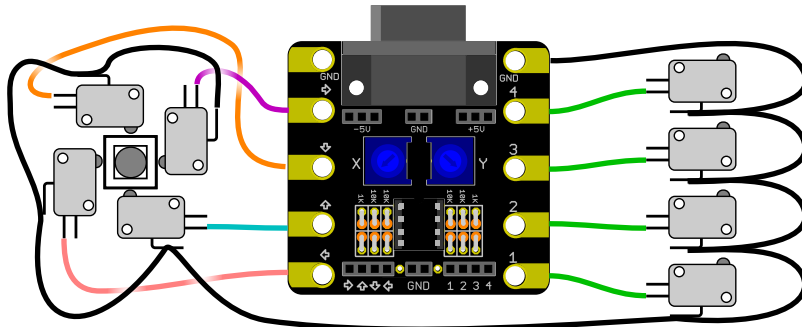


JOYSTICK HOOK-UP GUIDE

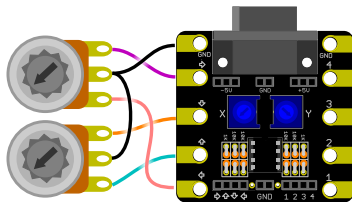
Connecting things to the JIB is very simple. The edge connectors accept crocodile clips, bannana plugs, a 2x40pin edge connector or can be soldered to directly. The board additionally contains header pin sockets with the same connections. Header pins can be plugged in here or adaptor shields can be made and plugged in.

NOTE: The first run of PCBs contain a misprint. Direction arrows are printer up side down.

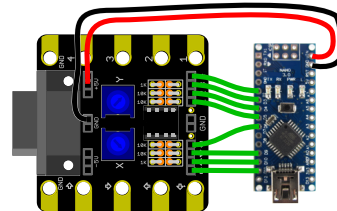
Typical Arcade Control Panel Wiring



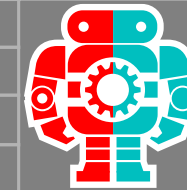
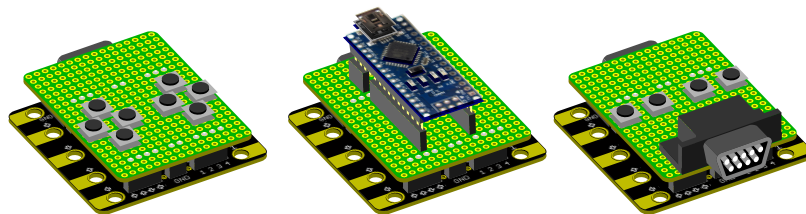
Analogue potentiometer connection



