

# Assembly Instructions

## ProcyonPRO4X

Happy Leaf 4-Light Procyon Grow System



### Table of Contents

1. To The Owner .....	2
2. Assembly & Setup .....	2
Tools Required .....	2
Contents .....	2
Assembly .....	3
3. Structural Requirements for Hanging the Lights .....	7

## 1. To The Owner

Thank you for purchasing the Happy Leaf 4-Light Procyon Grow System with 4 highly efficient ProcyonPRO LED grow lights. It is a powerhouse LED grow light in a sleek design that helps produce high yields and healthy plants through flowering stage. The ProcyonPRO4X is available in 33" only and delivers an even distribution of PAR energy for the most demanding plant growth requirements.

The ProcyonPRO lights has been evaluated at Purdue University, have been tested in the field in commercial settings with great results. They feature:

- 120° Beam Angle
- Industry-leading combination of red/blue/green/white LEDs for maximum plant growth efficiency
- Impressive experience for the human-eye – the ubiquitous “purple” or “pink” cast commonly associated with grow lights is all but eliminated.
- Designed and manufactured in the USA.
- 5 Year Warranty

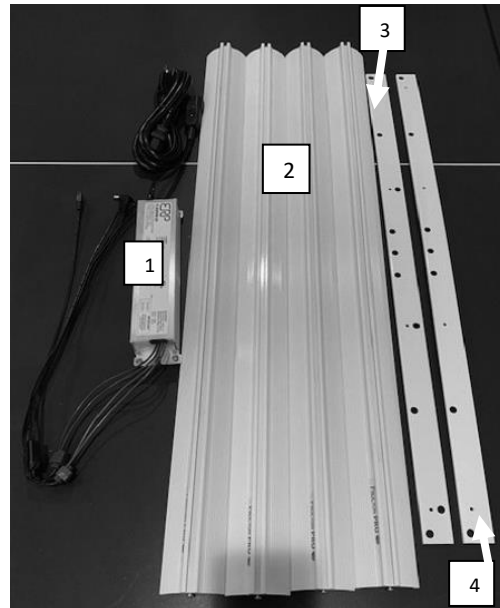
## 2. Assembly & Setup

### Tools Required

- Philips screwdriver
- Flat-blade screwdriver

### Contents

1. (1x) ERP UL Listed 260 W 24 VDC power supply with two 2x splitters and an IEC C14 adapter
2. (4x) Happy Leaf ProcyonPRO lights with screws on the ends
3. (1x) Happy Leaf end cap rail with barrel connector holes
4. (1x) Happy Leaf end cap rail without barrel connector holes

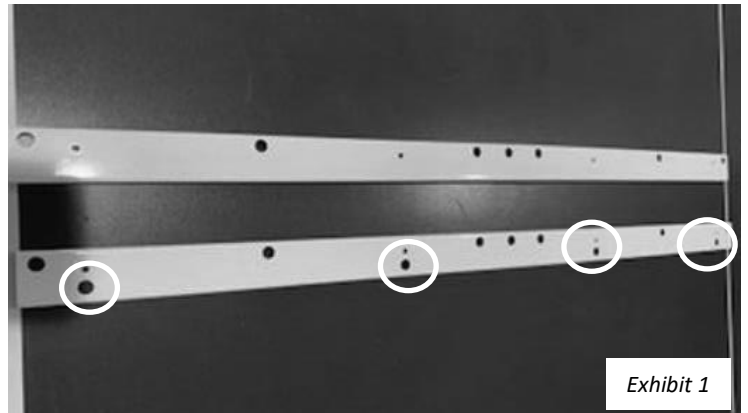


## Assembly

1. Locate the two **end cap rails** (will hold the four lights together). (See exhibit 1)

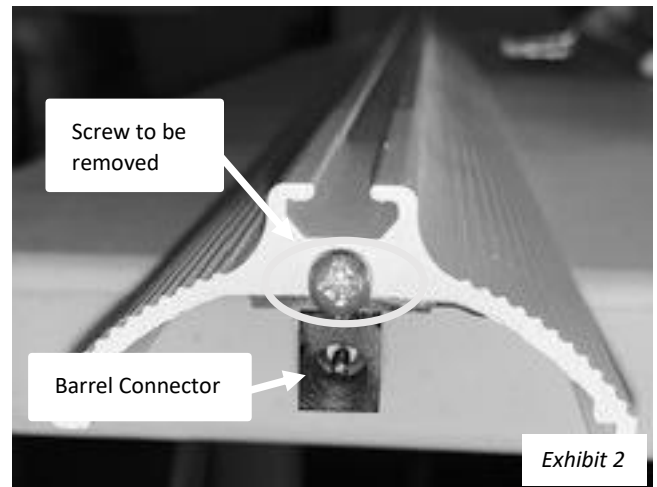
**NOTE:** One of the end cap rails has four additional 8 mm holes just below the four 3 mm holes.

