



COOP SECURE[®]

AUTOMATIC POULTRY DOOR OPENER

INSTRUCTION MANUAL



This document can also be found on our website www.coopsecure.com.au

An automated door is a simple addition to your coop that will improve your day-to-day and also improve the lives of your birds. Have peace of mind that your flock is locked safely away from predators each night, and then catching those early worms while you sleep in! The Coop Secure unit will open/close a vertically sliding door with a weight between 0.4Kg and 1.4Kg. When darkness falls it will lower the door by unwinding the string until it is slack. At sunrise it will raise the door by winding up the string until it goes tight. The light level at which the door operates can be adjusted by you. Additionally, a second adjustment for delayed morning opening can also be made from zero delay up to 12 hours.

! PLEASE NOTE: Do not install the batteries until the unit has been installed and door attached to string.



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WEIGHT OF COMMON MATERIALS FOR A 250X300MM DOOR:

- 3mm Aluminium: 0.6kg
- 2mm Steel: 1.2kg
- 12mm Plywood: 0.55kg

INSTALLATION

1. Unscrew 4 **plastic screws** and remove front cover. Mount the unit with the 4 **metal screws** supplied in those same 4 outer holes. The unit must be installed on the outside of your coop and directly centred above your door.
2. Holding the door in its fully raised position, tie door to swivel.
3. Install the batteries and reinstall the cover with **plastic screws** (BEING CAREFUL NOT TO STRIP PLASTIC SCREW HEADS).
4. Check that the door closes at your desired darkness level (after your birds have gone back to the coop for the night). Adjust the 'door close light' level if required.

ADJUSTMENT DIALS: To adjust, **gently** use a Phillips head screwdriver:

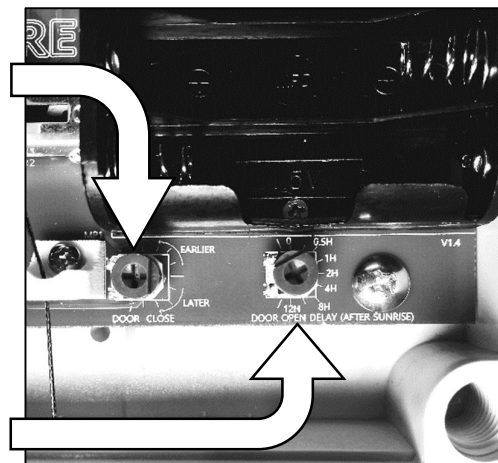
DOOR LIGHT LEVEL ADJUSTMENT (LEFT BLUE DIAL)

The light level required to open and close the door can be adjusted. The flat side of the blue screw indicates the light sensitivity. It is initially adjusted to half way (3 o'clock): appropriate for most situations. (Earliest setting looks like 11 o'clock and the latest 7 o'clock).

- CLOSE LATER: turn clockwise
- CLOSE EARLIER: turn anti-clockwise

DOOR OPEN DELAY - after sunrise (RIGHT BLUE DIAL)

All units are set to 0hrs delay, which means your unit will open at sunrise. If you want to delay the opening time in the morning simply turn the dial clockwise and the flat edge of the dial will roughly indicate how many hours later – up to a maximum of 12hrs delay.



