

PERIPHERAL

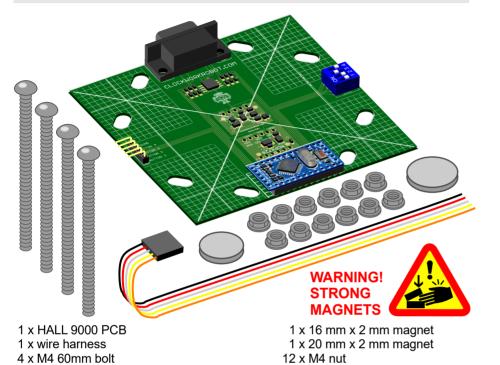
HALL JOYSTICK BOARD

VECTREX HALL JOYSTICK SETUP

power on the stick or hit the **Arduino** reset button whilst pressing all 4 buttons for 5 seconds. The stick will **ZERO** and save the offset values.



KIT PARTS



YOU ALSO NEED

You will also need

Joystick, Sanwa or clone recommended Vectrex or Sega joystick extension cable Double sided tape or glue Screwdriver and pliers or spanner



TEST ASSEMBLY

STEP 1

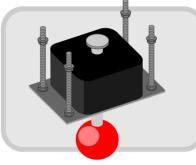
A test assembly is recommended before building the stick into a control panel and box.

Disassemble your joystick and remove the switches. Reassemble the joystick.



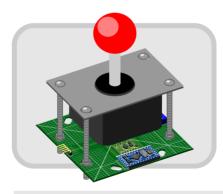
STEP 2

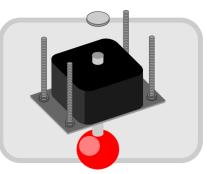
Attach the 4 bolts to the joystick with 4 of the provided nuts. If the holes on the PCB don't match those on the joystick, you can safely drill new holes in the PCB as long as they fall within the grid marks.



STEP 4

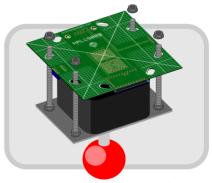
Use the rest of the bolts to mount the PCB with about a 4mm gap between the board and the magnet.





STEP 3

Attach the magnet to the base of the joystick. Use double sided tape or glue in the final build but for now just use magnetism. Make sure it is PRECISELY in the middle.



STEP 5 Attach a Joystick extension cable to the 9 pin D connector and plug the stick into Port B for **CALIBRATION**.

TROUBLE SHOOTING

Controls are reversed Flip the magnet the other way round

Signal deflects too little or too much Refer to CALIBRATION details

Signal deflection reverses as joystick moves to most extreme position Use a wider magnet or a joystick with a smaller throw

Signal revolves like a clock hand if the joystick is turned. Check your magnet isn't off centre