

Dingo Servo Mounts

Omni Mount Assembly Instructions.

Please read these instructions right through before commencing.

Take a little care with the assembly and you will have a really robust servo mount.

Before you start, make sure that all the parts are in the kit (see diagram on the back page.)



This mount comes with all the difficult folding work done and the Main unit is pre-assembled for you. Please check that the slider moves freely with no binding. If it has become slightly distorted in transit, you can probably correct this by gently flexing the parts by hand until it slides cleanly.

This mount is designed to fit a Hobby King HK15178 or TowerPro SG90, but most 9g motors should also fit.

We now need to prepare the horn for the mount.



Remove the single horn from the Servo motor pack and lay it flat on the work bench.

Carefully with a sharp Modelling knife remove about 0.5mm from the boss down to the flat edge of the horn. This is to allow the head of the drive screw to fit flush.



Carefully fit the 1.6mm x 8mm screw from the “servo” side of the horn through the hole closest to the boss. This should screw in quite easily but be tight once screwed all the way in.



Now remove the excess length of the horn down to the second hole and trim corners with a pair of side cutters.

This mount does not have a lot of swing as it was mainly designed for smaller gauges and we need to make sure that the horn doesn't foul on the frame which may cause the motor to stall or worse, burn out.

Centre the motor with a servo tester or your preferred control software and fit the horn as shown in the picture.

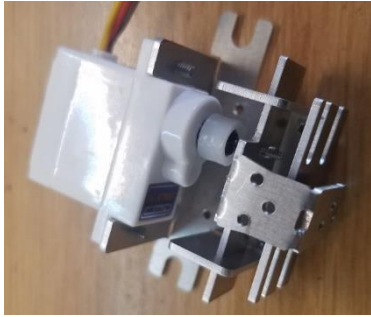


Attach with the small screw provided by the servo manufacturer. **(Be careful with these screws as they have a mind of their own and are hard to find replacements for)**

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Now mount the servo motor from the back of the frame using the M2 x 6mm screws supplied.



Make sure that the motor is oriented as per the picture. Make sure that the drive screw slides into the slot on the slider as you fit this. (A small dab of nail varnish or thread lock can be applied to the threads after fixing to prevent any loosening during operation although I have not found this necessary.)

Now you need to decide whether this will be a point motor or a signal driver.



For the point motor – fit 3 of the M2 x 3mm screws as shown. Do not tighten them yet as these will be used to hold the actuator pin in place.



If using this as a signal driver, you will place these 3 screws as shown here. Also you will need to bend the signal side plate along the dotted line on a wooden block or on the side of the work bench to 90 deg. This is attached to the base of the mount with the remaining 2 screws (M2 x 3mm)
This can be adjusted to suit once the mount is fastened in place.



The switches can be fitted to the nut plates with the M2 x 10mm screws (Note you will need to separate the nut plates either by bending back and forth or carefully cutting with a pair of side cutters. The switches can be slid onto the mount later once it has been installed and set up.

All that remains to do now is to mount the unit onto the layout with the 2 flanged screws provided. Make sure that the mount is centred before fitting so that it operates in its most central position.

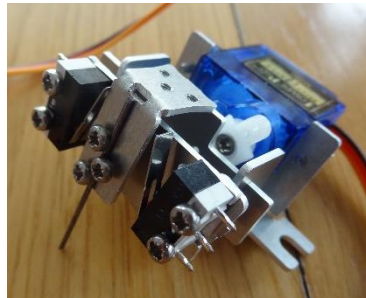
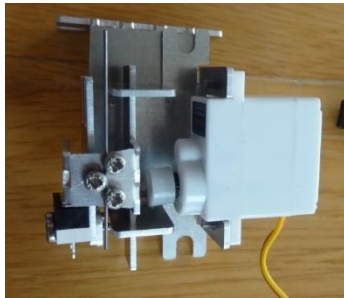
Attach the actuator pin or pull wire (if a signal) and set the endpoints with your software of choice.

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You can now fit switches to the base. The nut plate has 2 threaded holes spaced at exactly the right pitch for the switches. This allows the switches to be adjusted very easily without having to resort to spanners etc.

Move the switches towards the end of the slots away from the centre before operating the unit.



Once everything is working properly, the switches can be adjusted inwards so that they just operate at the end points of travel.

Dingo Servo Mounts have a single servo board unit and a Twin board which will operate this unit. Other control boards are on offer from MERG (in kit form) or from companies like Megapoints and Tam Valley Depot.

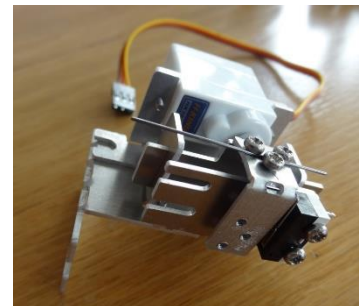
I hope you have many trouble free hours operating this unit. I welcome feedback in order to improve the units for the future.

Please forward any comments or issues to me.

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Additional Information.

I am currently working on a magnetic clip for this unit which should be available soon. This will enable a signal to be held magnetically rather than the belt and braces approach. This means that if the signal gets bumped, it shouldn't break the signal but rather just push it past the magnet which can then easily be reset.

Regards

Dave

Fitting the new Magnetic clip

Setting up a magnet clip for Omni Mount, Signal Mount or Mini Signals.

Put magnets together



Insert from Rear



Remove small magnet



Insert operating wire



Push down Magnet



Drop in Small magnet



Video Here https://youtu.be/g_jzVGfAouM

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No	Description	Qty
1	Folded Frame	1
2	Signal side plate (Not in Point kit)	1
3	Actuator wire (0.8mm)	1
4	Nut Plates	2
5	Switch (SPDT)	2
6	M2 x 3 mm Pozi Pan Head Screws (only 3 in Point)	5
7	M2 x 6 mm Pozi Pan Head Screws	2
8	M2 x 10 mm Pozi Pan Head Screws	4
9	M1.6 x 8mm Pozi Pan Head Screw	1
10	3mm x 6mm long Flange fixing Screws.	2

