

Dingo Servo Mounts

Multi Signal 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. **This mount come to you pre bent**, so there is no need to bend any aluminium with this mount.

However the parts can only be fitted one way around to enable the mount to function correctly.

Note: that this mount is designed to work with Fitec FS90 or PowerHD 1900A servos. Others may fit but cannot be guaranteed.

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

Do not open the small packet at this stage as it could lead to confusion.

Check the metal parts for excess flash from the lasercutting and remove if required with a small file or modelling knife. A small amount of burr on the edges will not affect operation, however check that the sliders fit easily in both top and bottom slider plates as tolerances here are quite tight and they need to move freely for reliable operation.

Any pips can be easily filed away.

Tools required.

A small Pozidrive screwdriver

1.8mm drill and drilling machine

Laying out the sliders

The picture below shows how the sliders are laid out and numbered as well as the relevant servo motor which will control them.



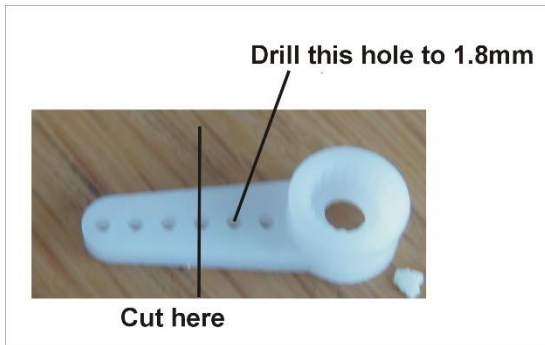
Slider layout and the relevant servo which will drive them.

Note: The servos are fitted at opposite hands.

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Sorting out the servo motors.



First get out the actuator pieces as per the picture from the servo packets.

Screw in a Pozi pan head screw from this top side (So that when it is fixed to the servo it stands proud)
2 will need 6mm screws (Nos 2 and 3)
The other 2 will need 8mm screws (Nos 1 and 4)
(As in the previous sketch)

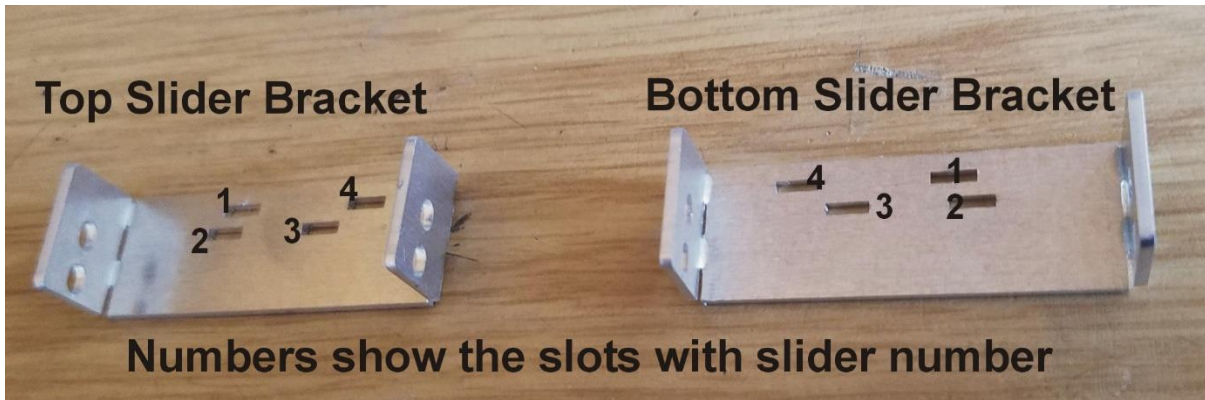
The screws should fit tightly and stand vertical – a small drop of Superglue may be used if the screw is not secure.)

Now centre the servos with a servo tester or other control gear and fit the actuators as per this picture.
Put the motors aside until needed.



Assembling Top Slider Bracket

Note the layout of the different brackets



Fit the top slider bracket first (Make sure you have the correct one)

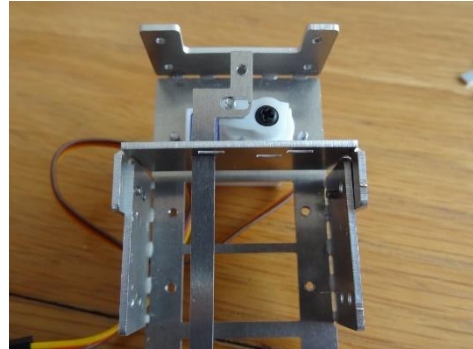
Fit only one M2 x 3 Screw on each side (The others will be fitted at the end once all movements have been checked out.

