



## MkII Radio Control Navigation and Landing Light Kit

Thank you for purchasing one of our RC Modules. We hope it will give you many years of trouble free service. If you have any problems with your module, please either email or contact our technical support helpline on the number provided at the bottom of this page. We are sorry that it is a mobile number, but we work between three sites and find that our mobile phones are far more versatile for our non –electronic communication needs.

Your MkII Lighting Kit has just been made better with improved firmware and an onboard multi-function LED. This LED not only gives you an indication when the Module is active and 'ON' or 'OFF' it detects and displays any signal errors you may have from your transmitter being switched off, signal error or if your RC Kit is incompatible with standard PWM/PPM protocols. It also gives you an assuring 3 Flash 'Greeting' to let you know all is well and ready for work.

Before pressing your switching module into service, please carefully read through the installation drawings, notes and information below.

It may well be we are 'trying to tell Grandma how to suck eggs' or as we find, information such as below is sometimes priceless knowledge, and in our instance, knowledge which we have gained over 40 years of Avionic Electronic Engineering Design and Construction experience and practices.

All Common (Black Wires) connections are connected to the same tag on the module. **ALTHOUGH THEY ARE BLACK,, THEY ARE NOT THE NEGATIVE (-) SIDE OF YOUR SUPPLY. Do not connect them to anything other than the module.**

The module has been designed to support one LED per port. No damage will be sustained to the module if you decide to couple more than one LED to any of the ports, however you will notice deterioration in LED lighting performance should you decide to do so.

Realistically, in Aviation Law, Navigation Strobes and Beacons are an international mandatory requirement whenever the Aircraft is operational. However we have been asked for this option as an extra. Other Lighting can be connected to this port, but bear in mind that a maximum current drain of 100mA exists. If you exceed this limitation damage may occur.

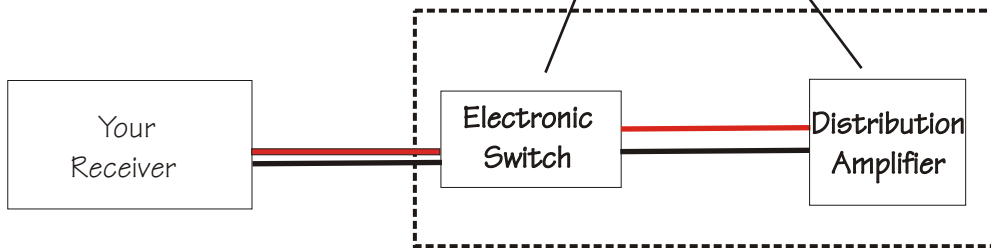
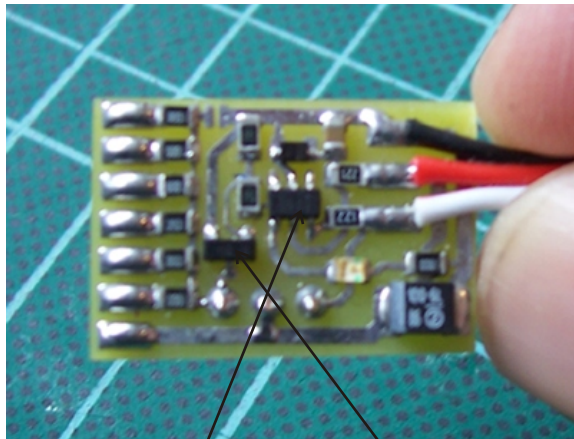
A major factor in the design and application was to simplify the connectivity between receiver and output connections. In doing so has meant that the module will not lend itself to be driven from anything other than a standard three wire servo protocol connection arrangement. Simplified, irreparable damage will occur to the module if you attempt to drive it from anything than your receiver.

Should you need technical support for your purchase, please call +4475 9999 8183 between 9am and 5pm Monday to Friday.

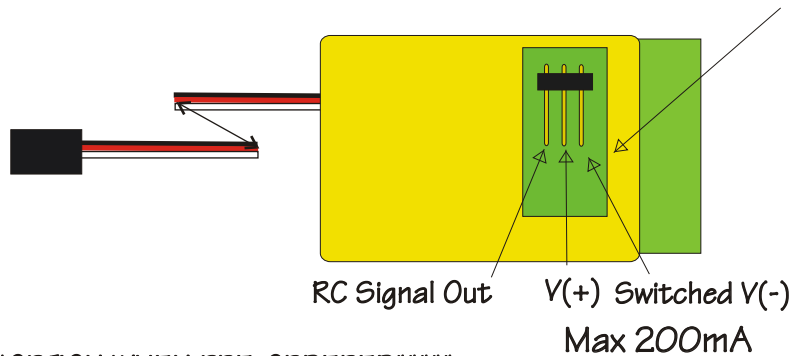
Email: [support@mr-rcworld.co.uk](mailto:support@mr-rcworld.co.uk)

### Please Note...

To maintain our multiple order carriage discounts to you, if your order was for more than one module of the same kind, we will only have sent you one set of documentation. If you need more copies, please contact us to where we will send you printable .pdf's or you can download a copy from our website, [www.mr-rcworld.co.uk](http://www.mr-rcworld.co.uk). to where you can make as many copies as you wish.



