

# DUCKWORKS LANDING LIGHT INSTALLATION INSTRUCTIONS

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## 3.2. Glass Reflector Cover and Cosmetics

Although we intend to NOT use the glass reflector cover that came with the RECTANGULAR lights, some builders may find them cosmetically preferable. We were able to make it fit easily so you can use it if you wish. It will add some weight, MAY affect the cooling of the bulbs, and will reduce **by 50%** how far the beam goes out in front of you! It is up to you whether or not you use them. Use the plastic pieces that come on the driving light stock mount and some longer 10/32 screws to mount the glass lens.

Many builders will want to paint the bay where the light is installed. This is fine if you want to do it.

One installer ground the nubs off of the plastic lens retainers and used them in place of the washers to hold the reflectors in because he preferred the appearance over the washers.

## 3.3. Aiming Options

The lights are biased for a nose-high final approach attitude. Much adjustment is available. Note that I originally flew my RV 500 hours with a wood prop. When I changed to a constant-speed prop, the approaches became so steep that I needed to re-aim my lights. So, aiming them thru trial and error seems to be required. See step 2.5.1 for initial aiming recommendations. My lamps hit the middle of a hangar wall from 40 feet away, and, they hit either side of the centerline about 100' in front of me when the tail is up on the takeoff roll. This helps me to see the centerline during night takeoffs.

## 3.4. More Light?

We use the 55W Rectangular light because in testing it provides excellent output for it's LOW COST/WEIGHT. It has been tested on an RV-6 at night, into an unlighted grass strip, with good results. In the event that your needs change and you would like more light, one of the real advantages to the Duckworks installation is the options you have available. You can replace the 55W bulb in the rectangular reflector with a 100W bulb (not recommended due to Sonex' low alternator capacity). We do offer HID lamps with incredible light output and very low power draw (3A). See our website for details.

Some builders have opted for the newer 'Silverstar' Halogen bulbs. They are a good option, and can get a nice increase in light at 55 watts, without going all the way to 100 watts (and associated current draw), but do cost a bit more than our std bulbs. Shop 'online' and you can find them reasonably, and they are an option that can be tried in the existing reflectors.

## 4. TELL US WHAT YOU THINK

We hope that you have found the installation of the Duckworks Landing Light not too difficult nor time consuming, and that the finished light looks as nice as we think it does. If you have any suggestions on how we can improve the lights, the instructions, the installation, or anything, please give us a call, or drop us a note, so we can improve our product for the next builder.

**There is a Parts List on the last page. Send orders to the address below, being sure to include your return mailing address, and a check or money order.**

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