

- *Chainmakers (NZ) Ltd* accepts no responsibility for damage to the Hunter Bird Scarer resulting from misuse.
- Always use your Bird Scarer safely.
- Always wear ear protection when in proximity of the Bird Scarer.
- Never stand in front of the barrel.
- Never put anything inside the barrel.
- Insure that the Bird Scarer is kept away from irrigation systems and stored in dry conditions when not in use.
- In areas with high winds it may be necessary to tether the Bird Scarer to the ground.
- The Bird Scarer should always be tested and operated in well ventilated areas.
- The gas bottle must remain upright at all times. Failure to do so results in contaminants getting into the gas line.

SETTING UP THE BIRD SCARER

Assembly

Please ensure you have been supplied with all componentry. In addition to the barrel and electronic box you should also have:

- 6 Legs
- 2 Batteries
- 1 Battery charger
- 1 Chain harness (to attach gas bottle)

1. Firstly remove all plastic wrapping from around the barrel. To assemble the Hunter Bird Scarer it should be laid on its side with the electric box facing upward. The upper legs can then be fitted onto the pivot, and the lower legs fitted to upper legs.
2. Next upright the Hunter Bird Scarer so that it is sitting on the legs just fitted. Now you can attach the chain harness to the 'S' clip at the base of the pivot.
3. Attach the gas bottle to the chain harness 'S' clips. A 3, 4 or 9kg LPG bottle should be used. The gas regulator should then be screwed into the bottle. Please note this is a left hand thread.
4. Finally fit the battery into the bracket below the barrel. The battery leads should then be connected. Red/Brown is positive. Blue/Black is negative. With the battery connected and gas turned on you are now ready to test fire the Hunter Bird Scarer.

TESTING AND SETTING UP THE REQUIRED PROGRAMME

Make sure the gas is turned on at the bottle and the battery leads are correctly attached. Set the amount of gas to be injected into the combustion chamber. For maximum sound volume set the gas control knob at 2 to 3 seconds. Note that in windy areas you may have to set the gas control knob higher, (say 5 to 6 seconds), to counter act gas being blown out of the Venturi tube.

Press the switch. This will fire one shot. Please note that after the initial shot, it takes eight minutes to come into programme.

Now select random or timed programme.

On 'Random' the Scarer will follow a programme of firing differing numbers of shots at random intervals. This programme goes through a 42 day cycle before it is repeated.

If the timed programme is chosen you can select from intervals between shots of 5 to 60 minutes. Next the number of shots should be chosen. 1 to 4 will give a set number of shots. Alternatively the 'R' setting will give a random number of shots on a timed programme. Note that a 15 second delay exists between a multiple number of shots.

HELPFUL HINTS WHEN USING YOUR HUNTER BIRD SCARER

- To maximise the benefits of your Hunter Bird Scarer we make the following suggestions:
- Move the Bird Scarer about regularly to increase its coverage. The legs are easy to take apart and rejoin.
- Never lie the gas bottle on its side. This increases the chance of contaminants getting into the gas line.
- Always have one battery on charge so you always have a fully charged battery available. Note you cannot damage or overcharge the battery by leaving it connected to the charger.
- Charge the programme, interval between shots, and number of shots regularly to increase the element of surprise.
- To maximise volume in windy areas turn up the gas supply to 4 or 5 seconds. This will compensate for gas loss from the Venturi tube caused by the wind.
- In areas of high winds it may be necessary to tether the Bird Scarer to the ground.

TROUBLESHOOTING GUIDE

If the Bird Scarer will not fire, the following check procedure should be carried out:

1. Check the gas bottle is full of LPG.
2. Check the 12 volt battery is fully charged. To do this accurately a multi meter should be used. A battery should have 12.3 volts charge to operate the Bird Scanner.
3. If the battery is charged and the gas bottle full, turn off the gas.
4. Undo the bolt holding the gas block/jet from the gas inlet/Venturi tube, so it hangs free. Note do not remove it from the gas line. Remove the lead and barrel and reconnect it to the spark plug lead.
5. The spark plug should then be earthed. This can be done by tying a non-insulated wire around the spark plug thread and attaching the other end of the wire to an exposed metal. The bolt holding the gas block into the venturi tube is suitable for this.
6. After earthing the spark plug, and disconnecting the gas block/jet the programme should be set to 'timed'. The 'timed' programme will give you the amount of shots and intervals you require. Next set the interval control to the minimum 5 minutes. Then set the number of bangs to one. The gas control should be set at 3 seconds.
7. Connect the battery leads to the battery (red positive, black negative).
8. Flick the test switch and wait 5 seconds. You should hear the gas solenoid open and close (clicking sound). As the solenoid closes check to see the spark plug fires. If the clicking sound can be heard the electrical system is working. If the Bird Scarer is still dead after replacing the fuse, the electronic box/cross member should be disconnected from the legs and barrel and returned to Chainmakers (NZ) Ltd for repair. Disconnect the gas line, earth lead and spark plug from the barrel. Also remove the legs. The gas regular should also be unscrewed from the gas bottle. The unit should now be ready for return.

9. If the gas solenoid is working, but the Bird Scarer won't fire, it may be necessary to inspect the spark plug. The spark should be visible to the naked eye when the spark plug has been removed and earthed to the Bird Scarer. If necessary clean the spark plug and re-gap to 2mm. If the spark plug needs replacing, replace it with a RN9LX Champion plug. Upon replacing the plug make sure the spark plug lead is pushed fully down onto the top of the spark plug. The spark plug should be checked every six months.
10. If you have spark and the electrical system is working the gas should be tested next. With the gas block removed from the gas inlet/venturi tube turn on the gas at the bottle. Again flick the test switch and hold on hand 5 to 6 inches above the gas outlet jet. Can you feel gas pressure coming through the jet after the gas solenoid opens? If not check bottle is full. Check to see the gas outlet jet is not blocked. This must be free of any dirt. A wire of up to .75mm diameter can be poked down the gas jet to remove any debris. Also check the timing of the gas solenoid opening and closing (2 clicks) with a watch or clock. It should be 2 to 3 seconds. The timing of the gas solenoid opening and closing can be altered from the gas control knob. To achieve maximum volume of sound this knob should be set at 2 to 3 seconds. Please note that any gas testing should be done in a well ventilated area or outdoors. The spark plug should remain earthed to the Bird Scarer as described in item 5. Also the gas bottle must remain upright at all times. Failure to do so results in contaminants getting into the gas line.
11. With the spark plug earthed and the gas switched off, set the toggle switch to the 'timed' programme (not random). The interval (between bangs) control should be set to the minimum of 5 minutes. The number of bangs should be set at 1 bang. The gas control should be set at 3 to 4 seconds. With the Bird Scarer set on these settings it should fire 1 bang in around 8 minutes and a further bang every 5 minutes after that. Please note that it takes around 8 minutes to come 'into programme' after firing the test switch or connecting the battery. Again you should hear the gas solenoid clicking and see the spark plug firing. Repeat this procedure with the number of bangs set on 2, 3, 4 etc. Please note that 'random' in the bangs settings will give you a different amount of bangs per firing on a timed programme. Also there is a 15 second delay between a multiple number of bangs.

You should now have located any fault. If further assistance is required contact

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A one year warranty from date of purchase applies to the Hunter Bird Scarer. *Chainmakers (NZ) Ltd* accepts no responsibility for damage to Hunter Bird Scarer resulting from misuse.