Options Port  
Carefully trim back the Heat Shrink Shroud with a Craft-Knife to reveal the Options Port



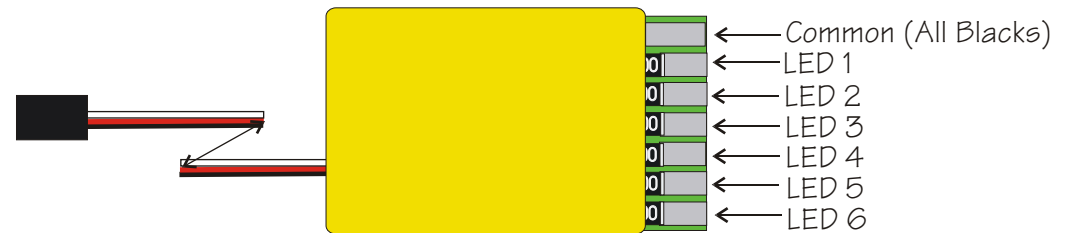
\*\*\*\*OPTION WHEN PRE-ORDERED\*\*\*\*  
LED 5 & 6 are designated as un-switched for Static Navigation Lights.

\*\*\*\*\*Important Notes\*\*\*\*\*

All Common (Black Wires) connections are connected to the same tag on the module. Although they are BLACK they ARE NOT the negative (-) side of your supply. Do not couple them to anything other than the module.

Connect ALL the BLACK Leads to the COMMON ONLY

Carefully solder the LED leads to the module

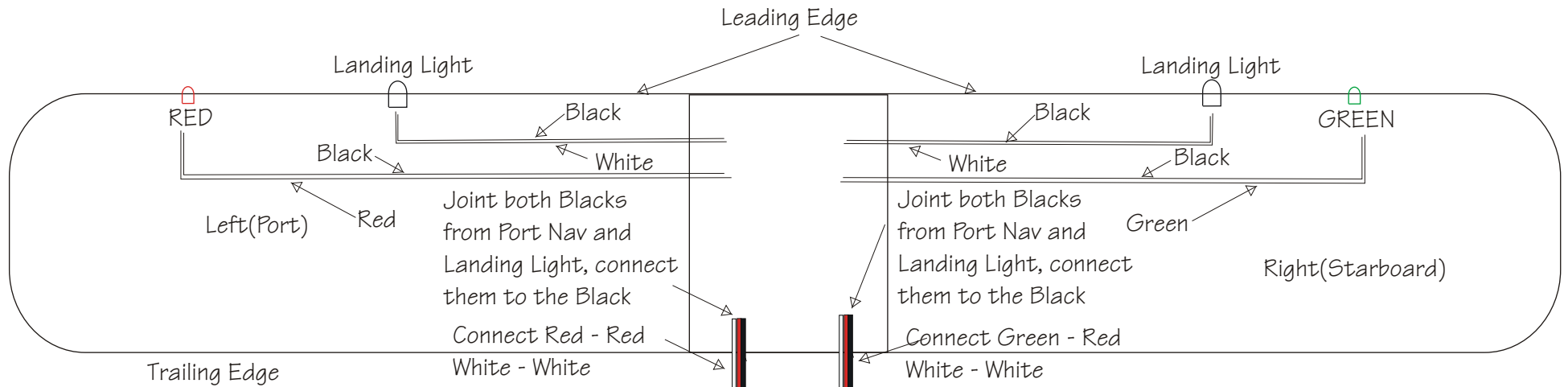


MKII ONBOARD SIGNALLING LEGEND

POWER UP INITIALISE - 3 RAPID FLASHES  
SWITCH ACTIVE - LED ON (LIT)  
SWITCH INACTIVE - LED OFF (UNLIT)

IF LED IS PERMANENTLY 'ON' AFTER THE INITIAL POWER-UP PULSES THEN EITHER NO RC SIGNAL IS PRESENT (TRANSMITTER TURNED OFF) OR YOU HAVE THE WRONG TRANSMISSION PROTOCOL.

Rev No	2	<b>MR RC WORLD</b>
May 2009		
RC Aircraft Switched Navigation And Landing Lights MkIII (Onboard Error Signalling)		
Scale 1:1	Drawing No 1 of 3	



Servo Extension Leads, Servo Splitters etc.  
Can be purchased from our On-Line Store  
at [www.mr-rcworld.co.uk](http://www.mr-rcworld.co.uk)

Multi-Pin Plugs, Sockets, Housings and  
Receptacles can also be purchased  
from our On-Line Store at  
[www.mr-rcworld.co.uk](http://www.mr-rcworld.co.uk)

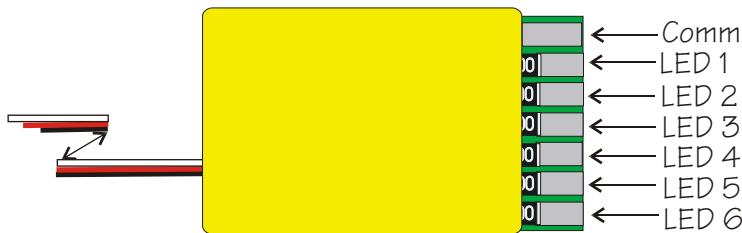
300mm Servo  
Extension Lead  
equally cut into 2

Left (Port)  
Lighting

Right (Starboard)  
Lighting

**Please Note**

This drawing is only intended to give you  
some inspiration as to how I have installed  
the lighting kit on a removable wing model.

