

Simple Servos 6

Simplified Electronic Control for Model Railways

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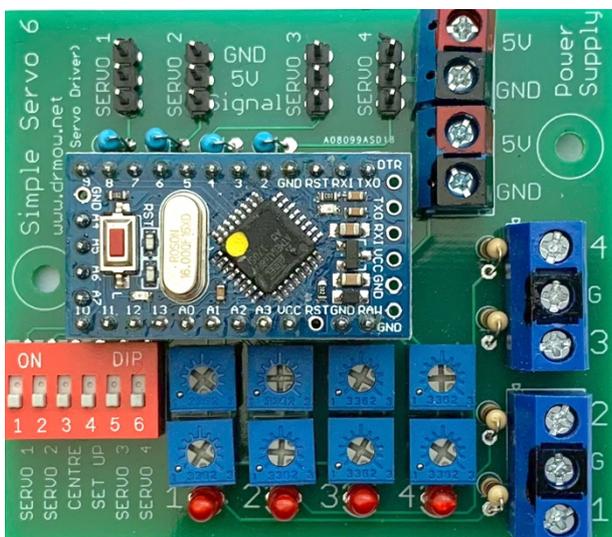


**4 Servos
2 Positions**

Servos are great for moving turnouts, signal arms, operating gates, or animating people and animals on your model railway.

Simple Servos 6 makes controlling four servos to two positions for your projects easy.

**The setup is simple
no programming, no computers.**



Once set-up, each servo is controlled by a simple ON/OFF switch.

Servos and switches are connected as indicated on page 2

You use a screwdriver to simply adjust the servo position required as part of the setup.



Note: for San Mateo Line Semaphore Signals, both 2 position and 3 position signals I recommend you use Simple Servos 5.

sanmateoline.com.au

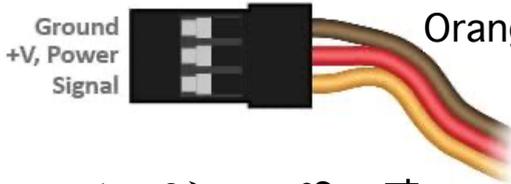
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Setup Diagram

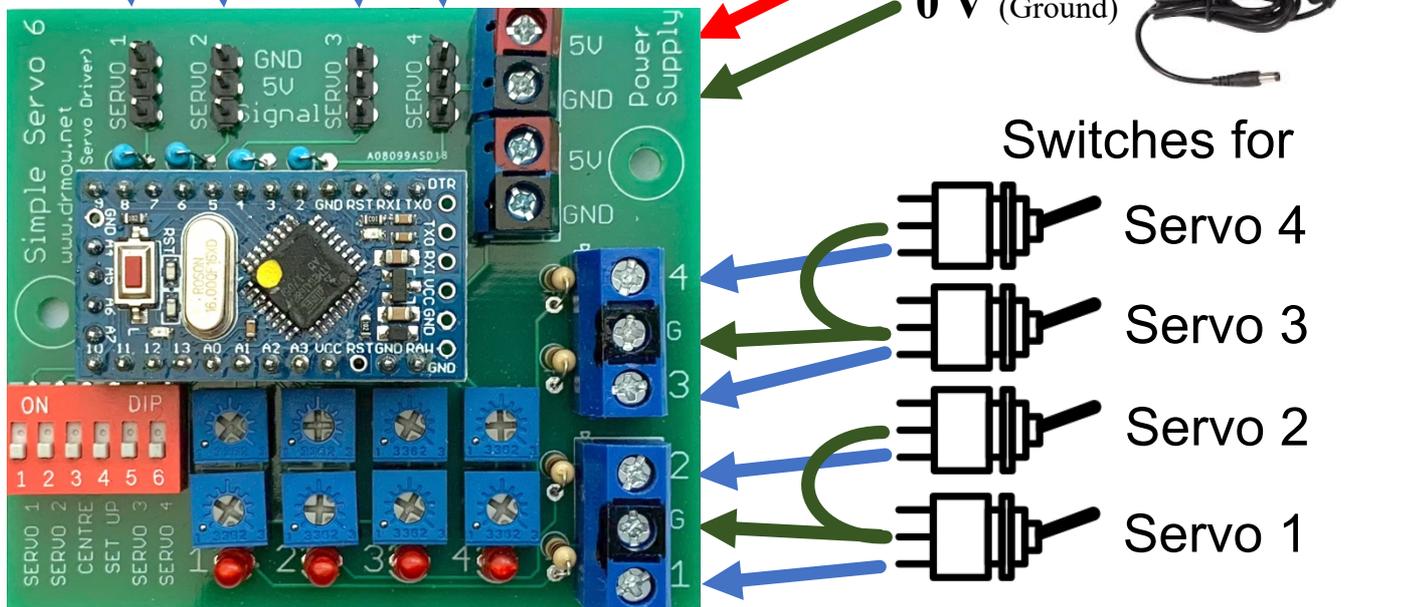


Connect the servos to the board

Servos come with two common sets of wiring colours
White / Red / Black - White is for the signal, Red 5V, Black is ground.
Orange / Red / Brown - Orange is for the signal, Red 5V, Brown is ground.



