

State #	Instantaneous Velocity						
	S1	S2	S3	S4	CW	CCW	
9	1	0	0	1	Drive CW	Drive CW	
6	0	1	1	0	Drive CCW	Drive CCW	
0	0	0	0	0	Coast	Coast	
8	1	0	0	0	Coast	Brake to VCC	
4	0	1	0	0	Brake to GND	Coast	
2	0	0	1	0	Brake to VCC	Coast	
1	0	0	0	1	Coast	Brake to GND	
5	0	1	0	1	Brake to GND	Brake to GND	
10	1	0	1	0	Brake to VCC	Brake to VCC	
12	0	0	0	0	Short Circuit	Short Circuit	
3	0	0	0	0	Short Circuit	Short Circuit	
7	0	0	0	0	Short Circuit	Short Circuit	
11	0	0	0	0	Short Circuit	Short Circuit	
13	0	0	0	0	Short Circuit	Short Circuit	
14	0	0	0	0	Short Circuit	Short Circuit	
15	0	0	0	0	Short Circuit	Short Circuit	