



LF-ONE 'Little Farm' Assembly Guide



The step-by-step guide to assemble your new LF-ONE

This manual is your guide to preparing and assembling your new LF-ONE unit. Inside you'll find step-by-step instructions to make sure you assemble your unit correctly. The only tools you will need are a Phillips-head screwdriver and wrench, both of which are included in the kit. We've also included several extra screws of each type in case you should happen to drop or misplace one."

Before You Begin

Before you begin actual assembly, it is a good idea to browse this manual to get an idea for the steps involved and to identify and organize the tools you will need. We have included a checklist on page 2 of this guide with the kit's contents.

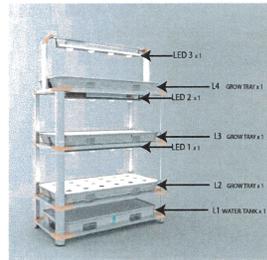
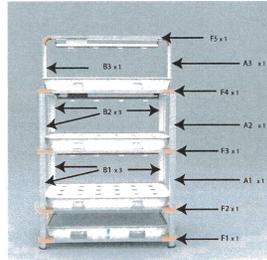
Questions? We Have Answers.

We recommend you assemble your unit nearby to where you want to place your LF-ONE so that you won't have to move it once assembled. It is also helpful to place your unit in an area with airflow or at least in an open area. This will aid in plant growth.

Should you have questions on the assembly, we are here to help. We have an assembly video posted on our website at www.growpulse.com under the LF-ONE support section, which will provide a good visual on how the assembly works. You can also call us at 804.997.9398



System Contents



ACCESSORIES	
	Screws x28 S1 5"10MM
	Screws x8 S2 4"10MM
	Screws x4 S3 3"10MM
	Screws x6 S4 4"10MM
	Screws x6 S5 6"10MM
	Screws x2 S6 4"10MM
	Arch Base x2
	Light Bracket x6
	Drain Pipe x1
	Wire Conduit x1
	Pipe Clamps x6
	Drains & Sheds x6
	PLC System x1
	Control Box x1
	Shade x1
	Measuring Cup x1
	Hose x3
	Grow Medium x10
	Seeding Tray x1
	Net Baskets x60
	Tweezers x1
	Screws x2 S7 4"10MM
	Strap x2

Safety Notes and Tips from GrowPulse on your LF-ONE

- I. Keep indoors at temperatures between 45-90 degrees Fahrenheit.
- II. LF-ONE is designed for use indoor use only – Do NOT use outdoors.
- III. Unplug unit when not in use.
- IV. To avoid electric shock, do NOT touch plugged-in unit while in contact with water line or faucet.
- V. Keep children and pets away from nutrients and LF-ONE supplies. Nutrients are not meant to be consumed or ingested. In case of accidental ingestion, seek prompt medical attention!
- VI. Keep unit away from open flames, fire, or chemicals.
- VII. Make sure unit rests on a flat, stable surface that can support the weight of the unit, water, and contents. Exercise caution when moving the unit.
- VIII. Do not attempt to stack LF-ONE units on top of each other.
- IX. Follow nutrient mixing instructions closely. Do not overmix nutrients or you could jeopardize crop growth.
- X. Thoroughly clean unit after each grow cycle
- XI. For best results use only GrowPulse LED grow lighting and GrowPulse supplies and nutrients with the LF-ONE system.

1

Insert poles A1 (x1) and B1 (x3) into the four pre-cut openings in the base-level frame (F1). Secure poles and frame by matching the corresponding screw holes and affix with screws (S1). Note that the [F1] label indicates the top side of the frame, and the arrow points to the front of the unit. The ends of the poles with the rubber studs are the bottom. Note: All frames will have arrows to indicate a direction so the LF-ONE unit will line up properly when completed.

2

Slide in the second-level frame (F2) onto the four poles. Secure poles and frame by aligning the screw holes and affixing screws (S1) on the under side of the frame. (Note that the [F2] label indicates the top side of the frame and arrow points to the front of the unit.)

