OmniBot Joystick

ARDUINO

+9V +5V

Pin			Pin	
1	TX1			
2	RX1			
5	D2	RESET	3	
6	D3	RESET	28	
7	D4			
8	D5	AREF	18	
9	D6	A0	19	VRX_R
10	D7	A1	20	VRY_R
11	D8	A2	21	VRX_L
12	D9	A3	22	VRY_L
13	D10	SDA/A4	23	
14	MOSI	SCL/A5	24	
15	MISO	A6	25	
16	SCK	A7	26	

SW_R, SW_L, BUTTON_1, BUTTON_2, BUTTON_3, CE, CSN, BUTTON_4
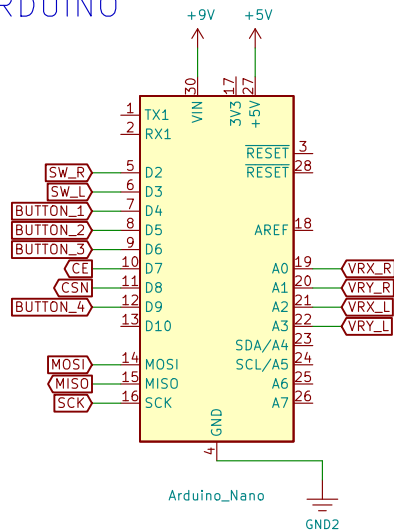MOSI, MISO, SCK

VIN 30, 3V3 17, +5V 27
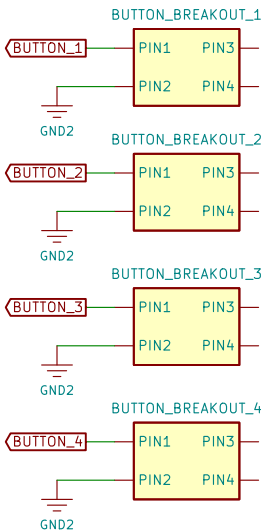GND 4

Arduino_Nano

GND2

Note: On the Arduino Nano, SCK = D13,
MOSI = D12, and MISO = D11.

JOYSTICKS

GND2 +5V

GND	
+5V	
VRX_L	VRX
VRY_L	VRY
SW_L	SW

JOYSTICK_BREAKOUT_LEFT

GND2 +5V

GND	
+5V	
VRX_R	VRX
VRY_R	VRY
SW_R	SW

JOYSTICK_BREAKOUT_LEFT

BUTTONS

BUTTON_BREAKOUT_1

BUTTON_1	PIN1	PIN3
	PIN2	PIN4

GND2

BUTTON_BREAKOUT_2

BUTTON_2	PIN1	PIN3
	PIN2	PIN4

GND2

BUTTON_BREAKOUT_3

BUTTON_3	PIN1	PIN3
	PIN2	PIN4

GND2

BUTTON_BREAKOUT_4

BUTTON_4	PIN1	PIN3
	PIN2	PIN4

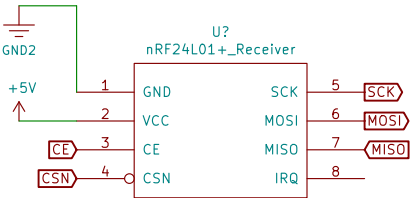GND2
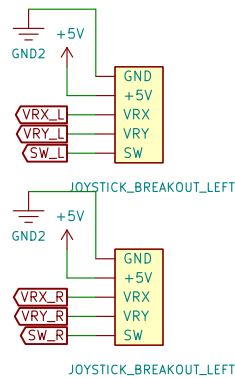
Note: Resistors not needed as Arduino has internal
pullup resistors. Also, it does not matter which set
of pins used, only matters the pins are beside
eachother.

NRF24 RADIO TRANSMITTER

GND2

+5V

U?
nRF24L01+_Receiver

1	GND	SCK	5	SCK
2	VCC	MOSI	6	MOSI
3	CE	MISO	7	MISO
4	CSN	IRQ	8	