Mk3-1 RC Car Lighting Kit

 Thank you for purchasing one of our Lighting Kits, 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 –internet communication needs.

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

Irreparable damage will occur to the internal components of the module if you:

Exceed the Maximum 145mA Limit
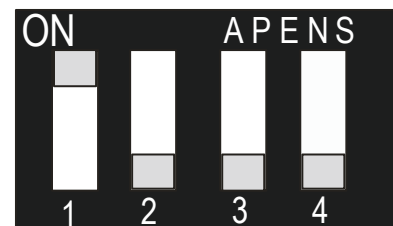Allow water or fluid to enter the module.

The Module is operated and powered from a switchable channel on your RC Receiver. The Module will only work with Pulse Width Modulated (PWM/PPM) Transmission Mode. It will NOT Work with Pulse Code Modulated (PCM) systems. If this is a problem, a Run-On-Power-Up version is available to order.

 We have used a Power Diversity Algorithm in the firmware to minimise the current load. Consequently the kit uses a maximum loading of 84mA at any given time.
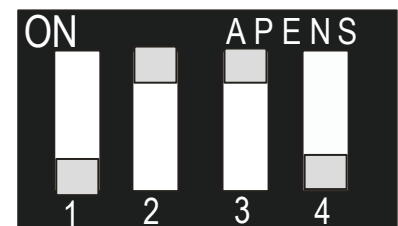
Lighting Pattern Selector

The Lighting Pattern is selected by an ancient counting method called 'Binary. This Code is selected on four ultra- miniature switches called a 'DIP' Switch. The Lighting Pattern and corresponding code is presented on the chart below. To the right of the chart is two example switch settings.

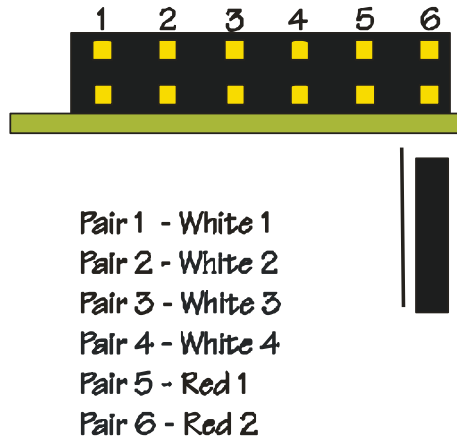| 1.	Two by Two 'WIG-WAG' Strobes Standard	O	O	O	O
2	Outside to Inside Strobes Standard	O	O	O	1
3	Outer Strobe and Inner Wig – Wag	O	O	1	O
4	Random	O	O	1	1
5	Cross Shimmer	O	1	O	O
6	Criss - Cross	O	1	O	1
7	Rolling Strobes	O	1	1	O
8	Shimmie	O	1	1	1
9	Wave Runner	1	O	O	O
10	Fast 'WIG-WAG'	1	O	O	1
11	Fast Outside - Inside	1	O	1	O
12	Wave	1	O	1	1
13	Cyclic Flow	1	1	O	O
14	4 Channel Knight Rider 'KIT'	1	1	O	1
15	6 Channel Knight Rider 'KIT'	1	1	1	O
16	Deep Shimmer	1	1	1	1

In the example above, the code on the switches is 'O 1 1 1 ' this combination will select 'Shimmie'

Another example, the code on the switches is '1 O O 1 ' this combination will select 'Fast Wig - Wag'

LED Connections

We have tried to make the connections between the LED's and the Module as simple as possible, to aid this we have opted for a double line of Pins and 2 pole 'MOLEX' Plug Housings.

