

Marquee LED Module

Controller

Ver 1.0

Introduction

"Marquee" LED Module will flash 1 to 10 LED's in a Count to and Stop or Count to and Repeat mode, you pick the number you wish it to count to or repeat to by using on-board wire jumpers. Adjustable LED speed rate. Perfect for models or costumes, especially when connected with fiber optics.

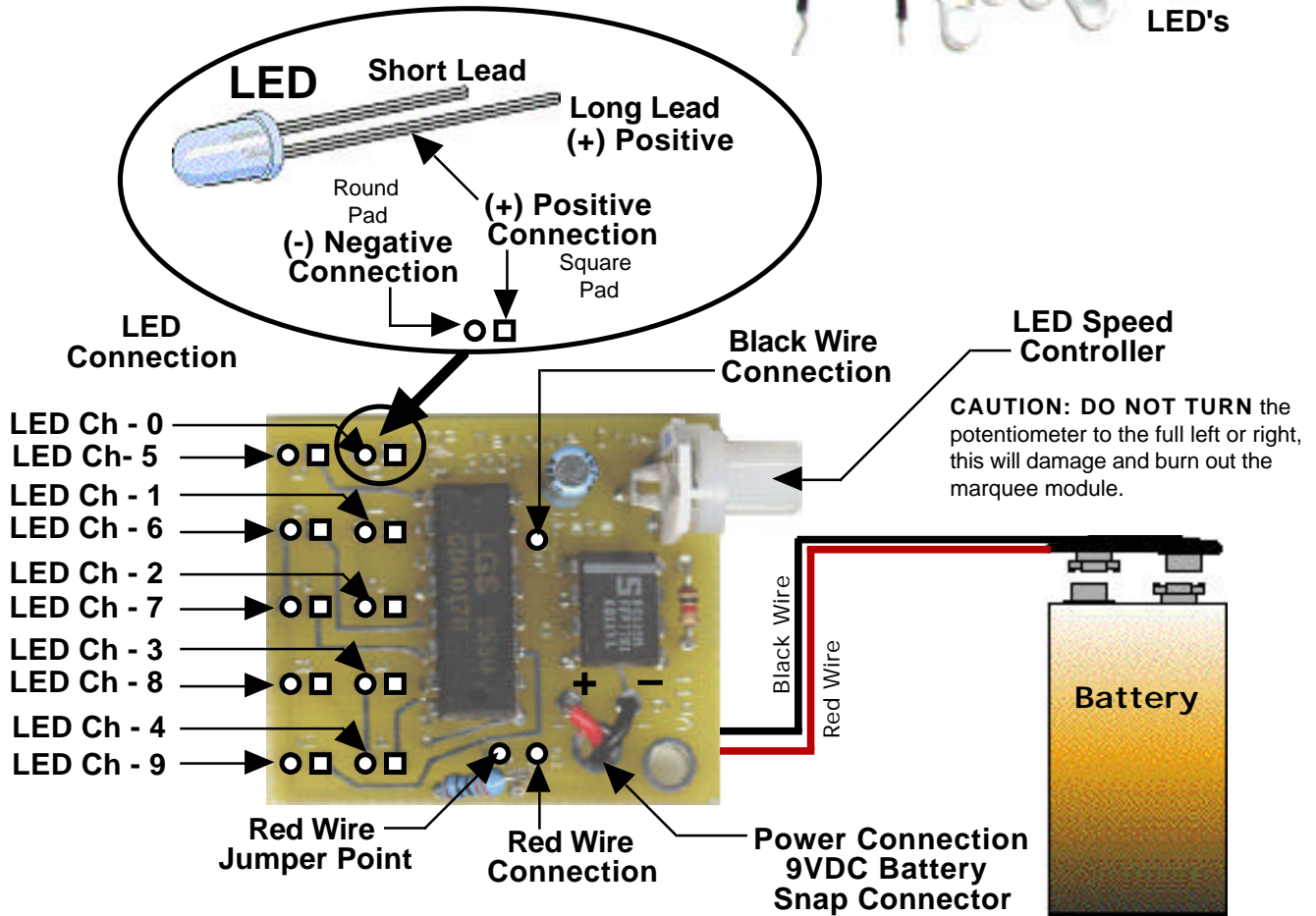
Connections

9 Vdc Batter Snap Connector

PC Board

Jumper Wires

LED's

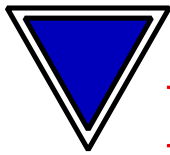


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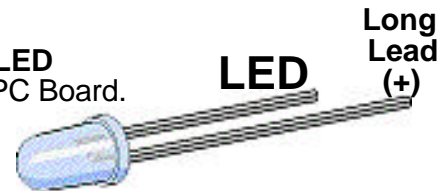