Servo 1
Servo 2
Servo 3
Servo 4



ON / ON 2 POSITION SWITCHES

Trim Pots to adjust travel of servos

DIP 1 (*Reverse the position of Servo 1 if required*)

DIP 2 (*Reverse the position of Servo 2 if required*)

DIP 3 (*Servos at centre of their travel*)

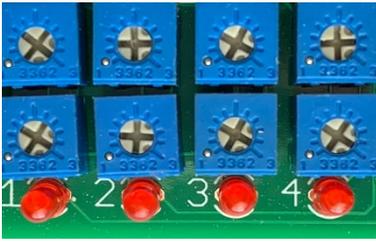
DIP 4 (*For setting travel and reverse*)

DIP 5 (*Reverse the position of Servo 3 if required*)

DIP 6 (*Reverse the position of Servo 4 if required*)

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Setup instructions



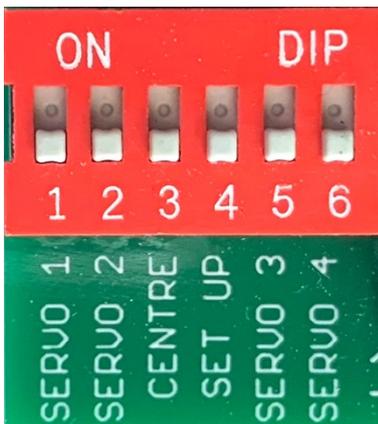
Step 1 - Before turning on the power,
Please rotate each of the eight blue
Trim pots anticlockwise.

This sets the travel of the servos to their minimum travel.
To prevent them from damaging what you wish to animate.

Connect the Servos

If the servos are installed the wrong way
they won't be damaged but they will not operate.

Connect external switches to select servo position
Connect the Power Supply 5V DC.



Step 2 -

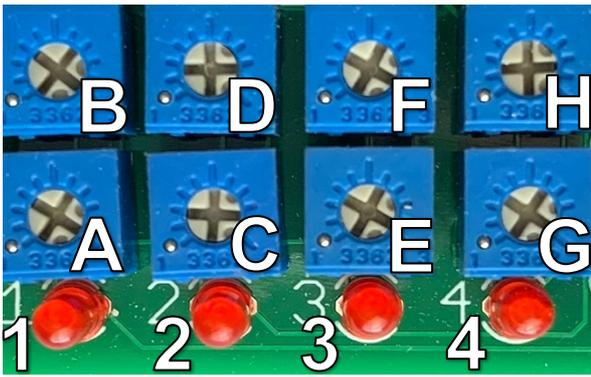
To make it easy to position the servo,
DIP 3 to ON all other DIP switches to OFF.
This will drive all servos to the middle of
their travel and hold them in that position.
Now turn on the power.

Mount the servos to the middle of the
travel on the item you wish to animate.

Once the servos are mounted turn

- DIP 1 to OFF
- DIP 2 to OFF
- DIP 3 to OFF
- SETUP** DIP 4 to ON
- DIP 5 to OFF
- DIP 6 to OFF

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Step 3 – To adjust the distance and direction of the travel for each servo.

On the Red switch bank, turn DIP 4 to ON, the servo will now move as you adjust the blue trimpots.

(By switching your Servo 1 to 4 Position Switches)

When the RED LED 1 is ON adjust Trimpot A for servo 1

When the RED LED 1 is OFF adjust Trimpot B for servo 1

When the RED LED 2 is ON adjust Trimpot C for servo 2

When the RED LED 2 is OFF adjust Trimpot D for servo 2

When the RED LED 3 is ON adjust Trimpot E for servo 3

When the RED LED 3 is OFF adjust Trimpot F for servo 3

When the RED LED 4 is ON adjust Trimpot G for servo 4

When the RED LED 4 is OFF adjust Trimpot H for servo 4

Step 4 - To reverse the servos direction of travel for the external switch position; (On the Blue switch bank),

for Servo 1 turn Red DIP 1 to ON,

for Servo 2 turn Red DIP 2 to ON.

for Servo 3 turn Red DIP 5 to ON,

for Servo 4 turn Red DIP 6 to ON.

Then readjust as per step 3

Step 5 - Once you are happy with the travel and direction of the servos turn DIP 4 to OFF. (On the Red switches)

The servos will now move to your set location as you operate your external Switches for the servos.

If you need to readjust the servos go back to Step 3 to 5.

For a new setup please go back to Step 1