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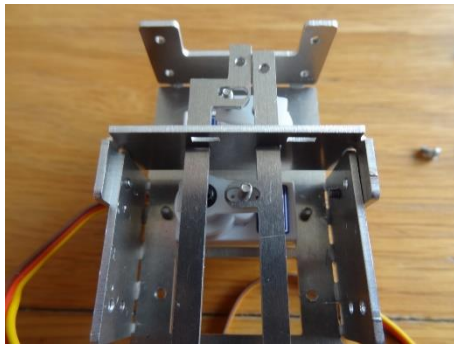
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Fitting the Servos

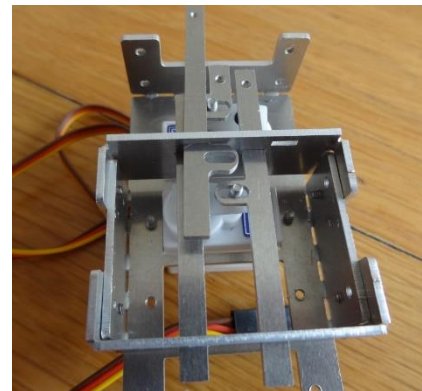
Gently push slider (2) through the top bracket (note the orientation and the correct hole) and fit the first servo (Servo 2) with the spindle to the right of the mount. Note this Servo has a 6mm screw in the horn. Make sure that the screw on the servo horn comes through the slot in the slider and fix servo in place with 2 off M2 x 6mm screws.



Now fit Slider (3) into its slot from the bottom and fit servo 3 in the opposite hand to Servo 2 (ie. Spindle on the left) This servo also has a 6mm screw in the horn.



At this point it will get a little tricky. Slide slider (1) into the top bracket from the bottom all the way up and then fit the bottom bracket carefully aligning the first 2 sliders into their respective holes in the bottom bracket. Again fix with just 2 screws M2 x 3mm

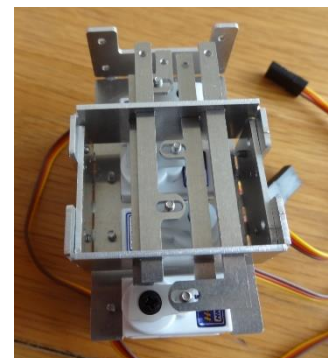


Now you can bring slider one back and through the bottom bracket and fit the next servo (Servo 1) making sure that this is the first servo with an 8mm screw in it and making sure that the spindle is on the right.



Make sure that as you fit each servo, that the screw in the horn engages in the slot in the relevant slider.

Now insert the last slider from the bottom making sure that it goes through both bracket in the respective holes and fit the last servo. Again this servo has an 8mm screw in the horn and the spindle should be on the left. This last slider fits with the slot below the bottom bracket.



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Once all servos have been fitted, please operate each one to make sure that everything is working smoothly.

You can then add the extra M2 x 3mm screws into the top and bottom brackets and tighten them

Once again check that all is well.

You have now completed the most difficult part.

Attaching the wire clips

In the small packet you will find 4 orange wire clips, 4 M2 x 4mm Pan head screws and 4 M2 x 4mm Countersunk screws.

Leave the Countersunk screws for the moment and use the other 4 screw to fit the wire clamps to the sliders



The wire will be held in the “V” slot and the raised edge of the clip will fit against the side of the slider top.

Note: you may need to remove excess flash from the clips before fitting.

Your finished unit should now look like this.



Now we come to the Top Plate.

The top plate has 4 Countersunk holes in it.

This maybe screwed directly onto the mount with the large slot over the sliders which will complete the mount.

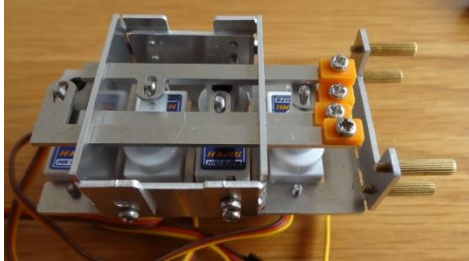


It can be fitted either on top or underneath the baseboard with the 2 flanged fixing screws.