Pair 1 - White 1
Pair 2 - White 2
Pair 3 - White 3
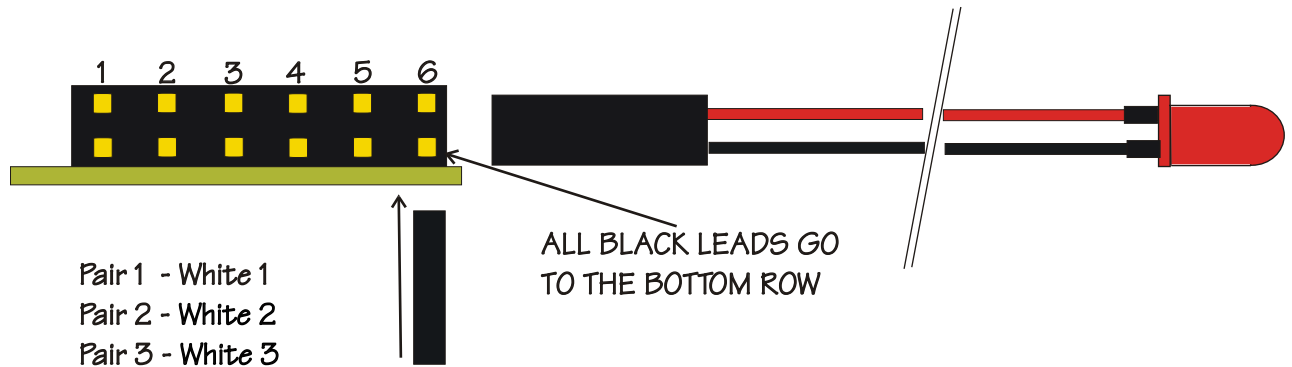Pair 4 - White 4
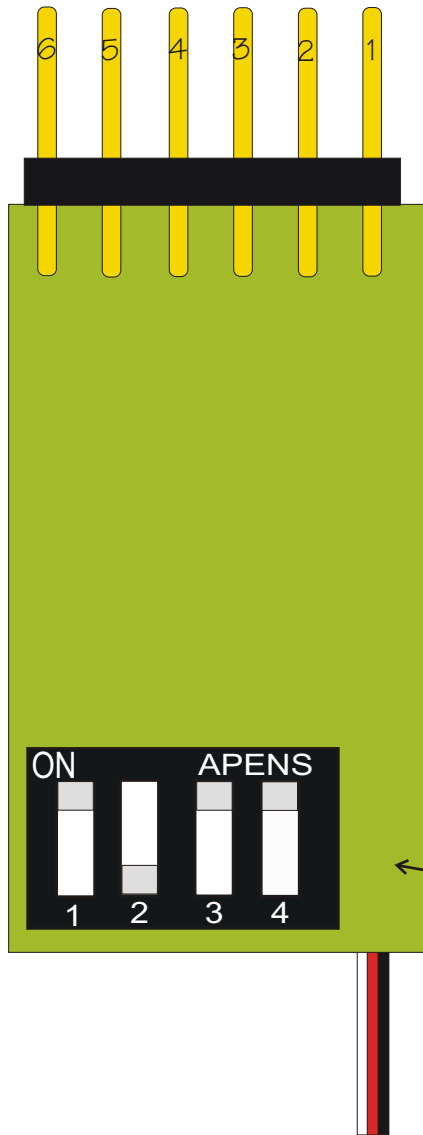Pair 5 - Red 1
Pair 6 - Red 2

To ensure the best possible results it is important to connect the LED Plugs to the Module in the correct sequence. The connections are made from Right to Left with all the Black Lines going to the bottom Pin Row. Please Note, No damage to the LED or the module if you incorrectly plug them to wrong Pins or upside – down. They simply will not work!

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

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.
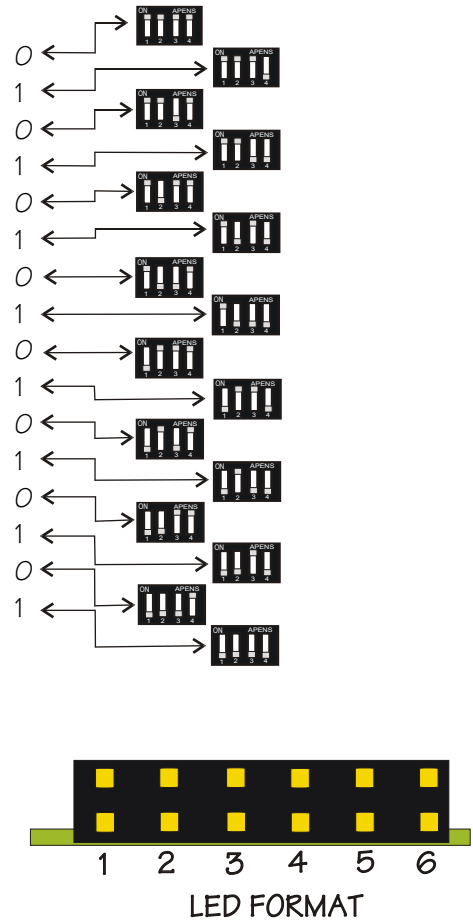
6 5 4 3 2 1