TROUBLESHOOTING	
PROBLEM	
RED LIGHT (1 flash)	<ul style="list-style-type: none"> The battery voltage is getting low. Replace the batteries.
RED LIGHT (2 flashes)	<ul style="list-style-type: none"> The motor ran for longer than 90 seconds without the string going tight on raise or slack on lower. The most common cause of this would be a broken string. The door opener will not start again until the batteries are removed and reinstalled.
Door stops part way	<ul style="list-style-type: none"> Check that the door isn't getting stuck and can slide freely. Check that the door weight is between 0.35kg and 1.4kg. Check that string is centred on door and is pulling the door directly up.
Door doesn't move at all	<ul style="list-style-type: none"> Check batteries are not flat. Check batteries are installed in the correct direction. Check that the light level adjustment knob isn't adjusted too high or too low. Check that the door weight is between 0.4Kg and 1.4Kg. Check that the door isn't getting stuck and can slide freely. Check open delay adjustment (if not raising at sunrise). If testing the unit during daylight it is difficult to block enough light to activate the door.
Door opens/closes too early or late	<ul style="list-style-type: none"> Adjust the light level required to open/close the door (see Door Light Level Adjustment).
Poor battery life	<ul style="list-style-type: none"> Make sure that the door opener isn't being triggered excessively over night by sensor lights or vehicle head lights. Only use high quality alkaline batteries. Always replace all 4 batteries at the same time.
String snapped and wound all the way up into the door opener	<ul style="list-style-type: none"> Remove cover of unit and unwind approximately 20cm of string by flicking the loose end around the winch drum, use a toothpick, pin or tweezers to help. Re-thread the string within the unit (see guide below):

STRING REPLACEMENT

- Cut string to 1.1m
- Tie one knot in one end of string and trim excess close to knot.
- Thread the un-knotted end through hole (1) in the side of winch drum (tweezers may help).
- Thread the string through the next 4 guide holes (2,3,4,5).
- Gently pull all string out through guide hole 5 until the initial knot that you tied is snug against winch drum hole (1).
- Now tie the swivel to the loose end of your string.
- Keeping slight tension on string, install all batteries and allow mechanism to wind string all the way back into the unit.
- Once this is done, remove batteries.

Well-done! You are now ready to reattach the swivel to your door!

UNWINDING THE STRING (if required)

- Install the batteries.
- Then all at once, block ALL light to sensor, pull tension on string and do this for 5+ seconds until the mechanism is activated; simulating darkness can be difficult as the light detector is sensitive.
- Remove batteries to stop the string from unwinding.

TECHNICAL DATA

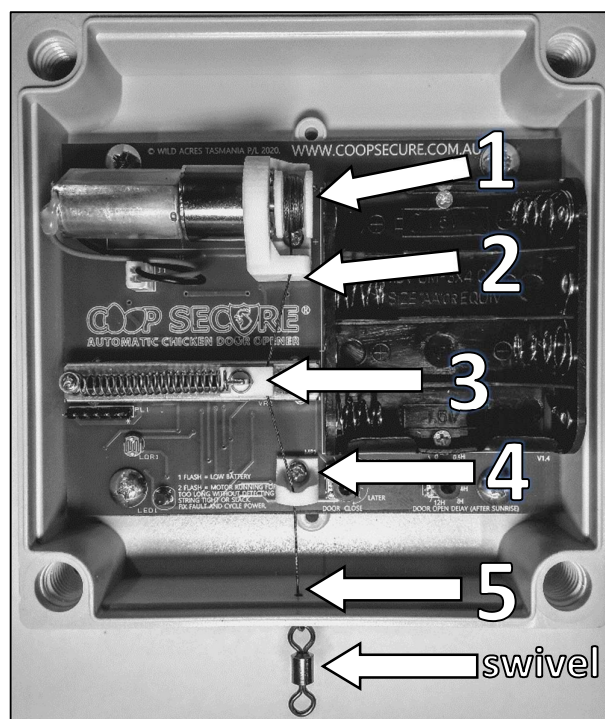
Operating Voltage: 6V (4x 1.5V)

Batteries: 4x AA alkaline batteries

Battery life: 3 Years (Based on one open and close per day)

Raise/lower speed: 2cm per second

String: Dyneema braid, 8 strand, 80lb/36kg, 0.5mm, 1.1m long



WARRANTY

Each unit comes with a 2-year warranty which will cover it in nearly all circumstances. It will not cover a customer if they have disassembled or damaged the unit by not following the manual; e.g. drilling new holes in the housing or removing the red circuit board.