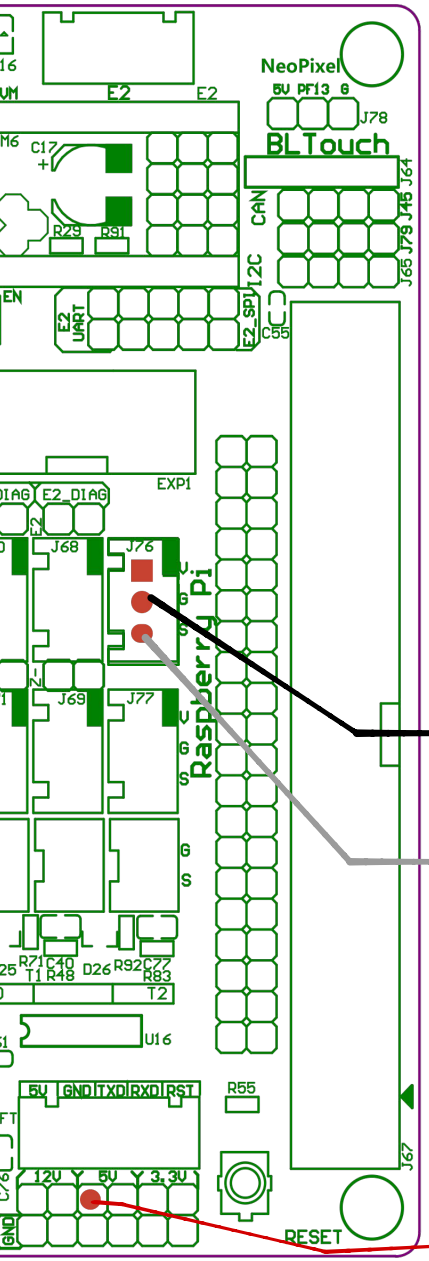
Filament Runout Sensor



UART	
X	PC14
Y	PE1
Z	PB5
E0	PG10
E1	PD4
E2	PC12

	EN	STEP	DIR
X	PF1	PC15	PF0
Y	PE4	PE3	PE2
Z	PB9	PB8	PB7
E0	PG13	PG12	PG11
E1	PD7	PD6	PD5
E2	PD2	PD1	PD0

X-CS	Y-CS	Z-CS	E0-CS	E1-CS	E2-CS
PC14	PE1	PB5	PG10	PD4	PC12
MISO	PB6				
MOSI	PG15				
SCK	PB3				

SPI

NeoPixel

5V	PF13	GND

BLTouch

GND	5V	PB11	GND	PH11

EXTENSION-0(CAN)

5V	PH13	PI9	GND

EXTENSION-1

5V	PH10	PI8	GND

EXTENSION-2(I2C)

5V	GND	PH8	PH7

PB13	PB12	PB15	RST	NC	PA15	PA8	PG7	PG5	5V
PB14	PD10	PH10	PB10	GND	PC11	PC10	PG8	PG6	GND
EXP2					EXP1				

Ground **BLACK**

StallGuard

X-DIAG1	Y-DIAG1	Z-DIAG1	E0-DIAG1	E1-DIAG1	E2-DIAG1
X-	Y-	Z-	E0	E1	E2

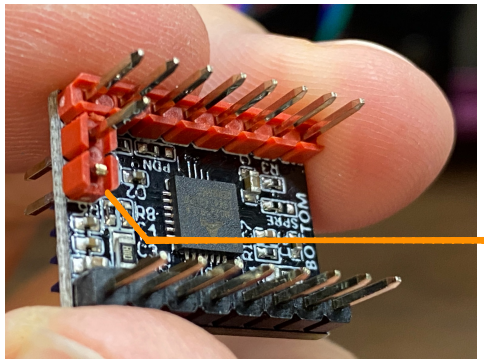
Signal **WHITE (PI11)**

E0	E1	E2	Extend-Interface-1
3.3V	3.3V	3.3V	3.3V
GND	GND	GND	GND
PG14	PG9	PD3	PI11

3.3V	3.3V	3.3V	3.3V
GND	GND	GND	GND
PF2	PC13	PE0	PH6

X-	Y-	Z-	Extend-Interface-2
GND	GND	GND	GND
PC0	PC1	PC2	PC3
BED	T0	T1	T2

5V **RED**



The filament sensor won't work with the diagnostic pin of the extruded stepper so you must cut it or use a soldering iron to heat up the pin and slide it up out of the way.