

# *Dingo Servo Mounts*



Newsletter Spring 2024



Hi, once again, fellow modellers.

It's March already and the first day of metrological Spring.

I know I say it often, but where does the time go.

I have already been to 2 shows this year and have enjoyed meeting many of you when you visited the stand.

Check out the website for dates and details of upcoming shows.

On to a bit of not so good news.

Firstly, I am now on the waiting list to have surgery to may back to hopefully solve some of the problems I am experiencing at the moment.

This could impact my attendance at upcoming shows.

Secondly, I found out last week that the company who has done all my lasercutting since I began, have gone into liquidation.

This has obviously been a bit of a shock and I am at present looking for an alternative supplier for the cutting.

However, I have quite good stocks in hand at the moment so I'm confident of having a new supplier by the time I need more metal cutting.

## **1. Updates to the Crossing Gate Mount.**

It has long been a desire to make available a switch option for the crossing gate mount.

I have now changed the mount slightly to add 2 extra tapped holes which I can then use to mount an adjustable switch to the mount.

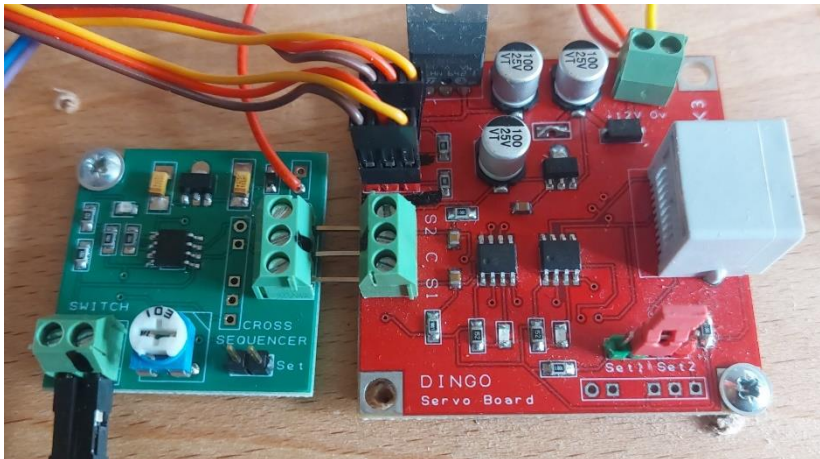
Due to the variation in boss diameter of various makes of servo, this option will only work with the HobbyKing HK15178 servo

I am hoping to have a kit for the PowerHD HD1900A servo soon but will not be doing one for the good old SG90 servos as the variation in these is ridiculous from batch to batch and from supplier to supplier. I have even had some where the supplied horns don't fit!

## 2. The Crossing Gate sequencer

These boards are now in stock and have sold a couple already

One of my customers has kindly submitted a video of the unit in action and it is available to view on the product page of board.



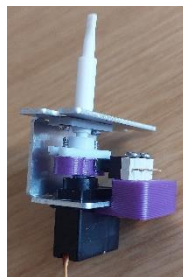
It will also work on the older MK2 servo control boards with no changes whatsoever

## 3. A New Mini Crossing Gate Mount with switch

This new Mini Crossing Gate mount using the PowerHD HD1370A (Mini) servos is now available I have given up on the new clutch idea as it made it difficult to remove the gate if needed.

I have gone back to the old tried and tested clutch as used on the standard crossing gate.

Still not sure whether to do it complete with switch or have that as an add on as per the revised standard mount.



I'm also contemplating an option for automating rotating ground signals.

Please send me your comments if you require something different as a use for this mount.

## 4. Future developments

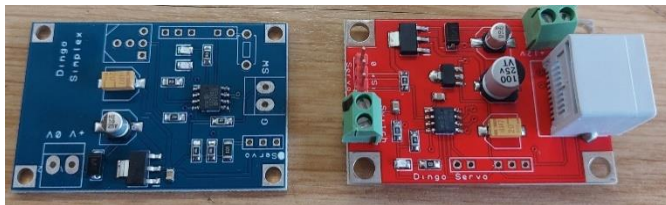
A couple of things are running around in my head at the moment.

I have been asked to design a mount for use in crossing barriers so am doing some tests at the moment.

I am also doing some work on my website and the first change is in the pricing page which I think is a lot more readable now albeit a longer table.

I am also changing some of the capacitors on my circuit boards as I now have some customers who have quite a lot of boards in circuit now.

Using the 100uF caps as I have up until now does create quite a surge at switch on so I am reducing the value of some of the caps on the smaller boards to reduce this switch on surge



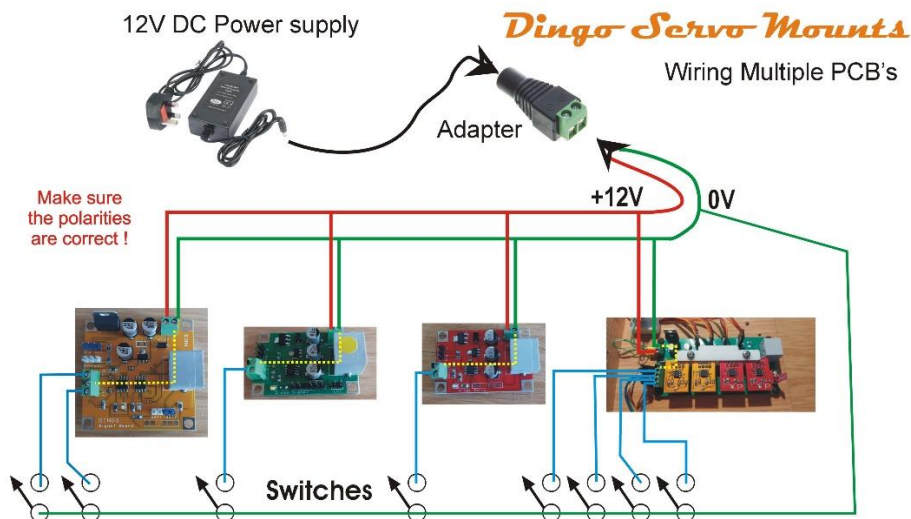
So your new boards might look a bit different to what you have been used to, but rest assured they have been properly tested and found to be completely reliable.

Talking about boards – Now that a lot of you are using multiple boards, there has been a few issues with getting switch polarity confused.

In order to make this more easily understood I have created a diagram showing the correct way of connecting switches and how you can cut down the wiring without affecting the operation.

The link is on the homepage under the heading of the new power supplies. (see wiring details here)

[www.dingoservo.co.uk](http://www.dingoservo.co.uk)



Note: It is not necessary to wire a 0V return to the boards as the "Black" marked terminals are all at 0V and are internally connected on the board (The Yellow dotted line on the diagram symbolises this internal connection and you don't have to make this externally)  
A common 0V line can be wired to all switches with just one operating wire to each PCB going into the "green terminal (not marked black)  
Make sure that you do not invert polarities on any switch wire or it will not operate properly.

With Kind Regards

Dave