

## Instruction manual

# Purivox Carousel Triplex V

## Hazard warning - Purivox Carousel Triplex V



Please read the instruction manual very carefully before using and assembling the unit.



- Using the device indoors is not permitted.
- Never point the sound tube in the direction of people or flammable objects, because a small jet flame and a pressure wave will exit the sound tube.
- Note regulations in terms of storage, setting up and arranging the propane gas bottle.
- The Purivox Carousel Triplex V is only built for using in the agricultural sector (Proper use)
- Any other use is considered improper.
- For damage resulting from improper use. The manufacturer of the equipment shall not be liable.
- The Purivox Carousel Triplex V may only be used, maintained and repaired by persons over 18 years, who are acquainted with the equipment and informed of risks.
- The relevant accident prevention regulations as well as other generally recognized safety, health rules and regulations must be observed.
- Any modifications to the equipment shall immediately exclude the manufacturer from any liability or resulting damages.

## Contents

- 1 Hazard warning
- 2 Contents
- 3 Components - Purivox Carousel Triplex V
- 4 Electronic unit
- 5 Power supply / Batteries
- 6 Timer
- 7 Shot frequency
- 8 Volume
- 9 Number of shots
- 10 Assembly instruction
- 22 Spare parts - Electronic unit
- 23 Spare parts - Purivox Carousel Triplex V
- 24 Troubleshooting
- 25 Optional equipment - Mirror pyramid

### Notice:

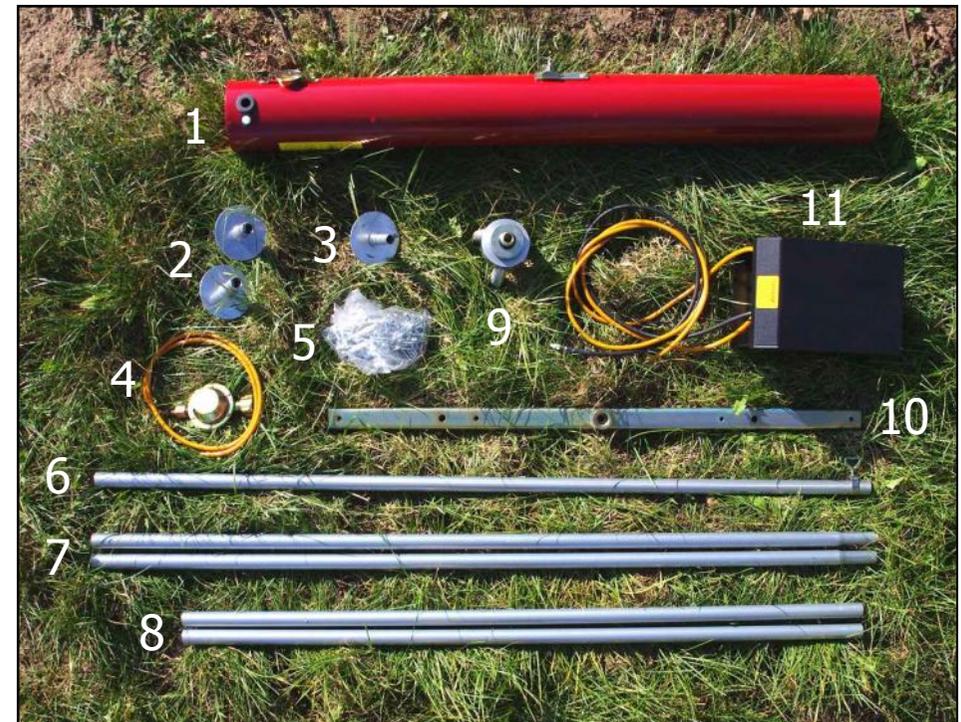
The gas regulator which is shown on all the pictures in the manual is a German gas regulator type. If you have ordered a unit with a POL gas regulator, the German regulator is replaced with a POL regulator.

Also the gas bottle can look different to the model that you are using.  
But always remember to use only certified propane gas bottles.

