

# Dingo Servo Mounts

Rotary Uncoupler Kit for magnetic couplings

## Safety Precautions.

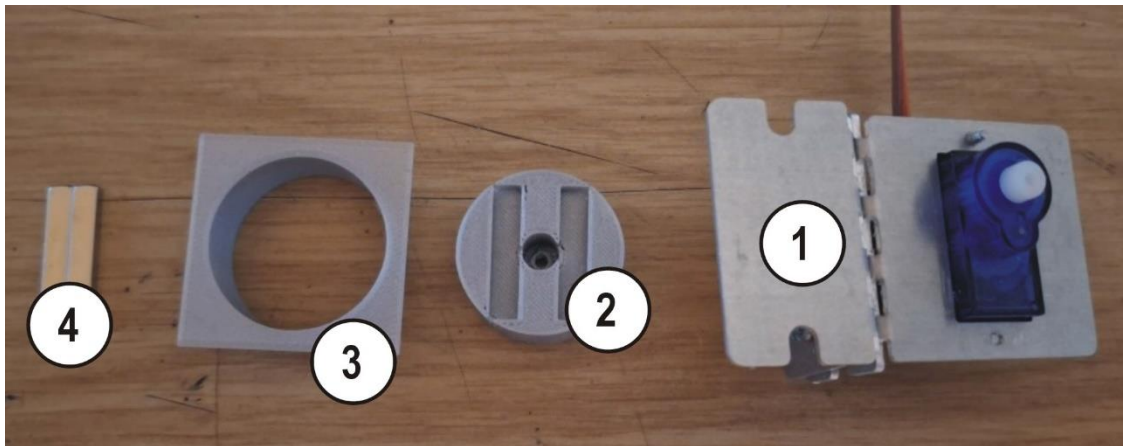
Before installing this product, make sure that you have read the full instruction guide and are comfortable with the requirements.

Make sure that all parts, especially plastic packets, are kept away from young children.

These units are not toys, but serious modelling parts.

## Description and Origin

This Uncoupler Unit is designed to rotate under the track for uncoupling magnetic couplers like Kaydee style couplers.



1	Dingo Universal Mount and servo	NOT Included
2	3D Printed Magnet holder	1
3	3D Printed sleeve	1
4	20 x 4 x 2mm Magnets	2

**Please Note:** Neodymium Magnets are hard and brittle they look like steel but have properties more like glass, if allowed to jump to steel or other magnets they will likely shatter.

They can also cause injury when they come together and trap fingers etc.

We recommend handling one at a time and sliding them carefully off of a metal surface like a biscuit tin or something similar.

Note that they can have serious impacts on mobile phones or laptops, so keep them far away from all electronic devices.

**Finally keep the magnets away from the control boards as we have had some issues where chips have been wiped by close proximity to magnets.**

**Please handle with care.**

# Dingo Servo Mounts

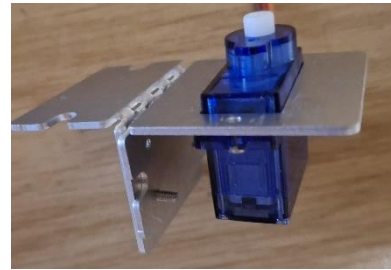
Rotary Uncoupler Kit for magnetic couplings

## Assembly

Assemble the Universal Mount as per the instructions and fit a Fitec FS90 servo to the underside of the unit.

**Note** this unit will only fit reliably onto a Fitec servo as the fixing hole is designed for this shaft

Most servos have slightly different shafts and splines.



Fit the 2 magnets into the holder making sure that they are at opposite polarities.

Then carefully remove one magnet at a time and put a few drops of contact adhesive into the slot before refitting the magnet.

Do this for both magnets,

Be careful not to let the magnets jump out and superglue themselves to each other!!

And watch out that your fingers don't get glue on as well.



Fit the magnet holder to the servo shaft making sure that you can swing the servo through 90 degrees.

Check this with a servo tester before fitting the centre screw through the hole in the top of the holder and into the servo.

(This is the screw which comes with the servo)

## Attaching to the layout

Drill a 1 1/8" hole through the centre of your track where the uncoupler will be with a hole saw.

This can be done from the underside of the layout if track is already laid, being careful to not go right through and destroy your track



Now drop the lifter assembly through the hole making sure that it is square to the track and not fouling in any way

You can fit the sleeve from the top if the track is not yet laid or from the bottom if the rack is already in place

Now carefully fit the Universal mount assembly to the bottom of the layout such that the Rotary magnet holder is central to the sleeve

Once in position tighten the mounting screws lightly check that everything moves correctly

# *Dingo Servo Mounts*

## Rotary Uncoupler Kit for magnetic couplings

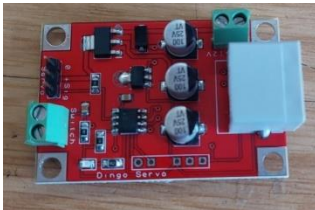
Once everything is operating correctly you can finalise the fixing screws and the final adjustment on the Universal Mount

Although the mount is designed to fit just below the ties / sleepers, you can introduce a thin card piece to allow the application of ballast to conceal the unit.

In operation when the magnets are aligned with the track uncoupling should occur  
When at right angles to the track couplings should remain connected.

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

It can also be operated by our Simplex board



I hope you have many trouble free hours operating this unit.

As this is a new product, I welcome feedback to improve the units as we move forward.

Dave Ingoldby

Mobile 07754901324

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

If you haven't already seen our amazing servo mounts in action, please check out the "Video Links" Page on our website or go to our YouTube page.