The end cap rail with the extra holes will be used on the side of the lights that have the barrel connector (see Step 2). The two end brackets may have a slight bow in them which will straighten out when the light is fully assembled.



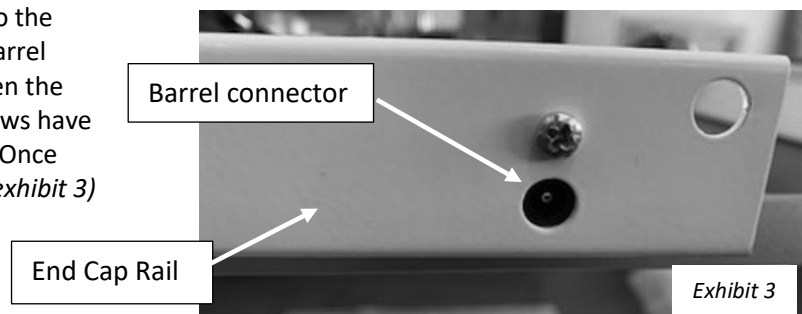
2. Place the 4 lights next to each other on a level surface, ideally on a table for ease of assembly. All barrel connectors should be facing you. Space them about 9 inches apart. (See exhibit 2)

3. Remove the screw from each end of the lights and place them in a secure spot for later use. These will be used to fasten the lights to the end cap rails. (See exhibit 2)



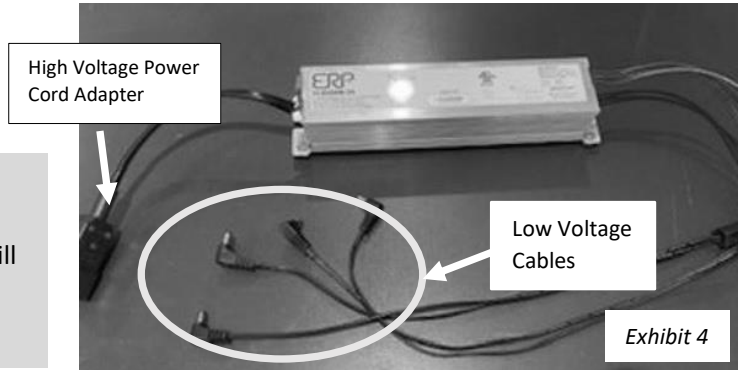
4. Place the end cap rail with the holes (8mm) for the barrel connector over the end of the lights that are facing you.

5. For each light, place one of the screws into the smaller holes (3 mm) directly above the barrel connectors into the end cap. Do not tighten the screws all the way until all four of the screws have been partially screwed into the light rails. Once everything is in place, tighten them. (See exhibit 3)



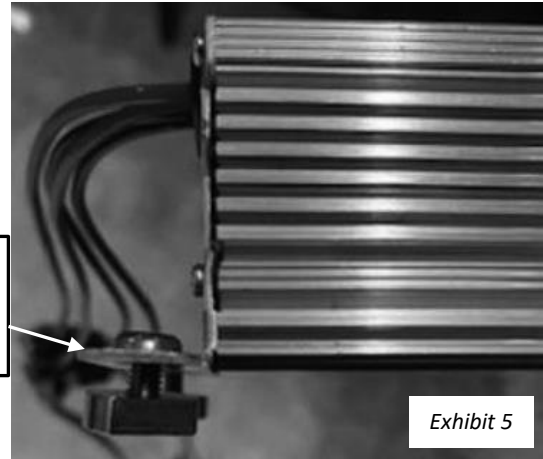
6. Locate the ERP Power supply. (See exhibit 4)

**NOTE:** It has a universal **high voltage power cord adapter** on the left side and the **low voltage cables** on the right side of the power supply. This supply will be fastened on top of the middle two lights assembled in the previous step(s). (See exhibit 5)