## Components - Purivox Carousel Triplex V



1. Sound tube (106040)
2. Foot plate big (102273)
3. Foot plate small (102275)
4. POL gas regulator complete (101660)
5. Cain 2m (102080)
6. Adjustable pole (102026 & 102028)
7. Pole long (102025)
8. Pole short (102023)
9. Tripod bearing block (102072)
10. Cross bar (102090)
11. Electronic unit (108510)



## Electronic unit

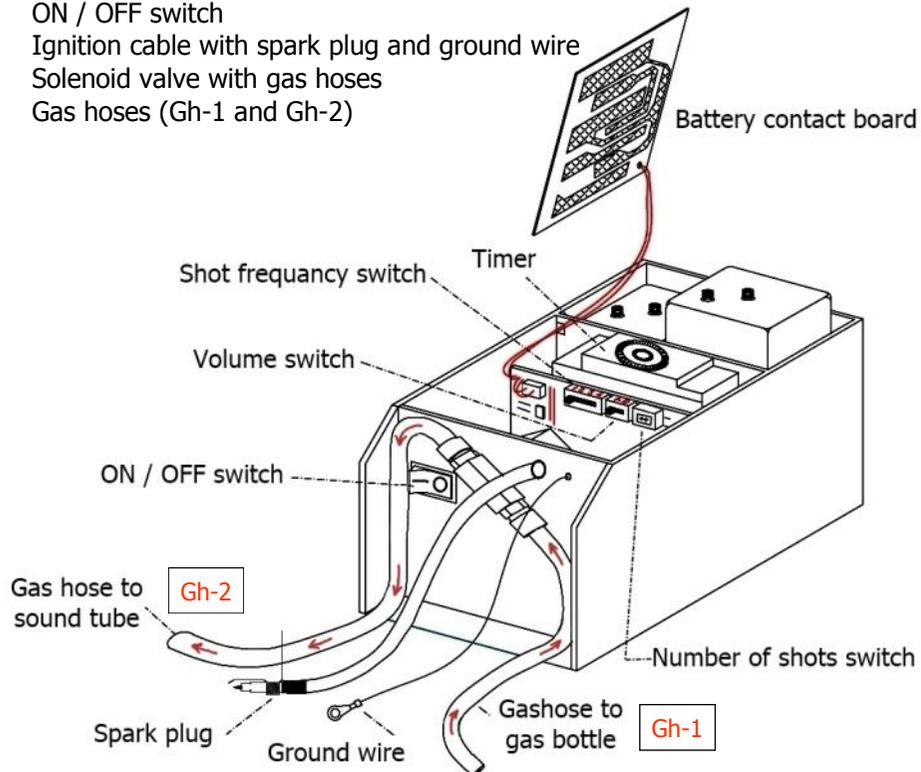
The controller is in a black weatherproof plastic case.  
To get to the operating elements and set up the unit, lift up the lid

### Inside of the Electronic unit:

- Battery compartment
- 24 hour Timer
- Switch for shot frequency
- Switch for volume
- Switch for number of shots

### Outside of the Electronic unit:

- ON / OFF switch
- Ignition cable with spark plug and ground wire
- Solenoid valve with gas hoses
- Gas hoses (Gh-1 and Gh-2)



## Power supply / Batteries

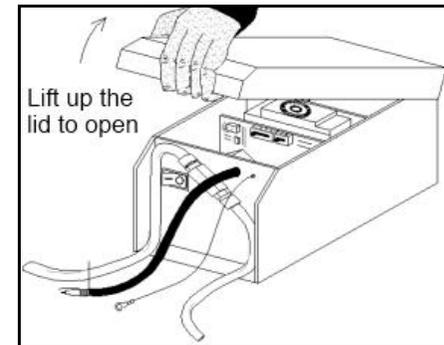
Before working on the batteries or inserting new batteries, make sure that the unit is turned OFF!

The ON / OFF switch is on the front of the electronic unit and is labelled with I for ON and 0 for OFF.

To insert the batteries release the locking by pressing the plastic plate direction the clock. The battery contact board can then be removed upwards.



**Important:**  
**The batteries must be removed when the unit is stored!**



Open the lid of the electronic unit (108511) and make sure that the paper strip between the batteries and the contact board is removed.

After this press the battery contact board back down to close it.

## Setting the timer

If the batteries are inserted and are in contact with the battery contact board the timer will directly start working  
To set up the timer, open the clear cover from the timer.

### Setting the actual time

By turning the inner disk **clockwise** the current time is set to the small arrow.  
One turn means one hour.