1 2 3 4 5 6

Pair 1 - White 1
Pair 2 - White 2
Pair 3 - White 3
Pair 4 - White 4
Pair 5 - Red 1
Pair 6 - Red 2

ALL BLACK LEADS GO
TO THE BOTTOM ROW

ON   APENS
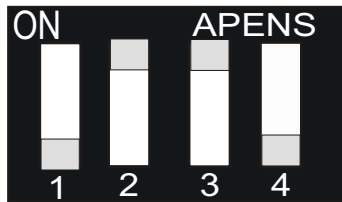
1   2   3   4

SEE TEXT ON DRAWING 2
FOR PATTERN SELECTOR

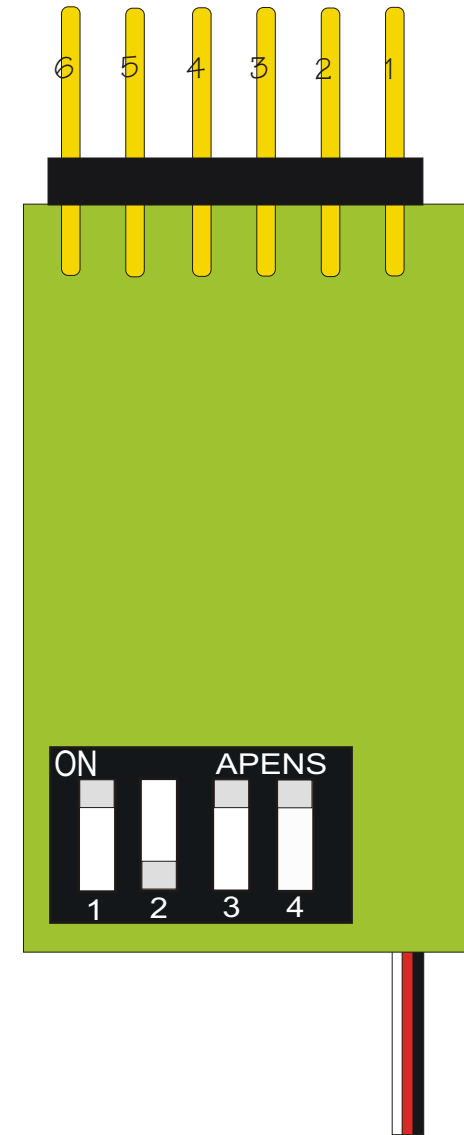| #	Function				
1.	Two by Two 'WIG-WAG' Strobes Standard	0	0	0	0
2	Outside to Inside Strobes Standard	0	0	0	1
3	Outer Strobe and Inner Wig Wag	0	0	1	0
4	Random	0	0	1	1
5	Cross Shimmer	0	1	0	0
6	Criss - Cross	0	1	0	1
7	Rolling Strobes	0	1	1	0
8	Shimmie	0	1	1	1
9	Wave Runner	1	0	0	0
10	Fast 'WIG-WAG'	1	0	0	1
11	Fast Outside - Inside	1	0	1	0
12	Wave	1	0	1	1
13	Cyclic Flow	1	1	0	0
14	4 Channel Knight Rider 'KIT'	1	1	0	1
15	6 Channel Knight Rider 'KIT'	1	1	1	0
16	Deep Shimmer	1	1	1	1

EXAMPLE = 1 - 0 - 0 - 1

CODE 1 0 0 1 = FAST Wig-WAG

LED FORMAT

1 2 3 4 5 6

1 FRONT LIGHT No. 1
2.FRONT LIGHT No.2
3.FRONT LIGHT No. 3
4. FRONT LIGHT No. 4
5. REAR LIGHT No. 1.
6. REAR LIGHT No.2.

ON APENS
1 2 3 4

6 5 4 3 2 1

Rev No	Mr RC WORLD
JUL 2012	
	6 CHANNEL
	16 FUNCTION CAR
	STROBE LIGHTING KIT
	Eng.
Scale 1:1	Drawing No 2 of 2