GND GND (noisy)

Coil+

GND

+3.3V

+5V

(noisy)

SI2 --> A0

SJ3 --> A1

Coil_GND

connections

Auxilliary Power Output

PCA9685 i2c address solder jumpers

SJ4 --> A2 (see PCA9685 datasheet)

Address 0x40 if unconnected

SJ1 --> connect ~OE to GPIO25

JP4

connect GPIO17 as input

NFC

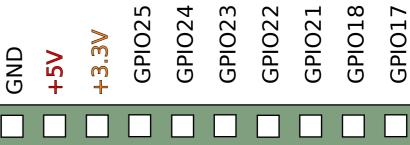
pin jumpers:

Raspberry Spy Robot PCB Quick-Reference Card

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Power Input from Regulators (NB the two +5V supplies should be separate to isolate servo noise)

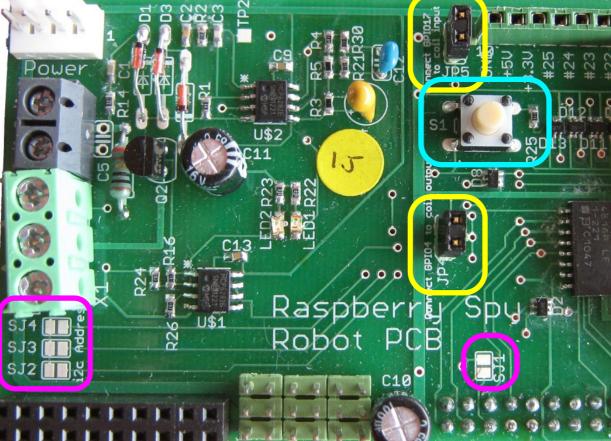
Switch S1: Pulls GPIO18 high when pressed (Set RPi internal Pull-down resistors to use)



(clean)

SDA SDA/SCL protected SCL GPIO4 GPIO7 GPIO8 All GPIO pins except protected GPIO9 **GPIO10 GPIO11** TXD / GPIO14 RXD / GPIO15

GPIO18



GND LED0 LED5 LED4 LED2 LED1 LED GPIO21 **Bump Switch Header** Signal (+3.3V): White/Yellow

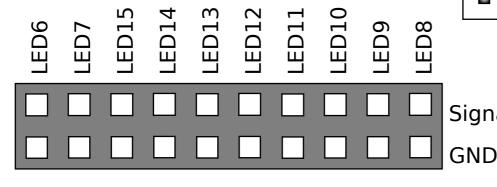
GND: Black

(510R series resistance, +5V (noisy): Red use RPi internal pull-ups)

Servo Outputs Driven by PCA9685

Signal (+3.3V)

General Purpose **PWM Outputs** from PCA9685 (LEDs, servos etc) max 25mA per pin



Raspberry Pi Header (viewed from top of board)