ELECTRICAL LOAD ANALYSIS

N205EN **RV-10** Updated: 10/4/2006 8/30/2006

No.		ITEM	Fuse Size	Wire Size	Emerg Load	Max Emer Load	Intermit Load	Continuous Load	Night Flight	Take Off/Landing	IFR	Night Landing	Source
	B	DVD/MP3 Entertainment (keep alive)	1A Fuse		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	Est
	B	Dome Light				0.83	0.83						
	B	Lightspeed Ignition	5A Fuse		1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	TIM
	B	Starter Relay	-		0.00	0.00	5.60	0.00	0.00	0.00	0.00	0.00	MFG
	E	Chelton Pinpoint AHRS	*2A Fuse*		0.14	0.14	0.14	0.14	0.14	0.14	0.14	0.14	MFG
	E	Chelton GPS Freeflight 1201	*2A Fuse*		0.50	0.50	0.50	0.58	0.58	0.58	0.58	0.58	MFG
	E	Chelton 1 - PFD	5A Breaker		4.00	4.00	4.00	*4.00*	4.00	4.00	4.00	4.00	MFG
	E	Garmin SL-30 - NAV 1	2A Fuse		0.50	0.50	0.50	0.50	0.50	0.50	0.50	0.50	MFG
	E	Garmin GTX-327 Transponder	5A Fuse		1.60	2.25	2.25	1.60	1.60	1.60	1.60	1.60	MFG
	E	Garmin SL-30 - COM 1	5A Fuse		1.00	3.20	3.20	1.00	1.00	1.00	1.00	1.00	MFG
	E	Digiflight II VSGV Autopilot	7.5A Breaker		0.50	4.50	4.50	0.50	0.50	0.50	0.50	0.50	MFG
	E	Ack A30.8 Encoder	1A Fuse		0.42	0.42	0.42	0.42	0.42	0.42	0.42	0.42	TIM
	E	Aileron Trim Motors	1A Breaker		0.00	0.60	0.60	0.00	0.00	0.00	0.00	0.00	MFG
	E	Elevator Trim Motors	1A Breaker		0.00	0.60	0.60	0.00	0.00	0.00	0.00	0.00	MFG
	E	AI Mid Continent 4200	5A Fuse		0.51	0.51	1.40	0.51	0.51	0.51	0.51	0.51	MFG
	E	HID Landing Light	3A Fuse		0.00	3.00	3.00	0.00	0.00	3.00	0.00	3.00	MFG
	E	Overhead Lights	5A Fuse		0.00	0.33	0.33	0.33	0.33	0.33	0.33	0.33	Product Lable
	E	Panel Lighting EL Strip	2A Fuse			0.50	0.50		0.00	0.00	0.00	0.00	
	E	Instrument Lights	Fuse						0.00	0.00	0.00	0.00	
	E	Lighted Switches	Fuse						0.00	0.00	0.00	0.00	
	E	E-Buss Contactor (S704-1)			0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	Mfg
	M	CDI	1A Fuse				0.10	0.10	0.10	0.10	0.10	0.10	TIM
	M	Avionics Fan	2A Fuse				*0.50*	*0.50*	0.50	0.50	0.50	0.50	TIM
	M	Garmin SL-30 - NAV 2	2A Fuse				0.50	0.50	0.50	0.50	0.50	0.50	TIM
	M	AFS2500 Engine Monitor	5A Fuse				1.00	1.00	1.00	1.00	1.00	1.00	MFG
	M	Battery Contactor					1.00	1.00	1.00	1.00	1.00	1.00	Mfg
	M	Main Alternator Field	5A Breaker				*1.00*	*1.00*	1.00	1.00	1.00	1.00	Mfg
	M	Main Alternator OV Light	2A Fuse				*1.00*	*0.00*	0.00	0.00	0.00	0.00	Mfg
	M	PMA8000 Audio Panel	5A Breaker				*2.50*	*2.50*	2.50	2.50	2.50	2.50	MFG
	M	Flap Motor	5A Breaker				3.00	0.00	0.00	3.00	0.00	3.00	Vans
	M	Garmin SL-30 - COM2	5A Fuse				3.20	2.00	2.00	2.00	2.00	2.00	TIM
	M	Chelton 2 - MFD	5A Breaker				4.00	4.00	4.00	4.00	4.00	4.00	MFG
	M	Navigation Lights A650	5A Fuse				4.00	0.00	4.00	0.00	0.00	0.00	MFG
	M	Airflow Performance Fuel Pump	7.5A Fuse				5.00	0.00	0.00	5.00	0.00	5.00	Vans
	M	Strobe Lights Creativair EX-AVI-PAK	7.5A Fuse				5.50	5.50	5.50	5.50	5.50	5.50	MFG
	M	Pitot Heat Gretz	15A Fuse				8.00	0.00	0.00	0.00	8.00	0.00	MFG
	M	Wing Tip Lights	15A Fuse				12.50		0.00	12.50	0.00	12.50	
	M	Door Open Indicator	*Fuse*						0.00	0.00	0.00	0.00	
	M	ELT AK-450	Fuse						0.00	0.00	0.00	0.00	
	M	Stall Warning	Fuse						0.00	0.00	0.00	0.00	
	M	WSI Weather Module	3A Fuse						0.00	0.00	0.00	0.00	
	Mx	CO Monitor AERO-252F	2A Fuse				0.08	0.08	0.08	0.08	0.08	0.08	
	Mx	DVD/MP3 Entertainment	5A Fuse				2.67	0.00	0.00	0.00	0.00	0.00	Product Lable
	Mx	Defroster fans	Fuse						0.00	0.00	0.00	0.00	
	Mx	Tunnel Fan	Fuse										
				Total:	10.77	23.49	85.52	29.37	33.37	52.87	37.37	52.87	

Alternator is 60 Amps X .80 = 48 Amps max continuous recommended electrical load.
The Night Flight continuous electrical load does not exceed the recommended continuous rating.
Battery capacity is 35 Amp/Hrs.
Based on Tim Olson,Vern Little, & George McNutt's format