

# Dingo Servo Mounts

## Mini Point 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. Remember that you can only bend the aluminium once, so make sure you have the correct orientation before bending. (I cannot stress this enough! Check and double check before you bend.) Bending can be done by hand on the edge of a work bench or on a wooden block.

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

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 slider fits easily in both wings as tolerances here are quite tight and it needs to move freely for reliable operation.

Any pips can be easily filed away.

Start by folding the foot plate down along the dotted line. (Hold the top part firmly while bending to avoid any kinks in the motor mount section.) Make sure that this bend is fully 90 deg. You can always hold the part against the benchtop and just push a little more.

This is the block I use as a bending jig.



The 2 wings are bent in the opposite direction and can be bent by hand on a wooden block.

You should end up with a unit which looks like the 3<sup>rd</sup> picture. Note that at this point the wings may not have folded to 90deg. This will enable the fitting of the slider at a later stage, after which we will finalise these bends.



Make up the slider by fitting the wire clip (orange plastic part) with the M2 x 4mm screw in such a way that the raised edge fits along the side in the groove provided. (for normal point motor)

For Surface mount or to use as a "pull" motor this



clip is fitted with the raised edge over the top of the slider.

No need to fit the control wire at this stage,

You should now have both parts ready to accept the servo motor.

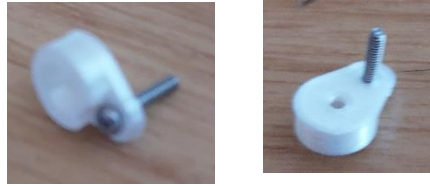
**This mount is designed to fit a PowerHD HD1370A Servo**

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Now the servo motor needs to be centred by means of a servo tester or the control software.

Get the 3D Printed horn out of the packet and fit the M1.6 x 8mm screw through from the back as shown.



*Note: The 3D printed replacement horn is supplied because the standard horns are very flimsy and may distort when adding screws.*

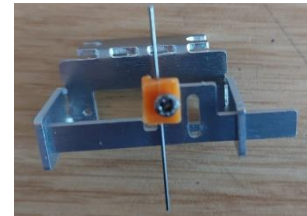


Now centre the servo with a servo tester and fit the horn as shown to the servo with the tiny screw in the servo motor pack. **(Be careful with these screws as they have a mind of their own and are hard to find replacements for)**

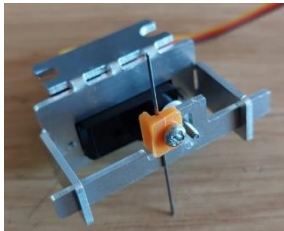
Insert the slider into the frame next.

Fit one side in first and slide all the way home. This can be a bit tricky and you might find one side goes in easier than the other.

The Wire clip needs to be on the "footplate" side.



Once the slider is in place and engaging with both slots in the wings, you can gently fold the wings up to their finished position by hand. Note: if you bend them just past the 90 deg point the slider will be trapped and should move easily from side to side



Now mount the servo motor from the back of the frame using the M1.6 x 5mm screws supplied.

Make sure that the motor is oriented as per the picture. (The motor shaft is to the right as shown.)

Also make sure that the horn screw engages with the slot in the slider.

The unit can now be mounted on the layout with the 2 flanged fixing screws.

Make sure that the control pin is centred before fitting so that the unit can operate to both sides.



Once everything is installed you can slacken off the screw holding the orange plastic clip and adjust the wire to the correct length. Lock the pin in this position and test.

All Dingo Servo Mounts Single and Twin servo board units are suitable for operation with these units.

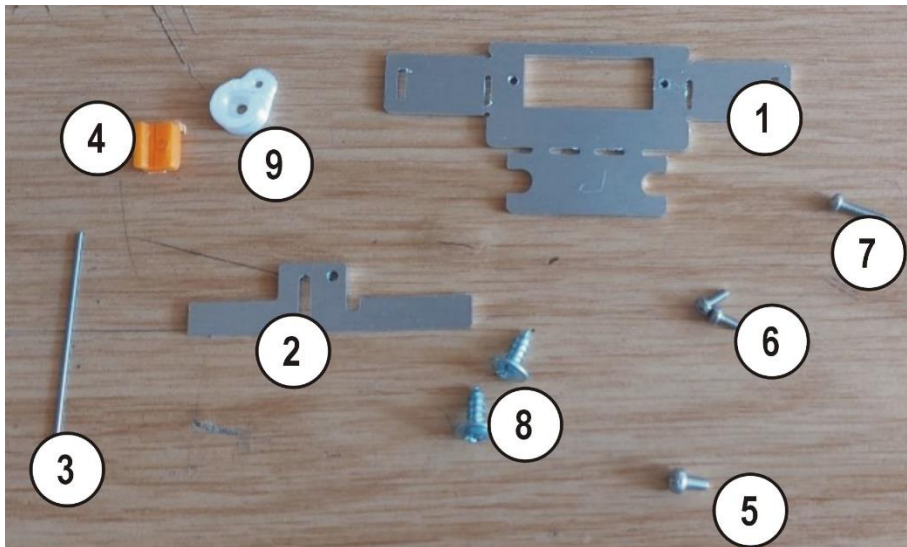
Other control boards are on offer from MERG (in kit form) or from various suppliers of model train servo equipment.

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### Parts List

No	Description	Qty
1	Main Body	1
2	Slider	1
3	Actuator wire (0.5mm)	1
4	Wire Clip (orange)	1
5	M2 x 4 mm Pozi Pan Head Screws	1
6	M1.6 x 4 mm Pozi Pan Head Screws	2
7	M1.6 x 8mm Pozi Pan Head Screw	1
8	3mm x 6mm long Flange fixing Screws.	2
9	3D printed Boss (White)	1



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](mailto:dingoservo@gmail.com) ,

Mob 0775 4901324. [www.dingoservo.co.uk](http://www.dingoservo.co.uk)