

# Telos Upgrades Installation Guide

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## Tools Featured in this Guide

### 2mm Precision Hex Screwdriver

Included in Upgrades Pack



### Clean and Clear Workspace



## Difficulty

Easy



## Introduction

Time to upgrade!

Telos has always promised future proofing of our products; and this cost-effective upgrade is exactly that. Advanced OSRAM modules output higher PPF figures, whilst simultaneously providing reduced power consumption.

## Pack Contents (10 PRO)

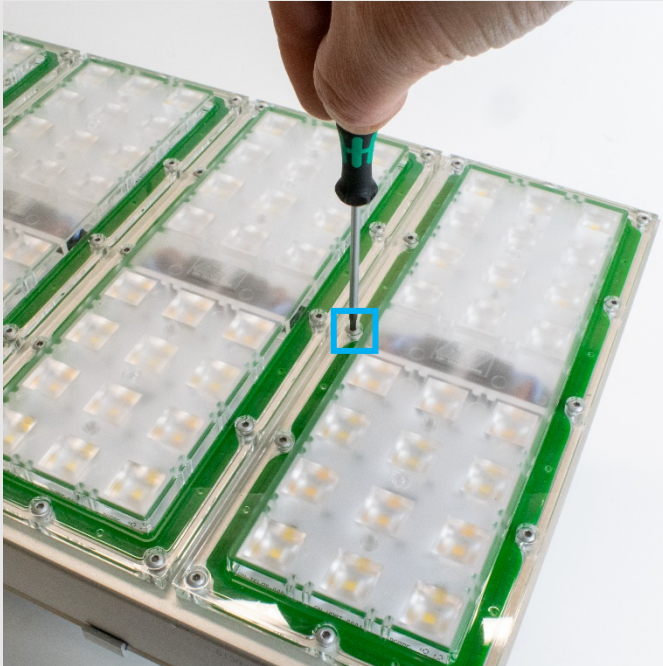
- 6x Duris 5050 Modules
- 4x Hyper Red Modules
- 10x Thermal Interface Material
- 5x Translucent Gaskets
- 1x Revised Sticker
- 1x Hand Screwdriver

DESIGNED AND  
MANUFACTURED IN THE UK



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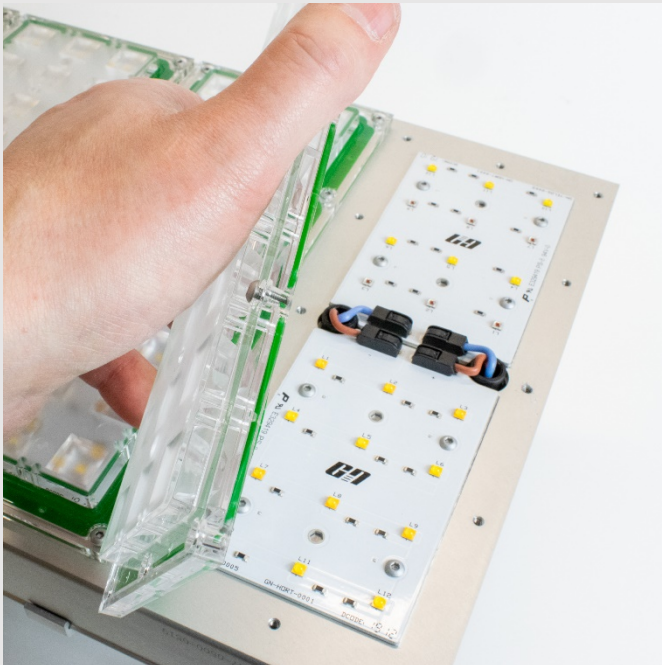
## Step 1



Note: Remove all power from the grow light.

- Place your Telos on a clean workbench with the optics facing upwards and the power cable on the right-hand side.
- Use the 2mm Hex Screwdriver to remove 60 screws from the plastic optics (12 screws per optic), highlighted in blue.
- Store the screws safely.

