

SKU#2293825  
IMP 12 EGG INCUBATOR

User's Manual



## **Please read the instructions carefully before use.**

- \*This device can only be used with the power unit that comes with the device.
  - \*Damage appliances must not be used.
  - \*The appliances and its supply cords must be placed indoors area, and it shouldn't be placed in the place which is in wet conditions. Keep it from animals.
  - \*Repairs must be carried out only by a suitably qualified person.
  - \*This appliance must not be used, cleaned or maintained by children or persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge without supervision.
  - \*Children must not play with the appliance.
  - \*Disconnect the incubator from the main power supply during cleaning. Ensure all electrical parts are kept dry.
- \*This manual includes recommended procedures for successful hatching, but incubation involves large number of factors and different procedures may be necessary in certain circumstances.
- \*Your incubator is designed to allow the user to vary the incubation conditions to suit a variety of species in different ambient conditions and the specific set-up for every situation is beyond the scope of these instructions.
- \*Not all species require the same incubation environment. Please research according to the species of bird prior to incubation.

### **Note:**

If you want to use your own thermometer/ hygrometer to verify incubator:

1. Suggest using the liquid thermometer.
2. Use a device with a probe that has a temperature accuracy of  $\pm 0.5^{\circ}\text{F}$  and a humidity accuracy of  $\pm 2\%$ .

### **How to reset incubator?**

- \*Press the "CYCLE" and "SET" button for 3 seconds at the same time, until you hear the "Beep" sound 3 times and see the screen display "8888888", indicating that the reset is successful.
- \*If you do not see "8888888" or hear "Beep" sound 3 times after pressing "CYCLE" and "SET" buttons, but see the display on the left side flashing, it means that you have entered the countdown setting. If the display on the middle and right side blinks at the same time, it means that you have entered the temperature and humidity mode setting, which means you did not press the two buttons at the same time. This will cause the incubator reset to fail, please try again until the display screen displays "8888888" and you hear a "Beep" sound 3 times, indicating a successful reset.
- \*When the hatching cycle is completed, the egg turner will stop working. Make sure you reset the incubator before starting a new hatching cycle.

### **Power adapter note:**

- \*Don't disassemble power adapter. Disassembly may result in a risk of electric shock or fire.
- \*To reduce the risk of electric shock, unplug the power adapter from the outlet when not in use.

# **IMPORTANT NOTES NEED TO KNOW BEFORE USE**

## **1)Automatic egg turner test run unavailable for last 3 days?**

Egg turner will auto-stop turning for last 3 days before hatching to avoid excess turning to eggs. For the same purpose, the egg turning test run function also will be temporarily unavailable during that time in case eggs being unintended turned if users try this turning test run function in last 3 days.

## **2)Automatic egg turner not working for the 2nd time use?**

The automatic egg turner won't work if the built-in timer countdown is less than 3 days. When the hatch is completed, the timer will countdown to 0 days but won't automatically reset to 21 days to start a new round of countdown. So each time before you start a new incubation, always remember to reset the timer after you put in new eggs, otherwise the automatic egg turner won't work. Egg turning test will also not work until the timer is reset to 21 days.

