

Dingo Servo Mounts

SlimTwin 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.

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.

This mount comes with the frame pre folded

First fit the footplate to the top of the mount with the 2 M2x6mm screws

Note: If using the gasket fit this first. Alternatively you can easily remove the top plate by removing the 2 screws, fit the gasket and reassemble.

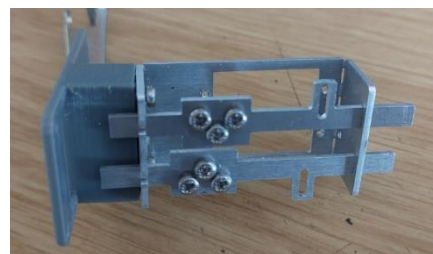


I suggest that you insert the M2 x 3mm screws for holding the actuator wires into the sliders before fitting them.



Note that you need to set these up handed – one left and one right. (If you are going to use the magnet clips, you can leave these screws out for now, but still fit them as handed.)

At this point you can fit the sliders into the frame
Fit the bottom in first and slide all the way home.
Then you can slide it back into the top slot.



Now prepare the servo horns

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.

These horns are various colours as I have printed them over time. Most are now the copper colour.

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

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.

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With the servo with centred 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)



You will need to make one left hand and one right hand as per the picture on the left. Fit them so that the horn is at right angles to the body of the servo.

Now mount the servos from the back of the frame using the M1.6 x 4mm 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.



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

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



Finally, if you want to use the magnetic clip, designed for the Omni mount as this will give more protection for your signal, fit them now. Again, you will find one left hand and one right hand once fitted.

Note: You can build and attach a signal to the footplate before attaching the mechanism so that the signal plus mount becomes one complete unit.

If using the magnet option you can fit this instead of the 3 screws just using 2 of these screws 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



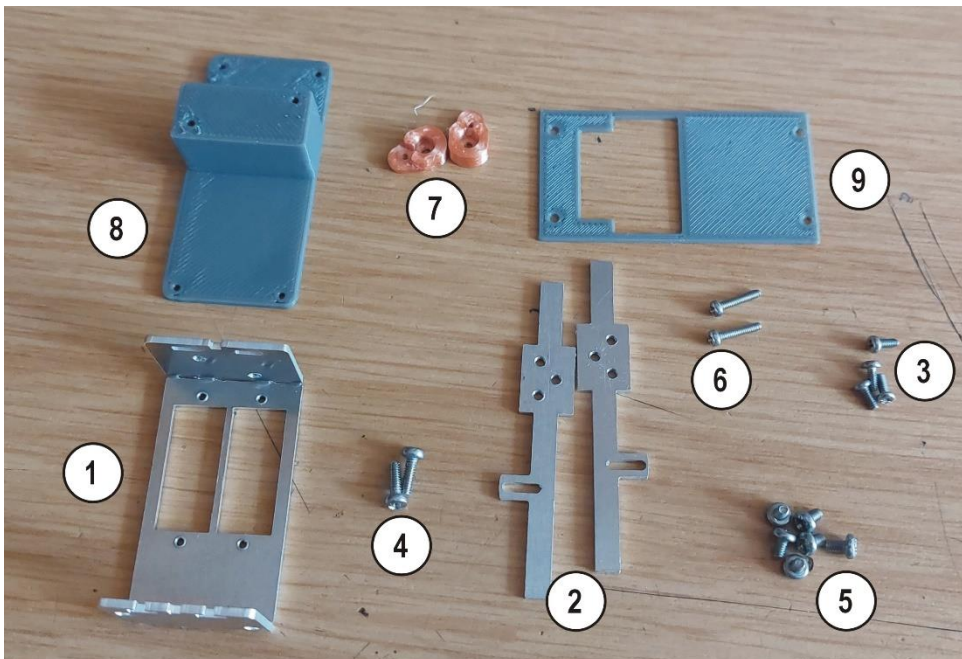
The Footplate can be shortened by cutting one or both endsoff. This will in no way weaken the structure, but may leave you with a more difficult fixing problem.

A rectangular hole of 23mm wide by 30mm long is required in the baseboard for the whole unit to fit though,

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No	Description	Qty
1	Main Frame	1
2	Slider	2
3	M1.6 x 4mm Pozi Pan Head Screws	4
4	M2 x 6mm Pozi Pan head screws	2
5	M2 x 3 mm Pozi Pan Head Screws	6
6	M1.6 x8 mm Pozi Pan Head Screw	2
7	3D Printed Drive dog / replaces horn on Servo	2
8	3D Printed Footplate	1
9	3D printed Gasket	1



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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