

CF-TRIPLE-JOHN CAROUSEL

INSTRUCTION MANUAL

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PURIVOX TRIPLE-JOHN ELECTRON INSTRUCTION MANUAL

When unpacking the PURIVOX TRIPLE-JOHN ELECTRON bird scaring cannon, you will find the following components:

- Main Power Controller (Black plastic electrical case with attached cables and hoses - See Figure 1)
- One megaphone with fastening screw
- One cross-bar (rotating beam)
- One bag containing the chain
- One bag containing the tripod centre piece
- Propane pressure reducer with hose (to be screwed into the propane tank)
- Three tripod legs (each leg consisting of two tubes which slide together)

It is advisable to identify all parts before proceeding with assembly of the cannon.

THE POWER CONTROL BOX

The main power controller is housed inside a black weather-resistant plastic case. To access the control circuitry remove the protecting lid by lifting the front of the lid as shown in Figure 1.

Inside you will find the:

- Battery plate & compartment
- Electronic (on/off) timer
- Shot Frequency Switch
- Sound level switch

On the outside of the control box you will see the ON/OFF switch, spark plug & ground wires, as well as the propane gas valve with attached hoses.

All items are shown on Figure 2.

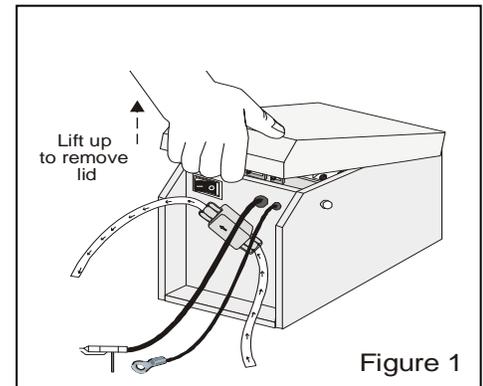


Figure 1

INSTALLING BATTERIES

Before installing the batteries, ensure that the ON/OFF switch located on the outside of the POWER CONTROLLER case is in the "0" (OFF) position.

To install the batteries, gently pull-up on the "battery plate lock" while lightly pressing the battery plate lock towards the timer. (See Figure 3.1) Insert two 6-volt lantern style batteries into the battery compartment. The orientation of the batteries is not important, just ensure that the spring terminals of each battery are facing up (Figure 3.2). Now insert the battery plate into the slot located on the back wall of the battery compartment (Figure 3.3) and press the opposite side of the battery plate down until it snaps into position (Figure 3.4)

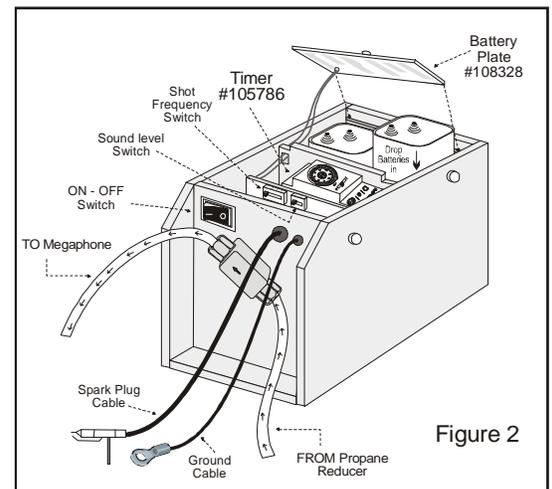
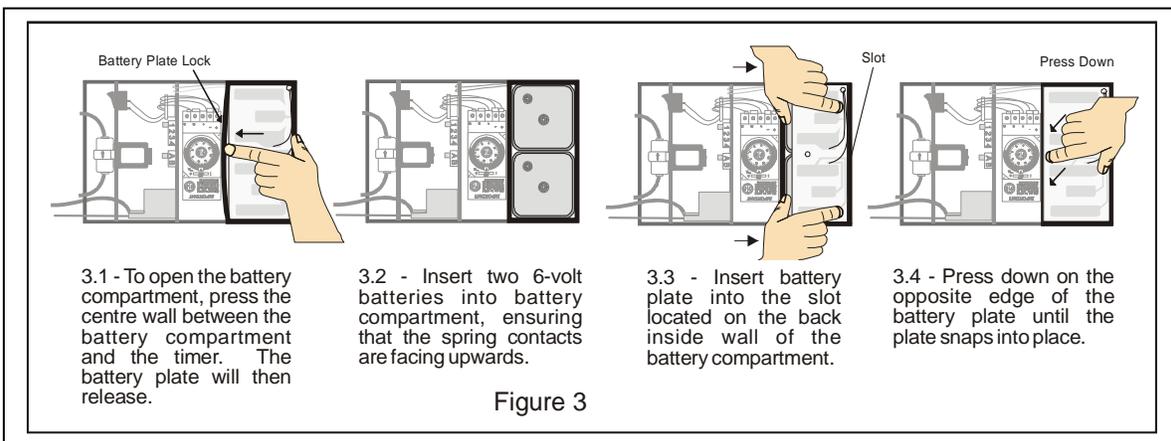