## **3)Verify temperature and humidity level**

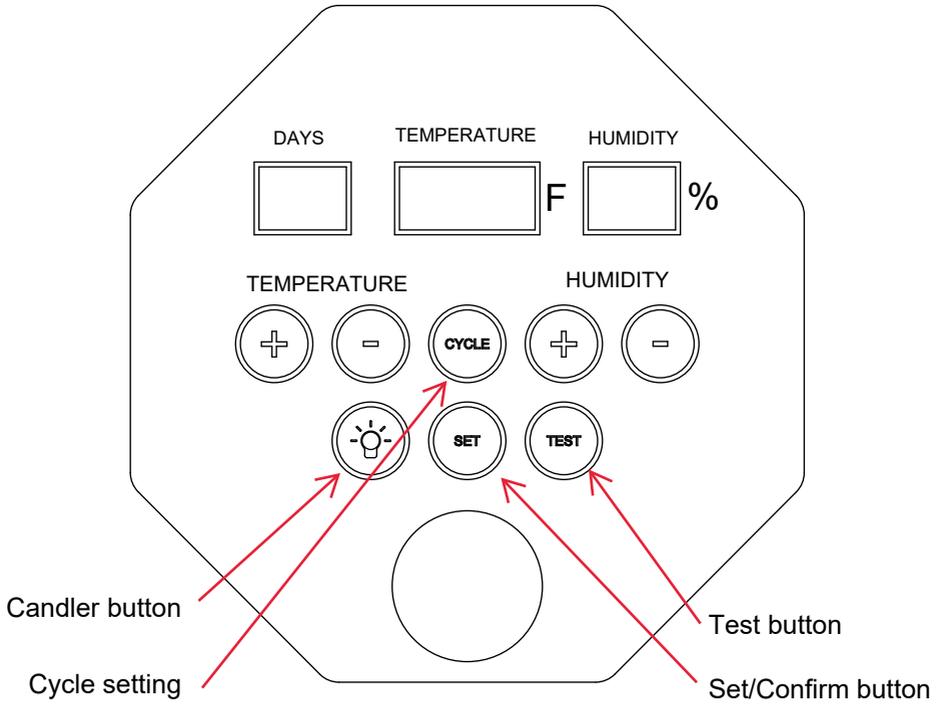
If you use your own digital thermometer and hygrometer to test the temperature and humidity, you may find that the temperature is slightly below 100 ° F. A margin of error can be expected between your digital thermometer and hygrometer with the incubator's built-in thermometer and hygrometer. Your digital thermometer and hygrometer will not react as quickly as the built-in thermometer and hygrometer. This incubator has already been calibrated from the factory and can be use directly.

[www.tractorsupply.com](http://www.tractorsupply.com)

For customer support: Call 1-888-376-9601

We stand behind our incubators, if any questions, please feel free to contact us.

# 1 CONTROL PANEL INTRODUCTION



## 2 FUNCTION INTRODUCTION

### Setting Temperature/Humidity:

Press "SET" button once, both the temperature and humidity displays will begin flashing. Press temperature plus and minus as needed until the desired temperature is displayed on the flashing display. Press Humidity plus and minus as needed until the desired humidity is displayed on the flashing display.

Press "SET" until the display stops flashing to confirm temperature and humidity setting. When flashing stops, each display will show the current internal temperature and humidity of the unit. The unit will begin pre-heating to the selected temperature and humidity. Temperature/humidity alarm will sound once the unit reaches the set temperature and humidity.

### Setting Cycle:

Press "CYCLE" button and the "Days" display will begin to flash.

Press temperature plus and minus as needed until the flashing display shows the desired number of days.

Press "CYCLE" button for three seconds, the screen stops flashing and starts the hatching cycle. The "Days" display will show the selected number of days.

### Motor test:

Press the "TEST" button to test the egg roller to ensure proper function: the motor starts working, the automatic egg turner starts to rotate, and the automatic egg turner stops after 4 seconds.

### Reset and Clean:

Once the hatch cycle is complete, remove the chicks from the unit and place them in their new brooder location. Hold "SET" and "CYCLE" buttons together for 3 seconds. This will clear out the DAYS display and all temperature and humidity settings.

### Humidity Control:

The humidity of the incubator can be roughly adjusted by the amount of water in the water storage tank, or it can be fine-tuned by adjusting the air vent to achieve the required humidity.