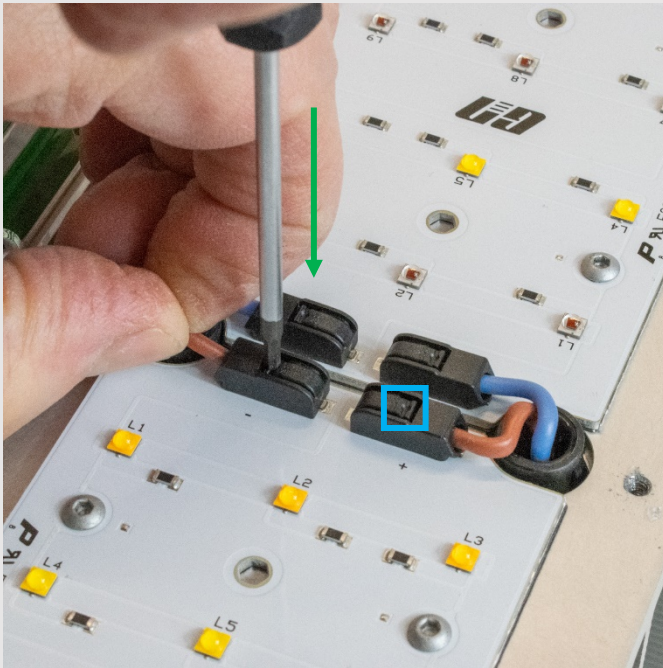
## Step 2



Note: Be careful not to drop anything on the exposed LED module boards.

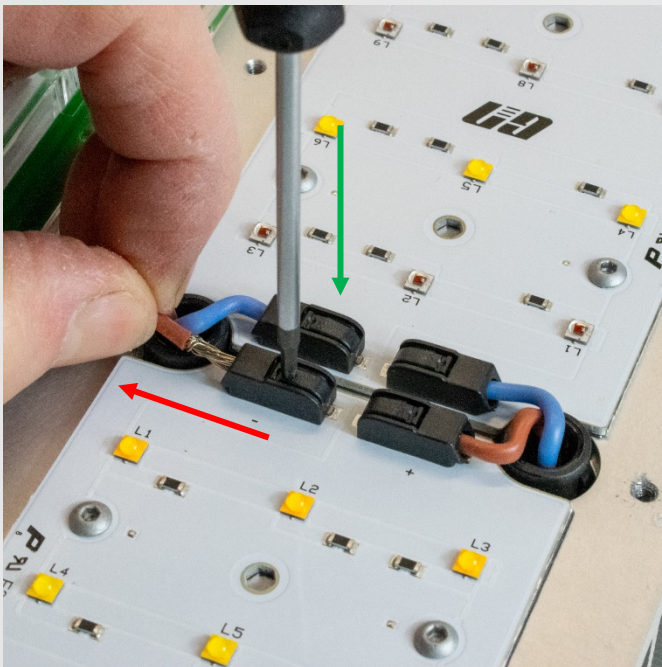
- Gently lift the plastic optics away from the LED modules.

### Step 3



- Using the tip of the included screwdriver, gently depress (in the direction of the green arrow) the dimple on the electrical connector.
- The dimple has been highlighted in blue.

