IGVC - Dave LABView Cheat Sheet

PCB 1								
Lo Speed Digital IO								
Digital	DB 37	7 Connected to:						
Pin	Pin		1/0 ?					
0		Drive Encoder Cable Check	Input					
1		Drive Encoder B	Input					
2		Steer Encoder Cable Check	Input					
3		Steer Encoder B	Input					
4		Lidar Drive Encoder Cable Check	Input					
5		Lidar Drive Encoder B	Input					
6		Lidar Pos Encoder Cable Check	Input					
7		Lidar Pos Encoder B	Input					
COM		Ground	-					
СОМ		Ground	-					
8		Mod Btns + Blinky Cable Check	Input					
9		Mod Button 2	Input					
10		Mod Button 4	Input					
11		Extra Digital 10	1/0					
12		Extra Digital 8	1/0					
13		Extra Digital 6	1/0					
14		Extra Digital 4	1/0					
15		Extra Digital 2	1/0					
RSVD		Not Used	-					
16		Drive Encoder Index	Input					
17		Drive Encoder A	Input					
18		Steer Encoder Index	Input					
19		Steer Encoder A	Input					
20		Lidar Drive Encoder Index	Input					
21		Lidar Drive Encoder A	Input					
22	26	Lidar Pos Encoder Index	Input					
23	27	Lidar Pos Encoder A	Input					
COM	28	Ground	-					
COM	29	Ground	-					
24	30	Mod Button 1	Input					
25	31	Mod Button 3	Input					
26	32	Blinky Light	Output					
27		Extra Digital 9	1/0					
28	34	Extra Digital 7	1/0					
29		Extra Digital 5	1/0					
30		Extra Digital 3	1/0					
31		Extra Digital 1	1/0					

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PCB 2										
Lo Speed Digital IO					High Speed Digital IO					
Digital Pin	DB 37 Pin	Connected to:	1/0 ?	Digital Pin	DB 25 Pin	Connected to:	1/0 ?			
0	1	Not Connected	-	COM	1	Ground	-			
1	2	Not Connected	-	NC	2	Not Connected	-			
2	3	Drive Motor Fault	Input	СОМ	3	Ground	Input			
3	4	Not Connected	-	COM	4	Ground	-			
4	5	Not Connected	-	NC	5	Not Connected	-			
5	6	Not Connected	-	COM	6	Ground	-			
6	7	Extra Digital 10	1/0	COM	7	Ground	1/0			
7	8	Extra Digital 9	1/0	NC	8	Not Connected	1/0			
COM	9	Ground	-	COM	9	Ground	-			
COM	10	Ground	-	COM	10	Ground	-			
8	11	Extra Digital 8	1/0	NC	11	Not Connected	1/0			
9	12	Extra Digital 7	1/0	COM	12	Ground	1/0			
10	13	Extra Digital 6	1/0	COM	13	Ground	1/0			
11	14	Extra Digital 5	1/0	0	14	Not Connected	1/0			
12	15	Extra Digital 4	1/0	NC	15	Not Connected	1/0			
13	16	Extra Digital 3	1/0	1	16	Not Connected	1/0			
14	17	Extra Digital 2	1/0	2	17	Not Connected	1/0			
15	18	Extra Digital 1	1/0	NC	18	Not Connected	1/0			
RSVD	19	Not Used	-	3	19	Not Connected	-			
16	20	Lidar Data Cable Check	Input	4	20	Not Connected	Input			
17	21	Drive Motor Cable check	Input	NC	21	Not Connected	Input			
18	22	Drive Motor Inhibit	Output	5	22	Not Connected	Output			
19	23	Not Connected	-	6	23	TX	-			
20	24	Not Connected	-	NC	24	Not Connected	-			
21	25	Not Connected	-	7	25	RX	-			
22	26	Vector Nav Cable Check	Input							
23	27	Vector Nav Tare	Output		Serial Ports					
СОМ	28	Ground	-	Serial 1	1 GPS (Connected Direct)					
СОМ	29	Ground	-	Serial 2	,					
24	30	Not Connected	-		Analog Output					
25	31	Lidar Drive Cable Check	Input	Module	PCB	<u> </u>	Lab View			
26		Lidar Drive Inhibit	Output	1	1		-			
27		Lidar Drive Fault	1/0	0			A00			
28		Not Connected	1/0	2	3 Lidar Drive AO1					
29		Steer Drive Cable Check	1/0	4			AO2			
30		Steer Drive Inhibit	Output	 	•					
31		Steer Drive Fault	Input							