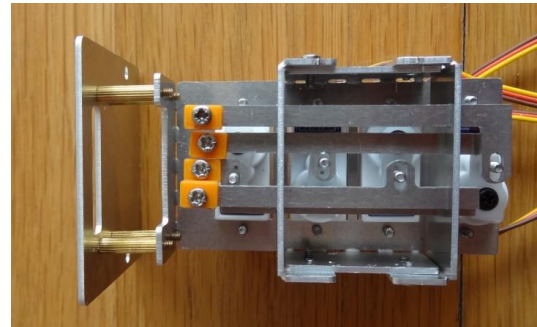
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Alternatively, it may be fitted with the 12mm standoffs so that the unit can still be accessed from below the baseboard even when fixed to the layout.



The Standoffs screw into the 4 holes on the mount and the top plate is then screwed to the top of the standoffs, again using the countersunk screws.



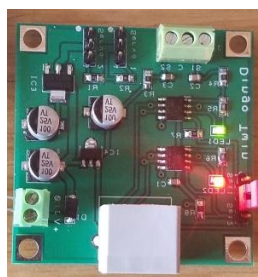
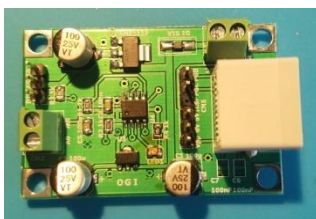
The unit is designed so that it may be fitted to the signal gantry itself in larger scales and then dropped through a cutout in the baseboard.

There is a template on the downloads page which will be correct if printed in A4.

The larger part of the cutout is for the main mount and the narrower part is for the servo motors.

I trust you will have much enjoyment with this mount and feel sure that the effort in putting it together will be worthwhile.

Dingo Servo Mounts have a single and a twin servo board unit 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.

David Ingoldby

Email - dingoservo@gmail.com ,

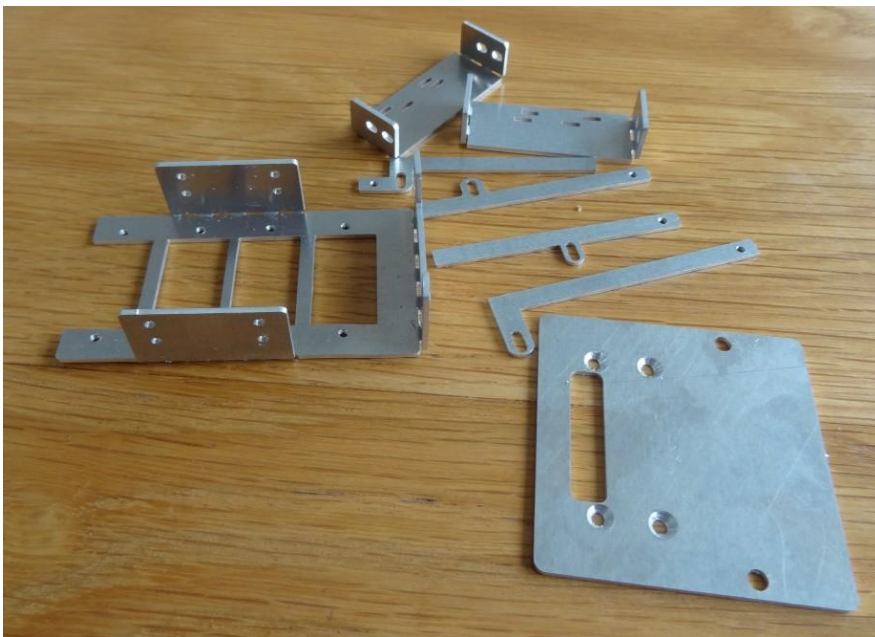
Mob 0775 4901324. www.dingoservo.co.uk

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| No | Description | Qty |
|-----|---|-----|
| 1 | Main Body | 1 |
| 2 | Slider (Set of 4) | 1 |
| 3 | Top and Bottom Slider Brackets (Set of 2) | 1 |
| 4 | Mounting Plate | 1 |
| 5 | 12mm Standoffs | 4 |
| 6 | M2 x 3 mm Pozi Pan Head Screws | 8 |
| 7 | M2 x 6 mm Pozi Pan Head Screws | 10 |
| 8 | M2 x 8 mm Pozi Pan Head Screws | 2 |
| *9 | M2 x 4 mm Pozi Pan Head Screws | 4 |
| *10 | M2 x 4mm CSK Screws | 4 |
| 11 | 3mm x 6mm long Flange fixing Screws. | 2 |
| *12 | Actuator Wire Clamps (Orange) | 4 |

Note * denotes part in small packet.



Metal work in the kit.