




AUTOMATED COOP DOOR INSTRUCTIONS





DOOR TEST GUIDANCE

Q: When I block the light sensor, why doesn't the door close?

A: Check the below two possible reasons:

- 1) DO NOT use fingers to DIRECTLY cover the light sensor to test the door movement! This will fail this test! Because if the sunlight is bright enough (i.e. at noon), there still will be a little sunlight can pass through your finger and be captured by the light sensor, which will cause the sensor think it is not dark enough to close the door! So ONLY use a thick dark cloth or box to cover the light sensor!
- 2) **Manual mode** - If you have tested the manual open mode (pressing the  button for 3 seconds to manual open the door) BEFORE you test the light sensor, the light sensor test may will fail. Because the manual open mode is the override control, once you use the manual mode to open the door, the door will stay in manual open status for a period of time (*the duration depends on the sunlight brightness and other factors*) until it reaches the "manual mode exit condition", then the system will exit the manual control mode and return back to the automatic control mode. The light sensor test won't work in the manual mode and will only work after exiting the manual mode and returning back to the automatic control mode.

Under this condition, if you want to test the light sensor, two solutions:

- a) wait to the next day and test the light sensor again by blocking the sensor for 2 minutes, then the door will automatically close. (This is the recommended method as it is easier.)
- b) restore to the initial factory settings by press the  and  at the same time for 3 seconds. This operation will clear all the user settings.

Then start over to set the current time and other operation values, BUT DO NOT test the manual open mode before you test the light sensor, otherwise the door won't close, you can test the manual open mode later after you complete the light sensor test.

Follow above tips to block the light sensor for 2 minutes, the door will automatically close.

For further assistance, please contact:

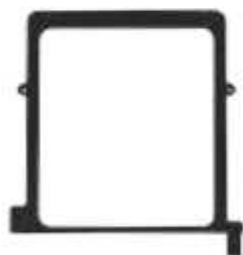
questions@mannapro.com

WARNING

- If using an external power adapter instead of batteries, **ONLY** use a DC 6V 1A power adapter, otherwise it will destroy the opener.
- **CAUTION:** Keep fingers clear of moving door and cord. Motor start without warning.
- This chicken coop door opener is **NOT** a toy. Children should not play with it and must be supervised by an adult when using it.
- If using an alternative door, make sure the door weighs less than 2.2 lbs, otherwise it may damage the motor.

INSTALLATION INSTRUCTIONS

PARTS LIST:



Top half door frame



Bottom half door frame



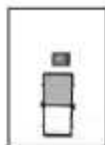
Aluminum door



8 screws



Control box



User manual

Tools required:



Phillips screwdriver

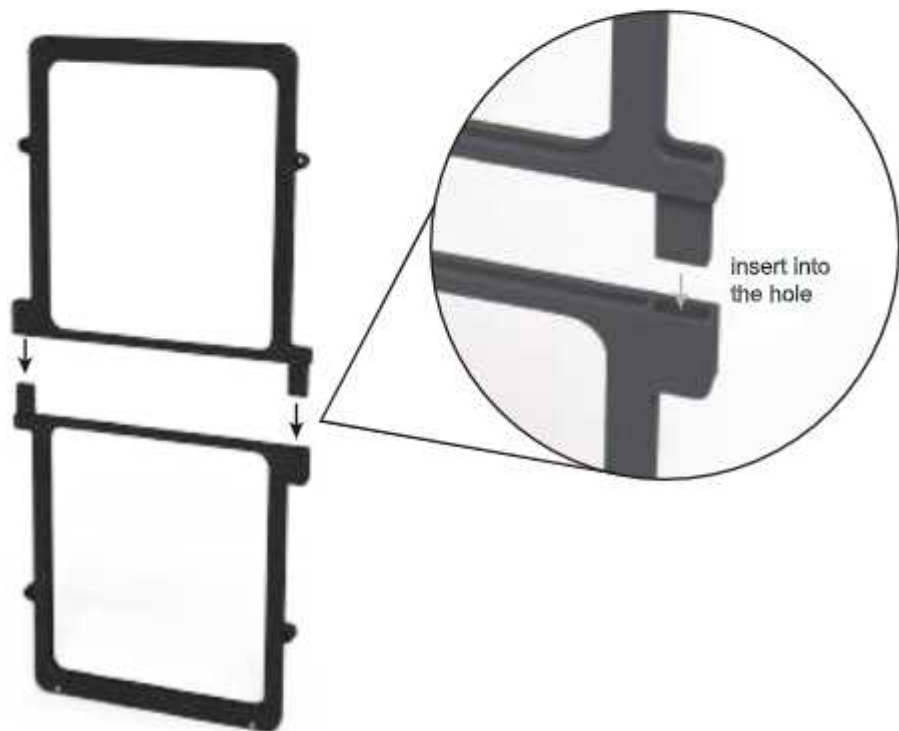


Spirit level

CAUTION - ONLY use hand tools to tighten screws gently. High torque power tool could crack plastic.

