TB3_PIN	I/O	System	28A1 I/O board	Ribbon cable wire	Test point	Relay	HAL Pin	Connects to
1	INPUT0	Back gear LH	28X2-11	21				
2	INPUT1	Back gear RH	28X2-12	23				
3	INPUT2	Back gear Mid	28X2-13	25				
4	INPUT3	Back gear LH-Mid	28X2-14	27				
5	INPUT4	Midrange LH	28X2-15	29				
6	INPUT5	Midrange RH	28X2-16	31				
7	INPUT6	Midrange Mid	28X2-17	33				
8	INPUT7	Midrange LH-Mid	28X2-18	35				
9	INPUT8	Input stage LH	28X2-19	37				
10	INPUT9	Input Stage RH	28X2-20	2				
11	INPUT10	Input Stage Mid	28X2-21	4				
12	INPUT11	Input Stage LH-Mid	28X2-22	6				
13	INPUT12	Jog increment 1mm					gmoccapy.jog-inc-3	
14	INPUT13	Jog increment 0.1mm					gmoccapy.jog-inc-2	
15	INPUT14	Jog increment 0.01mm					gmoccapy.jog-inc-1	
16	INPUT15	Jog increment continuous					gmoccapy.jog-inc-0	
17	OUTPUT0	Select Mid Position	28X1-8	15	1	11K3		
18	OUTPUT1	Back gear	28X1-9	17		11K4		
19	OUTPUT2	Midrange	28X1-10	19	3	11K5		
20	OUTPUT3	Input Stage	28X1-11	21	4	11K6		
21	OUTPUT4	Reverse direction	28X1-12	23	5	11K7		
22	OUTPUT5	Start (Gearbox shift)	28X1-13	25	6	11K8		
23	OUTPUT6	Twitch CW	28X1-14	27	7	11K9		
24	OUTPUT7	Twitch CCW	28X1-15	29	8	11K10		
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