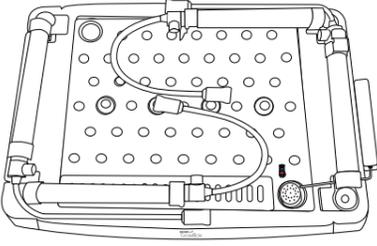


Thank you for purchasing **OPCOM Farm GrowBox**, the indoor hydroponics growth system. It is designed with easy installation and efficient growing system in one-touch AUTO mode, up to 50 plants capacity. Read the quick guide manual carefully before setting up. For detailed user manual and assembly video, please visit GrowBox page at www.opcomfarm.com/GrowBox

A. Assembly

A1. Remove all parts from box and check all accessories



Grow Kit

- Grow Sponge 2 x 60pk (OASS002 For Red Leaf Lettuce)
- Grow Sponge 2 x 60pk (OASS006 For Basil)
- Grow Sponge 2 x 60pk (OASS001 For Green Lettuce)
- Grow Sponge 4 x 60pk (OASP001)
- NT-Adjuster 5g x 15pc (OANT001 for GrowBox)
- NT-Starter 15g x 3pc (OANT019 for GrowBox)
- pH- 1g x 15pc
- pH+ 1.6g x 15pc

Lighting Support Kit

- Short Support Tube x 2 unit (OANS05A)
- Long Support Tube x 2 unit (OANS04A)
- Screw pack (Screw $\Phi 4 \times 10\text{mm} \times 8\&$ Screwdriver) (OAA503A)

Climbing Tube Kit

- Climbing Tube I holder x 1 (OAA504A)
- Climbing Tube x 4 (OANS05A)

Manual

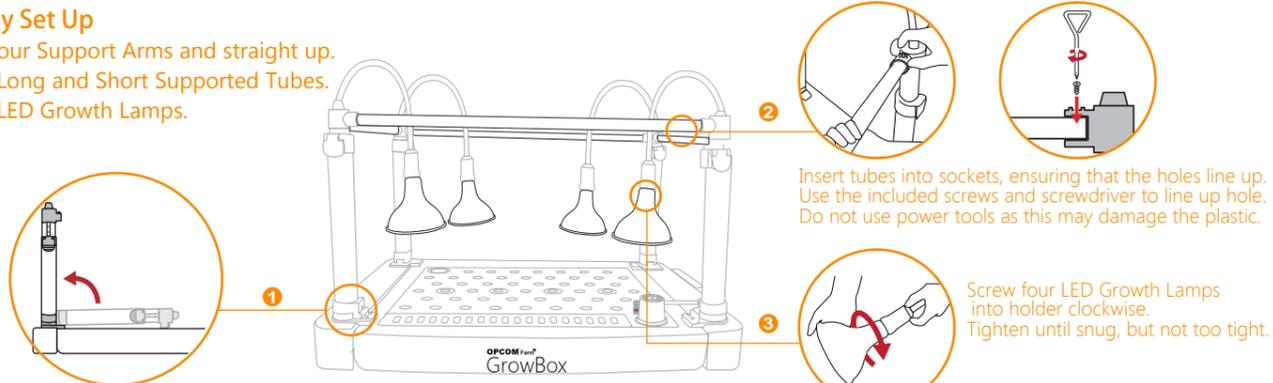
- Warranty Card
- Quick Guide Manual

Planting Accessories

- Water Spray x 1pc
- Plant Clip*10pc
- EC & pH Meter x 1pc
- Cleaning Sponge x 1pc
- Replacement Filters x 3pc
- Sprout Sponges x 12pc (OAMS02A)
- Draining Tube x 1pc (OAA506A)
- Backup pump x 1pc
- Insect Net x 1pc(OAA505A)
- Sprout Cover x 1(OAA504A)
- Seed Moisturizing Cover x 6pc

A2. Easy Set Up

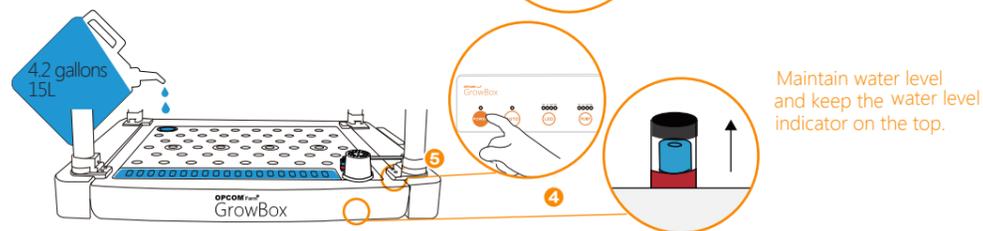
- 1 Raise the four Support Arms and straight up.
- 2 Install the Long and Short Supported Tubes.
- 3 Install the LED Growth Lamps.



