



Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal	Pin	Color	Signal
1	GRN	24VDC +	1	GRN	24VDC +	1	ORG	TSV HV	1	PNK	Throttle 5V	1	WHT	Brake Light	1	YEL	CAN H	1	YEL	CAN H
2	BLK	LV RTN	2	BLK	LV RTN	2	BLK	LV RTN	2	BLK	Throttle	2	BLK	Brake Light RTN	2	GRN	CAN L	2	GRN	CAN L
1	GRN	5VDC +	1	GRN	5VDC +	1	ORG	TSV HV	3	BLU	Throttle RTN	3	WHT	TSAL Left	3	BARE	SHIELD	3	BARE	SHIELD
2	BLK	LV RTN	2	BLK	LV RTN	2	BLK	LV RTN	4	ORG	FWD Signal	4	BLK	TSAL Left RTN	4	GRN	CHGND	4	GRN	CH
3	WHT	CHGND	3	WHT	CHGND	3	WHT	CHGND	5	WHT	FWD Signal	5	WHT	SPARE	5	WHT	24VDC	5	WHT	24VDC
1	GRN	BRBLS	1	GRN	BRBLS	1	ORG	TSV HV	6	BLK	KSI	6	BLK	SPARE	6	BLK	24V RTN	6	BLK	24V RTN
2	BLK	BRBLS RTN	2	BLK	BRBLS RTN	2	BLK	BRBLS RTN	7	WHT	GIGAVAC Coil	7	WHT	RTDS						
1	WHT	SL1	1	WHT	SL1	1	ORG	TSV HV	8	GRN	GIGAVAC Coil Return	8	BLK	RTDS RTN						
2	BRN	SL2	2	BRN	SL2	2	BLK	ENB	9	WHT/BLK	I/O Gnd									
3	RED	AIRs+	3	RED	AIRs+	3	GRN	ENB	10	BRN	+12V									
4	BLK	AIRs-	4	BLK	AIRs-	4	WHT	RTN	11	YEL	CAN H									
1	Jumper wire	between pins 1&2	2	WHT	RTN	2	WHT	RTN	12	GRN	CAN L									
3	AIRs+		2	WHT	RTN	2	WHT	RTN	1	RED	5V +									
4	AIRs-		2	WHT	RTN	2	WHT	RTN	2	BLK	GND									
1	ORG	TSV HV	1	ORG	TSV HV	1	ORG	TSV HV	3	GRN	Encoder B									
			1	ORG	TSV HV	1	ORG	TSV HV	4	WHT	Encoder A									
			1	ORG	TSV HV	1	ORG	TSV HV	5	BLU	GND									
			1	ORG	TSV HV	1	ORG	TSV HV	6	BRN	Motor Temp.									
			1	ORG	TSV HV	1	ORG	TSV HV	7	WHT/BLK	CPR RTN									
			1	ORG	TSV HV	1	ORG	TSV HV	8	GRN	CPR									
			1	ORG	TSV HV	1	ORG	TSV HV	9	WHT/BLK	GLV Present LED									
			1	ORG	TSV HV	1	ORG	TSV HV	10	ORG/BLK	SL LED									
			1	ORG	TSV HV	1	ORG	TSV HV	11	BLU/BLK	AIRs LED									
			1	ORG	TSV HV	1	ORG	TSV HV	12	BLK/WHT	GLV RTN									
			1	ORG	TSV HV	1	ORG	TSV HV	1	PNK	Select button									
			1	ORG	TSV HV	1	ORG	TSV HV	2	BLK	Scroll button									
			1	ORG	TSV HV	1	ORG	TSV HV	3	BLU	Cruise button									
			1	ORG	TSV HV	1	ORG	TSV HV	4	ORG	CRUISE									
			1	ORG	TSV HV	1	ORG	TSV HV	5	WHT	Drive LED									
			1	ORG	TSV HV	1	ORG	TSV HV	6	GRN	HV Present LED									
			1	ORG	TSV HV	1	ORG	TSV HV	7	PNK/BLK	Cruise LED									
			1	ORG	TSV HV	1	ORG	TSV HV	8	WHT/BLK	HVPL_RTN									
			1	ORG	TSV HV	1	ORG	TSV HV	1	WHT	LV GND									
			1	ORG	TSV HV	1	ORG	TSV HV	2	BLK	SSOK									

Items for Dyno only

EDITED BY <b>Waseh Ahmad</b>		<b>LAFAYETTE</b> Lafayette College Easton, Pa ECE Department	
DRAWN BY <b>Greg Flynn</b>			
APPROVED BY ECE		TITLE <b>LFEV CAR ELECTRICAL SYSTEM DIAGRAM</b>	
APPROVED BY ME		ASSIGNMENT <b>SENIOR DESIGN II</b>	
DATE <b>2018 - 04 - 26</b>		SIZE <b>F</b>	REV <b>2.0</b>
		DWG NO <b>TOP LEVEL</b>	SHEET <b>1 OF 1</b>
		COURSE <b>TOP LEVEL</b>	