn.)
- L. Leave valve wrench on tank valve stem so that tank valve can be closed quickly in case of emergency.
- M. NEVER allow full tank pressure to enter the hose. Always use a regulator when there is a needle valve on the torch handle.
- N. NEVER lay a torch down unless the gas flow has been shut off. If you want to maintain a pilot flame when you stop work for short intervals, provide a rack or stand for the torch, away from combustible materials. Do not leave it unattended unless you are sure there is no danger of it being disturbed by unauthorized persons.
- O. Examine your hose for leaks frequently. Dipping it in a bucket of clean water, with the pressure in the hose, is the quickest and easiest ways.
- P. DO NOT use hose that is worn, or any equipment that is in need of repairs.
- Q. DO NOT start fires. Be very careful when working near combustible material.
- R. Fuel gas tanks (cylinders) are equipped with fusible-metal safety devices. NEVER store tanks near radiators, furnaces, or other heat sources.

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