

## **Model 14-1 Gas Injector Tip – Cleaning Procedure**

### **Introduction**

The Sonic Sentinel Model 14-1 Injector Assembly (p/n 00006) includes a gas injector tip with an orifice diameter specifically calibrated to introduce the correct mixture of gas and air into the Model 14-1's combustion chamber. Under normal operating conditions, the periodic flow of pressurized gas through the injector tip should prevent it from becoming fouled. In extreme environments, however, the orifice may become clogged with debris or corrosion and require periodic cleaning to restore a reliable flow of propane gas.

The following procedure outlines the steps necessary to safely clean the injector tip's orifice. It should be conducted in a clean environment with adequate lighting and requires the following tools and materials:

### **Required Tools & Materials**

- 7/16in Wrench & Socket
- Torque Wrench (inch lbs.)
- Sonic Sentinel Injector Cleaning Tool (p/n 00027a)

### **Gas Injector Tip Cleaning Procedure**

1. Power down the cannon via the external power switch (down position) and disconnect the propane tank. Allow cannon to sit for 30min to discharge any remaining gas.
2. Remove the injector retaining bolt (Fig. 1) from the back of the cannon using the 7/16in wrench.



**Figure 1**

**Note:** Take care to avoid pulling on the propane hose, or otherwise jostling the cannon after removal of the injector retaining bolt. Doing so can cause the spacer between the lower shroud and injector assembly to drop and will require further disassembly of the cannon to reinstall.

3. Insert the Sonic Sentinel Injector Cleaning Tool all the way into the injector retaining bolt hole and through the injector tip. Work it back and forth several times to ensure any debris occluding the orifice is cleared.
4. Re-install the injector retaining bolt and torque to 50 in-lbs.