Figure 2

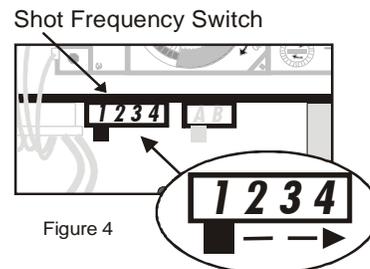


IMPORTANT: The batteries **MUST** be removed when the cannon is stored for the winter. One set of batteries should last for the entire “bird season”.

SETTING THE SHOT FREQUENCY

The SHOT FREQUENCY slide switch located on the circuit board INSIDE the POWER CONTROLLER CASE sets the time interval between each 3-shot sequence. In order to make the TRIPLE-JOHN Carousel’s firing sequences as unpredictable as possible, the timing intervals are randomized by the computer circuitry. The user, however, can select maximum and minimum time values between which the computer chooses random firing intervals. These settings are as follows: (See Figure 4)

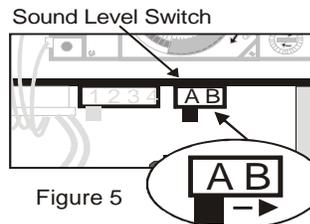
Switch Position	Timing Cycles
“1”	shots occur between 2 - 4 minutes
“2”	shots occur between 4 - 8 minutes
“3”	shots occur between 8 - 16 minutes
“4”	shots occur between 16-32 minutes



SETTING THE SOUND LEVEL

The PURIVOX TRIPLE JOHN ELECTRON can be operated at two sound-intensity levels. In order to operate the cannon at full sound output, set the SOUND LEVEL SWITCH (located on the circuit board inside the power control box) to the “B” position. To operate the cannon at a reduced sound level, the SOUND LEVEL SWITCH should be set to the “A” position. (See Figure 5)

- “A” = REDUCED sound output
- “B” = FULL sound output



SETTING THE TIMER

The programmable ON/OFF timer is located inside the POWER CONTROLLER CASE. (See Figure 6.)

Once the batteries have been installed, the quartz timer will start to "tick". To set the timer, lift the clear plastic cover which protects the time scale.

The timer is calibrated based on the 24-hour clock - i.e.:

6:00 a.m.	=	6
9:00 a.m.	=	9
12 noon	=	12
6:00 p.m.	=	18
9:00 p.m.	=	21
12 midnight	=	0

IMPORTANT

Only use the small screwdriver (enclosed in the power controller) to rotate the time dial. The DIAL can only be rotated by turning the WHITE DISC located in the centre of the time dial. See Fig. 6 Do not attempt to turn the outer dial itself.

ONLY TURN DIAL IN THE DIRECTION OF ARROW

Turning the time dial backwards will void the warranty.

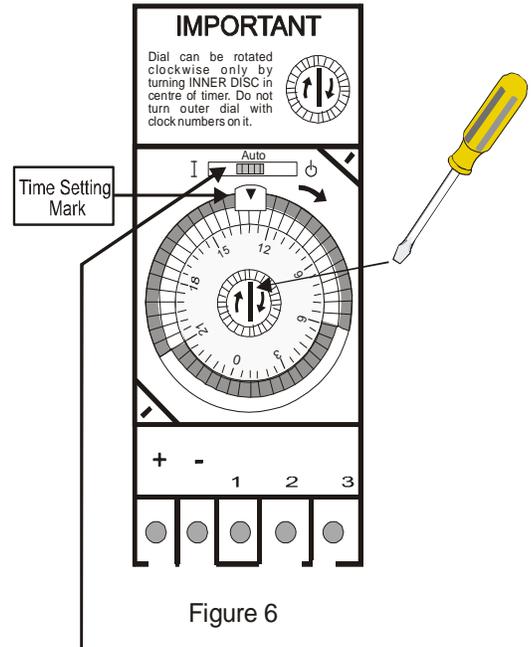


Figure 6

Ensure that the **MODE SWITCH** is in the **AUTO** position.

