Maintenance

- Surfaces of the torch may be cleaned with soap or detergent and water solutions. Do not use petroleum-based cleaners to clean any components of the torch or the torch body.
- Remove any debris and combustible material from the torch. The torch must be kept clear and free from combustible materials, gasoline and other flammable vapors and liquids.
- The supply hose assembly shall be visually inspected prior to each torch use. If there is excessive abrasion or wear, or the hose is cut, it must be replaced prior to the torch being put into operation. The replacement hose assembly shall be specified by Flame Engineering, Inc. Contact Flame Engineering for further information.

WARNING
The gas supply hose shall be protected from traffic, building materials and contact with hot surfaces during use and while in storage.

Storage

Never attempt to store the torch while it is hot. When the torch is stored indoors, the connection between the LP-Gas supply cylinder and the torch must be disconnected and the cylinder removed. The torch and stored in accordance with Chapter 5 of ANSI/NFPA 58, the standard for storage and handling of liquefied petroleum gases. Do not store the torch in locations where it may be damaged.

WARNING
This device is intended for outdoor use only.
- This Torch Kit is designed for use with a Vapor- Withdrawal LP-Gas Cylinder.

Red Dragon Torches
Operating Instructions & Parts Manual

Models

JET 4 C  JET 410 C  JET 8 C

Please read and retain this information for future reference.

• This device is intended for outdoor use only.
• This Torch Kit is designed for use with a Vapor-Withdrawal LP-Gas Cylinder.

Assembly Instructions

Note: Unpack and inspect for damage.

1. Using thread compound, connect male end of hose to OUT fitting of regulator. Tighten Securely with a wrench.

2. Using thread compound, connect male end of P.O.L. fitting (brass left hand fitting that screws into the propane cylinder) to IN fitting of regulator. Tighten Securely with a wrench.

3. Using thread compound, attach other male end of hose to the torch. Tighten Securely with a wrench.

4. See “Connecting To The Supply Cylinder.”

Connecting To The Supply Cylinder

The propane supply cylinder used with this torch should be no less than 100 lb. capacity and must be designed, fabricated, tested and marked in accordance with regulations of the U.S. Department of Transportation, the Canadian Transport Commission or the Interstate Commerce Commission. Supply cylinders must be arranged to provide for vapor withdrawal from the operating cylinder.

1. Inspect the nut/nipple of the P.O.L. connection on the LP-Gas hose. Check for dents or physical damage. The O-ring should be present on nipple fitting. Once the desired pilot flame is achieved, the squeeze valve operations. The pilot valve knob is used for lighting the torch and adjusting the pilot flame. Once the desired pilot flame is achieved, the squeeze handle is depressed to give the required working flame pattern.

Connecting To The Supply Cylinder Cont.

3. Connect the P.O.L. nut/nipple fitting on the hose to the propane supply cylinder by turning the left hand threaded P.O.L. nut counter clockwise into the cylinder valve outlet. Snug the connection tight with a wrench. DO NOT OVER TIGHTEN.

4. Be certain the flame adjusting valve is closed before opening the LP-Gas cylinder valve.

5. Slowly open the cylinder valve. Check all LP-gas connections for leaks using soapy water or suitable leak detection solution. DO NOT USE MATCHES OR OPEN FLAME TO CHECK FOR LEAKS. Do not attempt to operate the torch if there is evidence of a leak or at any time the odor of gas is detected.

Lighting Instructions

IMPORTANT NOTE

- If no leaks are found, proceed with lighting the torch.
- Always use a flint lighter to ignite the torch. DO NOT USE MATCHES OR CIGARETTE LIGHTER TO IGNITE THE TORCH.
- Be certain the flame adjusting valve is closed before opening the LP-Gas cylinder valve.

1. Slowly open the LP-Gas cylinder valve. Check all gas connections to the torch for leaks with a leak detection solution, such as soapy water. Leaks will be indicated by forming bubbles around the source. Please allow one minute for bubbles to appear. Repair all leaks and test for leaks prior to lighting torch.

2. Familiarize yourself with the functions of the squeeze valve operations. The pilot valve knob is used for lighting the torch and adjusting the pilot flame. Once the desired pilot flame is achieved, the squeeze handle is depressed to give the required working flame pattern.

Continued
Adjust the size of the pilot flame using the regulator to the desired working flame. TURNING THE REGULATOR COUNTERCLOCKWISE REDUCES THE WORKING FLAME. TURNING IT CLOCKWISE INCREASES THE WORKING FLAME.

Open the pilot valve knob 1/4 turn or until a small amount of gas is heard escaping. Using a flint lighter, ignite the torch. DO NOT PLACE YOUR HAND OR ANY PART OF YOUR BODY IN THE PATH OF THE BURNER WHILE LIGHTING OR OPERATING THE TORCH. DO NOT USE MATCHES OR CIGARETTE LIGHTER TO IGNITE THE TORCH. DO NOT USE MATCHES OR VAPOR TORCHES ON CYLINDERS EQUIPPED WITH VAPOR WITHDRAWAL VALVES.

Adjust the size of the pilot flame using the pilot valve knob. Adjust to a flame that will keep the torch burning in the existing conditions. A small flame is usually adequate. If it becomes necessary to readjust the working flame, depress the squeeze handle and adjust the regulator to the desired working flame. TURNING THE REGULATOR COUNTERCLOCKWISE INCREASES THE WORKING FLAME. TURNING IT COUNTERCLOCKWISE REDUCES THE WORKING FLAME.

**Torch Shut-Off**

1. Close the LP-Gas cylinder valve.
2. Allow the gas to burn out of hose. After the flame is no longer visible, turn the flame adjusting valve to the closed or “off” position. TO RESTART follow lighting instructions.

**For More Information**

Consult your local LP Dealer, Flame Engineering, NPGA, or NFPA Pamphlet 58. This information is provided as a general guide for safe LP-Gas use and in no way constitutes a complete safety program.