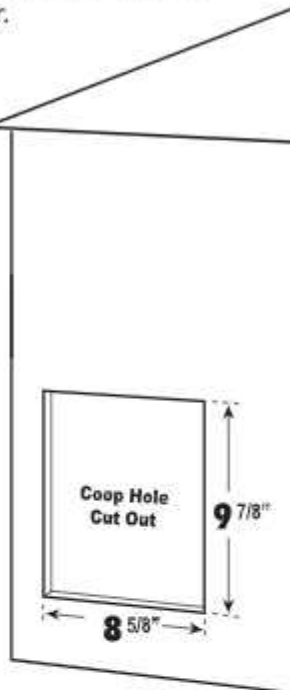
INSTALLATION INSTRUCTIONS

- 1) Connect the two halves of the door frame to be one whole piece, by inserting the top half door frame into the bottom half door frame.



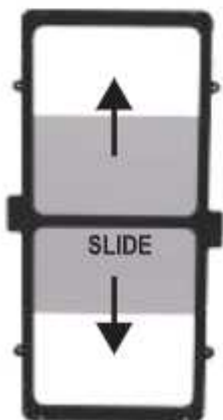
- 2) Place the door frame onto your coop door opening and align it vertically using a spirit level. Then secure with 4 screws, included. The door frame must be exactly vertical, otherwise the door will not be able to move up and down freely on the rails and will damage the motor.

Use spirit level to check



NOTE: There are two screws used as a close position limit when the door is closed. The door frame must be installed in this orientation.

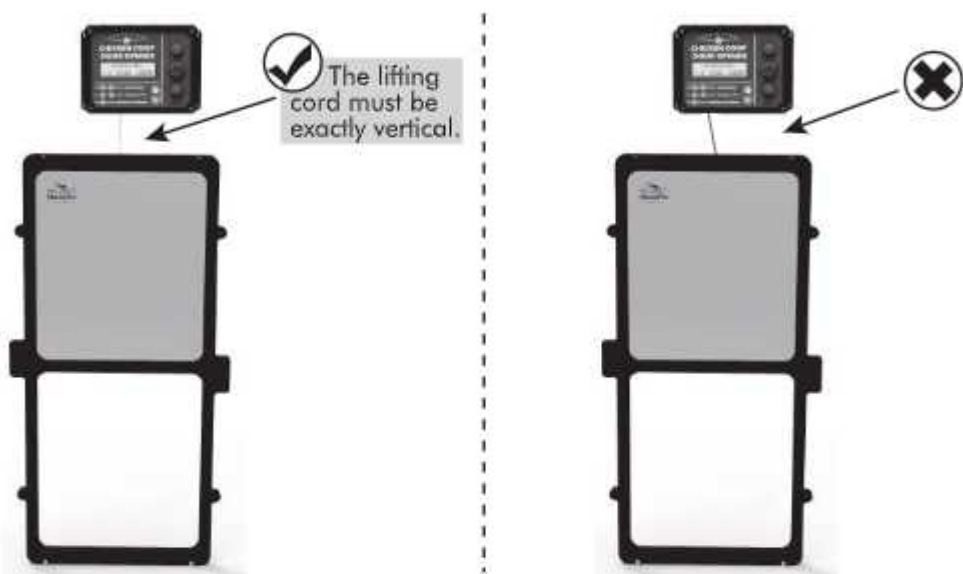
- 3) Slide the aluminum door into rails and check if it can move up & down freely on the rails.



IMPORTANT NOTE:

Check if the door can move up and down freely on the rails. If not, it will cause the battery to drain very quickly and may trigger the "DOOR JAMMED" warning message.

- 4) Align the control box above the door on the coop, ensuring that the lifting cord at the base of the control box is straight above the metal door without any bends. **Allow a gap of at least 3-4 inches between the bottom of the control box and the top of the aluminum door when the door is in the fully open position.** When the control box is at the appropriate height and the lifting cord is aligned exactly vertical above the metal door, mount the control box to the coop with 4 screws, included.



PROGRAMMING INSTRUCTIONS

INSTALL THE 4 X AA BATTERIES:

- 1) Open the black rubber cap on the right side of the control box and gently pull out the battery holder.
- 2) Install 4 pcs AA(1.5V) batteries
- 3) **Use ONLY Alkaline AA batteries. DO NOT use carbon zinc batteries.**
Use of 9V or rechargeable batteries can damage or destroy the unit.
- 4) When the batteries need changing (less than 5% battery life), the red LED on the front panel will blink continuously, and the screen will display "Replace battery soon", this message will remain until new batteries are installed.