Arduino connection

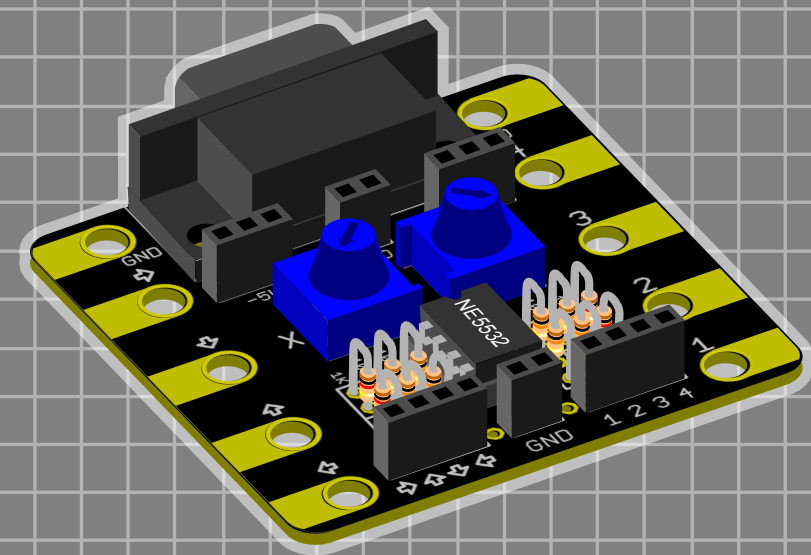


All kinds of shields can be designed to interface the Vectrex to almost anything



VECTREX

PERIPHERAL



JOYSTICK INTERFACE BOARD

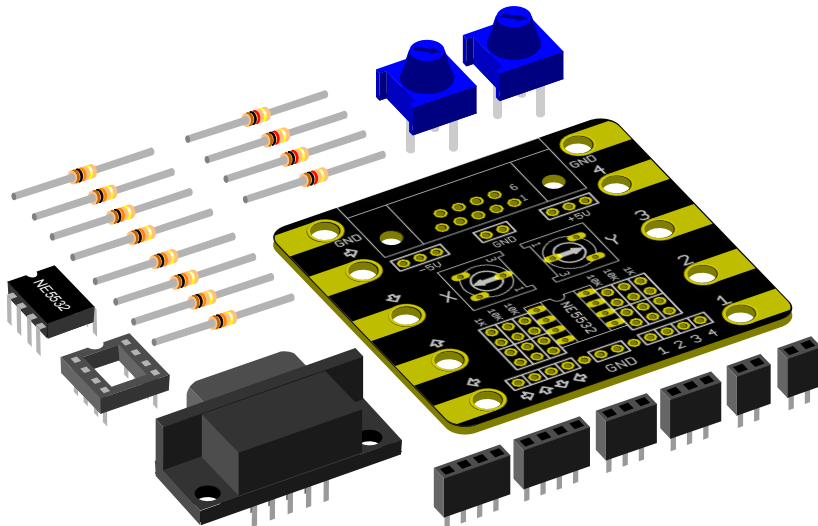


clockworkrobot.com

JOYSTICK INTERFACE BOARD

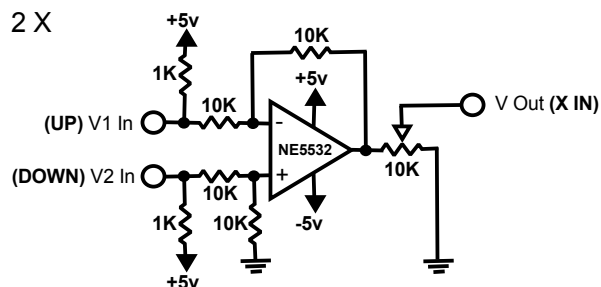
The **Joystick Interface Board** available from **CLOCKWORKROBOT.COM** aims to offer the simplest way to connect a vectrex to digital joysticks, buttons and devices using a common ground. It's ideal for connecting to arcade control panels without having to modify the panel's wiring and can even be hooked up to analogue components or digital OI pins from microcontrollers like Arduino and Raspberry Pi.

BILL OF MATERIALS



- | | |
|--|--------------------------------------|
| 8 x 10K Ohm 0.125 Watt Resistor | 4 x 1K Ohm 0.125 Watt Resistor |
| 2 x 103, 10K Ohm trim pot | 1 x NE5532 op amp or similar |
| 1 x 8 pin, 2.54mm pitch, dil socket (optional) | 2 x 2.54mm pitch 4 pin header socket |
| 2 x 2.54mm pitch 3 pin header socket | 2 x 2.54mm pitch 2 pin header socket |
| 1 x 9 pin female right angled D-sub connector | 1 x JIB Joystick Interface Board |

SCHEMATIC



The **JIB** uses 2 **Voltage Subtractor Op-amp** circuit to generate the +5v, 0 and -5v the **Vectrex** requires to read joystick direction. Simply draw the inputs to GND to move **UP DOWN LEFT RIGHT**.

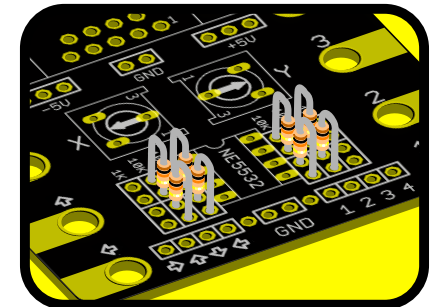
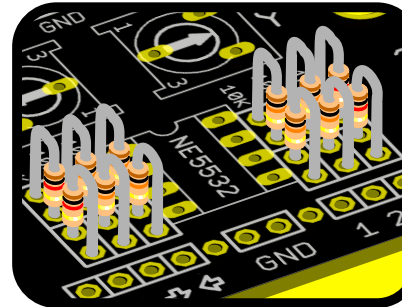
ASSEMBLY INSTRUCTIONS

You will need

A soldering iron, solder and a set of snips

STEP 1

Select the eight 10K resistors (BROWN, BLACK, ORANGE) and bend them into a U shape. Solder them to the PCB as shown

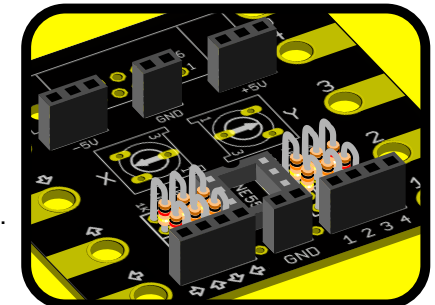
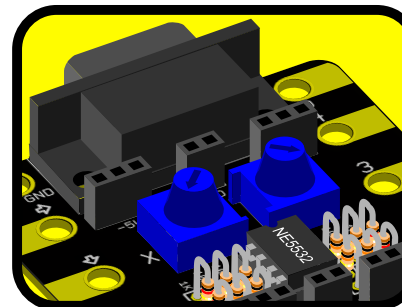


STEP 2

Select the four 1K resistors (BROWN, BLACK, RED) Bend and solder them to the PCB also

STEP 3

Solder the dil socket in place next. Be sure to observe the position of the notch. Solder the header sockets next. Tip, if you plug a strip of header into them before soldering, it will keep them straight.



STEP 4

Solder the two 10K trim pots in place and turn them to the position shown. Solder the 9 pin D-sub connector in place. Finally place the amp chip into the socket making sure the notch points in the direction of the trim pots.

CALIBRATION

Use a joystick extension cable to connect the **JIB** to the **Vectrex**.

Use **Test Cart** and select the joysticks calibration page. Connect **LEFT** to **GND** and adjust the trim pot so the ☒ appears. Repeat for **RIGHT** then **UP** and **DOWN**.

