Dingo Servo Mounts

Dual Signal Mount Ver 1B Assembly Instructions.

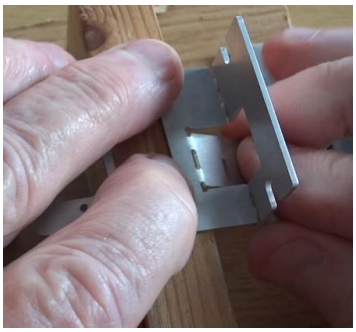
Please read these instructions right through before commencing.
Take a little care with the assembly and you will have a really robust servo mount.

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 laser cutting and remove if required with a small file or modelling knife. A small amount of burr on the edges will not affect operation. Any pips can be easily filed away.

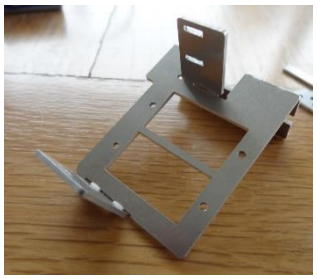
Remember that you can only bend the aluminum once, so make sure you have the correct orientation before bending. (I cannot stress this enough! Check and double check before you bend.)
Bending can be done by hand on the edge of a work bench or on a wooden block.
Start by folding the foot plate of the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

Lay the aluminum part flat on the work bench edge with the fold (Dotted Line) on the edge. I use a small piece of planed timber clamped to my workbench (See picture)
Make sure that you only bend the outer part of the footplate, leaving the inner part straight.
Push gently on the overhanging piece while holding the part flat on the bench. It will fold on the line.
Make sure that the fold is to 90deg.

Now reverse the plate and fold the 2 wings as shown in the picture. (Note: the fold in the opposite direction to the footplate fold)



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.



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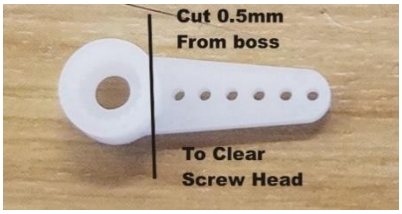
Now prepare the servo horns
Take out the smaller horn and fit the M1.6 x 8mm screw through from the back of the horn
It should self-start quite easily through the hole that is already in the servo horn



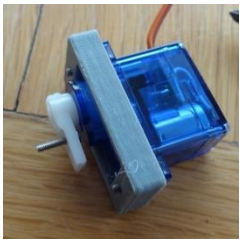
If you use the second hole from the centre that should be fine, but for a finer adjustment you can use the hole nearest the centre of the horn.
If you do this, you will need to trim away a small amount of the boss before inserting the screw to allow the screw head to clear and for the screw to be at right angles to the horn unlike the picture on the left.

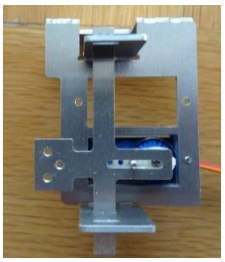
(The object of using servos accurately in model railways, is to allow the servo a large swing, while only moving the pin a small amount. This mechanical disadvantage offers much greater control and tolerance.)

You also need to cut the horn a bit shorter by cutting off at least at the second hole from the tip.
This is to avoid the horn catching on the wings of the mount.

Centre the servo with a servo tester and fit the horn as shown in the picture.
You will need 2 of these.

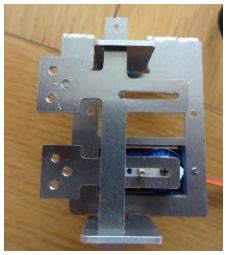
Now fit the back slider into the frame – This is the slider with 2 small holes at the top
Insert the longer leg first and then the shorter on.
Once in, you can finalise the 2 folds so that the frame is all nice and square and the slider is moving freely.





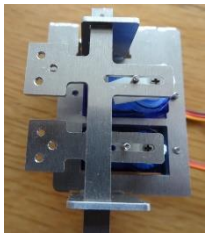
Once you are happy that this is OK, you can fir the first servo with the 3D printed spacer in from the back so that the drive screw enters the slot in the slider.

Secure the servo with the 2 M2 x 10mm screws.
It's quite useful at this point to connect a servo tester and check that all is operating properly.