The time-setting keys are positioned around the entire dial. Each key represents a 30-minute time interval. These keys are used to set the daily START-UP and SHUT-DOWN times of the cannon. During the time period when the time-setting keys are pushed outward (away from the centre of the dial), the cannon is ON. When the time-setting keys are pushed inward (towards the centre of the dial), the cannon is OFF.

Time-setting keys OUTWARD	=	Cannon ON
Time-setting keys INWARD	=	Cannon OFF

Once the desired timing program has been set, the timer must be set to the present time of day. Using the screwdriver, turn the dial (using the white disc located in the centre of the time dial) in a clockwise direction until the present time of day lines up with the TIME-SETTING MARK (see Fig. 6).

Timer Set-up Example

You want the cannon to:

- Come on at 6:00 a.m.
- Run all day
- Shut off at 9:00 p.m.
- The “Present time of day” is 3:00 p.m.

Steps:

1. Lift the timer cover cap.
2. Slide the time-setting key next to the “6” outward (away from centre of dial).
3. Carefully slide the time-setting keys between 6 and 20 outward. Stop when you have reached the number “21” (Remember that “21” means 9:00 p.m.)
4. Slide the time-setting key next to the number 21 inward (towards the centre of the dial).
5. Now continue sliding the time-setting keys inward until you reach the number “6”. (All keys between the numbers “6” and “21” should be positioned OUTWARD [CANNON IS ON] while the keys between “21” and “6” should be positioned INWARD [CANNON IS OFF].)
6. Set the time by aligning the present time of day with the TIME-SETTING MARK. For our example, align the “15” (3:00 p.m.) with the time-setting mark.
7. Ensure that the time mode selector switch is in the AUTO position.
8. Close the timer cover.

Once the timer has been set and the shot timing cycles have been selected, and the sound power level has been set, replace the power controller cover as shown in Figure 7.

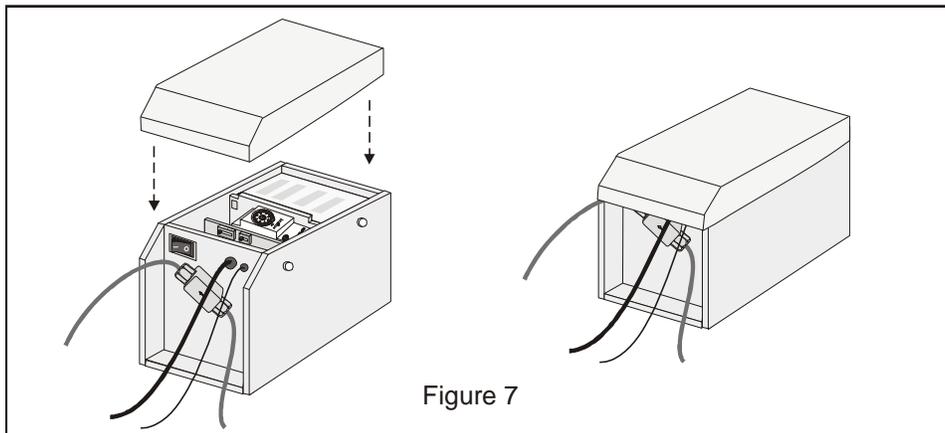


Figure 7

NIGHT-GUARD FEATURE (optional)

The NIGHT-GUARD feature is a secondary back-up system and provides peace of mind to the user to ensure that ones neighbours are not subjected to accidental night-time operation.

All Triple-John cannons are now fitted with the optional “NIGHT-GUARD” feature. This is an over-ride which automatically turns the cannon OFF at NIGHT.

Although the operation of the cannon is normally controlled by the built-in programmable clock timer, the NIGHT-GUARD inhibits night-time operation due to incorrect setting of the clock timer, failure to adjust the clock timer to compensate for changes in daylight hours or any other user error.

ASSEMBLING THE CANNON

1. TURN THE ON/OFF SWITCH ON THE OUTSIDE OF THE MAIN POWER CONTROL UNIT TO THE "O" (OFF) POSITION.
2. Securely fasten the main power controller to the cross bar using the wingscrew, washer and lockwasher (#101131) -- use the outer-most hole on the crossbar such that the controller is positioned at the end of the crossbar (with the cables and hoses facing inward)
3. Attach the megaphone to the crossbar (screw #102280) at a 90° angle (perpendicular), as shown on the back page of the manual. Be sure that the hole for the spark plug faces inward. (towards the power controller)
4. Screw the spark plug (#101440) and the ground cable (#108208) into the megaphone in the following manner:

- a) pick up plastic screw #100920
- b) slide ground cable lug over screw
- c) slide spark plug lug over screw
- d) screw into megaphone

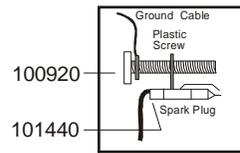


Figure 8

IMPORTANT: If the order of the components is not correct, the cannon will not operate properly.

