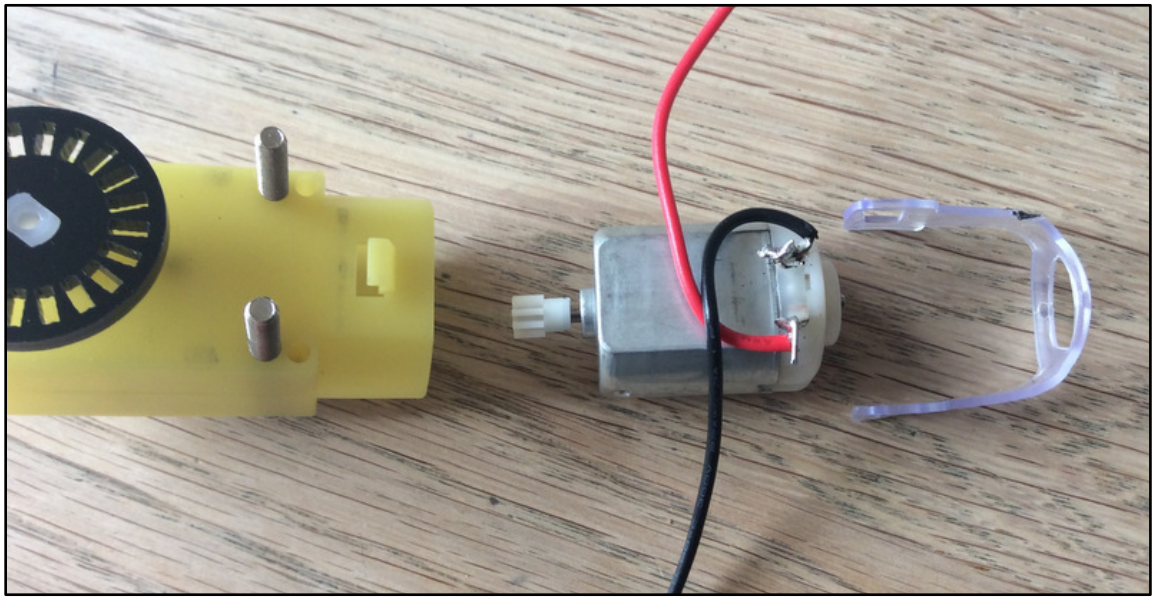
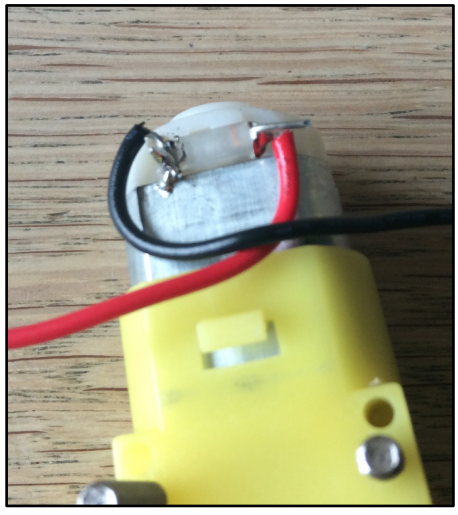
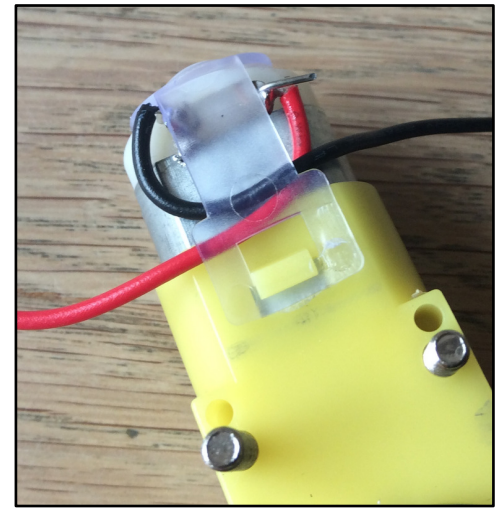
SINGLE MOTOR: SOLDERING

The standard motors used in these kits are very simple but the connectors are quite delicate. The easiest way to solder on the wires is to take off the retaining sleeve first.