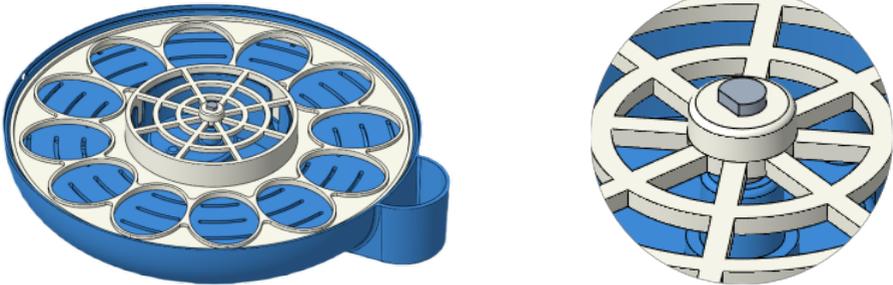
## 3 CHOOSING THE RIGHT LOCATION FOR YOUR INCUBATOR

The environment can have a considerable effect on hatch rate. The incubator needs to be placed in a room with stable temperature between 74°- 80°F. Pay attention to the room temperature to ensure that it doesn't drop below 72°F, particularly at night. Do not place the incubator near a window to avoid direct sunlight and drafts.

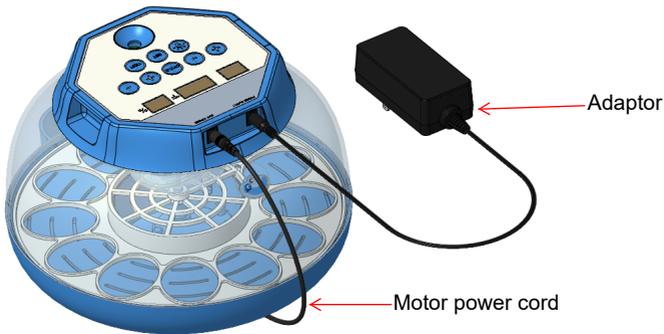
**CAUTION: DO NOT** use the incubator on the ground. Air is not fresh at ground level due to CO<sub>2</sub> concentration. Ensure the incubator is at least 19" (50cm) off the ground.

## 4 INSTALL INCUBATOR

Fit the white automatic egg turner onto the "D-shaped" metal motor shaft. Do not twist the automatic egg turner forcibly.



Plug the motor power cord into the socket located on the back of the incubator top. Connect the power supply unit to the incubator top.



Attach the top to the bottom of the incubator, making sure the recess in the transparent window is inserted correctly into the bottom socket. If this is not done correctly, warm air will leak out causing inside temperature fluctuation.



## 5 SET TEMPERATURE, HUMIDITY, HATCH DAYS

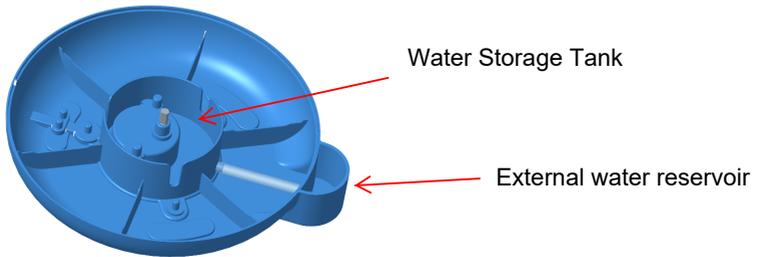
The incubator is pre-set to a temperature of 100°F and a humidity of 66%. If you want to change pre-set temperature, see page 4.

## 6 CONTROL HUMIDITY

The humidity of the incubator can be roughly adjusted by the amount of water in the external water fill port, or it can be fine-tuned by adjusting the vent exhaust valve to achieve the required humidity.

### Day1 until 3 days before hatch day:

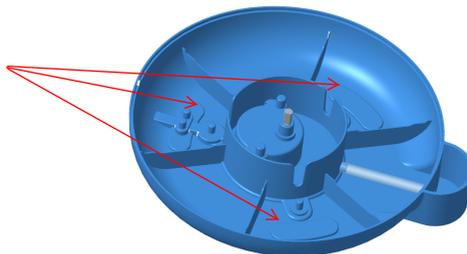
Add 100ml water to the external water reservoir with the equipped needle bottle, two hours later, check the humidity display screen, to see if the humidity value has reached 50% - 60%. If not, continue to add 150ml water.



