

Rotary Switch for the Ortur Laser Master 2 / 2 Pro

Installation

Disconnect your engraver's power and USB.

Remove the backing from the 3M VHB Pad and attach the motor to the side of your engraver's 'Y' axis motor. Hold in place for 30 seconds to allow the adhesive to work its magic.

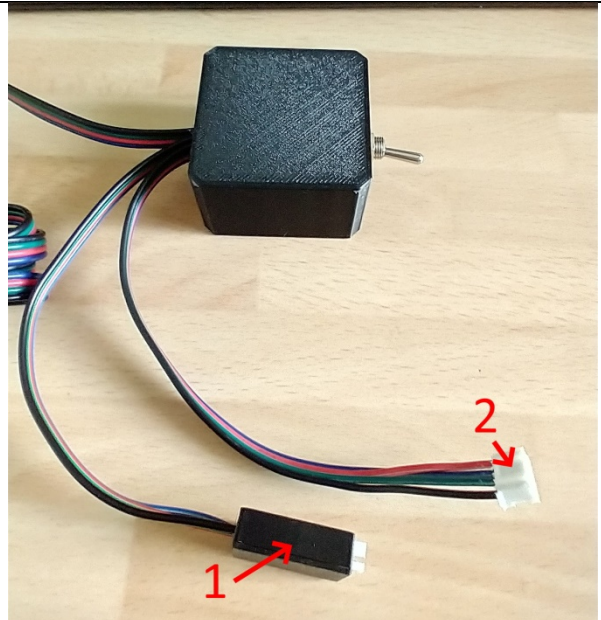
Recommend cleaning the side of the motor with an alcohol wipe prior to attaching this.

Perhaps make a note of the QR code prior to attaching the motor



If you are feeding the rotary cable through your drag chain and have purchased the 'DIY plug' switch now is the time to feed the long rotary cable through the drag chain and install the plug – see page 2.

1. Remove the plug from the 'Y' axis motor and attach it to the black plug on the short cable.
2. Connect the white plug on the short cable to the 'Y' axis motor.
3. Connect the white plug on the 1.5m cable to your rotary or the existing rotary cable.

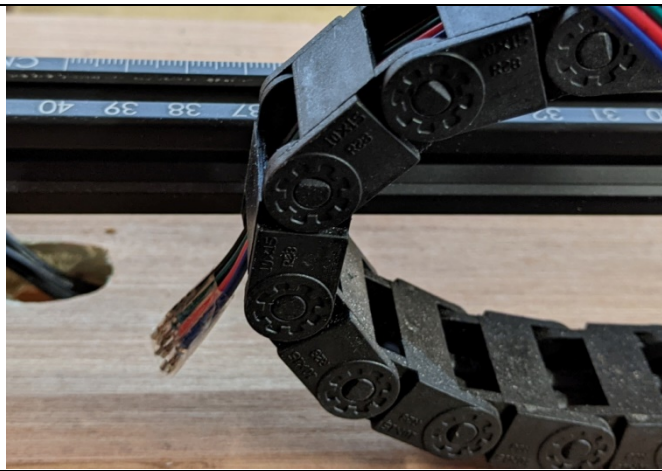


Switch between the 'Normal' engraver and the 'Rotary' with a flick of the switch. Probably best done when the engraver is powered off 😊



Fitting the plug – DIY plug edition 😊

Feed the cable through the drag chain.
Easier to feed it through if you wrap the connectors with a little tape to stop them snagging.



Find and attach your reading glasses – these crimps are tiny 😊

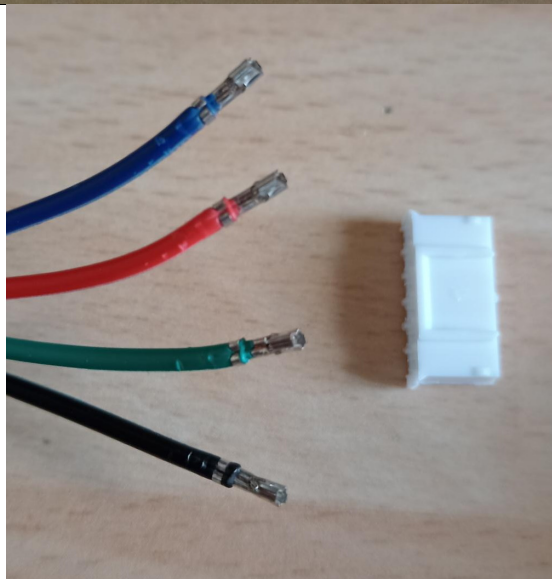
Need to be this way up.
The small barb should be at the bottom.



