

J5 - TMC 2209 Stepper Driver	Pin Type	In or Out?	Connection	Color	Description
0	EN		TEENSY PIN 2		
1	MS1				
2	MS2				
3	TX		TEENSY PIN 7		
4	RX		TEENSY PIN 8		
5	CLK		TEENSY PIN 5		
6	STEP		TEENSY PIN 4		
7	DIR		TEENSY PIN 3		
8	VM		SR 24 VDC		Slip Ring 24V supply
9	GND		SR GND		Will need to be connected to slip ring ground
10	M2B		Stepper		
11	M2A		Stepper		
12	M1A		Stepper		
13	M1B		Stepper		
14	VIO		3.3 V		Supplied from Teensy 4.0
15	GND		SR GND		Will need to be connected to slip ring ground
J6 - TMC 2209 Stepper Driver	Pin Type	In or Out?	Connection	Color	Description
0	EN		TEENSY PIN 9		
1	MS1				
2	MS2				
3	TX		TEENSY PIN 14		
4	RX		TEENSY PIN 15		
5	CLK		TEENSY PIN 12		
6	STEP		TEENSY PIN 11		
7	DIR		TEENSY PIN 10		
8	VM		SR 24 VDC		Slip Ring 24V supply
9	GND		SR GND		Will need to be connected to slip ring ground
10	M2B		Stepper		
11	M2A		Stepper		
12	M1A		Stepper		
13	M1B		Stepper		
14	VIO		3.3 V		Supplied from Teensy 4.0
15	GND		SR GND		Will need to be connected to slip ring ground

