

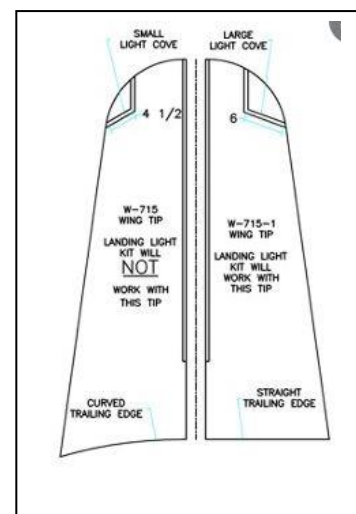
# RV BITS LIGHT SET INSTALLATION

## W715-1 Wingtip

This document will take you through the steps to install the RV Bits light set into new blank wingtips and also how to retrofit it on wingtips with other lights installed. This is for the RV7 and 8 fitted with the W-751-1 wingtip. Note that I am showing the RH installation and that this is on an RV7A.

In your kit you will receive the following:

LINE	PART NUMBER	QUANTITY
1	RVBITS LIGHT MODULE LEFT	1
2	RVBITS LIGHT MODULE RIGHT	1
3	INBOARD BRACKET	2
4	OUTBOARD BRACKET	2
5	K1000-08 PLATE NUTS	8
6	MACHINE SCREW M4 X 8MM	2
7	BUSH 8MM	2
8	MS35206-247 PANHEAD SCREW	2
9	AN507C832R8 COUNTERSINK SCREW	4
10	AN960-516 WASHER	4
11	AN365-08 NYLOCK NUT	2
12	AN960-08 WASHER	2
13	AN526C832R8 SS MACHINE SCREW	4



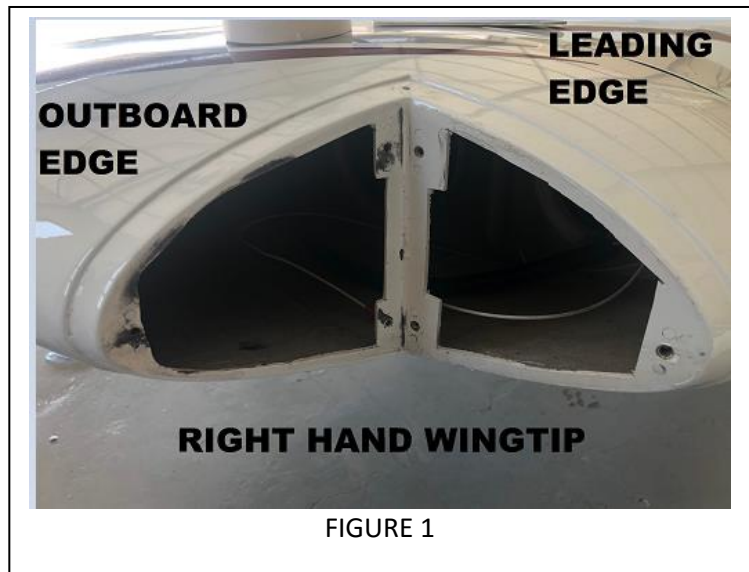
### Important Notes.

1. This document shows the installation on the **RIGHT HAND** wingtip.
2. All the pictures and diagrams are shown with the wingtip leading edge to the right and the wingtip outboard edge to the left of the pictures and diagrams.
3. The RVBits light modules will only fit into the 715-1 wingtip.

## Step 1

For a RETROFIT: Remove old lights. Figure 1 shows an example of how material has been trimmed away on the two faces of an RV7A **RIGHT HAND** wingtip. The leading edge of the wingtip is on the right-hand side of the picture and the outboard edge of the wingtip is on the left-hand side of the picture.

