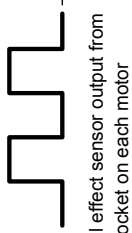
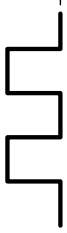


Hall effect sensor output from sprocket on each motor



Hall effect sensor output from sprocket on each motor



PWM signal from control unit, used to control the main speed of the motors



Hall effect sensor output from sprocket on each motor



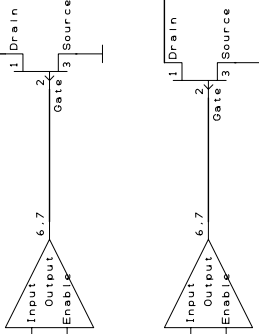
Hall effect sensor output from sprocket on each motor



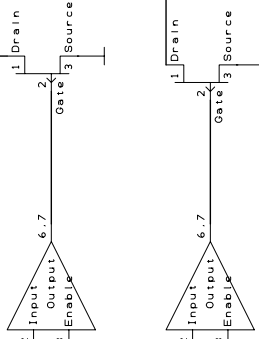
Processor measures time between leading edges of the two hall effects

1	MCLR	RC4	15
2	RA0/AN0	RC5	16
3	RA1/AN1	RC6/TX	17
4	RA2/AN2	RC7/RX	18
5	RA3/AN3	VSS	19
6	RA4	VDD	20
7	RA5/AN4	RBE/INT	21
8	VSS	RB1	22
9	OSC1	RB2	23
10	OSC2	RB3/P0M	24
11	RC0	RB4	25
12	RC1	RB5	26
13	RC2	RB6/P0C	27
14	RC3	RB7/P0D	28

Processor changes speed of one motor to get the motors timed also controls speed of both motors to match incoming PWM



Processor changes speed of one motor to get the motors timed also controls speed of both motors to match incoming PWM



Paired Motors

Paired Motors

4 .5
1 .8 VDD 1 .8 VSS

VSS VSS