7. Remove the four T-Slot nuts from the bottom of the power supply. (See exhibit 5)

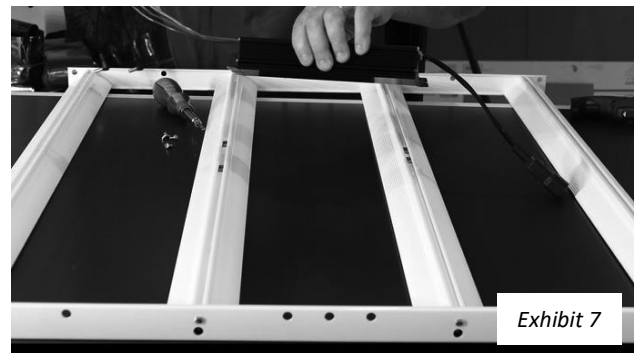
T-Slot Nuts to be removed & set aside.



8. Use the 4 T-Slot nuts removed in the previous step and slide two each onto the two middle light rails. Place them roughly in the middle of each light rail. (See exhibit 6)



9. Place the power supply over them and screw them in place loosely. (See exhibit 7)



10. Test to see if the low voltage cables reach the barrel connectors. If they are too short, adjust the position of the power supply accordingly. Once in the correct position, tighten the screws. (See exhibit 8)

T-Slot nuts tightened on the light rails.



Exhibit 8

11. Remove the four screws on the opposite ends of the four lights. (See exhibit 9)

**NOTE:** This is the side that does not have the end cap attached yet.

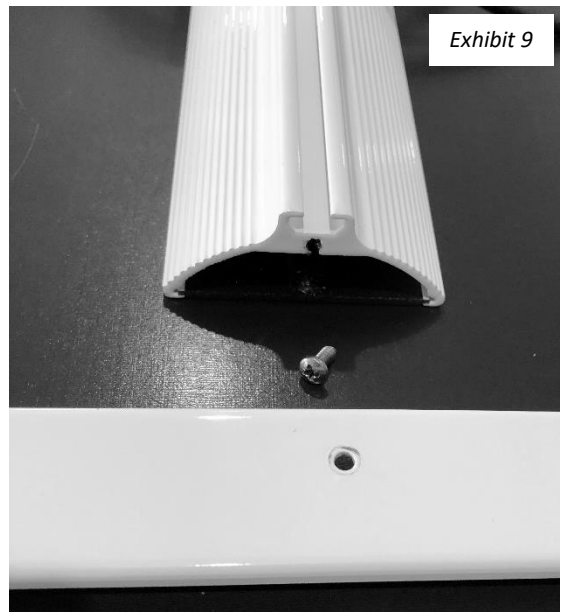


Exhibit 9

12. Line up the end cap with the 4 lights and tighten the screws after all four of the screws have been installed. You will notice that the end cap rails will now be straight. (See exhibit 10)

**NOTE:** If the low voltage cables are loose, you may tie them together with a zip tie.

End Cap

End Cap with Holes for Barrel Connectors

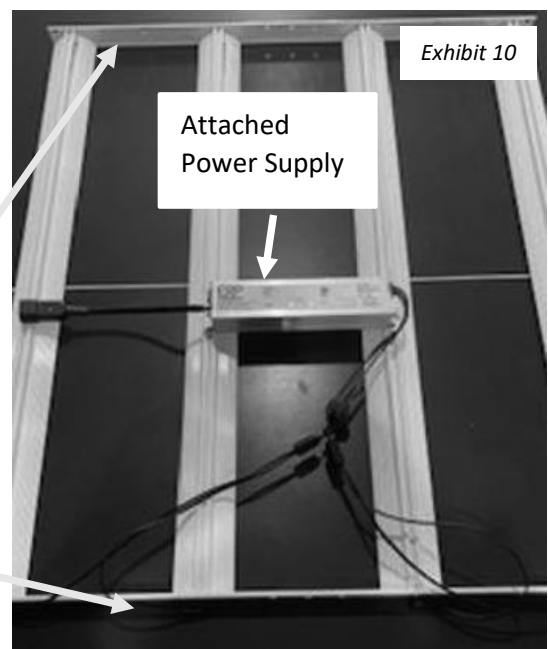


Exhibit 10

13. Finish the set up by plugging the universal adapter connector into the power supply plug. (See exhibit 11)

**NOTE:** The universal IEC C14 adapter connector allows you to plug the cable into the power supply. The power supply can operate between 110 and 277 VAC and the output of the power supply is 24 VDC.

