

# Dingo Servo Mounts

## 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.

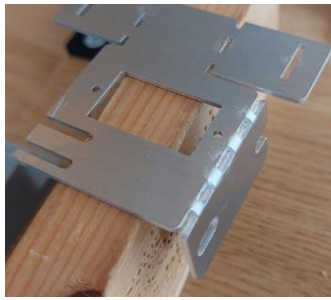
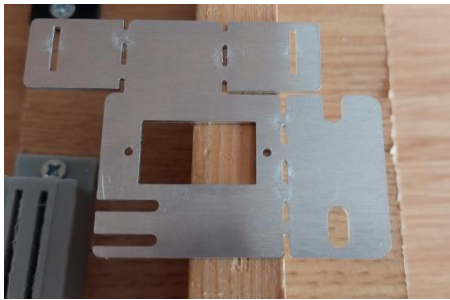
Before you start, make sure that all the parts are in the kit (see diagram on the back page.)

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.

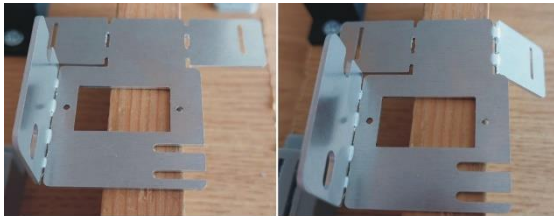
Start by folding the foot plate of the main mount.



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)

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.

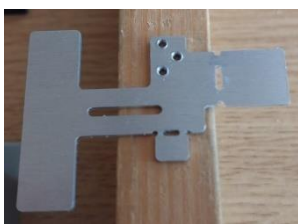
Now reverse the plate and fold the 2 wings as shown in the picture.



Note 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.



Now turn to the slider and make the one fold as shown in the picture – make sure that you fold

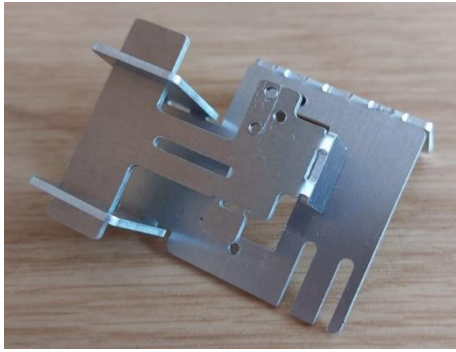


these 2 parts exactly as per the pictures to make sure that the final unit will all go together.

The fold on the slider is used to operate the switch when the servo moves.

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Now carefully fit the slider into the main frame and fold the wings up to 90 deg.  
Make sure that the mount moves freely and tweak the fold slightly if this is not the case.

Note: I take these pictures on my phone so sometimes there is a bit of distortion. The actual frame is folded to 90deg.

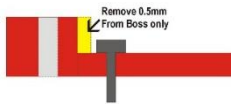
Congratulations! You now have the finished frame.

Now prepare the servo horn

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.



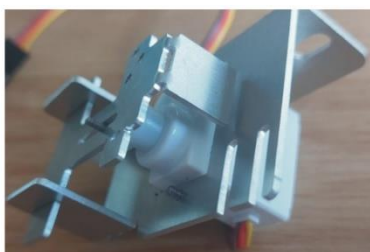
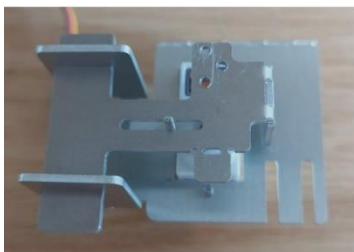
(The object of using servos accurately in model railways, is to allow the servo a large swing, while only moving the pin a small amount. This mechanical disadvantage offers much greater control and tolerance.)



You also need to cut the horn a bit shorter by cutting off at 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.



Now carefully fit the servo motor through the frame from the back so that the screw in the horn fits into the slot on the slider and the boss of the servo is away from the footplate.

Fix the servo with the 2 M2 x 6mm Screws.

Now test the mechanism carefully with a servo tester to make sure everything works as required.

# Dingo Servo Mounts

## Signal Mount Ver 1B Assembly Instructions.

### Fitting a Switch



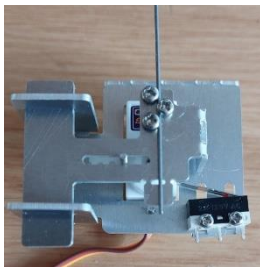
Make up a switch if required using the Nut plate and 2 M2x10mm screws. Note that the switch lever needs to face towards the servo motor when fitted.