The little mark on the disc is meant to be the minutes. If the mark shows up it is one hour, to the right 1/4 hour, downwards 1/2 hour and to the left a 3/4 hour.

### Setting the work time

The clock is set from the factory so that it will work 24 hours. All cams are pushed outward. To set the pause time, the cams have to be pushed in.

Each cam stands for 30 minutes

**Cam outside / Unit works**

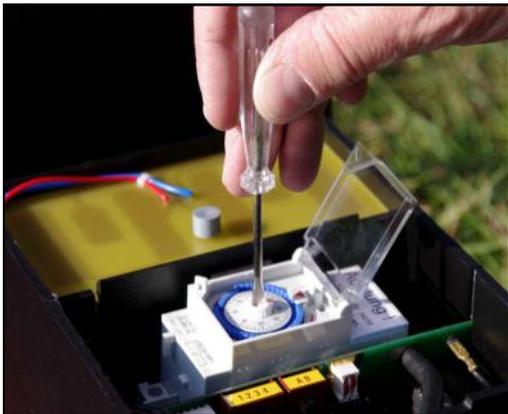
**Cam inside / Break (Unit doesn't work)**

The working time should adjust to suit the local conditions. It is recommended to observe the feeding times of the birds/animals and set the timer to suit.  
Council regulations may also need to be observed.

Switch **I AUTO 0** always in position "Auto"

### Important:

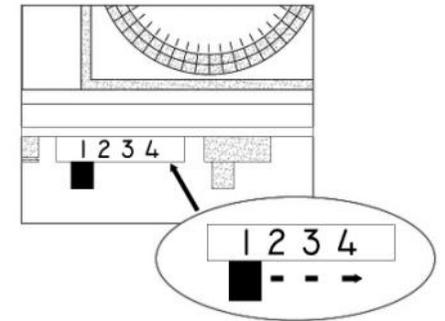
**NEVER** turn the timer anticlockwise!!



## Setting the shot frequency

You can choose from 4 different time frames, how long the pause time should be.  
The unit will then shoot randomly in that time to avoid habituation effect.

If the number of birds and wild animals is not large then it is possible to increase the pause time. In our experience, an intensive multi-shot approach with longer pause intervals is much better and more effective than lots of frequent shots.



Switch position	Break time
1	Break of 2 – 4 minutes
2	Break of 4 – 8 minutes
3	Break of 8 – 16 minutes
4	Break of 16 – 32 minutes

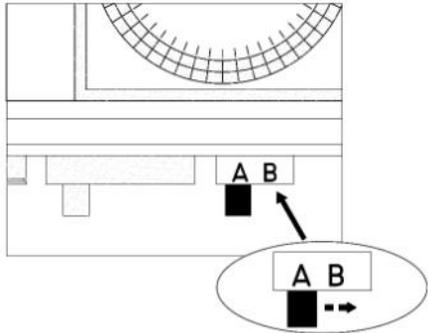


**The best thing is to start with a setup that bangs not so often.  
Only when the number of birds and wild animals is getting bigger then change the switch (for example from 3 to 2) to reduce the pause interval.**

## Setting the volume

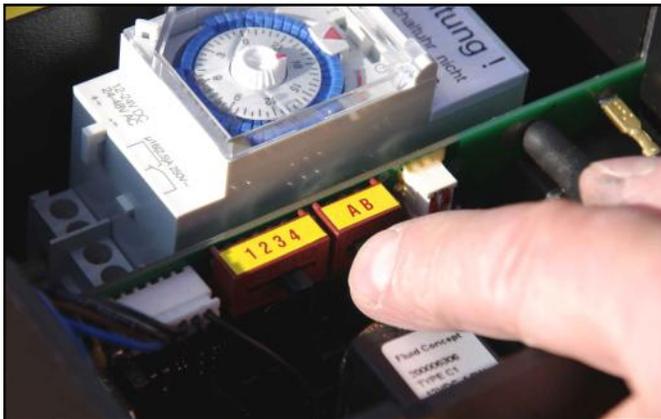
With a switch on the board the volume of the unit can be set in two different volumes

For the full volume the switch has to be on position **B**, for a reduced volume the switch has to be on **A**



Switch position **A** = Reduced sound level  
100m distance approx **90db(A)**

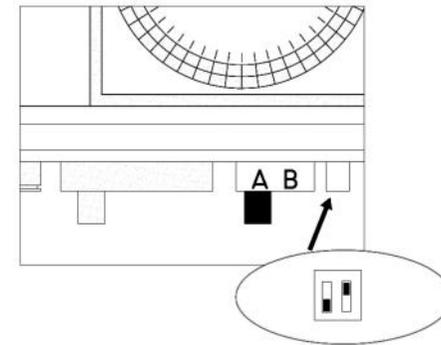
Switch position **B** = Full sound level  
100m distance approx **96db(A)**



## Setting the number of shots

Changing the number of shots only when the unit is turned off!