Insert tubes into sockets, ensuring that the holes line up. Use the included screws and screwdriver to line up hole. Do not use power tools as this may damage the plastic.

Screw four LED Growth Lamps into holder clockwise. Tighten until snug, but not too tight.

- 4 Add 4.2 gallons water to the unit.
- 5 Turn power on and test the unit please refer to **user manual** page 9 for cycle descriptions.



Maintain water level and keep the water level indicator on the top.

Chart I: Control Box Mode

Fuction	Status	Operation	Light	Time(On/Off)	Note
Led	Auto	One Click	●	12H/12H	
	ON	One Click	●	24H/0H	
	High	One Click	●	16H/8H	
	Low	One Click	●	8H/16H	
	OFF	One Click	●	0H/24H	
Pump	Auto	One Click	●	12 Cycles/ day	* 30 mins/cycle
	ON	One Click	●	24 Cycles/ day	* 30 mins/cycle
	High	One Click	●	4 Cycles/ day	* 30 mins/cycle
	Low	One Click	●	2 Cycles/ day	* 30 mins/cycle
	OFF	One Click	●	0 Cycles/ day	

- *a. When Power On, press hold POWER button until 1 beep sound (Less than 2 second) to turn off the power.
 b. When Power On, press hold POWER button until 2 beep sound (About 5 second) to reset timeline to auto power on (On/Off 16H/8H).
 *a. When Power Off, press hold POWER button until 1 beep sound (Less than 2 second) to turn off the power.
 b. When Power Off, press hold POWER button until 2 beep sound (About 5 second) to reset timeline to auto power off (On/Off 8H/16H).

☑ Please read and follow every steps to avoid any malfunction.

B. Planting

B1. Sowing Stage

Plant Size	Small	Plant Size	Medium-Large	Plant Size	Very Large
Sponge Number	72	Sponge Number	36	Sponge Number	25
Planting Number	50	Planting Number	25	Planting Number	18

- 1 Open Grow Sponge package, put the sponge into sprout area (make sure the front side with the seed label is face up), press the sponge into water 5 seconds and let the sponge absorbs water completely. Put seed moisturizing cover on the sponge.(Fig1)
- 2 Put on Seed Moisturizing Cover to cover sponge. (Fig2)
- 3 Cover the sprout for 0-7 days for sprouting and ensure sponge wet during this stage.

Control Box	Time after planting	LED Mode	Pump Mode	Notes
Sowing	Day 0~Day 7	OFF	OFF	• Remove the top half of the seed capsules. • Make sure the sponge is wet.

* Please keep the seeds in refrigerator if you don't use it, recommended temperature is 41°F - 50°F.

B2. Seedling Stage

- 1 When the germination rate exceeds 70%, move to the seedling stage, discard excess sponges.
- 2 Move all sponge to the growing hole and set up in balance depending on plant size.
- 3 In each sponge, keep strong plants and cut the other weak plants.
- 4 Add 1 nutrient starter into the water and ensure EC between 1000-2000 $\mu\text{S}/\text{cm}$ (=1.0-2.0 ms/cm).
- 5 Ensure pH between 5.5-6.5 (adjust by pH +/-).
- 6 Adjust LED lights and keep distance to cover all plants.

* For EC & pH adjustment instructions, please refer to **user manual** pages 25-26.

Control Box	Time after planting	LED Mode	Pump Mode	Notes
Seedling	Day 7~Day 14	ON	ON	• Ensure seeds germination rate>70%. • Adjust LED lights position. • Ensure EC & pH value.

B3. Growing Stage

- 1 When young plants grow to over 2 inches height, change control box to AUTO mode.

Control Box	Time after planting	LED Mode	Pump Mode	Notes
Growing	After Day 14	AUTO	AUTO	• Maintain EC & pH value.

B4. Grow to Harvest

- 1 After 4-6 weeks, harvest the larger plants for consumption.
 - 2 Reserve smaller plants to grow.
- * To save time, sow the new seeds in sprout box for the next planting cycle before a week of harvesting.