Frame 3 (F3) will sit on top of the four poles. Secure with four screws (S1) in the corresponding slots on the under side of the frame.

3

Insert poles A2 (x1) and B2 (x3) into the corresponding four connecting openings in the top-level frame (F4). Secure poles and frame by aligning the screw holes and affixing with screws (S1) just above F3, in the corresponding slots.

4

Place the last, and top-level, frame (F4) onto the secured A2 and B2 poles. Secure poles and frame by aligning the screw holes and affixing with screws (S1). (Note that the [F4] label indicates the top side and the arrow points to the front of the unit.)

5

Install the arch base on both sides of the top-level frame (F4) and secure the base with screws provided (S2). (On the short lengths of the frame (F4), there are screw holes where the arch bases go.)

6

Attach A3 and B3 poles to the F5 arch cross-piece. Secure with screws provided (S3). Optional: Using the other piece of double-sided tape, align it along the underside of the top arch (F5) and adhere the Shade to the top arch. The Shade is to prevent glare of the top shelve light at certain angle. Install the assembled arch to the arch base on the top-level (F4), securing on both sides with provided screws (S2). Take a look and confirm that the A poles and the B poles are correctly aligned on the corresponding sides. Load grow trays onto respective levels.

7

On the left (B Poles) side of the unit, install the smaller set of pipe clamps (PC-B) – three pieces on F2, F3, and F4 frames – where you will find pre-set screw holes. Use the screws provided (S4). Now connect the System Drain Pipe. To connect the System Drain Pipe, connect by pushing it into the three clamps until it snaps into place. Rotate the pipe so that the water collection funnels are in position under the drainage holes of the grow trays.

8

On the right (A Poles) side of the unit, install the larger set of pipe clamps (PC-A) – three pieces, one on each frame, F2, F3, and F4 – where you will find pre-set screw holes. Use the screws provided (S4). Connect the wire conduit (PVC) with cables inside). To connect the conduit, connect the PVC pipe holding the electric cables to the LF-ONE unit by pushing it into the three pipe clamps until it snaps into place. Note that the smaller elbow connector (L-shaped looking piece) goes in at the top. (It connects into the opening (A3) in the top arch (from Step 6).) The longer, upside-down L-shaped connector goes in the bottom, into the water mixing tray, to provide power for the pump.

9

Please note there are three lengths of hoses

1. Take the longest hose, slide it into the top hole on the inside of A2, and slide it down through A2 and A1 to the bottom hole on the inside of A1 (between F1 and F2).
2. Take the middle-length hose, slide it into the bottom hole on the inside of A2 (just above F3). Slide the hose down into A1 and out the bottom hole (between F1 and F2).
3. Take the shortest, and last, hose and slide it into the middle hole on the inside of A1 (just above F2). Slide the hose down and out the bottom hole (between F1 and F2).
4. Connect all the hoses coming out the bottom of A1 to the three connectors on the pump.
5. Put the other side of the hoses into the small holes on the top of the shelves of each grow trays.

10

Install the light Brackets underneath levels F3, F4, and F5, in the centers of the short sides of the frames. You will find pre-drilled screw holes there; secure the L-shaped brackets using provided screws (S1). Use S5 screws to screw partially into the ends of the light fixtures, then use the screws to hook the light fixtures into the L-shaped brackets. Tighten the S5 screws gently until the light fixture is secure. (Make sure the connectors of the light fixtures are toward the right (A-poles) side.)

11

Controller Installation

1. Get two S6 screws; place the Control Box on the bottom right side of F4, and use the two screws to secure it to the two pre-drilled holes on the F4 frame.
2. A bracket for the PLC Unit is pre-installed on the bottom of F4 on the front, right-hand side. Attach the PLC unit by gently sliding it onto the bracket.
3. Follow the labels at the end of each cable to match and connect them correctly to the corresponding cable.

12

For safety, a set of wall mount straps are pre-installed on the back of the unit (on frame F4). Please uses S7 screws to secure the straps to a wall.