Wait 15 seconds before turning the unit on again so it can re-set properly.



- 1 shot = both switches up
- 2 shot = left up / right down
- 3 shot = left down / right up
- 4 shot = both switches down



The recommended number of shots is 3.

Tests have shown that the best results will be made with the 3 shots.

# Assembly instruction Purivox Carousel Triplex V



A standard propane gas bottle is required for normal operation.  
(Not included in delivery)

### Notice:

Propane gas bottle can look similar to the one which is shown in the manual.

Required tools:

Spanner (size 10) or  
socket wrench (size 10)

and

Pliers



Once the electronic unit is set.  
Close the lid of the electronic  
unit and turn the electronic unit  
over.

Now remove the wing nut, tooth  
washer and washer.

Take the cross bar (102090)  
and put on end with the hole on  
the screw.

Once that is done put the  
washer, toothed washer on the  
screw and tighten it firmly with  
the wing nut.  
Use the pliers.





Remove the wing nut, toothed washer and the washer from the thread on the sound tube (106040).



Once this is done the cross bar will be attached to the sound tube and tightened with the wing nut. Make sure that the cross bar is



Make sure that the opening from the sound tube for the spark plug shows in the same direction like the cross bar (see picture)



Remove the propane nozzle which is plugged into the gas hose (Gh-2) which runs away from the electronic unit.

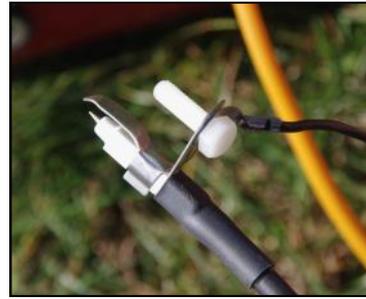
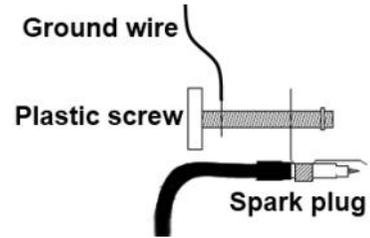


The propane nozzle will be screwed into the nozzle-bracket from the sound tube.



Now the gas hose is pushed onto the gas nozzle. Make sure that it is the gas hose (Gh-2) which goes away from the electronic unit.