Operating Mode*
(3 available modes:)
Light - Light (L - L)
Timer - Timer (T - T)
Light - Timer (L - T)

*Unit also has manual override open-close control.



Battery Level

Light Sensor

Door Closed Indicator Light
(green light flashes every 40 seconds when the door is closed)

CURRENT TIME SETTING:

Once the batteries have been installed, the system will ask to set current time. This is a 24-hour clock system. Press **↑** or **↓** to set the hour value, then press **SET/OK** to advance to the minute value setting. Then press **SET/OK** to save the time and exit to the main screen.

NOTE: To update the clock in the future, press and hold **SET/OK** and **↑** simultaneously for 3 seconds to reset the current time.

DOOR CALIBRATION:


After setting the current time, return to the main screen and set the door position calibration, so the control box can access to the "door open" and "door close" positions. If the control box has not yet been calibrated, the "CAL" icon will blink on the left corner of the screen and the red LED will flash every 5 seconds. In order for the door to be able to open and close automatically, the control box requires manual calibration of the door opening and closing position prior to use.

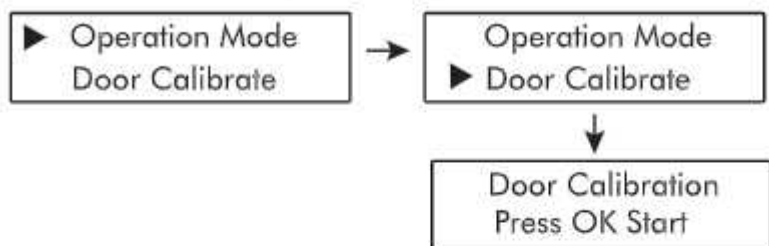
CAL MANNA PRO
L - L 10:15 (100%)





CAUTION!



NEVER calibrate the door position until you have installed the control box on your coop and attached the lifting cord to the metal door. During calibration process it is important to ensure the lifting cord maintains tension to prevent it from unraveling from the spindle inside the control box. If the calibration is performed without maintaining tension, the lifting cord will not be able to spin tightly and correctly to the internal spindle. This may cause the lifting cord to get stuck on the spindle and damage the opener.

When the opener is fully installed on your coop, please follow these steps to calibrate the door position:



- 1) Press and hold  for 3 seconds to enter setting mode. "Operation Mode" will flash on the screen. Then press the  button to scroll to "Door Calibrate" mode and press the  button to select it.




- 2) Press  again to start the door calibration. The screen will display the following text to guide you to calibrate the door's fully open position. Press  or  to move the door to your fully desired open position. When the door has moved to the fully open position, press  to save it. (REMINDER: There must be at least a 3-4 inch gap between the bottom of the control box and the top of the metal door when the door is in the fully open position)

Press  or 
until fully open

Press OK when
door fully open

- 3) Once the OPEN POSITION calibration is completed, the system will guide you to the CLOSED POSITION calibration. The screen will display the following instructions. Press  to lower the door to the fully closed position. When the door has moved to the fully closed position, press  to save it and exit the calibration mode.

Press  until
door fully closed

Press OK when
door fully closed






- 4) Once the door calibration is complete, the door will automatically open to the programmed fully open position. NOTE: If the door stayed closed after the calibration was completed, the calibration settings were not successfully saved. The calibration steps will need to be repeated.





DOOR CALIBRATION
****COMPLETED****

IMPORTANT NOTE FOR RECALIBRATION

Any time the batteries are removed, the system will forget the door position information. Remember to recalibrate the door position each time you replace the batteries, otherwise the door will not move and the red light will continue flashing.

OPERATING MODE SETTING:

At the main screen, press and hold  for 3 seconds to enter setting mode. "Operation Mode" will flash on the screen. Press the  button again to select and open operation setting mode. Then use  or  to scroll between the 3 available operating modes (L-L, T-T, L-T) and press  to select the preferred mode. Then the menu for the detailed open/close settings will appear.

OPERATING MODE	OPENING IN THE MORNING		CLOSING IN THE EVENING	
	Light Sensor 	Timer 	Light Sensor 	Timer 
L-L (Light - Light)	✓		✓	
T-T (Timer - Timer)		✓		✓
L-T (Light - Timer)	✓			✓

Light Sensor:

This option is for automatically opening the coop door at dawn or closing it at dusk using the built-in light sensor.



Timer:

This option is for opening the door in the morning or closing it in the evening at the programmed time.


