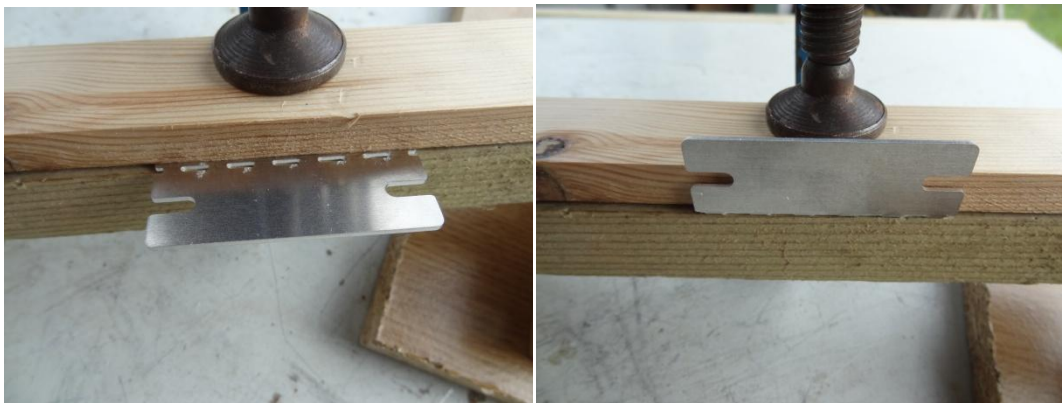


Dingo Servo Mounts

HD Servo Mount 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. 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, However the first bend is quite difficult and I would suggest that you bend it by first clamping the part between 2 pieces of wood with the perforated line on the edge. You can now push down onto a bench and achieve a good first fold.



The 2 wings are bent in the opposite direction but can be bent by hand on a wooden block. You should end up with a unit which looks like the 3rd picture. Make sure all bends are 90 deg.



Now take the slider and fold along the short dotted line. Take some care here as the way you fold this will determine the final arrangement of the mount.



This fold is required for operating the switches if fitted. (Note: switches are not included in the kit). Now do a test fit of the two parts and make sure that the slider operates freely. There maybe a bit of a burr on the edges which can be easily removed with a small needle file.

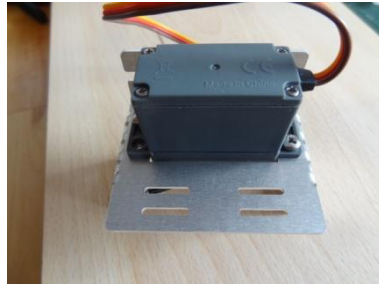
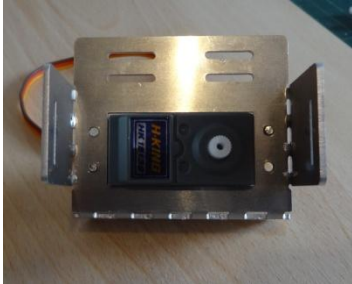
You should now have both parts ready to accept the servo motor.

This mount is designed to fit a Hobby King HK15139, but similar sized motors like the Futaba S3003 should also fit. (Note there are 2 fillets on the top of the mounting face of the Futaba unit which will need to be carefully filed off.

Dingo Servo Mounts

HD Servo Mount Assembly Instructions.

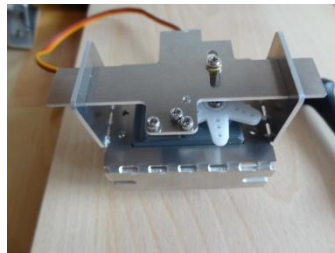
Now mount the servo motor from the back of the frame using the M3 screws supplied. 4 screws and tapped holes are provided, but one on each side will probably be sufficient. Make sure that the motor is oriented as per the picture. (If for some reason the slider was folded the opposite way then fit the motor the other way around.)



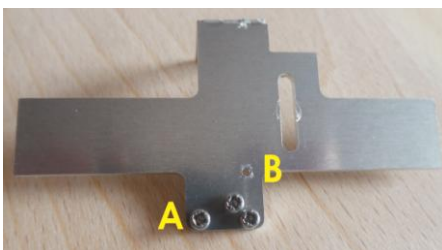
Now the servo motor needs to be centred by means of a servo tester or the control software. Get the 6 pointed star actuator out of the servo pack and fit it with one point facing upwards. Attach with the small screw provided by the servo manufacturer.



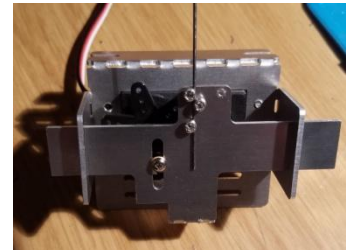
Insert the slider into the frame – one end first and then slide to the centre. Get one of the servo motor fixing screws and one of the brass eyelets to use as a pivot for the slider. Screw this into the star wheel in the hole closest to the centre of the star. Don't over tighten as this will bend the slider and put undue strain on the unit.