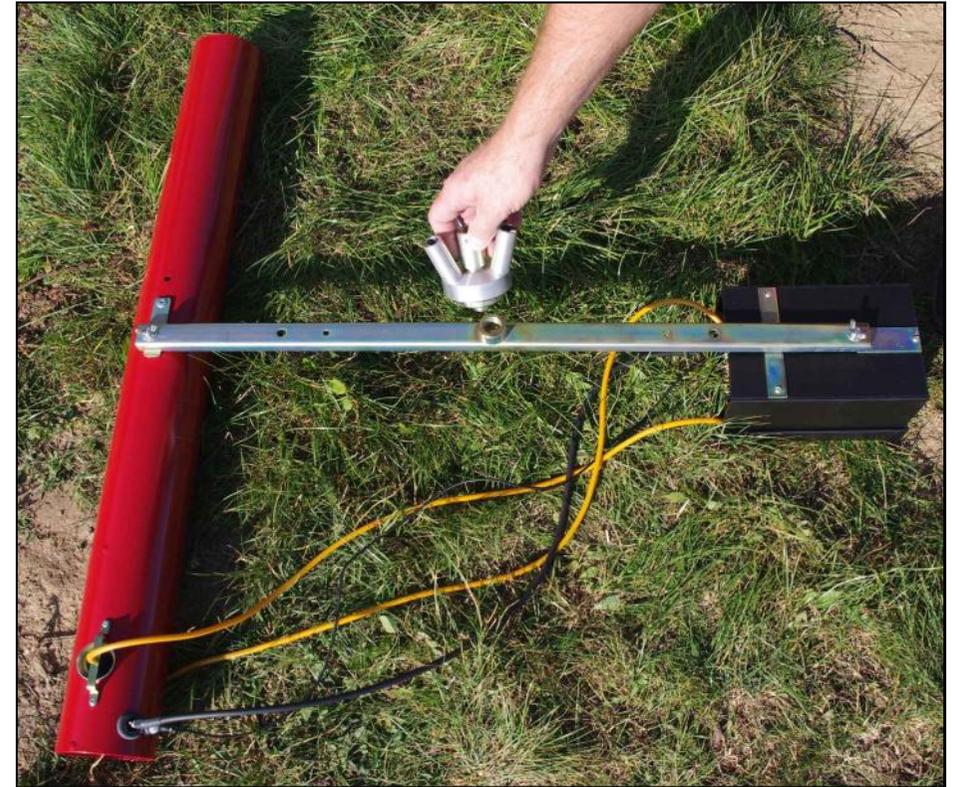




Unscrew the plastic screw from the thread insert rubber. Take now the plastic screw; slide it onto the ground wire and through the spark plug.



The spark plug is inserted through the opening of the rubber grommet. Then the plastic screw is screwed into the thread insert rubber and tightened firmly.



The bearing block (102072) will be screwed on the cross bar and tightened carefully by using a screwdriver.





Insert the big foot plates (102273) into the long poles (102025). Make sure to use the long poles. This will prevent that rainwater can run into the poles.

Now the short pole (102023) will be fitted to the long pole.



Take the adjustable pole (102026 & 102028) and put the small foot plate (102275) on. Now hold the previously assembled poles (long + short) next to the adjustable pole. Use the wing screw to adjust the length so that the adjustable pole has the same length like the other poles. After this place all three poles on the bearing block.



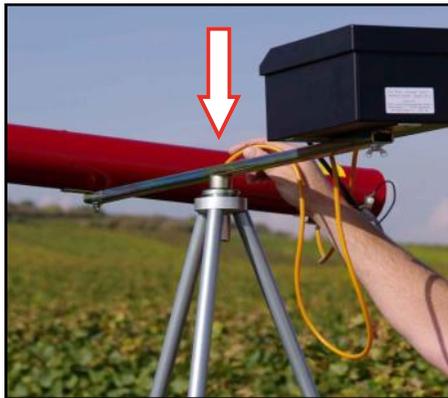


After all poles are mounted on the bearing block, the Purivox Carousel Triplex V can be turned over and put on the foot plates.

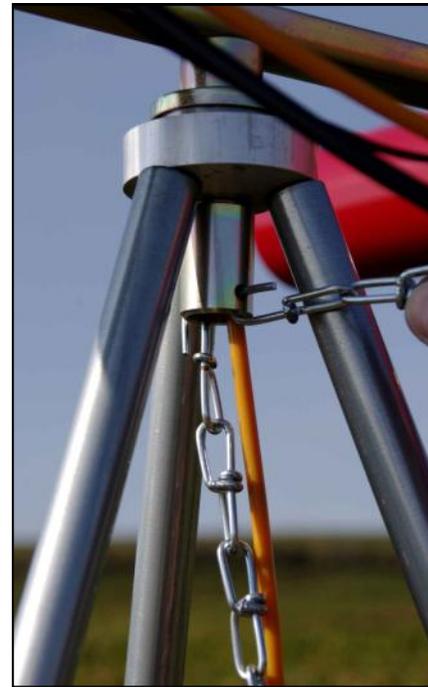


Using the adjustable pole the unit can be adjusted to the ground that the unit stands horizontally.

Slide the gas hose (Gh-2) trough the middle of the bearing block.