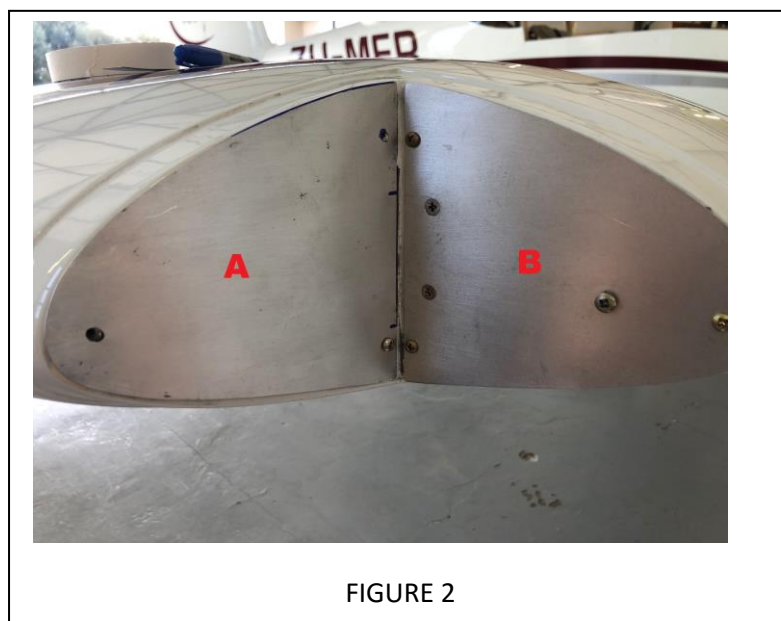
In this case the builder has fabricated base plates and nut plates to install the old lights. This is taken after the old lights and base plates have been removed. It will be different for other installations.



## Step 2

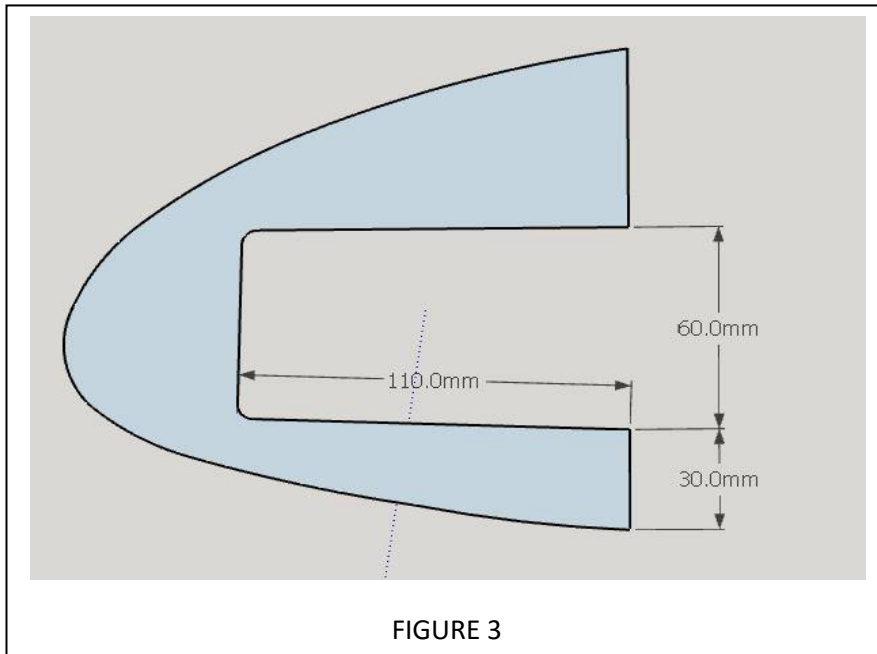
For a RETROFIT: If needed make two blanking plates, A and B from 040 Alclad or similar material to cover the openings where the old navigation and strobe lights and landing lights have been. Figure 2 below shows the blanking plates fitted. Another option is to make one plate combining A and B and to then bend it to fit the recess profile.

For NEW WINGTIPS: Fabricate blanking plate A as shown in Figure 2 if needed. Alternately trim away the fiber glass as shown in Figure 3.



