

Dingo Servo Mounts

SuperTwin 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.

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.

There are 2 distinct models of this mount

The Main unit, or top unit is a single mount for operating 2 signals

The Extension pack is an additional unit which will fit to the bottom of the Main unit.

They are sold as separate kits as more than one extension may be fitted to the Main (Top) unit.

You may also extend this unit with a SuperSlim extension mount to give a 3 signal mount.

With the SuperTwin extension unit you have a 4 signal mount.

This mount comes with the frame pre folded

If making a master or top unit, First fit the footplate to the top of the mount with the 2 M2x6mm screws



This mount does not have staggered screw holes so it can only fit one way.

Make sure that the slot in the top of the folded frame is fitted to the plastic footplate.

NOTE: the unit has 1 end with 2 holes – this is the top which need to fit to the footplate. The 4 hole end is the one that accepts the extension units.

At this point you can fit the slider into the frame (You may wish to fit the 3



M2x3mm screws to the slider first, or you can fit them later)

Fit the bottom in first and slide all the way home.

Then you can slide it back into the top slot.



(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)

Now prepare the servo horns (You will need 2)



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 (These parts maybe a different colour)

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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)**

For this mount you will need a handed pair of servos

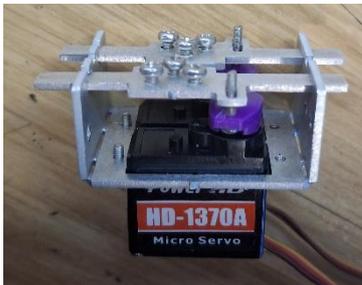
Now mount the servo motor from the back of the frame using the M1.6 x 4mm screws supplied. Make sure that the motor is oriented as per the picture. (The motor shaft is at the bottom – away from the foot plate.)

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.



To make up an extension unit follow the same steps omitting the Footplate assembly

This is fitted to the Main unit by means of the spacer block and the 2 M2 x 14mm screws.

These screws will thread into the 2 threaded holes at the bottom of the Main unit.

You can cascade more than one extension if needed and space allows.

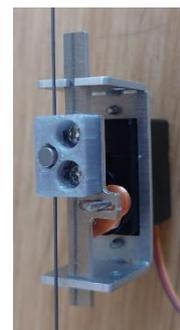
Note: You can build and attach a signal to the footplate before attaching the mechanism so that the signal plus mount becomes one complete unit.

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

If you have bought "Magnet Clips" you will also have a Grey plastic component and 2 magnets for each signal..

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

ONLY USE GREY MAGNET CLIPS WITH THESE MOUNTS.



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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



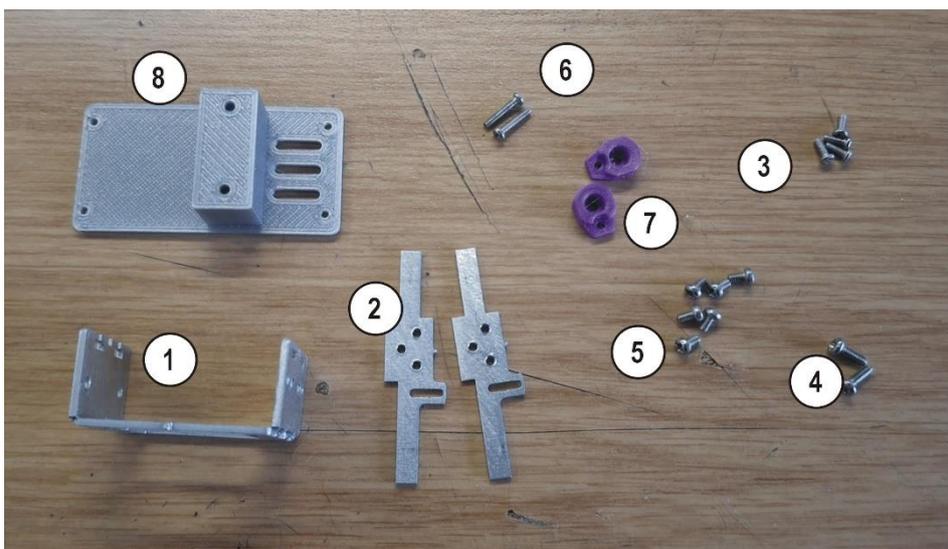
Drop in
Small magnet



A rectangular hole of 14mm wide by 30mm long is required in the baseboard for the whole unit to fit though,

MAIN UNIT PARTS LIST

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

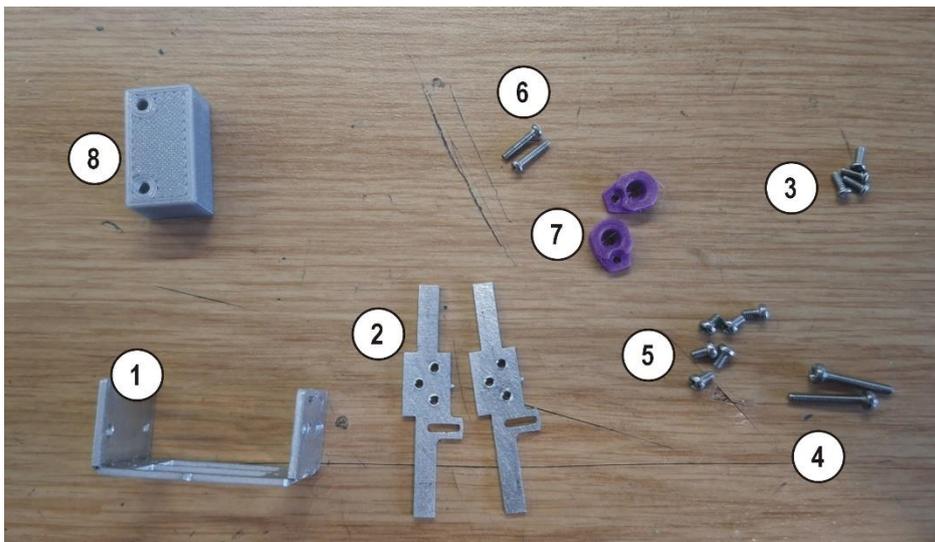


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EXTENSION UNIT PARTS LIST

No	Description	Qty
1	Main Frame	1
2	Slider	2
3	M1.6 x 4mm Pozi Pan Head Screws	4
4	M2 x 14mm 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 Spacer	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.

David Ingoldby

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