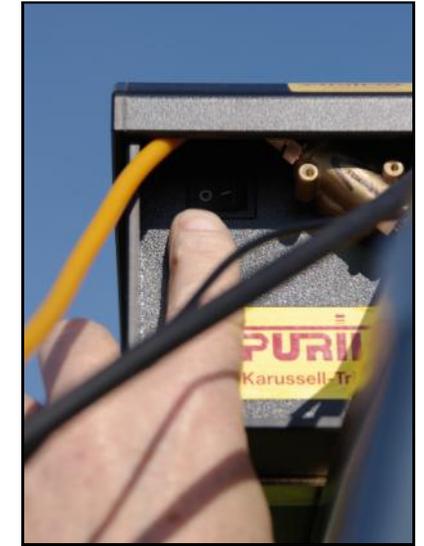
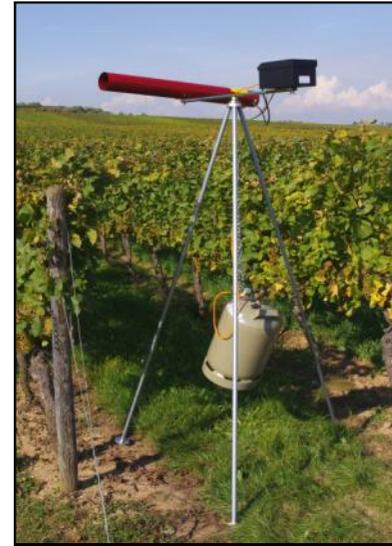


Hang one side of the chain (102080) with the sharp end of the hook pointing out of the bearing block. Move the chain through the handle of the bottle and attach the other end of the chain also to the bearing block (sharp end outside!)



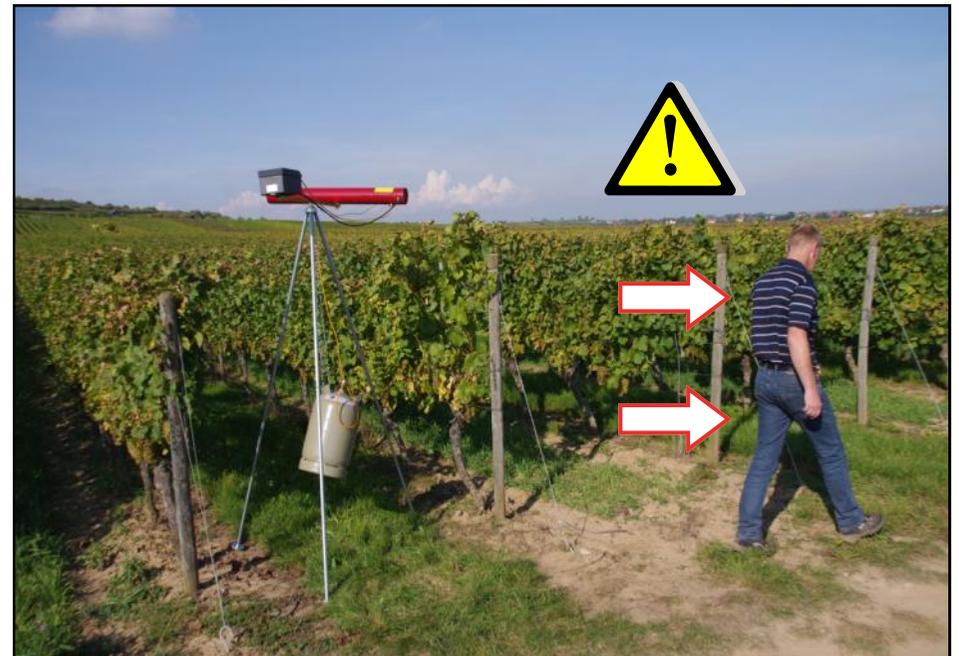


Screw the POL gas regulator (101660) on the propane gas bottle and connect the gas hose from the regulator with the gas hose (Gh-2) of the electronic unit. Take care that the two hoses are moved together completely.