Now fit the three M2 x 3mm screws into the holes in the slider – the picture shows it set up as a pull unit mounted on top of the base board. To use as an underboard unit move the screw from hole "A" to "B" and turn the whole unit over so that the mounting foot plate is at the top.



As per this picture



Dingo Servo Mounts

HD Servo Mount Assembly Instructions.

You can now bend the piano wire to suit and clamp it between the three screws on the slider. One end of the wire needs to be fitted with a “hook” to connect to the tie bar on the point. The “free” end is clamped between the three screws on the slider bar. (As a suggestion, I always tighten the centre screw first and then the other 2.)

These three screws provide adjustment so that the centre point of the servo mechanism aligns with the centre position of the point.

You may wish to do this once the unit is in place.

This picture shows a wire bent for pull operation on the top surface.

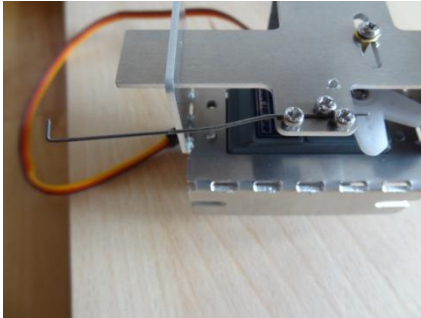


Fig 2

20SWG (1mm) piano wire is readily available from most good model shops at very reasonable prices. If you need to create something different, a small purchase would suffice. Piano wire can be cut with a good pair of heavy duty sidecutters or with an abrasive “Dremel” type tool.

The unit is designed to accommodate up to 4 microswitches fitted with M2 screws and nut plates into the 4 slots at the “top” of the unit. These are not included in the kit, but can be ordered separately.

Now all that remains to be done is to fit the unit to the layout and set up the end positions using the control software of choice,

Dingo Servo Mounts have a single servo board unit which will operate this unit.

Part No	Description	Qty
1	Main Frame	1
2	Slider	1
3	Motor mounting screws M3x5mm	4
4	Slider screws M2x3mm	3
5	Flanged Fixing screws No3 x 6mm	2
6	Length 20SWG Piano wire	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, issues to me.

David Ingoldby

Email - dingoservo@gmail.com , Mob 0775 4901324. www.dingoservo.co.uk

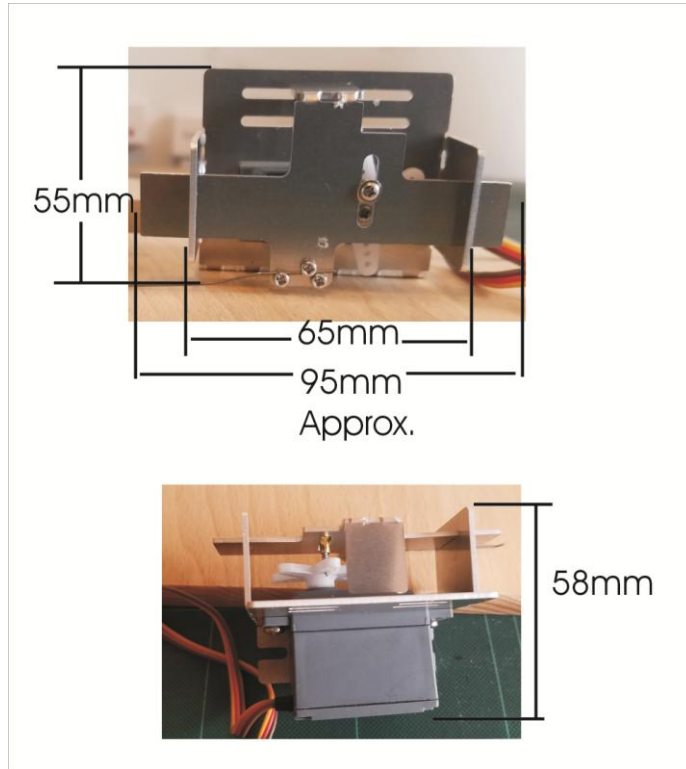
Dingo Servo Mounts

HD Servo Mount Assembly Instructions.

Additional Information.

The attached picture shows approximate dimensions of the completed mount.

Final sizes could be slightly different, depending on the overall size of the servo motor used, as well as the throw of the slider.



Adding Switches.

Switches are not generally supplied with the Mount kit as this may not be practical in outside situations.

The mount is cut to allow the fitting of up to 2 switches on each side.

Please specify this when ordering your kits and we can include them.

Please note that the standard switches that we supply have a current rating of 1A only. These may not be heavy enough to carry the motor current to the frog for larger motors, so we suggest that you use the switch to operate a heavy duty relay.

