

Dingo Servo Mounts

Mini Signal Assembly Instructions. (For HD1370A Servos only)

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 diagram 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 this picture. Note that at this point the wings have not folded to 90deg. This will enable the fitting of the slider at a later stage, after which we will finalise these bends.

At this point you can fit the slider into the frame and close the folds carefully to 90 deg

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.



(Note: I shot most of these pics on my mobile phone camera and it does tend to distort the picture somewhat and right angles may appear less so)

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, but should move easily from side to side and not fall out at either end.

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Now prepare the servo horn

Fit the M1.6 x 8mm screw through from the back of the 3D printed replacement horn



It should self-start quite easily through the hole that is already in the servo horn

Make sure that it is all the way in and should stand at right angles to the horn

Now fit a Servo tester to the servo and centre the motor

This mount is designed to fit a HD Power HD 1370A Servo motor. Other small servos may fit but I have not tried any others.

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)**

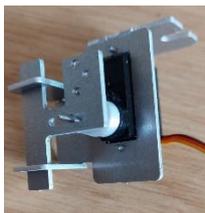


Now mount the servo motor from the back of the frame using the M1.6 x 5mm screws supplied.

Make sure that the motor is oriented as per the picture. (The motor shaft is at the bottom – away from the foot plate.)

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

I find it easier to fit the screw under the footplate first as this can be put into the servo and then the whole lot gently lowered into the frame.



This unit is quite delicate, so handle carefully and it should give years of satisfactory service.

Connect up the servo and check that everything works smoothly with no binding etc.



Finally fit the 3 screws on the slider for holding down the actuator wire from your signal or alternatively you may want to use the magnetic clip designed for the Omni mount as this will give more protection for your signal.



Now fit the unit under the baseboard using the 2 flange screws.

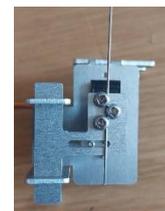
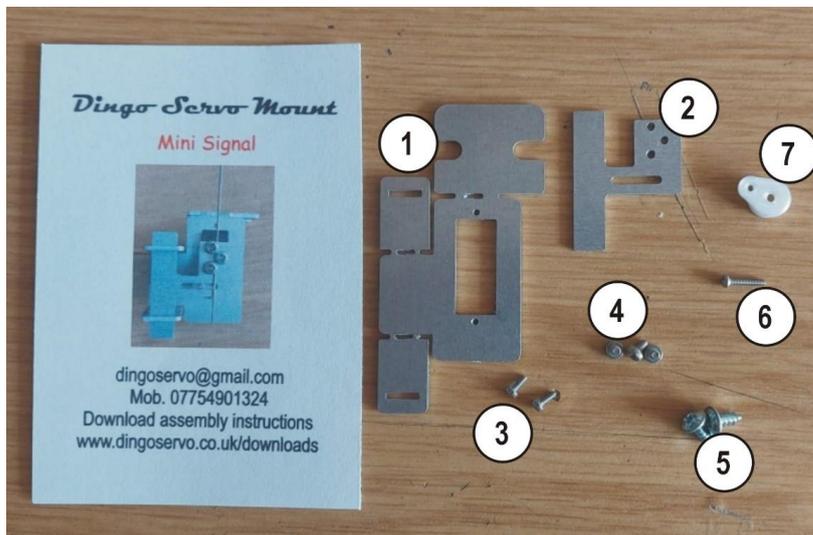
Attach your signal and adjust as required.

Make the final adjustments to the actuator wire and set your control software and you are ready to roll.

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No	Description	Qty
1	Main Body	1
2	Slider	1
3	M1.6 x 4mm Pozi Pan Head Screws	2
4	M2 x 3 mm Pozi Pan Head Screws	3
5	3mm x 6mm long Flange fixing Screws.	2
6	M1.6 x8 mm Pozi Pan Head Screw	1
7	3D Printed Drive dog / replaces horn on Servo	1

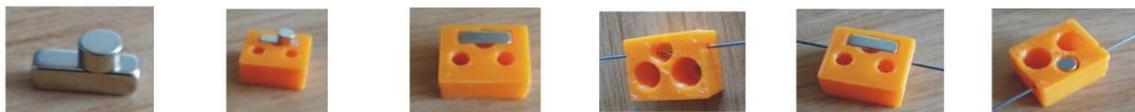


If you have bought the **“With Magnets”** pack you will also have an orange plastic component and 2 magnets.

Assembly video is here for this magnetic clip. https://youtu.be/g_jzVGfAouM

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



Please forward any comments or issues to me.

I hope you have many trouble free hours operating this unit.

I welcome feedback in order to improve the units for the future.

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