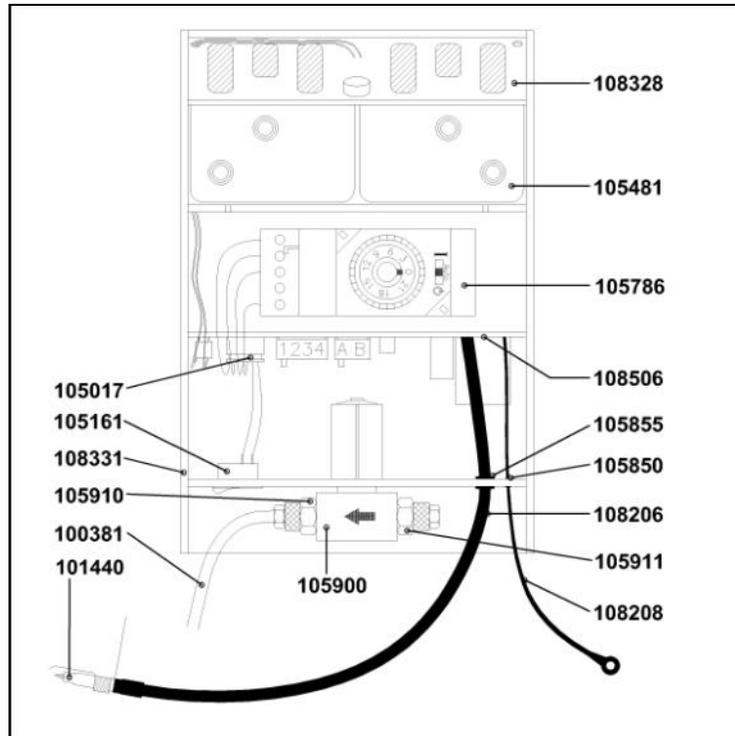
Open the valve of the gas bottle and switch on the unit.  
The unit will now start working.

**After the unit is switched on move immediately away from the unit!**



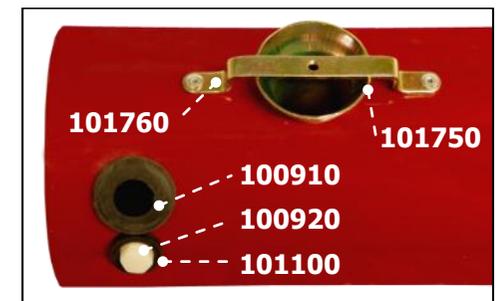
## Spare parts - Electronic unit

108511	Electronic unit for Purivox Carousel / Razzo Triplex V
108328	Battery contact board with cable
105481	Battery 6 Volt/7Ah
105786	Timer - Paladin 12 Volt
108506	Circuit board - Uplexa08
105855	Grommet DK 6/9/12-12 PVC
105850	Grommet 2/5/8-2
108206	Ignition cable for Purivox Carousel / Razzo Triplex V
105911	Straight fitting for solenoid valve with filter
108208	Ground wire for Purivox Carousel / Razzo Triplex V
105900	Solenoid complete
101440	Spark plug complete
100381	Gas hose / sold by meter
105910	Straight fitting for solenoid valve conical
108331	Plastic case with lid and spring plungers
105161	ON/OFF switch without cable
105165	ON/OFF switch with cable
105017	6-pin connector with cable



## Spare parts - Purivox Carousel Triplex V

108511	Electronic unit V for Purivox Carousel Triplex V
102090	Cross bar
106040	Sound tube
108332	Lid for electronic unit case
100920	Plastic screw M6x20
100910	Rubber grommet
103440	POP-blind rivet 3,2x10
101100	Threaded insert rubber M6
100412	Propane nozzle Ms60Pb
102280	Bracket
105016	Rubber buffer for electronics unit
102072	Tripod bearing block complete
102062	Sealing ring 17x4 for tripod bearing block
102061	Protective cover for tripod bearing block
102220	Circlip for steel shaft
102060	Bearing
102052	Tripod bearing block with foot parts 1-3
102054	Clamping spring for tripod bearing block / foot plates
101660	Gas regulator POL with hose, grommet and union nut complete
101610	Gas regulator POL
101570	Tail for regulator
101350	Union nut for regulator
101570	Tail for regulator
100401	Hose spout brass double nipple
102273	Footplate big
102275	Footplate small
101750	Injector
101760	Nozzle bracket
102080	Chain 2m long
106140	Bearing tube
102023	Stand pole short
102025	Stand pole long
102026	Stand pole adjustable out
102028	Stand pole adjustable in
100820	Washer 6,4x18 DIN 9021
100790	Toothed washer I6,4
101131	Wing nut M6
111127	Purivox Carousel Triplex V



# Troubleshooting

## Purivox Carousel Triplex V doesn't bang:

1. Check the gas bottle capacity; remove the gas hose from the solenoid valve and dip the hose into a bucket of water and open the gas valve.  
**Smoke or open fire in this situation can be dangerous!**
2. If the gas bubbles in the water, check the hose for leaks.
3. Check the hose connections on the solenoid valves. Is the direction of the gas flow the same as the arrow on the solenoid valve? Don't kink the hoses.
4. Is the propane jet from the jet hose screwed into the injector?
5. Battery check: Each battery must have a minimum voltage of 5 volts. Is the transmitter in function? If necessary check the voltage of batteries with a voltmeter in the workshop of your dealer. If the combined voltage has dropped to 9,0 volts, or the short circuit current of the single batteries drops under 1 ampere, replace the batteries.