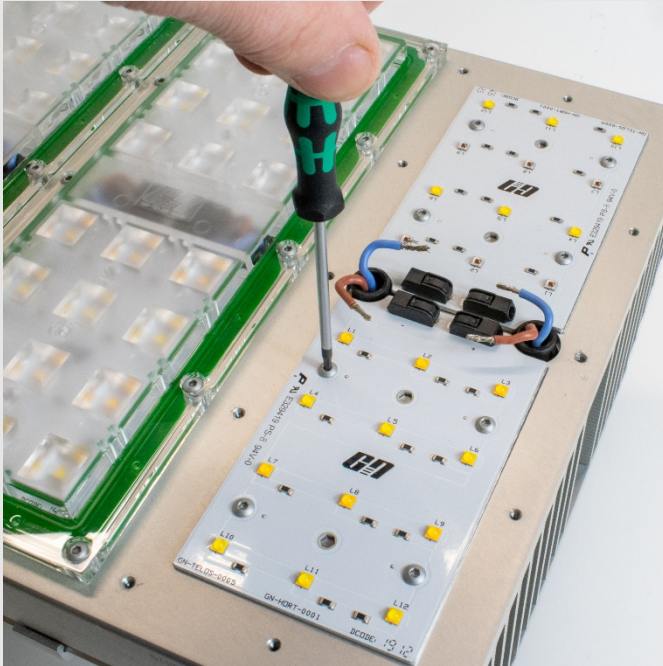
### Step 4



Caution: Use only the required force when depressing the electrical connector – too much force can damage the part.

- Whilst simultaneously pressing in the direction of the green arrow, pull gently (red arrow) to remove the wire.
- Do this to remove all wires.

## Step 5



- Once all the cables have been removed from the boards.
- Using the 2mm Hex Screwdriver provided, remove the bolts attaching the LED modules to the heatsink.
- There are 4 bolts per LED module.
- Remember to store the bolts safely.

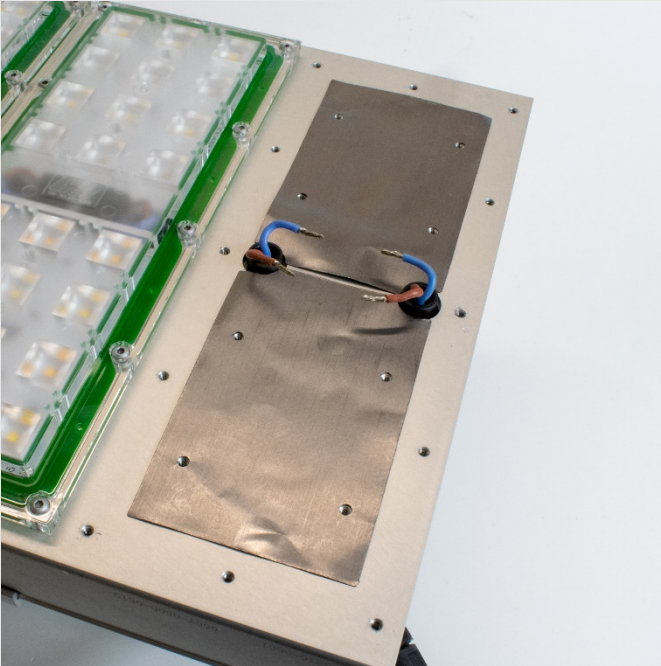
## Step 6



Note: Store the LED boards somewhere free of static charge. A wooden desk works great.

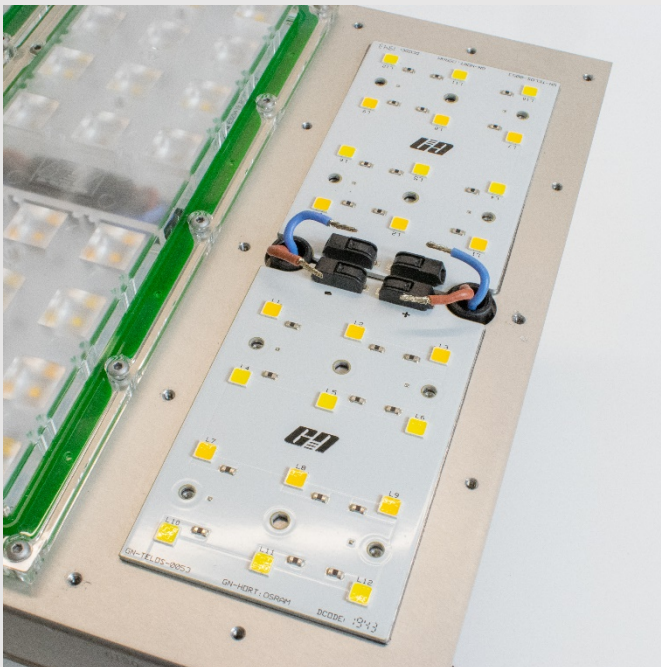
- Holding the LED boards by the edges, remove them and store in a safe, static-free area.

