



SCARE-AWAY M-8 MULTI-BANG CANNON ASSEMBLY, OPERATING & SAFETY INSTRUCTIONS



1. Attach the Barrel Extension:

After removing the Scare-Away from the shipping box, attach the barrel extension (#54) to the barrel of the combustion chamber (#83).

Ensure that the weep hole faces the ground:

Ensure that the welded section on the seam of the barrel extension is **facing down**, so that any water will drain from the weep hole just above it.

Tighten the three bolts (#56) with a 13 mm wrench.

Important:

These three bolts (#56) must be tight, or explosion pressure will damage the bolt connections on the combustion chamber (#83).

2. Connect Scare-Away to LP Gas:

Ensure the valve to the LP gas tank is closed.

Connect the pressure reducing valve (#710) to the external ACME threads of the LP gas tank.

Ensure that **the side with the label faces down**, so that any water will drain from the weep hole.

Turn coupler to the right until fit is snug.



■ **PLEASE READ THE SAFETY PRECAUTIONS ON THE NEXT PAGE** ■

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3. Adjust Firing Frequency:

The time between a series of multi-bangs can be adjusted from approximately 45 seconds to approximately 15 minutes.

The frequency of firing can be adjusted with the needle valve on the left side of the Scare-Away frame.

Adjust the frequency to your requirements.



↶ **To increase firing frequency**, turn handle (#129) **counter-clockwise**, in the direction of the arrow on the dial (#139).

↷ **To decrease firing frequency**, turn the handle **clockwise**.

The Scare-Away M-8 Multi-Bang is equipped with a piezo ignition system (#922 in Schematic on page 4) that will produce at least 100,000 ignitions.

To start the Scare-Away, slowly open the valve of the LP gas tank. The Scare-Away will fire at the same frequency as previously set, without further adjustment.

To stop the Scare-Away, close the valve on the LP gas tank.

SAFETY PRECAUTIONS



To prevent accidental detonations, bleed remaining fuel by disconnecting rubber tubing from needle valve.

- Always use ear protection. ■ Never operate in or on a structure.
- Always place Scare-Away cannon on flat ground. ■ Use only original pressure reducing valve.
- Use only liquid propane (LP) gas. ■ No smoking or open flame near the Scare-Away Cannon.
- Change locations often. ■ Change rate of fire often.
- Cold temperatures and wind can adversely affect the Scare-Away cannon's performance.

WHEN NOT IN USE: Store Scare-Away cannon in a dry, protected area. Protect the cannon muzzle with a suitable covering, to prevent debris or rodents from entering the barrel chamber, and **remove the covering before firing**.

SCARE-AWAY M-8 MULTI-BANG CANNON - TROUBLESHOOTING

PROBLEM	POSSIBLE CAUSE	REMEDY
<p>FAILS TO OPERATE:</p> <p>Scare-Away M-8, fully connected, fails to operate at all.</p>	<p>The LP gas cylinder valve is not open.</p> <p>The LP gas cylinder is empty.</p> <p>The needle valve (#123-340) is not open.</p> <p>The needle valve (#123-340) cannot be opened.</p>	<p>Open the valve.</p> <p>Replace fuel.</p> <p>By turning needle valve lever in direction of arrow, frequency of detonations will increase.</p> <p>Replace needle (#137), or replace complete needle valve.</p>
<p>LEAKS:</p>	<p>The pressure reducer valve (#710) is not attached to the LP gas cylinder tightly enough.</p> <p>Check the following hoses for possible damage:</p> <ul style="list-style-type: none"> - hose (#148) from pressure reducer valve to the stuffer valve (#157) - hose (A) from the needle valve to base of the mechanical assembly - hose from stuffer valve to the mechanical assembly - hose from the stuffer valve to the needle valve. <p>Diaphragm (#121) in pressure reducer valve leaks.</p> <p>Diaphragm (#64) in mechanical assembly leaks.</p> <p>Rubber sleeve (#316) in gas release valve leaks.</p> <p>Interior hose in gas release valve leaks.</p>	<p>Hand-tighten the coupler until snug.</p> <p>Replace the appropriate hose.</p> <div style="text-align: center;">  </div> <p>Replace diaphragm, or replace complete pressure reducer valve.</p> <p>Replace diaphragm.</p> <p>Replace sleeve, or replace, complete gas release valve.</p> <p>Replace interior hose, or replace complete gas release valve.</p>
<p>NO EXPLOSION:</p> <p>Scare-Away M-8 operates, but there is no explosion.</p>	<p>Ignition gives a weak spark, or no spark at all.</p>	<p>Check impact capsule (#922) for wear.</p> <p>Check electrode tip (#930) for wear.</p> <p>Make sure shaft (#48) knob rests on left side of mallet flange (#909) - distance between shaft knob and mallet flange should be 1/8".</p> <p>Check entire sparking assembly (#903-929) for damage.</p> <p>Replace where necessary.</p>
<p>DULL EXPLOSION:</p> <p>Scare-Away M-8 works, but gives a dull explosion.</p>	<p>Wind is too strong and gas/air mixture is disturbed.</p> <p>Barrel extension (#54), or firing chamber (#83), contain debris.</p>	<p>Place the Scare-Away M-8 out of the wind, or place the muzzle down-wind.</p> <p>Remove barrel extension. If there is debris in the barrel extension or firing chamber, remove debris.</p>

