

Mapping of Arduino pins to two TB9051FTG Motor Drivers

Ard pin	Function	Driver 1	Driver 2	Motor			
				1	2	3	4
13	Motor 4 Direction		M2DIR	Note 2: mod driver:8>13			
12	Motor 1 speed sense			Enc			
12	Not 'M2DIAG' (default)	Mod board 1 & 2 to disconnect & link to pin 6.					
11	Motor 3 PWM		M1PWM	Note 2: mod driver:9>11			
10	Motor 2 PWM	M2 PWM					
9	Motor 1 PWM	M1PWM					
8	Motor 2 Direction	M2DIR					
7	Motor 1 Direction	M1DIR					
6	M1 –M2-M3-M4 diag	M1DIAG	M2DIAG	Link M2DIAG-& M1DIAG (for 2 boards) on same Ard. Pin			
5	Motor 3 Direction		M1DIR	Note 2: mod driver: 7>5			
4	Motor 2 speed sense				Enc		
4	Not 'M2 enable' (default)	Mod board 1 & 2 to disconnect & link to pin 2					
3	Motor 4 PWM		M2PWM	Note 2: mod driver:10>3			
2	M1-M2-M3-M4 enable	M1EN		Link M2EN & M1-En (for 2 boards) on same Ard. Pin			
1	Reserved for serial link						
0	Reserved for serial link						
An. 0	Motor 1 current sense	M1OCM					
An. 1	Motor 2 current sense	M2OCM					
An. 2	Motor 3 current sense		M1OCM	Note 2: mod driver:0>2			
An. 3	Motor 4 current sense		M2OCM	Note 2: mod driver:1>3			
An. 4	Motor 4 speed sense						Enc
An. 5	Motor 3 speed sense				Enc		