

Xenon Strobe Harness Adapter kit



Parts bag:

Male DA-15 right angle connector	1	
Green screw terminal block	1	
White AMP connector	4	
Female socket pins, PCB mount	12	
Male crimp pin	1	
Nylon PCB support	1	
Circuit board	1	

Adapter board assembly

1: Break out the small Adapter circuit board from the center of the main board.

2: Mount the male DA-15 plug onto the board, noting that it only mounts on one side of the board as marked. Solder it in!

3: Holding the socket pin by the pointy end, insert three socket pins into the bottom of the white AMP connectors. They will click and lock into place.



If you already have The Original kit with a controller board **version 3.26** or earlier it will have a vertical mount DA-15 socket. In the following steps mount the AMP connectors and the green screw terminal block on the reverse side of the board. The adapter will then plug in vertically.

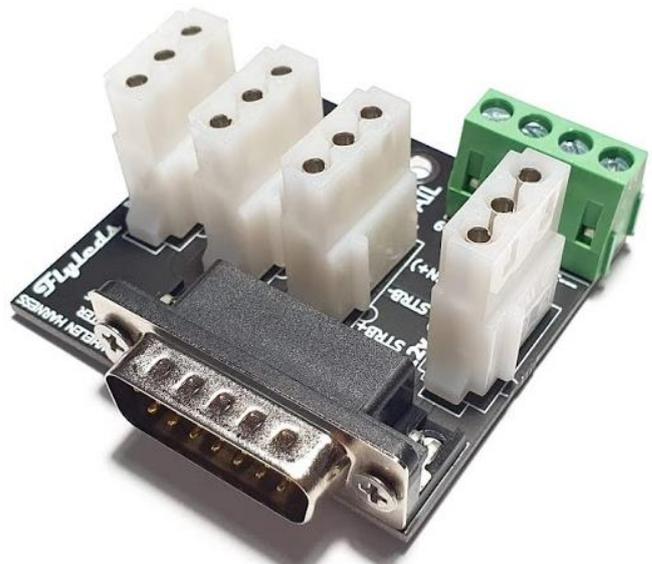
4: Insert the green screw terminal block. Turn the board over and solder one pin, and then check that the terminal block is still sitting flush to the PCB. Solder the remaining pins.

5: Insert an AMP connector into place on the board on the same side as the DA-15 connector, taking note to *match the orientation of the socket with the outline on the board*.

Note the ridge on the connector next to pin 1.

Solder one pin connector in place and check that the connector is still standing reasonably straight on the PCB. (The socket does sit slightly proud of the PCB.)

Reheat the pin if required to orient the connector, then solder the remaining two pins. Repeat for the other AMP connectors.



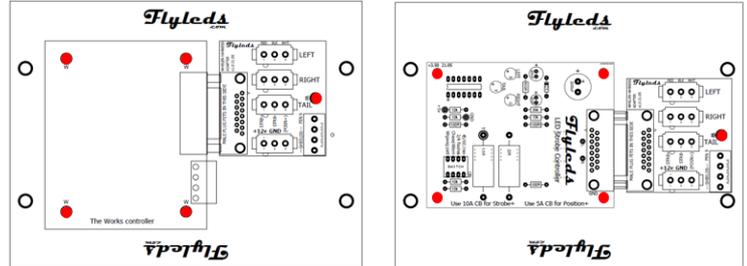
Mounting plate assembly

6: The larger PCB has the same footprint and mounting holes as a Whelen HD series xenon strobe power supply. If your power supply was a different shape or had different mounting holes, drill new holes in the board as required to match the existing fastener locations in your plane. The board size may also be altered if needed.

7: Insert the plastic PCB mounting spacers according to your Flyleds kit type. If you have The Works kit insert five spacers in the holes marked “W”. If you have The Original Flyleds kit, turn the board over and insert the spacers in the holes marked “O”.

Note there are rough outlines of each layout that can be used as a guide on either side of the board. (And yes it does work either way around!)

Plug the Adapter board into the Controller board and mount them on the spacer pins.



8: Attach the complete assembly to your plane.

9: Plug in the existing strobe wiring harness cables. Three of the green terminal block locations may be used as a ground connection for the cable shields (as marked), however if your cable shields are already adequately connected to airframe ground then there is no need to change your current arrangement.

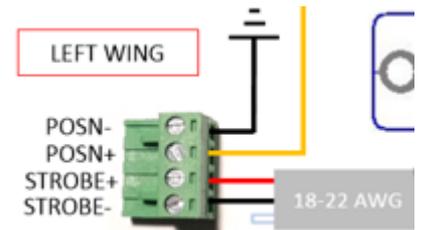
Wingtip wiring

Follow the “Existing Wiring” diagram on the last page of the [System Installation guide](#), noting that the green plugs are wired in mirror image of each other on the left and right sides of the plane.

10: Connect the red and black wires from the shielded cable as shown. The white wire is not used and should be insulated. (but see also 13b below)

11: Add the power wire from your Nav/Position light circuit as shown here in orange. The Position light circuit may be grounded locally at the wingtip, or you can use the shield wire from the strobe cable as a ground wire instead.

Note that the **STROBE-** wire must not be connected to ground, as this will result in the strobes being permanently turned on.



Tail light wiring

12: Connect the red and black wires in the shielded cable to the white and black wires on the tail light, as per the diagram in the Installation Guide. Insulate and do not connect the cable shield to anything at the tail light end.

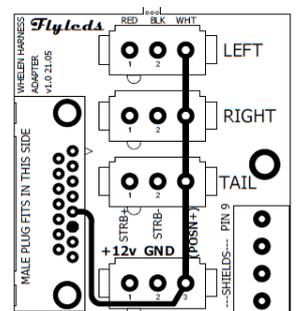
Tail light Nav/Position mode enable

The controller board also needs to be connected to your plane’s Nav/Position light circuit so it knows when to energise the Flyleds standard kit version tail strobe at 10% power to act as a position light. The adapter board can use Pin 3 (white wire) on any of the connectors for this purpose. Choose one of the following methods:

13a: (Easy) The existing Position light +12v power out at the tail can be sent back to the controller board via the spare white wire within the shielded cable as shown in the Existing Wiring diagram. Join and insulate the two wires.

13b: (Easy) Make this connection at one wingtip instead. Connect the white wire from the shielded strobe cable to the POSN+ terminal, for example along with the orange wire as shown in the diagram above.

13c: (Harder!) Run a new 20AWG wire directly from the NAV/POSN switch on the panel to the controller location. Terminate this wire with the male crimp pin supplied. Insert the wire into position 3 of the Strobe Power connector.



Pin 9 Input

Pin 9 of the strobe controller board activates alternate operating modes for the strobe LEDs. If you wish to use these features pin 9 is connected through to the green terminal block as marked.