Marquee LED Module

Set - Up

1. First decide the number of LED's you are going to use on the board.
(*Minimum of 2 LED's required to operate board*)

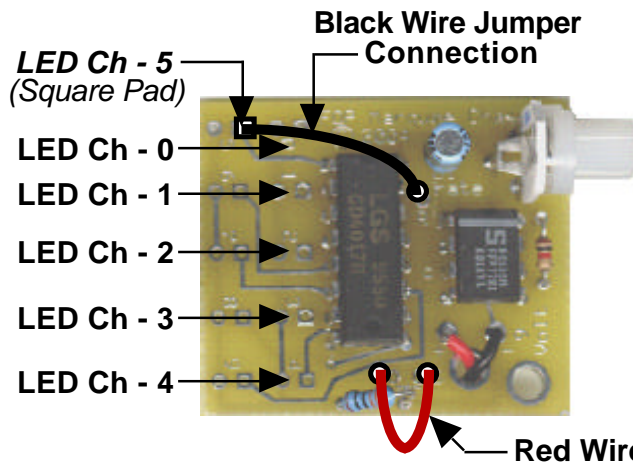
2. Solder the LED's on the board, remember the **long lead** on the LED is the positive lead and is soldered to the **Square Pads** on the PC Board.



3. Decide if you are going to have the LED's **Count and Repeat** or **Count To and Stop**.

4. Set the board up using the selected method below.

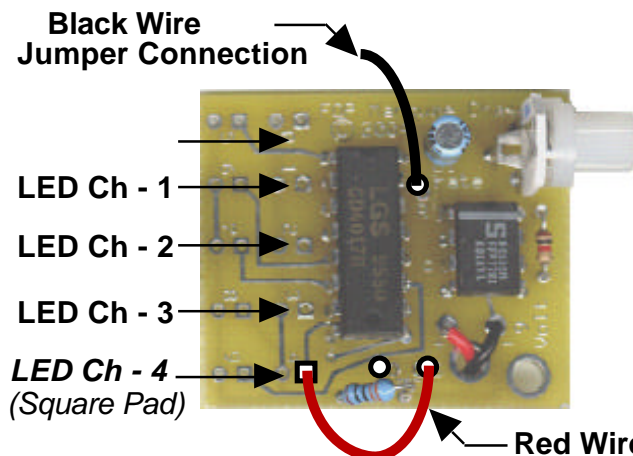
Count and Repeat Set- up



Solder the **Black** wire onto the next open Square pad after the last LED that you want the repeat to start at. Solder the Red wire onto the jumper opening next to the **Red** wire. (Star near pad opening)

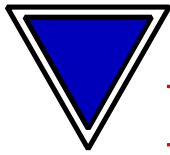
Example: You have 5 LED's on the PC Board and want to repeat LED's, then solder the Black Wire in the Channel - 5 Square pad after the 4th LED. The LED's will then light 0 - 1 - 2 - 3 - 4 and repeat Remember: The board starts at Channel - 0

Count and Stop 1-8 Set- up



Solder the **Red** wire onto the next open Square pad after the last LED that you want to stop at. The **Black** Wire is connected to red wire point on the PC board.

Example: You have 4 LED's on the PC Board and want to Stop after the 4th LED. Solder the Red Wire in the Channel - 4 Square pad. The LED's will then light 1 - 2 - 3 - 4 and stop Remember: The board starts at Channel - 1