C. Optional

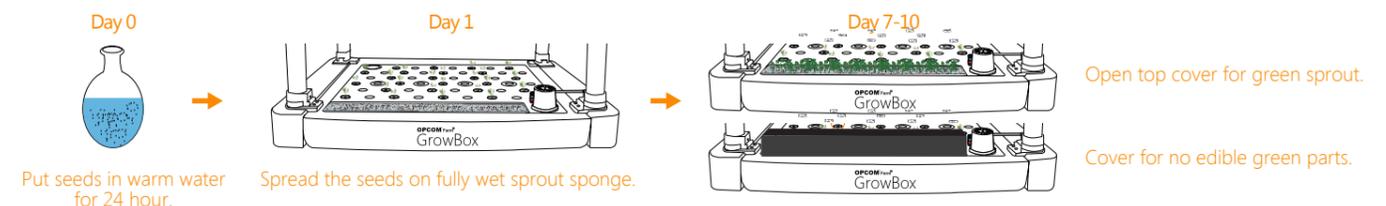
C1. Regrowing

OPCOM Farm designs a special re-grow process to maximize harvest capacity for family consumption. First harvest cycle takes 3-4 weeks after seeding young plant is planted. During harvesting, cut out the larger leaves and allow the smaller ones to continue to grow in the machine. After the first harvest, you can continue the harvesting method weekly for the next 3-4 weeks without the need to re-seed.



C2. Sprout Process

GrowBox is not only a hydroponics system but also a Sprout Machine with our free gift, sprout cover. Within one Hydroponics cycle time, you have 3-4 sprout harvests and each harvest cycle is 7-10 days. Enjoy your maximum planting capacity. Refer to **user manual** pages 19-20 for details.



Put seeds in warm water for 24 hour. Spread the seeds on fully wet sprout sponge. Open top cover for green sprout. Cover for no edible green parts.

Please visit OPCOM farm website at www.opcom.com for complete information, including User Manual, Planting Q&A, videos and updates.

D. Troubleshooting

Issue	Checkpoints / Solution
Lamps not lighting up	<input checked="" type="checkbox"/> Make sure all power cables are connected.
	<input checked="" type="checkbox"/> Power button is ON.
	<input checked="" type="checkbox"/> Make sure LED status is ON
	<input checked="" type="checkbox"/> If it is on HI or LOW mode, the lamp has off time, during 24-hour cycle.
Pump has a buzzing sound	<input checked="" type="checkbox"/> Pump may give off a buzzing sound in the beginning due to air inside the pump. After a minute with water running through the pump, this could be reduced.
The lamp/ pump stop after hours	<input checked="" type="checkbox"/> Control Box is designed with Auto, HI and LOW modes, which turn the lamps and the pump on and off at certain intervals. It simulates an outdoor daily cycle to offer the best growing condition <input checked="" type="checkbox"/> Rotate the ring at the front end of the pump clockwise or counterclockwise to get the most suitable water flow

E. GrowBox Q&A

Question	Answer
Pump was running without water.	This can shorten the life of the pump. Maintain proper water level. Always keep water above the red line.
What type of lamps can be used in the GrowBox?	The lamps provided with your GrowBox is standard E26 mount OPCOM 18W (L18B) LED Growth Lamp. This is suitable for most plants' growth. You may also use OPCOM Professional LED Growth Lamp 50W (L50B) to accommodate special growth needs.
When should the climbing tubes be used?	The climbing tubes is an optional function for your GrowBox, and you will only need to install the climbing kit when growing tall plants and vining plants like tomatoes. For these plants, the climbing tubes can be used to support the plants as they grow.
When should we use the insect net?	We recommend using the net if the product is in an environment where insects may be present.

F. Maintenance

Change Water

After a cycle of planting, you may want to change water, or clean the unit.(Fig1)

EC / pH Meter Use and Calibration

- 1 Everytime you use the EC/pH Meter, please wash electrode by regular water and keep it dry.
- 2 Cover the electrode protective cap when not in use.
- 3 Turn off the meter when not in use for an extended amount of time.

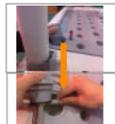
G. Installation steps of water pump



1. As shown in the picture: prepare the backup pump.



Take out connector



Lift pump



Take down water pipe



H. Q&A

Q1 : Sprouts are stuck in the sponge and can't come out.

A1 : Pull the sprouts gently out from the sponge with tweezers, make sure the seed capsule's top half is not stopping the growth of a sprout. To see more information of planting, please refer to GrowBox planting Q&A.

For more information, please visit

www.opcomfarm.com

GrowBox



Quick Guide Manual