The switch unit should only be fitted to the mount and slid into position after travel of the mount is set up

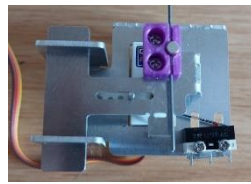
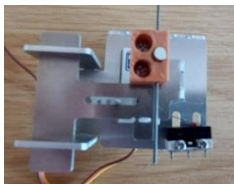
The switch should just operate at the limit of travel.

### Holding the signal actuator wire.

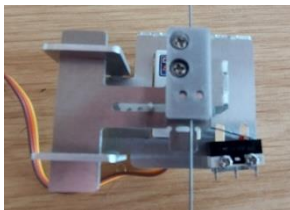
There are a few different ways that the actuator wire can be fixed to the mount.



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



However, if you want to use one of our magnet clips to help protect your signal you can use either the standard (Brown or Orange) units or the newer Purple -easy to take apart unit.



For those wishing to remove their signals for transport we now have the new roller magnet mount which allows one to remove the actuator wire and re-insert without taking the mount apart.

This pictorial diagram shows how to fit magnets in the standard brown or purple clips.

### 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
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For the purple clips see video here

<https://youtu.be/JAJP-poNDO!>

For the Roller clip see video here.

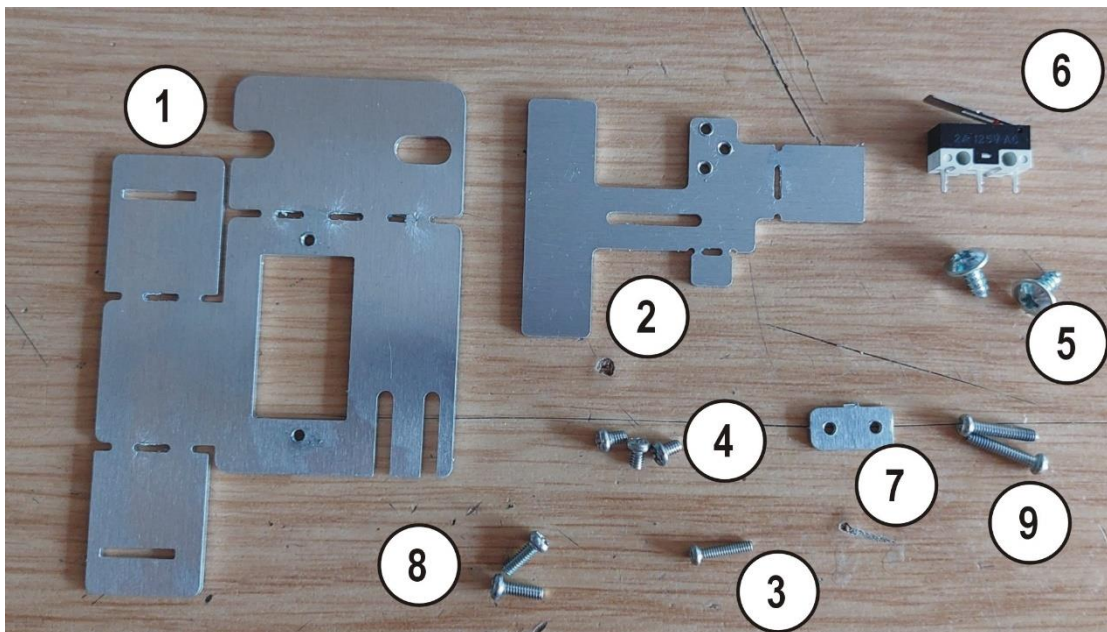
[https://youtu.be/ql0\\_iKufGVo](https://youtu.be/ql0_iKufGVo)

# Dingo Servo Mounts

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### Parts List

No	Description	Qty
1	Main Frame	1
2	Slider	1
3	M1.6 x 8 mm Posi Pan Head Screws	1
4	M2 x 3 mm Posi Pan Head Screws	3
5	3mm x 6mm long Flange fixing Screws.	2
6	SPDT Switch	1
7	Nut Plate	1
8	M2 x 6 mm Posi Pan Head Screws	2
9	M2 x 10 mm Posi Pan Head Screws	2



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

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