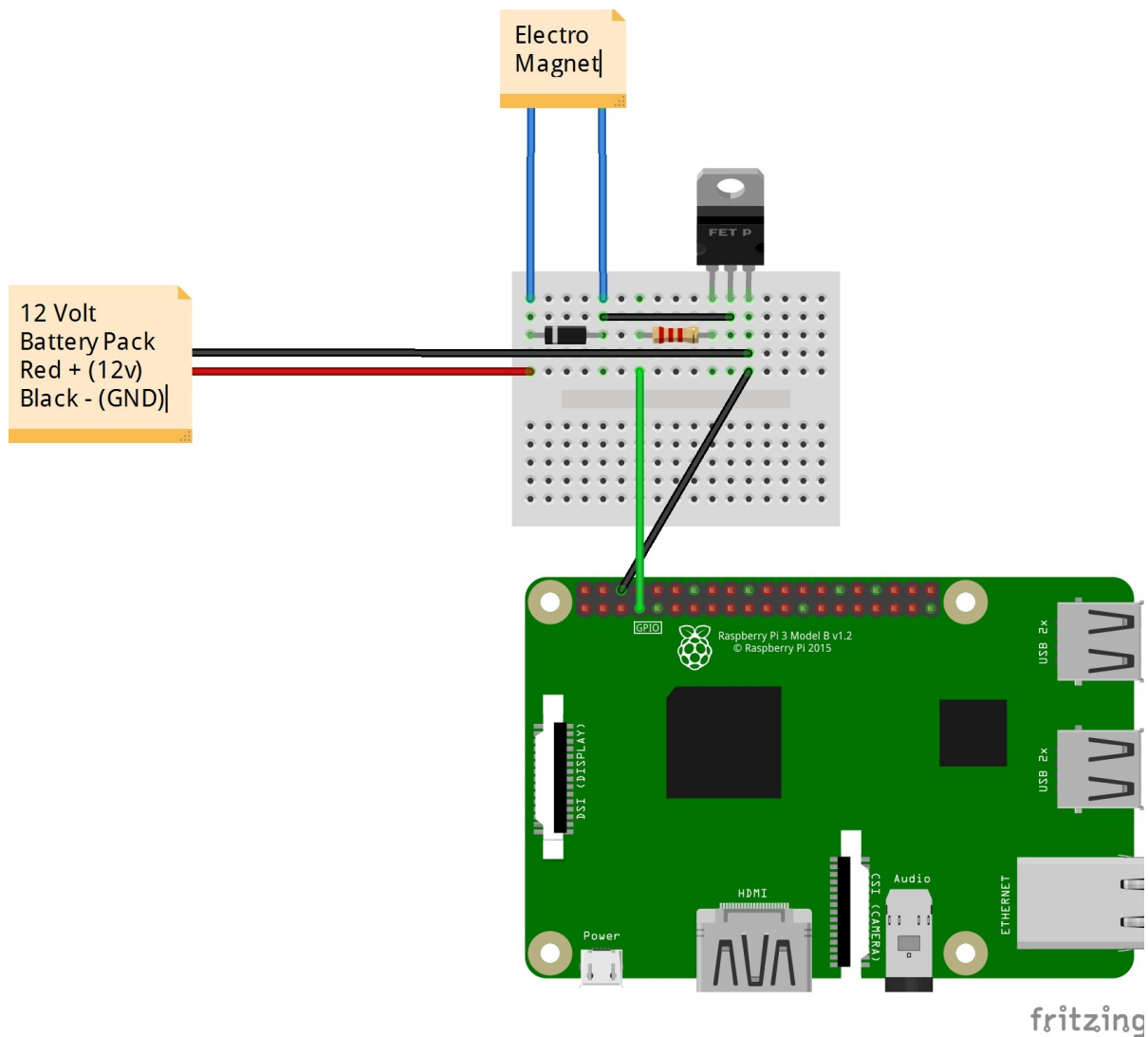


Electromagnet kit for Raspberry Pi

Connect up the parts like this:



Make sure silver band on the black zener diode is connected to 12v +, as shown above

Pull down our code with:

```
wget http://www.securipi.co.uk/magnet.zip
unzip magnet.zip
chmod a+x *.sh
sudo ./magnet-on.sh
sudo ./magnet-off.sh
```

Any Python or Scratch code that turns GPIO4 on and off will also work just fine.

If keeping the magnet turned on for long periods, make sure the metal tab on the transistor isn't getting overly hot. If it does get hot, add a proper heatsink.

The breadboard wires we sent you may differ from the colours shown above - just connect the correct points together.