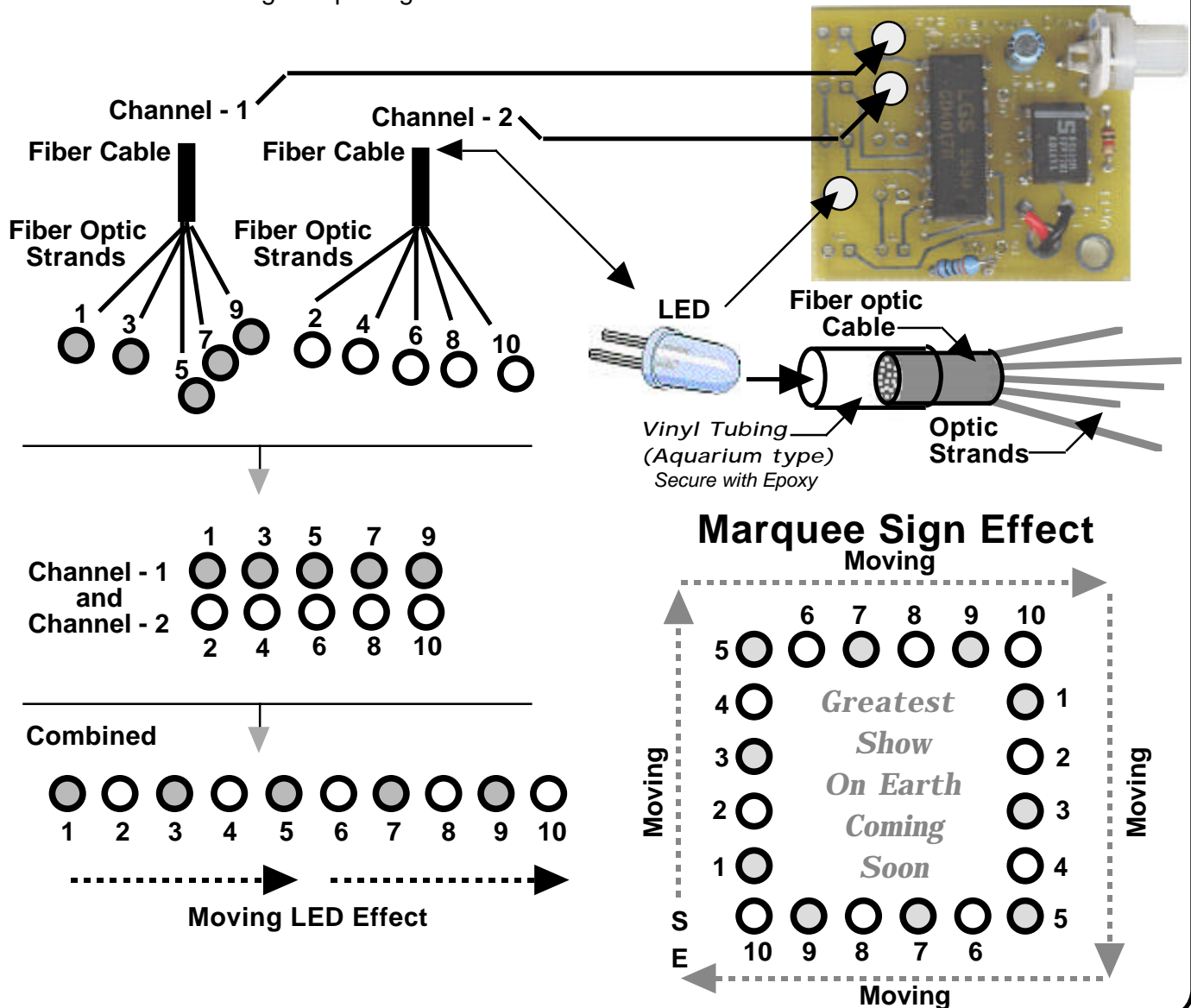


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Operation

1. Attach a 9 Vdc Battery to the battery connector snap.
2. Adjust the speed of the LED's by rotating the on-board potentiometer.
DO NOT TURN the potentiometer to the full left or right, this will damage and burn out the marquee module.

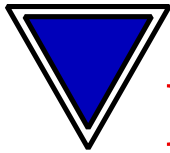
To make a moving Marquee Effect with fiber optics, connect the fiber cable to LED's using vinyl aquarium tubing between fiber cable and LED's on board the Marquee LED Module. Attach the other end of the fiber optic cable strands to your project in a 1-3-5-7-9 spacing pattern, and a 2-4-6-8-10 pattern. This will create a moving marquee light effect when the board is activated.



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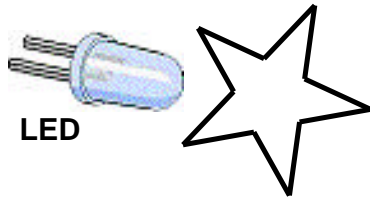
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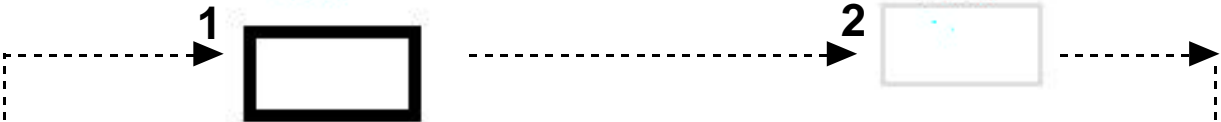
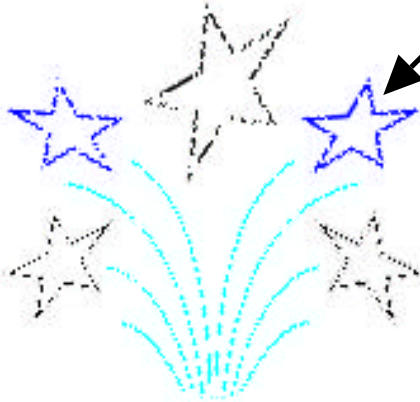
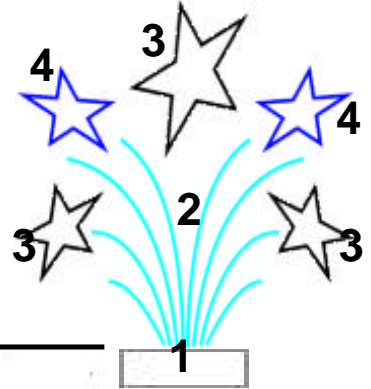


Marquee LED Module

To make a unique object in motion effect, connect LED's to shapes. Arrange the shapes so that each shape lights in sequence. As the LED's light (1-2-3-4) a unique effect will be created, as if in motion



Channel - 1
Channel - 2
Channel - 3



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