5. Remove the propane jet (#100412) from the orange jet hose. Screw the propane jet into the megaphone (back, underside) and slide the jet hose over the installed propane jet.
6. Screw the tripod centre piece (#102072) into the centre of the crossbar (#102090).
7. Feed the other jet hose down through the centre of the tripod centre piece (See Assembly Diagram).
8. Assemble the tripod legs by inserting the upper sections (straight tubes) into the lower sections (tubes with attached stabilizing plates). Push the assembled tripod legs over the stubs on the tripod centre piece (#102072). The spring clips on the tripod centre piece will hold the legs in place. The cannon should be leveled using the adjustable leg and should spin freely.
9. Thoroughly clean the valve cup on the propane bottle. Seat the propane regulator by repeatedly twisting the cone into the cup on the propane bottle. Then tighten the nut (left-hand thread!). If the regulator is not properly seated, or the cup is not clean, the connection may leak.
10. Using the attached hose splicer, connect the jet hose from the regulator to the jet hose coming down through the tripod centre piece.
11. Connect one end of the chain (#102080) into the hole on the bearing tube (#106140). The other end should be fed through the handle on the propane tank and linked back into the chain so that the bottle hangs a few inches off the ground.

STARTING THE CANNON

The cannon should always be started in a controlled manner so that the operator is not subjected to the cannon shot at close range. Always start the cannon by following these steps:

1. Turn the ON/OFF switch (located on the outside of the POWER CONTROLLER BOX) to the "O" (OFF) position.
2. Open the valve on the propane gas tank.
3. Turn the ON/OFF switch to the "I" (ON) position.

The first series of shots will occur after approximately 5 seconds. Protect your ears and move away from the unit.

WARNING: If these steps are not followed the cannon may fire IMMEDIATELY after the propane tank valve has been turned on or the power switch has been turned on.

STORING THE TRIPLE JOHN

1. Remove the main power control unit from the crossbar.
2. Remove the batteries from the battery case so as to avoid possible leakage.
3. **STORE THE MAIN POWER CONTROL UNIT IN A DRY LOCATION (NOT ON A BARN FLOOR).**

TROUBLESHOOTING

If the cannon fails to operate, please check the following:

1. Ensure that the cannon is turned on. The switch must be in the "I" (ON) position.
2. Ensure that there is propane in the tank and that the tank valve is open.
3. Ensure that the batteries are OK. Each battery must be providing at least 5.5 volts.
4. Ensure that the ON/OFF clock-timer is properly set and that the present time of day is correctly set.

If the unit still does not function properly, please contact your dealer.

PARTS LIST

PART #	DESCRIPTION	PART #	DESCRIPTION
100381	Jet Hose	102072	Tripod centre piece complete
100401	Hose connector	102080	Chain
100412	Propane Jet	102090	Crossbar
100910	Rubber bushing for Sparkplug hole	102220	Circlip
100920	Plastic Insulating Screw	102273	Tripod stabilizing plate (fixed leg)
101100	Rubber grommet for p. screw	102275	Tripod stabilizing plate (adj. leg)
101131	Wing nut M6	102280	Megaphone mounting bracket
101350	Nut only for regulator hose	105016	Rubber Control Box mount/screw
101440	Spark Plug	105018	Control Box metal mounting frame
101570	Hose connector (nib only)	105161	ON/OFF Switch
101660	Propane regulator complete	105225	"Night Guard" sensor
101685	Hose clamp for regulator	105786	Timer (12V)
101750	Injector funnel	105900	Valve
101760	Injector bracket	105910	Hose connector (to valve) - outflow
102023	Tripod Leg (1/2) - shorter end	105911	Hose connector (to valve) - inflow w/filter
102025	Tripod Leg (1/2) - longer end	106040	Megaphone
102026	Tripod leg (adjustable - upper)	106140	Steel bearing tube
102028	Tripod leg (adjustable - lower)	108206	High Voltage spark plug cable
102054	Spring insert for legs	108208	Ground Cable
102060	Bearing	108328	Battery plate - with white connector
102061	Cover cap for bearing	108329	Lid for Control Box (fork closure)
102062	O-ring seal	108331	Control Box with lid
		108332	Lid for Control Box (ball closure)

TRIPLE JOHN CAROUSEL ASSEMBLY DIAGRAM