Now we can add the second slider (the one with 1 small hole) into the frame.
This should be possible even with the frame all bent up.

The second servo is fitted the same way with the 2 M2 x 6mm screws.
You may have to trim the horn a little bit so that it passes the back slider.



Well done! The mount is now complete.

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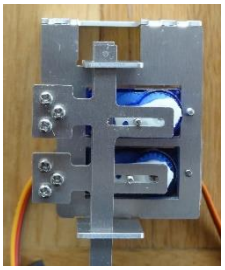
There are a few different ways that the actuator wire can be fixed to the mount.

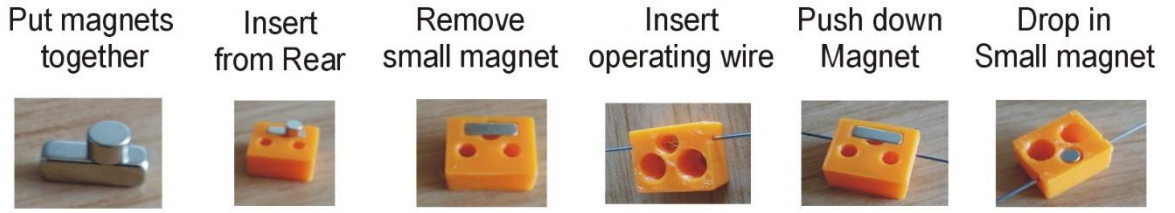


The simplest way is to use the 3 M2 x 3mm screws provided in the pack to clamp the actuator wire to the Mount.

You will need 3 screws in each slider.

However, if you want to use one of our magnet clips to help protect your signal you can use the new flatter Grey magnet clips.
These fit with just 2 of the M2 x 3mm screws .

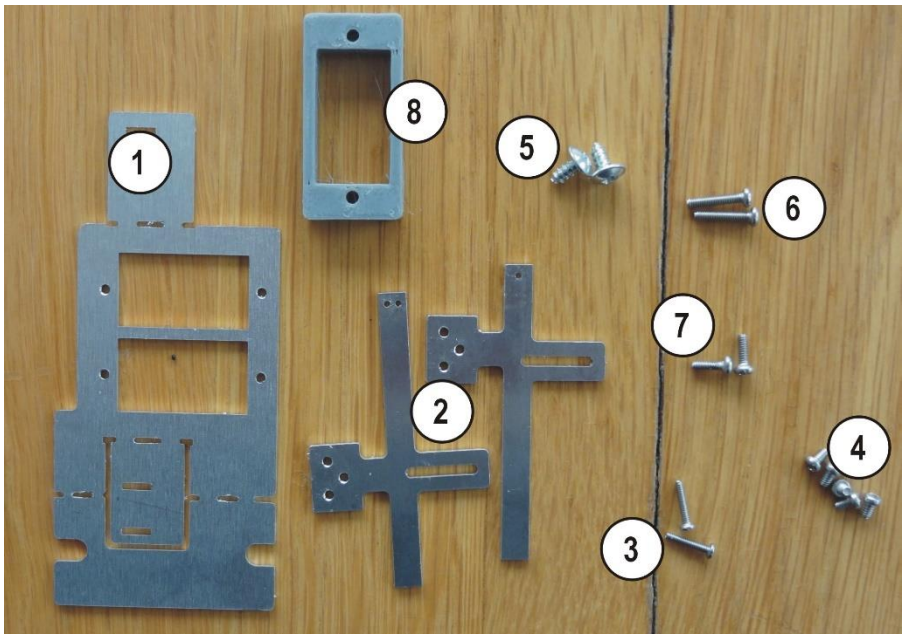
Setting up a magnet clip for Omni Mount, Signal Mount or Mini Signals.



For the grey clips see video here
https://youtu.be/gdmArf5u3Uk

Parts List

No	Description	Qty
1	Main Frame	1
2	Sliders One with 1 hole one with 2 holes	2
3	M1.6 x 8 mm Posi Pan Head Screws	2
4	M2 x 3 mm Posi Pan Head Screws	6
5	3mm x 6mm long Flange fixing Screws.	2
6	M2 x 10mm Pozi pan head screws	2
7	M2 x 6 mm Posi Pan Head Screws	2
8	3D Printed spacer	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.
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