## Step 7



- Remove the thermal interface material and replace with the new thermal interface material.
- Line up the new thermal interface material with the bolt holes on the heatsink.
- Handle the thermal interface material gently.

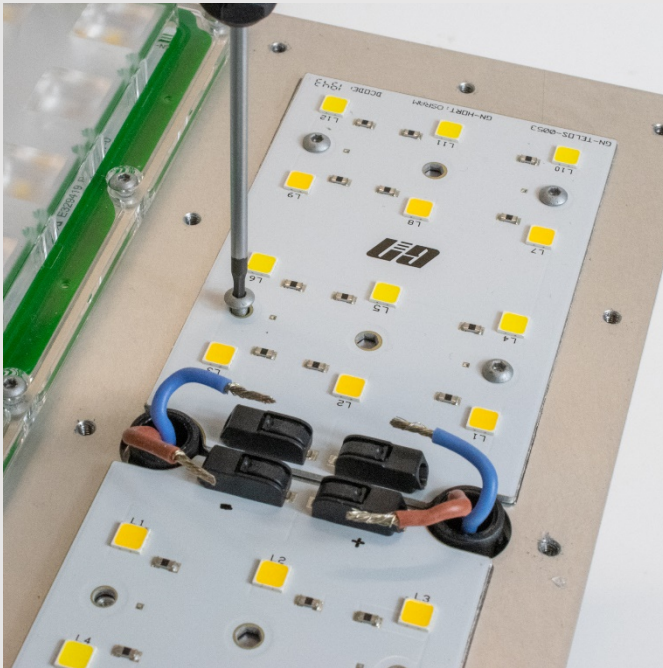
## Step 8



Note: The complete arrangement of LED modules can be viewed in Step 14.

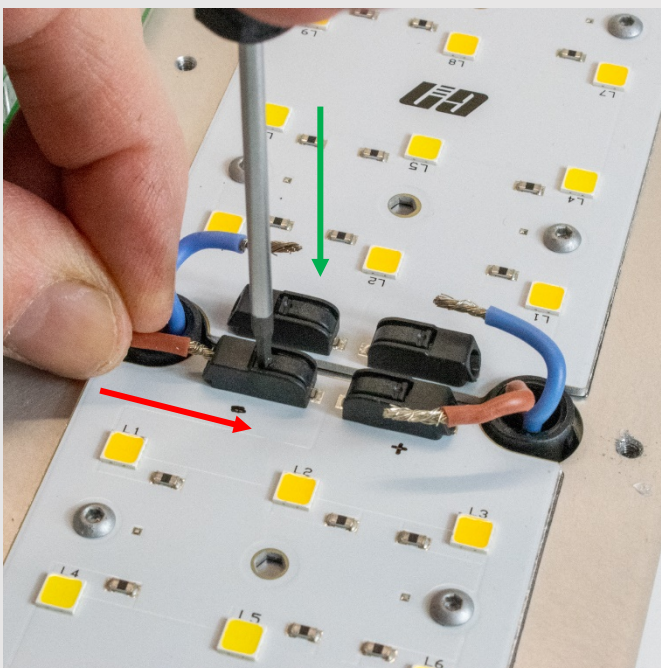
- Gently place the upgraded modules down on top of the thermal interface material.
- Taking note to line up the bolt holes with the heatsink.

## Step 9



- Attach the LED boards by fastening the 4 x 2mm Hex bolts using the provided screwdriver.
- Do not overtighten. A 'snug' fit is fine.
- Make sure all bolts are fastened before moving to the next step.

