

State Transition Table

Initial State		Four Input States				New State		Outputs			Index
Q1	Q0	Pump	Pressure	Fwd Flow	Panic	Q1 ₊	Q0 ₊	L	Vp	Vff	
0	0	0	0	0	0	0	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0	0	1
0	0	0	0	1	0	0	0	0	0	0	2
0	0	0	0	1	1	0	0	0	0	0	3
0	0	0	1	0	0	0	0	0	0	0	4
0	0	0	1	0	1	0	0	0	0	0	5
0	0	0	1	1	0	0	0	0	0	0	6
0	0	0	1	1	1	0	0	0	0	0	7
0	0	1	0	0	0	0	0	0	0	0	8
0	0	1	0	0	1	0	0	0	0	0	9
0	0	1	0	1	0	0	0	0	0	0	10
0	0	1	0	1	1	0	1	1	0	0	11
0	0	1	1	0	0	1	0	0	1	0	12
0	0	1	1	0	1	0	1	1	0	0	13
0	0	1	1	1	0	0	1	1	0	0	14
0	0	1	1	1	1	0	1	1	0	0	15
0	1	0	0	0	0	0	0	0	0	0	16
0	1	0	0	0	1	0	0	0	0	0	17
0	1	0	0	1	0	0	0	0	0	0	18
0	1	0	0	1	1	0	0	0	0	0	19
0	1	0	1	0	0	0	0	0	0	0	20
0	1	0	1	0	1	0	0	0	0	0	21
0	1	0	1	1	0	0	0	0	0	0	22
0	1	0	1	1	1	0	0	0	0	0	23
0	1	1	0	0	0	0	1	1	0	0	24
0	1	1	0	0	1	0	1	1	0	0	25
0	1	1	0	1	0	0	1	1	0	0	26
0	1	1	0	1	1	0	1	1	0	0	27
0	1	1	1	0	0	0	1	1	0	0	28
0	1	1	1	0	1	0	1	1	0	0	29
0	1	1	1	1	0	0	1	1	0	0	30
0	1	1	1	1	1	0	1	1	0	0	31

Initial State		Four Input States				New State		Output Conditions		
Q1	Q0	Pump	Pressure	Fwd Flow	Panic	Q1 ₊	Q0 ₊	L	Vp	Vff
1	0	0	0	0	0	0	0	0	0	0
1	0	0	0	0	1	0	0	0	0	0
1	0	0	0	1	0	0	0	0	0	0
1	0	0	0	1	1	0	0	0	0	0
1	0	0	1	0	0	0	0	0	0	0
1	0	0	1	0	1	0	0	0	0	0
1	0	0	1	1	0	0	0	0	0	0
1	0	0	1	1	1	0	0	0	0	0
1	0	1	0	0	0	0	0	0	0	0
1	0	1	0	0	1	0	1	1	0	0
1	0	1	0	1	0	0	1	1	0	0
1	0	1	0	1	1	0	1	1	0	0
1	0	1	1	0	0	1	0	0	1	0
1	0	1	1	0	1	1	0	0	1	0
1	0	1	1	1	0	1	1	0	1	1
1	0	1	1	1	1	0	1	1	0	0
1	1	0	0	0	0	0	0	0	0	0
1	1	0	0	0	1	0	0	0	0	0
1	1	0	0	1	0	0	0	0	0	0
1	1	0	0	1	1	0	0	0	0	0
1	1	0	1	0	0	0	0	0	0	0
1	1	0	1	0	1	0	0	0	0	0
1	1	0	1	1	0	0	0	0	0	0
1	1	0	1	1	1	0	0	0	0	0
1	1	1	0	0	0	0	0	0	0	0
1	1	1	0	0	1	0	1	1	0	0
1	1	1	0	1	0	0	1	1	0	0
1	1	1	0	1	1	0	1	1	0	0
1	1	1	1	0	0	1	0	0	1	0
1	1	1	1	0	1	1	0	0	1	0
1	1	1	1	1	0	1	1	0	1	1
1	1	1	1	1	1	1	0	0	1	0

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