

# Dingo Servo Mounts

## Mini Rotating Signal Mount Assembly Instructions.

Note that the switch option is an additional kit and must be purchased seperately.

Please read these instructions right through before commencing.

Take a little care with the assembly and you will have a really robust servo mount.

**This Mount is specifically designed for the Power HD HD 1370A servo.**



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. Any pips can be easily filed away.

This mount comes pre-folded so you do not need to fold the metal as in some of the other mounts



Next take the top Flange "Grey" and fit it through the round hole in the top of the mount from inside the "U" and secure with the 2 M2 x 3mm screws. (Note all holes are pre-tapped for the screws.) The screws should finish more or less flush with the top of the mount and not protrude at all.



Now fit the larger tube into the top bracket.

At this point you might need to cut the tube to the required length so that it just fits flush to

the top of the baseboard. (Note you will need to drill a 4.8 - 5mm hole through the baseboard to accommodate this tube)

The tube should be a press fit, but can be secured with a small drop of glue if required.

As most rotating signals are mounted on an extended sleeper or tie, Position the signal kit and drill a small 1mm hole through the sleeper and the base board to allow the actuator to pass through.

From the bottom of the baseboard enlarge the hole to accommodate the 3/16" tube (4.8mm) and carefully stop this hole just shy of the baseboard top.

Align the tube with the hole for the signal actuator and cut tube to length so that it is just shy of the top of the baseboard and fix the mount in place with the 2 fixing screws.

(For Signals that are mounted higher than ground level, the kit comes with a top cap which can be glued to the baseboard and will enter into the top of the tube.)

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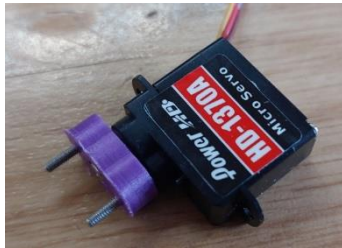
## Mini Rotating Signal Mount Assembly Instructions.

Now prepare the Servo horn to drive the dog.

Start by inserting the 2 x M1.6 x 8mm screws through the purple replacement horn as shown in the picture.

The screws are fitted from the side with the 3 large holes.

These 2 screws will engage the dog which will be attached to the signal.



Now the servo motor needs to be centred by means of a servo tester or the control software.

Attach the modified horn with the small screw provided by the servo manufacturer. **(Be careful with these screws as they have a mind of their own and are hard to find replacements for)**

This should be lined up parallel to the servo body – it does not matter which way around you put it on.



Try the Actuator wire from the signal in the drive dog – It should fit quite easily – if not.

Drill out the drive dog carefully to fit the actuator wire from the signal kit and cut said wire to protrude just below the tube on the completed mount.

Move the signal to 45 deg and fix the dog to the actuator wire straight with the mount allowing a very small gap between the drive dog and the bottom of the tube. Secure the wire with a small dab of superglue. (Note there is some play)



Now present the assembled motor to the mount so that the 2 screws of the horn fit into the slots on the drive dog

Use the 2 M1.6 x 3mm screws to secure the motor.

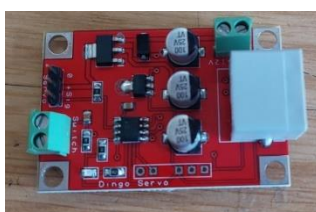
Test the unit carefully with a servo tester to make sure everything works as expected.

Replacement tubes can be cut from styrene tube – 3/16" tube Evergreen Item No 226

Dingo Servo Mounts have a single RED servo board unit and a Twin Red servo board which will operate this unit.

Other control boards are on offer from MERG (in kit form) or from companies like Megapoints and Tam Valley Depot.