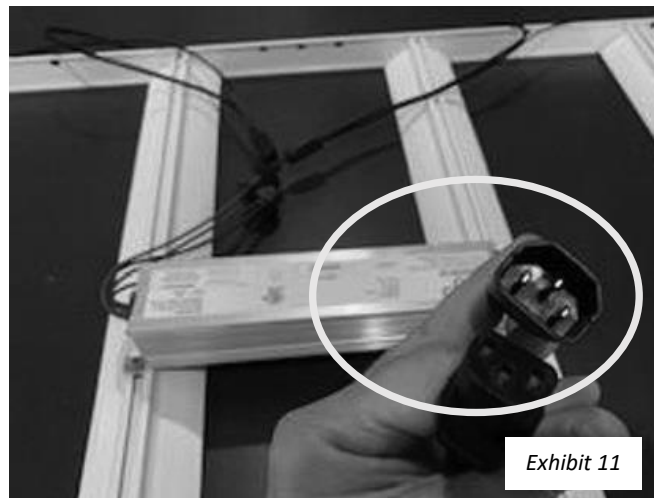


Exhibit 11

14. Hanging the light: Standard V hooks can be used to hang the light assembly by placing them on either side of the light into the two holes located in the middle of each end cap. (See exhibit 12A)

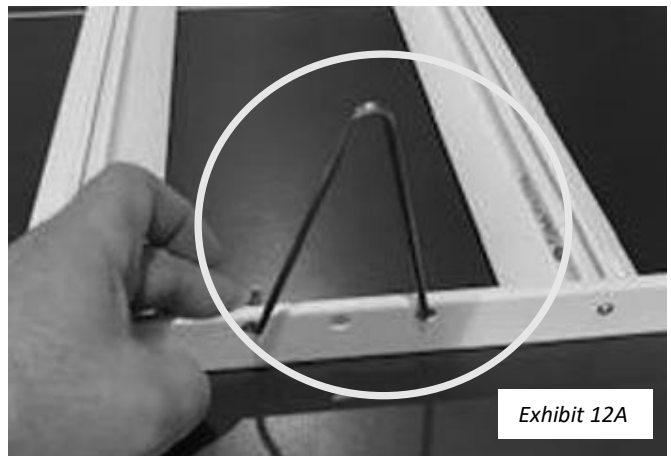


Exhibit 12A

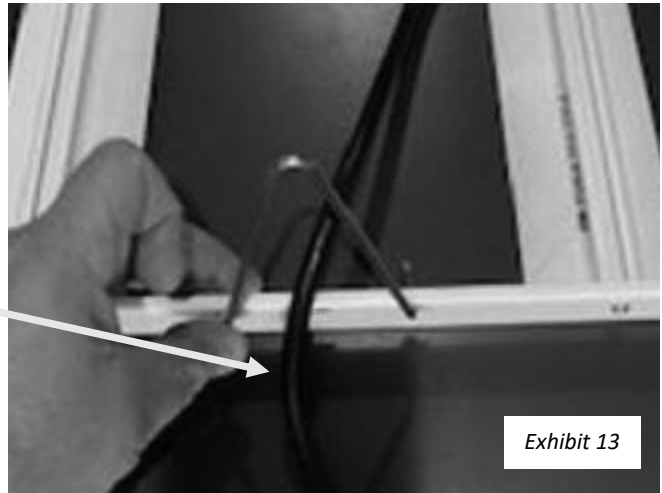
Alternatively, a set of ratcheting hangers can be used to attach the light to a structure and to adjust its height above the plants. (See exhibit 12B)



Exhibit 12B

15. With the power supply attached to the light assembly, the power cord should be routed through the V Hook. (See exhibit 13)

Power Supply Cord



Fully Assembled ProcyonPRO 4X with the power supply mounted to the top of the assembly. (See exhibit 14)



### Structural Requirements for Hanging the Lights

The 4X Assembly weighs just under 25 lbs, so the structure and hardware from which it hangs should be strong enough to support this amount of weight. The points of support could be eyebolts, for example, and they should be placed between 2 1/2 and 3 1/2 feet part from one another.