### 3 days before hatch day:

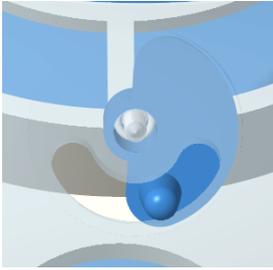
Increase humidity by continuing to add water until the water flows into the storage water basin. Fully open the air vent for last 3 days. Wait 2-3 hours for the humidity to fully stabilize and achieve humidity around 65%-70%.

Continue to add water until it flows into the water storage basin

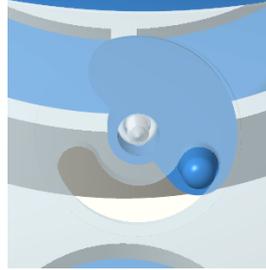


**IMPORTANT NOTE:** In order to adjust humidity, air vent cannot be fully closed. We recommend setting to half open for first 18 days. If you can't get 60-66% humidity level with this 1/2 open setting, then close the vent to 1/3 open to increase humidity. **MUST** open fully for last 3 days to ensure enough oxygen for chicken eggs.

1/2 opened



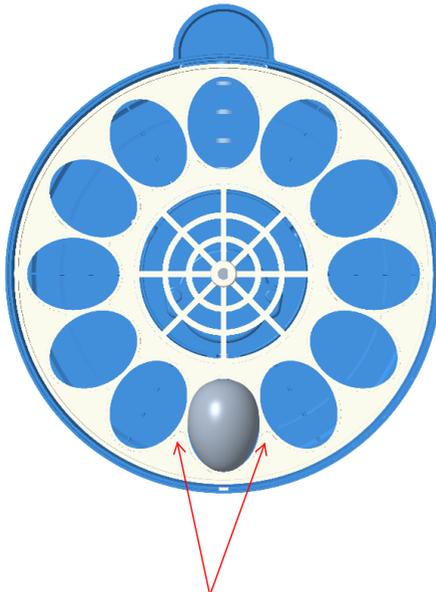
Fully opened



## 7 INSERTING EGGS AND TURN

Before setting eggs, ensure the incubator has been run for 2~3 hours with warm water filling into external water fill port. Also allow eggs to naturally warm up to room temperature prior to putting into incubator. This will minimize condensation on egg surface.

Eggs need to be set lying flat with pointed ends facing inwards towards the center of the incubator. Ensure there is a gap on the side of each egg. This will allow smooth rolling. Before putting back the top cover, we strongly recommend conducting 3-5 egg roller tests. Conduct a test run by pressing the "TEST" button, then to check if each egg is sitting correctly and is able to turn smoothly. The turner will rotate 4 seconds every 4 hours, each rotation will turn eggs around 90 degrees.



Gap on each side of eggs to ensure smooth rolling.

### IMPORTANT NOTE:

When hatch is complete, the timer will countdown to 0 days but won't automatically reset to 21 days to start a new round of countdown. Each time you start a new hatch cycle, remember to reset the timer after you put in new eggs, otherwise the automatic egg turner won't work.

## 8 USE THE BUILT-IN EGG CANDLER

GENTLY place the larger end of egg onto the candling zone. Press the candler button and observe the interior of the egg.

### TIPS:

- \*Dimming room light will make observation easier.
- \*Be careful not to shock or vibrate the egg. Excessive shaking or turning during candling can cause the egg to die of stress.
- \*During candling, the room temperature is much lower than that in the incubator, for this reason, it's recommended to complete candling in less than 5 minutes.

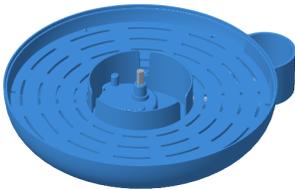
## 9 PREPARING FOR HATCHING

When the day countdown reaches 3 days, the automatic egg turner will stop turning the eggs. This is a reminder to remove the egg turner from incubator base and to increase the humidity.