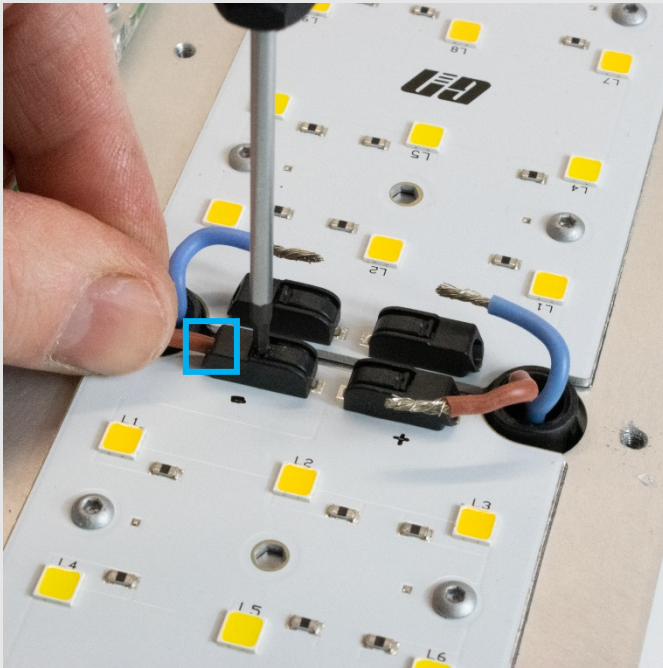
## Step 10



Note: You may need to twist the bare wire, to keep all the strands together when inserting into the connector.

- While gently depressing the screwdriver in the direction of the green arrow, insert the wire into the electrical connector.
- Once pressure is removed from the screwdriver, the wire clamped is in place. A gentle wiggle of the cable will confirm it is secured properly.

## Step 11



- Once the cable has been inserted correctly, no bare wire should be visible.
- Highlighted in blue.

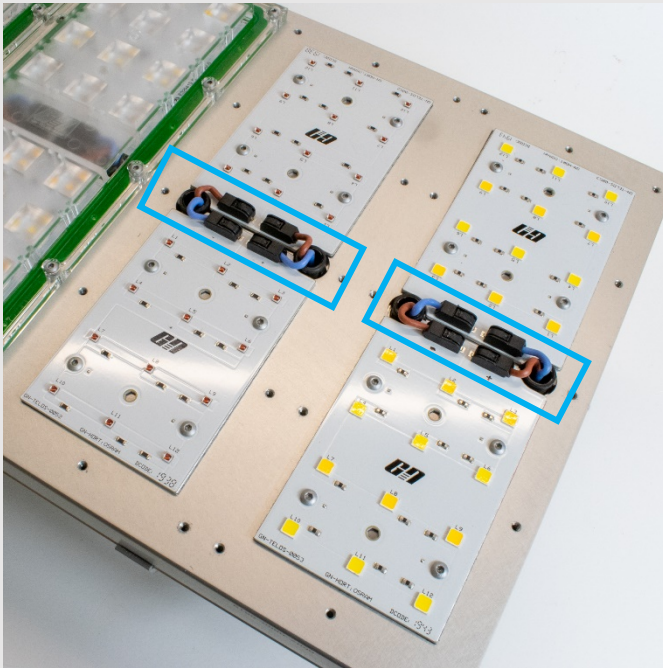
## Step 12



**IMPORTANT NOTE:** Make sure the brown and blue cables are inserted into the exact connector they were removed from.

- The result should look like this. Please bare reference to Step 2.

## Step 13



- Follow the same steps for the remaining modules.
- Take note that the orientation of brown and blue cables is reversed with each pair of modules.
- Highlighted in blue.

## Step 14



- Step 14 shows the final arrangement of modules and cables.
- Note that the branding sticker on the light is facing away from us and the power cable has been kept on the right-hand side of the unit throughout this entire guide.

## Step 15 (optional)



- The upgrades kit comes with new gaskets. The gaskets are purely an aesthetic upgrade that is unique to the Telos Pro.
- Simply peel the old gasket from the optic.

## Step 16 (optional)



- Line the new gasket up with the optic.
- The gasket sits on small plastic studs on the optic.
- Simply press the gasket onto these studs and test that gasket is secure by holding the optic upside down.