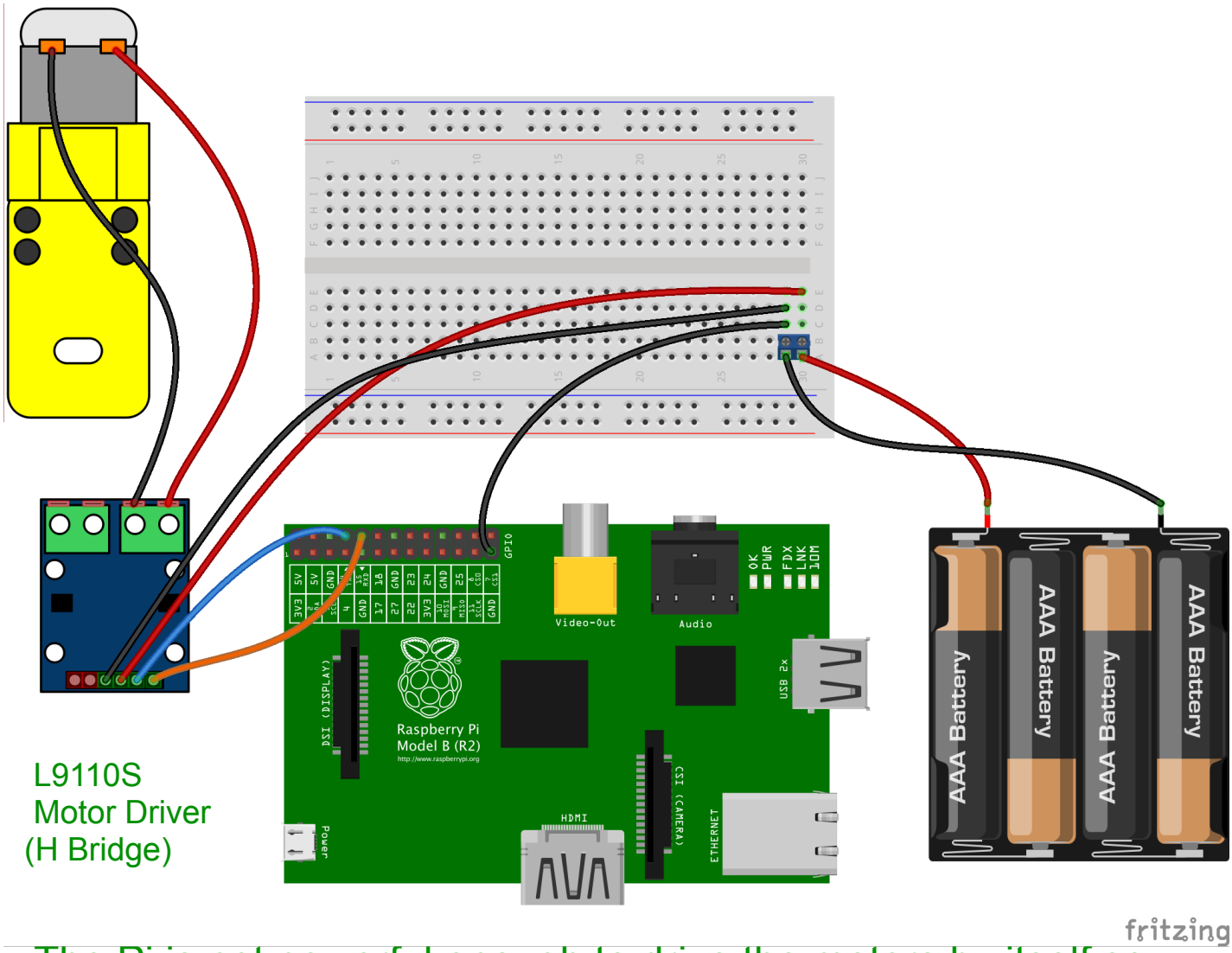


Thread the wire through the hole in the connector and solder. To reduce pulling on the connector when in use, trap the wires under the retaining sleeve when you re-assemble.





SINGLE MOTOR: CODE



The Pi is not powerful enough to drive the motors by itself so we need to use extra batteries. The L9110S H-Bridge lets us control the current flowing to the motors.

```
from gpiozero import Motor
from time import sleep

m1 = Motor(14,15) # Set which GPIO pins the motor is using

speed = 0.5 # set speed to half
m1.forward(speed) # Move forward at speed
sleep(1)
m1.stop()
speed = 1 # set speed to maxmimum
m1.backward(speed) # move backward at speed
sleep(1)
m1.stop()
```