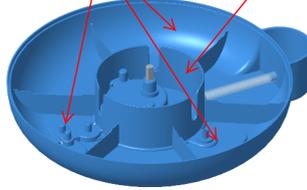
### Follow the steps below:

Open the incubator, gently remove the eggs and put them aside. Remove the white egg turner, fill the water storage basin with water, and remove water from the center water storage tank to prevent chicks from falling in and drowning. Gently put the eggs back.

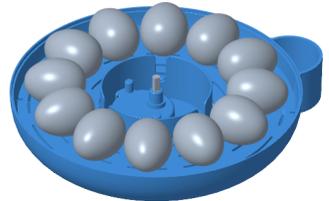
Storage water basin      Water storage tank



Gently remove the eggs and remove white egg turner



Fill the water storage basin with water and remove water from water storage tank



Gently put the eggs back

### NOTE:

Automatic egg turner **MUST** be removed 3 days before hatch to ensure enough space for chick moving out from shell, otherwise chick may get stuck in the shell.

Not all chicks will hatch. Between 55% and 75% of egg hatching is an average hatch rate. Anything over 75% is a good hatch rate.

## 10 RETURNING TO FACTORY SETTING

Press the "CYCLE" and "SET" button for 3 seconds at the same time, until you hear the 3 beeps and you see the screen display "8888888". This indicates that the reset is successful.

## 11 CLEAN INCUBATOR

Disconnect the incubator from the main power supply before cleaning. Wipe all internal surface with a disinfecting solution using a damp cloth. Then wipe off with a clean water damp cloth. Ensure that all electrical parts are kept dry during cleaning. Do not immerse any electrical ports!

### IMPORTANT NOTE:

After cleaning the incubator, plug the incubator into power to dry run for 24 hours with no water in to ensure it is thoroughly dry before storage.

## 12 HATCHING PREPARATION AND INFLUENCE FACTORS

### Temperature effect:

The developing embryo has considerable tolerance to short-term temperature drops, and users need not worry about the impact of a drop in temperature when testing eggs on development. However, higher than ideal temperatures can have serious effects on hatching, and must be taken into account.

### Humidity effect:

\*The average humidity during the incubation period needs to be close to the ideal value to achieve the best incubation effect. High humidity cannot be sustained. From the beginning of egg hatching to the first three days, it is needed to add water in the external water reservoir. Please add more water in last three days, let the water flow into the water storage tank.

\*Monitoring egg weight loss: Eggs lose water through the shell, the rate of evaporation depends on the humidity around the egg and the porosity of the single pore. During the incubation process, eggs will lose a certain amount of water, corresponding to a loss of 13%-16% of the egg weight.

### Humidity is not low enough:

If the incubation environment is too warm and too humid, please use a dehumidifier to dehumidify the room.

### Humidity is not high enough:

Add 150ml of water at external water reservoir, so that the water flows into the water storage tank and water storage basin, if the humidity is not enough, add another 150ml.

### Condensation phenomenon:

Condensation on the exposed part of the incubator top is normal, but it may indicate that the room temperature is lower than the optimal temperature. Pay attention to heat preservation, and you can cover the incubator with heat preservation foam.

## 13 SPECIFICATION:

SKU#2293825

Maximum setting capacities: 12 eggs

Dimensions: 11.22" x 10.24" x 6.57" (285 x 260 x 167MM)

Weight: 3.64LB (1.65KG)

Rated power: 33W

Maximum power: 36W

Electrical Supply: DC12V 3A

# 15 FCC STATEMENT

“Please note that changes or modifications of this product is not expressly approved by the party responsible for compliance could void the user’s authority to operate the equipment.”

**NOTE:** This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

FCC responsible party:TRACTOR SUPPLY COMPANY

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Website address:[www.tractorsupply.com](http://www.tractorsupply.com)

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