

# TL-ULTRALIGHT STINGSPORT

## How To Replace Wingtip Lights

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The lights at the wingtips are position, navigation, landing and taxi lights. They are protected by a clear plastic wingtip cover. The taxi light is on the right wingtip; the landing light is on the left wingtip.



Six sheet metal screws attach the wingtip cover to the carbon fiber skin of the wing. Remove these screws with a small Phillips screwdriver and then remove the wingtip cover. The material is lightweight and should be treated with care. Take precautions not to scratch the light cover or the finish of the wing during this operation. In these photos a soft cloth serves to protect the wing and organize the work.

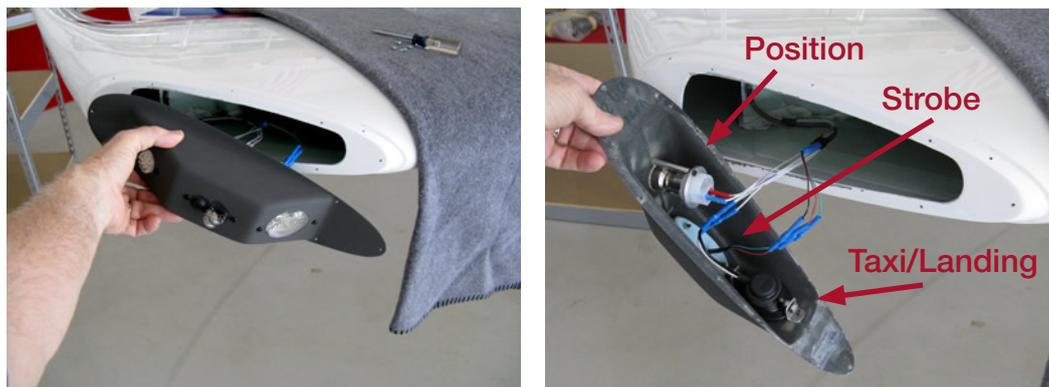
Note that the narrow end of the wingtip cover is the forward end, and the wide end of the wingtip cover is the aft end.



The position light bulb can be removed and replaced at this point. To remove the bulb, push gently and give it a counter-clockwise 1/4 turn, then pull it out. Replace the new bulb with a twist in the opposite direction.

Replacing the strobe light or the landing/taxi light requires additional steps, including removal of the light terminal.

Six sheet metal screws attach the light terminal to the carbon fiber skin of the wingtip. Remove these screws with a small Phillips screwdriver, supporting the light terminal while the final screw is removed.



To replace the strobe light, remove the heat shrink material from its electrical connectors and disconnect them. From the outside of the light terminal remove the two sheet metal screws that retain the strobe fixture. Replace the fixture, reinstall the screws, slip new heat shrink tubing over the wiring and reconnect the connectors, then apply heat to the heat shrink tubing.

To replace the taxi (right wing) or landing (left wing) light, remove the heat shrink material from the two electrical connectors (not the ground wire) and disconnect them. Slip the rubber cover off of the back of the light fixture and remove the bolt that retains the ground wire. Then remove the fixture and replace it, taking care to reattach the ground wire. Reattach the electrical connectors and protect them with heat shrink tubing.



Reinstall the light terminal using the six sheet metal screws. Clean the wingtip cover inside and out with a mild cleaning solution (such as a spray bottle of water with just a few drops of Dawn) and a microfiber cloth. Reinstall the wingtip cover with the six sheet metal screws.

Take care not to over-torque the sheet metal screws, to avoid stripping threads or starting cracks in the material.

