

# Raspberry Pi GoalLight GPIO connections and setup

3.3V 1 2 5V

GPIO 2 (I2C1\_SDA) 3 4 5V

GPIO 3 (I2C1\_SCL) 5 6 6 GND

GPIO 4 (GPCLK0) 7 8 GPIO 14 (UART\_TXD)

GND 9 10 GPIO 15 (UART\_RXD)

GPIO 17 11 12 GPIO 18

GPIO 27 13 14 GND

GPIO 22 15 16 GPIO 23

3.3V 17 18 GPIO 24

GPIO 10 (SPI\_MOSI) 19 20 GND

GPIO 9 (SPI\_MISO) 21 22 GPIO 25

GPIO 11 (SPI\_SCLK) 23 24 GPIO 8 (SPI\_CE0)

GND 25 26 GPIO 7 (SPI\_CE1)

ID\_SD 27 28 ID\_SC

GPIO 5 29 30 GND


GPIO 6 31 32 GPIO 12

GPIO 13 33 34 GND

GPIO 19 35 36 GPIO 16

GPIO 26 37 38 GPIO 20

GND 39 40 GPIO 21



● Power (5 Volts)

● Power (3.3 Volts)

● Ground




● General Inputs/Outputs

● I2C Interface


● SPI Interface

● UART Interface

○ ID EEPROM Interface

\*Only 1 relay needed\*



To reduce the amount of plugs on the outside of the can, i decided to use a 12V power supply and add a car USB adapter to go from 12V to 5V for the Raspberry Pi inside of the can. I also added a 3.5mm audio jack extension to be able to make a hole on the can and glue the female side to it.