**The New Switch pack is available for this unit**



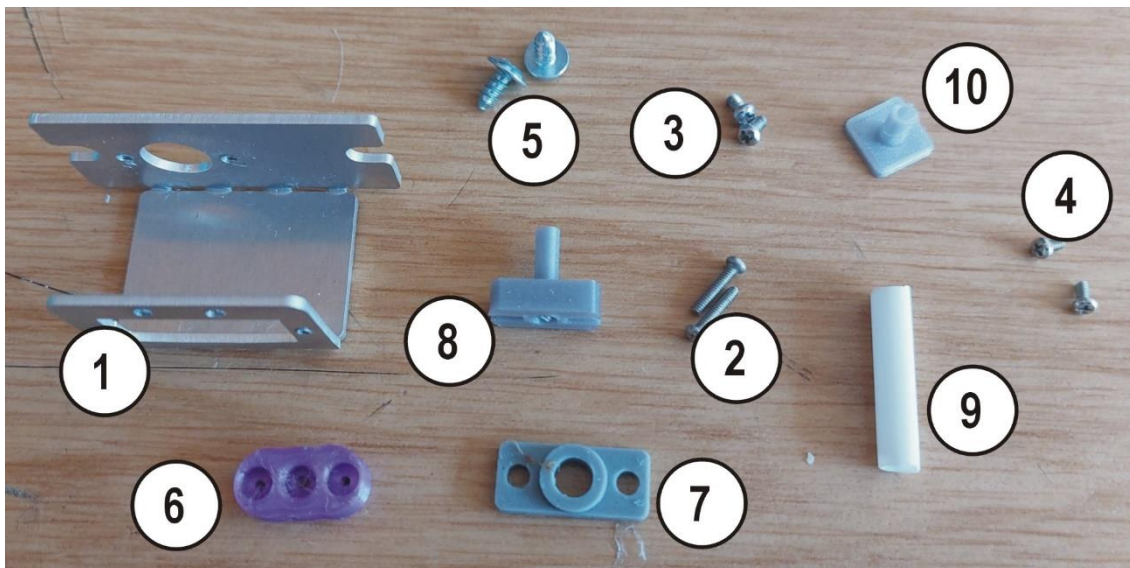
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### Parts List

No	Description	Qty
1	Main Body	1
2	M1.6 x 8 mm Pozi Pan Head Screws	2
3	M2 x 3 mm Pozi Pan Head Screws	2
4	M1.6 x 3 mm Pozi Pan Head Screws	2
5	3mm x 6mm long Flange fixing Screws.	2
6	Modified horn 3D printed "Purple"	1
7	Top Flange "Grey"	1
8	Drive Dog "Grey"	1
9	Tubes 1 x 3/16" dia	1
10	Top Cap	1

Note : The switch pack is a separate kit.



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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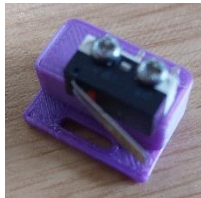
### Adding a Switch

Starting with a parts list which is an **additional kit** to add to the Mini Crossing Gate Mount or to the rotating signal kit.



Description	Qty
Switch holder	1
Switch SPDT	1
M2 x 6mm Pozi Panhead screw	1
M2 Washer	1
M2 x 8mm Pozi Panhead Screw	2

Assemble the switch to the switch holder with the 2 M2 x 8mm screws



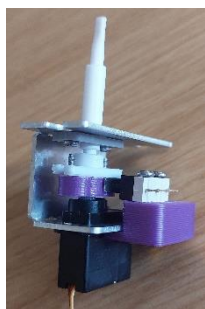
You may need to take some time to decide which way you want the switch to operate and fit the switch accordingly.

It can be mounted either way up and fitted to the mount with either of the 2 tapped holes in the mount.

This done to offer a wide range of options.

The switch holder is also slotted to allow for adjustment.

I find it useful to offer up the holder to the mount and find the best possible mounting point. Beware of having the switch positioned such that the cam comes into the switch from the open end of the lever as this could destroy your switch or your servo.



The completed switch unit can now be fitted to the mount with the M2 x 6mm screw and the M2 washer

Adjust it to suit while moving the servo slowly with the servo tester.

The switch should operate when the servo reaches the end of the travel.

Put the mount into service and do final adjustments when the mount is operated by your control board.

You can use the switch for feedback from the mount to operate ancillary equipment or provide indicator lights, signals etc.

As this is a new design, I always welcome feedback as to its effectiveness

Regards Dave