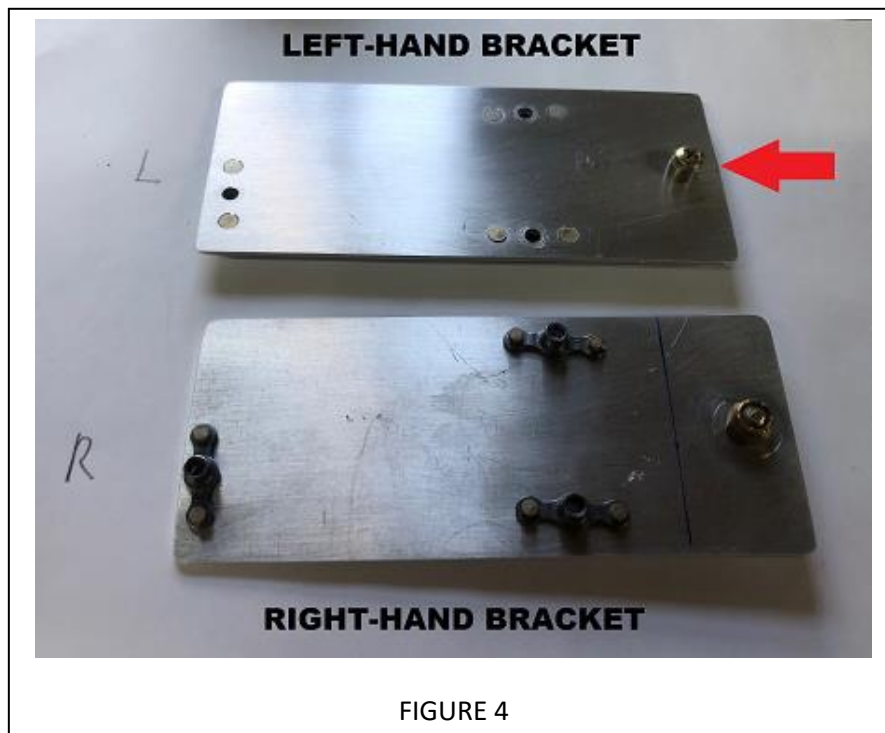
### Step 3

For RETROFIT and NEW WINGTIPS: Remove the landing light blanking plate A and trim away as shown below. Note that this is for an RV7A and your measurements might differ. Start slightly smaller with the cut out and trim bigger. Note: This blanking plate can also be manufactured from carbon fiber sheeting or similar.



### Step 4

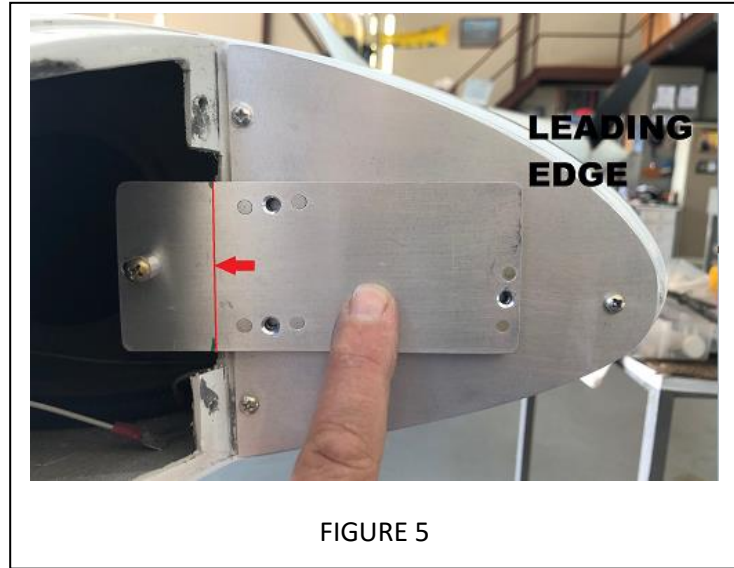
For RETROFIT and NEW WINGTIPS: Install the three plate nuts on the two supplied Inboard Brackets as shown in Figure 7. Note that there is a **LH and RH Inboard Bracket**. Also install the bush with the hardware supplied. The red arrow points to the bush.



## Step 5

For RETROFIT and NEW WINGTIPS:  
Mark a line 30mm from the aft end of the Inboard Bracket and the position it as shown below in Figure 5. The red arrow points to The line 30 mm from the AFT end.