Align the cable and the plug as shown. Even if the wires need to be crossed.

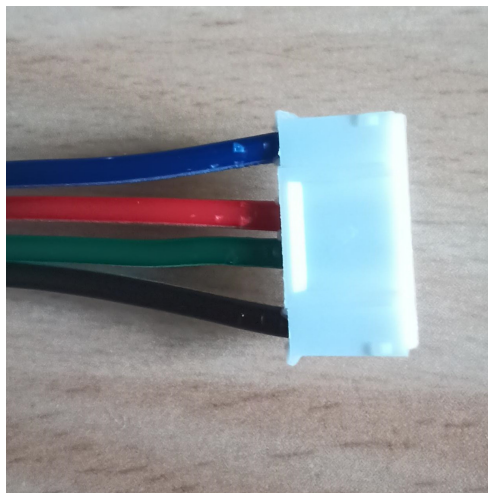
Pin 1 – Blue
Pin 2 – Empty
Pin 3 – Red
Pin 4 – Green
Pin 5 – Empty
Pin 6 – Black

Push and wiggle to insert the crimps in the plug. If inserted correctly they won't pull back out with a 'gentle' tug.



Should look like this when complete.

Any questions / issues? Please ask before connecting to your laser.

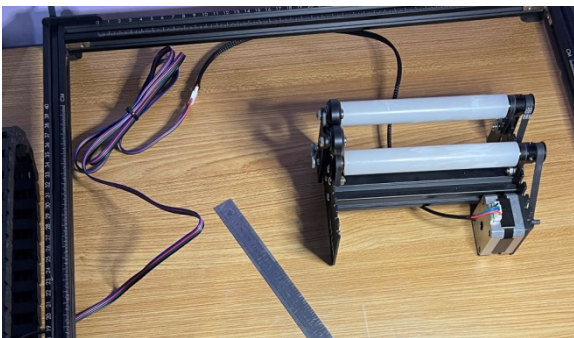
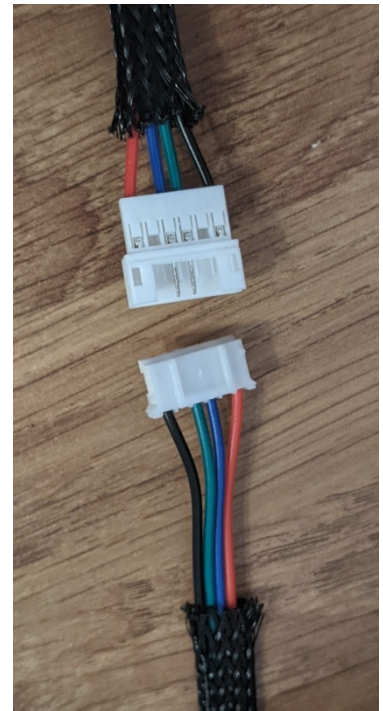


Rotation Rotation

The cables and switches I make are a straight pass through – this ensures they work with the different engraver models and don't change the signal getting through to the motor on the rotary or the engraver.

Unfortunately Ortur by their own admission have been sending out cables which have the connections reversed. No side effects from this apart from the rotation direction on the rotary will be the opposite of the intended rotation producing mirrored engravings.

This can be countered using the 'mirror output to rotary' function in LightBurn or simply rotating the engraver around by 180 degrees.



You can use the original Ortur cable to further extend the rotary cable on the switch in which case you won't need to change any settings.

If you are connecting your rotary directly to the switch cable you may need to untick the 'mirror output to rotary' setting in lightburn or rotate the rotary through 180 degrees.

Please test the direction of rotation before committing to engraving your hard work 😊

Any questions or issues please get in touch – james@jafweb.co.uk or post / message me on the FaceBook group: <https://www.facebook.com/groups/2150167618622948>