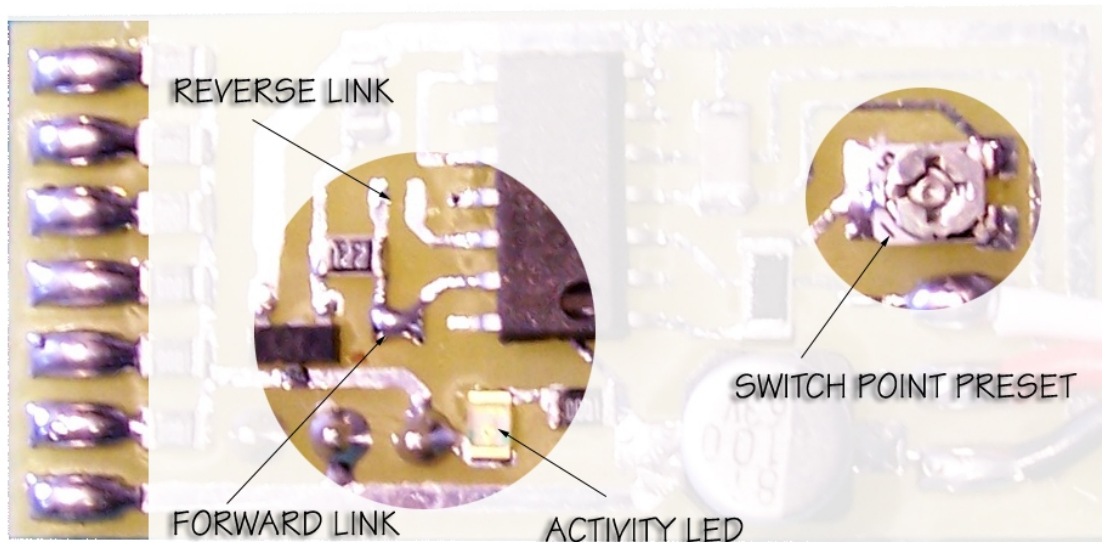


Connect each LED Lead  
to a port on the module

Connect both BLACK  
Leads to the COMMON

Carefully solder the  
LED leads to the module

Rev No	MR RC WORLD
May 2009	
RC Aircraft Switched Navigation And Landing Lights Suggested Installation Detail	
Scale 1:1	Drawing No 2 of 3



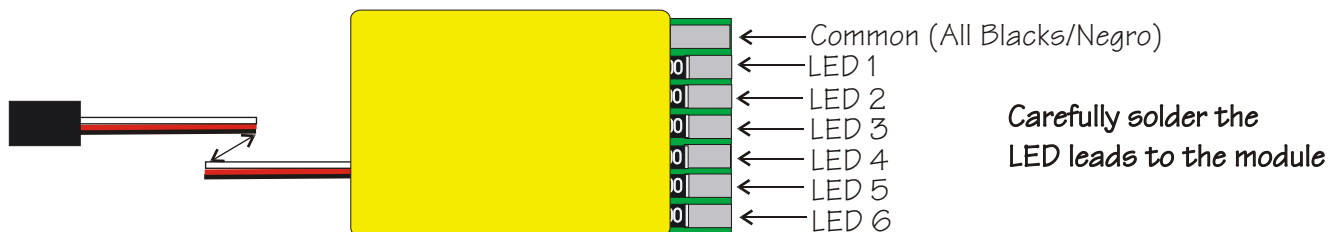
\*\*\*\*PLEASE NOTE\*\*\*\*

This document relates to options which are ONLY available on the 'ADJUSTABLE SWITCHPOINT VERSION' which is a 'Made to Order' Option upon original purchase.

CAREFULLY DE-SOLDER THE SOLDER BRIDGE FROM THE FORWARD POSITION USING EITHER A DE-SOLDER PUMP OR SOLDER WICK.

MAKE THE REVERSE POSITION BRIDGE, AGAIN TAKING CARE NOT TO APPLY TOO MUCH SOLDER BRIDGING THE ADJACENT PRINT, OR APPLYING TOO MUCH HEAT WHICH WILL DAMAGE THE PRINT.

ADJUST THE SWITCHING POINT CAREFULLY TO THE PREFERRED POSITION USING A 1.3MM FLAT BLADE DRIVER



Rev No	MR RC WORLD
DEC 2010	
OPTIONS ADDENDUM	
RC Aircraft Switched Navigation	
And Landing Lights	
Eng.	
Scale 1:1	Drawing No 3 of 3