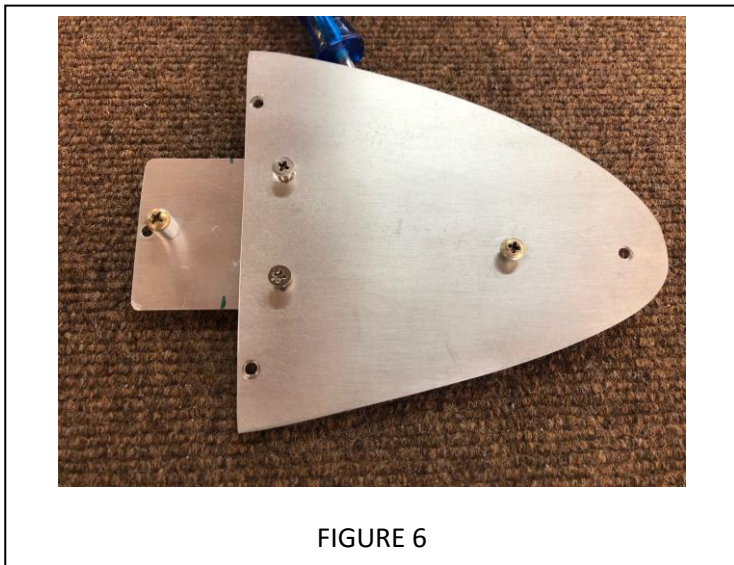
Then mark the three plate nut holes on the inboard bracket.  
Drill the three plate nut holes.



## Step 6

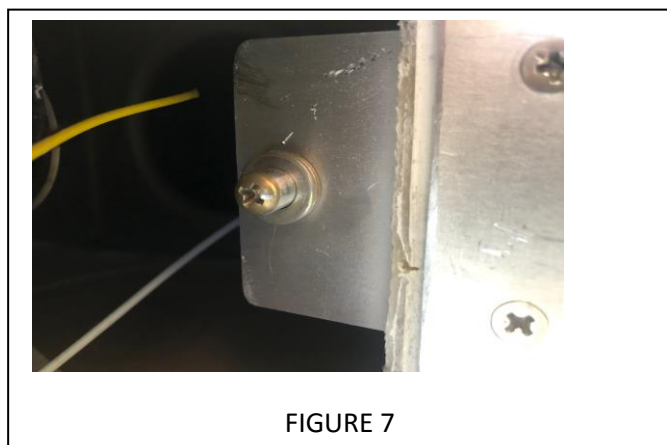
For RETROFIT and NEW WINGTIPS:  
Attach the Inboard Bracket to the blanking plate B using only the two AN507C832R8 countersink screws. Shown below is the position of the Inboard Bracket with reference to the blanking plate marked B.

Alternately attach the inboard bracket to the fiber glass face of the wingtip.



## Step 7

For RETROFIT and NEW WINGTIPS:  
Insert the two AN960-516 washers as shown in figure 7. It can be glued in place as well.



## Step 8

For RETROFIT and NEW WINGTIPS: Install the finished (cut out) blanking plate A.

## Step 9

For RETROFIT and NEW WINGTIPS: Install the light module by sliding it over the pivot point and by using the MS35206-247 PANHEAD PHILIPS screw where the adjustment slot is.

## Step 10

For RETROFIT and NEW WINGTIPS: Install the one plate nut on the Outboard Bracket. Bend the Outboard bracket to 110 degrees as shown in Figure 8 and install it.



FIGURE 8

## Step 11

For RETROFIT and NEW WINGTIPS: Measure the hole to drill as shown in Figure 9.

The red dot shows the approximate position of the hole to be drilled.

Remove the Outboard Bracket and drill the hole.



FIGURE 9

## Step 12

For RETROFIT and NEW WINGTIPS: Install the Outboard Bracket using the MS35206-247 PANHEAD PHILIPS screw and install the supplied M4 X 8 METRIC screw. Then adjust the module as needed and install the lens cover supplied by Vans. The final installation should look like this



**MAY THERE BE LOTS OF LIGHT**