**Notes: If the device is not in use you have to - in order to avoid damage to the electronic units by leaking batteries - remove the batteries mandatory. Close the unit and store it dry.**

6. Is the time at the timer set correctly? Maybe control.
7. Is the outside switch at position "1" ON?
8. Spark control. Is the spark cable intact? If the cable is damaged, please don't fix it by yourself! Warning: High voltage spark! Distance between the electrodes of the ignition spark should be approx 5mm. Test the controller function without gas flow turned on! Hold ignition spark plug holder together with the earth cable to the metal bracket. Don't touch the spark gap with your fingers while switching the unit ON. Don't run the earth cable and spark cable next to each other.
9. The unit has a self reset security safety element. Please watch out for potential short circuits between the connectors.

## Purivox Carousel Triplex V bangs at times, when it shouldn't bang.

10. Timer is set wrong.
11. The timer has no internal battery. So after removing the batteries or when the batteries are totally flat, the time must be reset when new batteries are fitted.

# Mirror pyramid

Using the optional mirror pyramid which is mounted on the top of the Purivox Carousel Triplex V adds a strong visual deterrent.

The mirror pyramid is especially made for protecting areas which are close to power lines and big trees. It reflects powerful light beams from the sun which will flash at any birds nearby. These blinding flashes cause the birds to fly off.

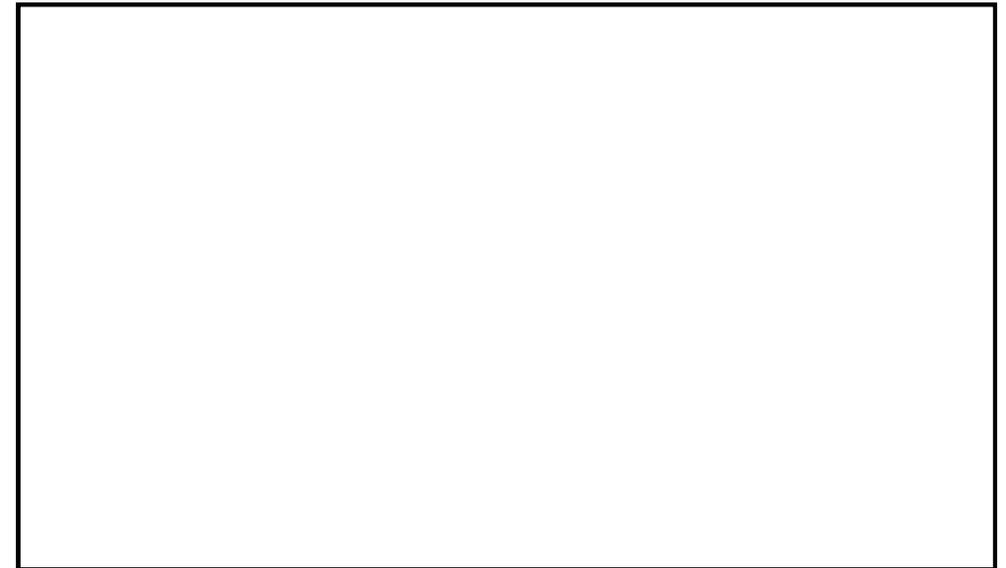
With the two different colors on the Pyramid, the scaring effect is reinforced.

The mirror pyramid is mounted on a rod to the crossbar of the Purivox Carousel Triplex V. With the rubber buffer fitted, the pyramid can wiggle. This means with every shot, the pyramid is wiggling and increases the overall effect of the unit.

Order No. : 111135



## Mirror pyramid



**PURIVOX Saat- und Ernteschutzgeräte GmbH**  
Hauptstrasse 11 D - 67308 Ottersheim  
Ph: 0049-6355/9543-0 Fax: 0049-6355/954329  
Internet: [www.purivox.com](http://www.purivox.com) Email: [info@purivox.com](mailto:info@purivox.com)