



ADELAIDE HILLS GAS

Scare Gun Troubleshooting Checklist

Precautions and Getting Started

- It is important to note that before beginning any self-servicing and maintenance, you must disconnect the gas and bleed the lines of any remaining gas.
- It would be beneficial to connect the system to an air compressor to continue testing the functions, though a gas bottle valve will be required to do this as you will still need the regulator connected (regulator connects to the gas bottle valve).
- It is best to take caution if attempting any self-servicing and maintenance by yourself. We recommend removing the red extension barrel – this will also allow you a clearer view of the spark.
- Bird Scarers must be used with LP Gas only. Do not attempt to use butane or MAP gas.
- Use only the original pressure reducing valve.

Basic Troubleshooting

- If you can hear the system functioning but it is not firing, pull the back shield off and manually test the hammer by pulling it back and letting it go to attempt firing.
- If the spark is not strong and blue - or intermittent sparking – check the O-ring on the piezo as this may have come loose or perished, if so, this will need replacing. The whole piezo may need replacing if there is extensive wear/damage.
- If you have repaired the piezo/O-ring and the spark is still not firing correctly, the system may not be getting enough gas. The next step is to clean the jets with a .7mm drill piece as air simply won't shift anything inside the jet. You will need to disconnect the hose from the jets by removing the clamps in order to unscrew the jets. The jets cannot be cleaned properly while connected to the system.
- If the jets have been cleaned correctly and the spark is still not strong or is still not firing correctly, there is a very small chance that the issue lies within the spark plug itself. It may have some dirt interfering with its function or it may need replacing.

Advanced Troubleshooting

- If the system is not working and not making any sounds inside, something may be stuck.
 - First check that the rear end of barrel is clear of any gunk or foreign items.
 - Once the backing cover has been removed, locate part 48 and ensure that it is still on the left side of part 909, sometimes it can flick over to the right side, and this will cause a jam.
 - To reposition part 48, lever the spring in part 300 upwards and pull the hammer (909) back down towards you and part 48 will automatically tick back over to the left.
 - Once part 48 has been repositioned back to the left, ensure that there is a 3mm gap between 48 and 909.
 - If there is no gap, you will need to undo lock nuts 45 and 46 and rotate part 48 a fraction of a turn to create the clearance needed between 48 and 909.
- If customers with double/multi-shot systems report that their system is banging non-stop, this may be an issue with the seal (316) within D327. Any service to this area should be completed by an approved service agent.

For New Systems

- For customers that have purchased a new scare gun and it is not firing, ensure that the system has been set up correctly. Refer to page 3 for further information.
- Connect the extension barrel with the bolts provided, ensuring that the condensation drip hole is pointing down.
- Ensure that the gas bottle is tightly connected and free of leaks, conduct a soapy water test.
- If the customer can hear ticking over (functioning inside) but it wasn't firing, check that the lead connecting to the piezo is tightly connected on to the spike of the spark plug.
- Check the hand wheel (the in-built timer setting for the frequency) is turned fully anti-clockwise which will have the frequency at every 30 seconds. If the timer wheel is fully clockwise then it will be set to approx. 30 mins between bangs. This would mean that once setting up the system, you would have to wait 30 mins for the first bang.

Setting Up to Operate

- After removing the packing, fit the extension barrel 54 to the barrel of the firing Chamber 83 and tighten firmly the three screws 56 by means of a wrench or spanner. Ensure the welding is at the lower side, so that any water from rainy weather can escape through the little hole in the extension barrel.
- Take a full tank of L.P. gas, and before fitting the pressure reducing valve, open the valve of the gas tank for a moment so that a little gas can escape, then close the valve immediately.
- Connect the pressure reducing valve to the tank of L.P. gas. Be sure the seal is complete, and no gas can leak.
- Now open very slowly the valve of the L.P. gas tank, as not to damage the diaphragm 121 of the pressure reducing valve because of the quickly increased pressure. Regulate now the frequency of report of the scarer as indicated in point 1 of the operating instructions.

THE ABOVE INSTRUCTIONS AND THE OPERATION OF THE SCARER SHOULD ONLY BE DONE IN THE OPEN AND UNDER NO CIRCUMSTANCES IN AN ENCLOSED PLACE.

Operating Instructions

- The frequency of report of the scarer is adjustable. The time between two volleys can be adjusted between approximately 30 seconds and 30 minutes by means of the needle valve on the appliance itself. To increase the frequency, turn the handle 129 counterclockwise in the direction of the arrow on the dial 139. To decrease the frequency, turn the handle clockwise.

On the Double Bang, a volley consists of 2 successive detonations.

On the Triple-Bang, the volley consists consecutive of 1 - 2 - 3 - 1 - 3 - 2 detonations.

- To stop the scarer, close the main valve of the L.P. gas tank.
- To start the scarer operating again, open very slowly the main valve of the L.P. gas tank it will operate at the same frequency as previously set without any further adjustment.
- The scarers “B83” and “B93” are provided with a piezo-electric gas ignition mechanism of high capacity that will give at least 200,000 sparks without any other source.

General Maintenance

We would suggest the following steps to be done at least once a season however if your EXID Bird Scare Gun is exposed to extreme weather i.e. temperatures above 30 degrees or sandy conditions this should be done more frequently.

- Ensure the ground covering around the bird scarer is clean/clear.
- Inspect gas hose for wear and cracking. After time the hose ends will stretch. It is best these are cut off and re-clamped as required.
- Inspect the gas cylinder for damage and gas leaks.
- Check all connections are tight.
- Inspect for any damage to the scare gun itself.
- Check unit is operating correctly.
- Clean and oil unit –REMOVE LP GAS CYLINDER FROM THE BRID SCARER. THEN PULL OFF THE HOSE UNDER THE TIMING WHEEL TO REALEASE ANY BUILD UP OF GAS IN THE SCARE GUN.

Oil all working parts that are under part number 35 (cover) and part number 917 (back shield) with engine oil in an oil can.

It is important the hammer- Part number 908 is well lubricated as well as part number 308-305 and part number 314- these are some of the main working components within the scare gun.

Using an air compressor clean all areas of the gun, leaving it free of dirt, sand and any other foreign matters.

Whilst the back shield of the scare gun is off it is a good idea to remove and clean the jets- part number 85. You will need to do this with a .7mm drill piece as air simply won't shift anything inside the jet.

Ensure Part number 340D/S (lock nut and gland nut) are firmly tightened making the handle firm to turn and free of any gas leaks.

We recommend a major service of your scare gun/s at least every 12 months – 2 years.

This can be done at our store direct or at one of our current approved repair agents- PLEASE VISIT OUR WEBSITE FOR FURTHER DETAILS. www.adelaidehillsgas.com.au