For the detailed settings in each operating mode, see the descriptions below:

1) L – L (Light - Light):


This operating mode uses the light sensor to automatically open the door in the morning and automatically close the door in the evening. The default setting is to open at 120 (light value) and close at 40 (light value).

To adjust the open or close light trigger values, use the  or  to adjust the value of light at the appropriate menu prompt. The light value can setting can be adjusted from 1 (complete darkness) to 180 (complete brightness), with the lower numbers representing darker light settings and the higher numbers representing brighter light settings.

MANNA PRO
L - L 10:15 (100%)

Press and hold  for 3 seconds to enter setting mode.




▶ Operation Mode
Door Calibrate

Press  again to select and enter into operation mode setting.




OPERATING MODE
LIGHT – LIGHT

Press  to select this L-L mode.

OPEN LIGHT: 120
CURRENT LIGHT: 173

Open light setting:
Use  or  to adjust the open light value (if needed), press  to move to close light value setting.

CLOSE LIGHT: 40
CURRENT LIGHT: 173

Close light setting:
Use  or  to adjust the close light value (if needed), press  to save and exit.

In the open/close light value setting screen, you can also see the "CURRENT LIGHT" value based on the current amount of available sunlight. This is a reference value that may be helpful for understanding how the sunlight levels relate to the light sensor values. **NOTE:** The light sensor is at the front of the control box. Make sure not to stand directly in front of or block the light sensor while adjusting it. This may cause the "CURRENT LIGHT" value to be lower than the actual current sunlight value.

If you have tried several times but still can't adjust the light open or close value to your desired time, please feel free to contact us at the below email:

Questions@mannapro.com

2) T - T (Timer - Timer):

This operating mode uses the clock to open/close the coop door at your programmed times.

MANNA PRO
L - L 10:15 (100%)

Press and hold **SET/OK** for 3 seconds to enter setting mode.

▶ Operation Mode
Door Calibrate

Press **SET/OK** again to select and enter into operation mode setting.

OPERATING MODE
TIMER – TIMER

Press **↓** to scroll to T - T mode. Then press **SET/OK** to select this T - T mode.

OPEN TIME
08:00

Open time setting:

Use **↑** or **↓** to set the hour. Then press **SET/OK** to advanced to minute setting and use **↑** or **↓** to set the minute. Next press **SET/OK** to advance to close time setting.

CLOSE TIME
19:00

Close time setting:

Use **↑** or **↓** to set the hour. Then press **SET/OK** to advance to minute setting and use **↑** or **↓** to set the minute. Next press **SET/OK** to save and exit.


3) L - T (Light - Timer):

This operating mode is using the light sensor to automatically open in the morning, then using the timer to automatically close in the evening at your set time.



MANNA PRO
L - L 10:15 (100%)

Press and hold  for 3 seconds to enter setting mode.

▶ Operation Mode
Door Calibrate



Press  again to select and enter into operation mode setting.

OPERATING MODE
LIGHT - TIMER

Press  to scroll to L - T mode. Then press  to select this T - T mode.







OPEN LIGHT: 120
CURRENT LIGHT: 173

Open light setting:

Use  or  to adjust the open light value (if needed). Then press  to advance to the close time setting.

CLOSE TIME
19:00

Close time setting:

Use  or  to set the hour. Then press  to advance to minute setting and use  or  to set the minute. Next press  to save and exit.

MANUAL OVERRIDE OPEN/CLOSE MODE:

To manually open the door, press  for 3 seconds.

To manually close the door, press  for 3 seconds

USING EXTERNAL ELECTRIC UTILITY POWER:

If you would like to use electric utility power instead of AA batteries, then you will need to buy a **DC 6V 1A** power adapter(not included).



WARNING

- ONLY use a DC 6V 1A power adapter with a 5.5 X 2.1 mm output connector. If the output voltage of your power adapter is higher than 6V, the opener will be **DAMAGED**.
- The power adapter is designed for indoor use only, **NOT** for outdoor use. The power adapter **MUST** be installed inside a dry room.

CAUTION:

DO NOT USE THE POWER ADAPTER AND THE BATTERIES AT THE SAME TIME, WILL DAMAGE THE UNIT SOON!

Prior to plugging in the external power adapter, remove the batteries from the door opener. If the batteries are not removed while using the external power adapter, the following battery warning message will display, and the LED will flash every 5 seconds as a reminder to remove the batteries. So use **ONLY** the batteries or the external power adapter, but can't use both at the same time.

REMOVE THE
4 AA BATTERIES!

Once using the external power adapter, the battery indicator will display "EPS", "EPS" means "External Power Source".

MANNA PRO
L - L 12:00 (EPS)

For further assistance, please contact:
questions@mannapro.com