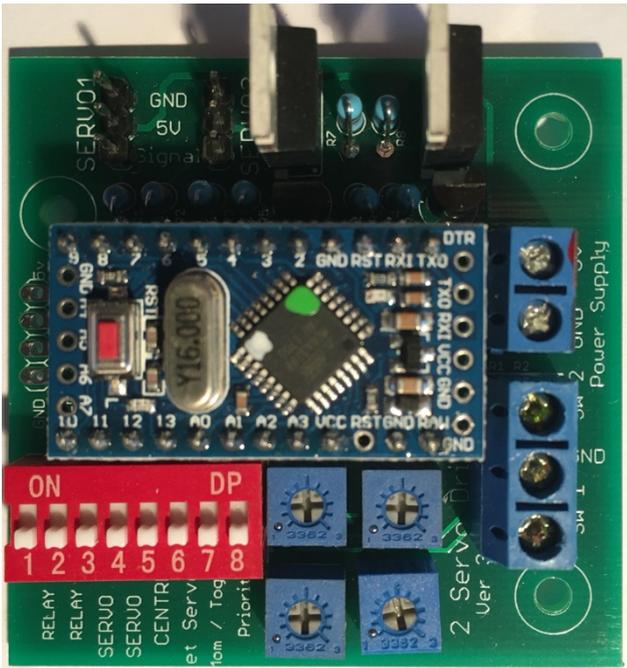


# Servo driver for Model Railways

WEB [drmow.net](http://drmow.net) email [david@drmow.net](mailto:david@drmow.net)

## 2 Servo Driver version 3



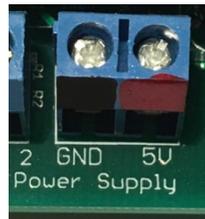
This servo driver can be used for controlling two servos for various animation projects on your model railway. The most common is for moving turnouts and holding the desired position, other uses are animating Semaphore Signals, operating gates, or people or animal movements.

Once set up with the direction and distance of travel set, each servo is controlled by a simple On/Off switch. When the signal is connected to ground the servo will move to the opposite end of the set travel, this mean it can be controlled by DCC decoders that pulls the input pin to ground or a switch located a long way away from the Servo driver.

The setup is simple with no programming.



Before attaching servos please rotate each of the four blue trimpots on the driver board anticlockwise, this sets the travel of the servos to their minimum travel. This will prevent them from damaging delicate components you wish to animate.



Connect the Power Supply 5V dc to the driver board (take note of the polarity on the driver board)



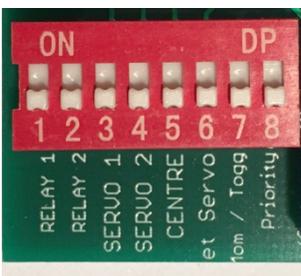
Connect the servos to the board (note the ground wire of the servo is near the edge of the board)

**Servos come with two common sets of wiring colours**

White / Red / Black - White is for the signal, Red for positive 5V dc, Black is ground.

Orange / Red / Brown - Orange is for the signal, Red for positive 5V dc, Brown is ground.

If the servos are installed the wrong way they wont be damaged but they will not operate.



To make it easier to mount the servo, they can be driven to the middle their travel.

On the Red switch bank on the driver board, turn switch 5 to ON, this will drive both servos to the middle of their travel and hold them in that position.

To adjust the distance of the travel of each servo.

On the Red switch bank, turn switch 5 to OFF and turn switch 6 to ON, this will drive both servos to the end of their set travel and hold them in that position.

Then adjust the trimpots, they are labelled Servo 1 or Servo 2.

If there is no movement try the other trimpot for that servo and it should start to move.

To set the opposite distance of travel for **Servo 1** turn switch 3 to ON, for **Servo 2** turn switch 4 to ON. Turn these switches (3 and 4) on and off until you are happy with the distance of travel set with the trimpots. Then turn switch 1 to 8 all to OFF. (Switches 1-2 and 7-8 are not used at this time).



The servos are now set and will operate when the external switches are switch to ground. To save power and to reduce noise power is turned of from the servos once they travel to their set location.

# Servo driver for Model Railways

David Willsher [modeltrainelectronics@gmail.com](mailto:modeltrainelectronics@gmail.com)

## Wiring Diagram

## 2 Servo Driver 3.0

