Vertical Power Load Planning Worksheet

VP-X PRO Victor Kruis

ver. 2.4		Pin Name	Max Amps	Actual Amps	Circuit Breaker	Switch	Current Fault	AWG	on install drawing	Notes
J8	**Power**									
1	5A-1 output (Bank A)	SL40	5	2,7	5	1		20		
2	10A-1 output (A)	A/P	10	2,5	5	8		18	pag 12	see digiflight manual
3	5A-2 output (A)	BOOST A	5	2,0	5	6	Y	20		
4	5A-3 output (A)	FAN	5	0,3	2		Y	20		always on
5	5A-4 output (A)	PMA5000	5	1,5	5	1		18		
6	5A-5 output (Bank B)	EFIS 2	5	2,5	3	1		20	pag 49	main power EFIS 2
7	5A-6 output (B)	EF 1 B/U	5	2,5	3	1		20	pag 49	backup power EFIS 1
8	5A-7 output (B)	ALT B/U	5		2	10		20		SD8
J10	**Power**									
1	**Starter Output** (Bank A or B)	**ENGINE START**	10	4	10	START		18	v	wire to starter switch, then 's' terminal on starter contactor
2	5A-8 output (B)	GTX328	5	2.5	5	1		20		
3	10A-2 output (B)	ARINC	10	0.25	1	1		18		
4	5A-9 output (B)	CABIN LT	5	0.3	2		Y	20		add inline switch
5	10A-3 output (B)	AUX 12V	10		10			18		cigarette lighter, always on
6	15A-1 output (B)	STROBE LT	15	7	10	2	Y	18		
7	5A-10 output (B)	BOOST B	5	2	5	6	Y	20		
8	5A-11 output (B)	LIGHTSPD	5	2	5	LGHTSPD	Y	20		
9	**To GND block**							18		Wire to main ground block
10	5A-12 output (B)	STALL	5	0.2	2		Y	20		Stall warning, nog in tekening verwerken!
J12	**Power**									
1	10A-4 output (Bank A)	LAND LT	10	5.2	10	4	Y	18		
2	15A-2 output (A)	SEAT L	15	10	10	7	Y	18		remove inline fuse
3	10A-5 output (A)	SEAT R	10	10	10	7	Y	18		remove inline fuse
4	**To GND block**							18		Wire to main ground block
5	**Flap motor** (B)	**FLAPS1**	10		**5**	**flaps**	**Y**	18		Connect both wires to flap motor
6	**Flap motor** (B)	**FLAPS2**			**5**	**flaps**	**Y**	18		Connect both wires to flap motor
7	10A-6 output (A)	NAV LT	10	5.3	7,5	3	Y	18		
8	5A-13 output (A)	EF 2 B/U	5	2.5	3	1		20		backup power EFIS 2
9	**EFIS power output** (A)	EFIS1	5	2.5	3	1		20		main power efis 1
10	3A-1 output (A)	ZAON	3			1		20		To be installed in future, incl plug disconnect.
11	**Alternator Field** (A)	Alt Main	5			9		20		
12	15A-3 output (A)		15					14		
J1	**25-Pin D-sub Top Male**							Wire		
1	2A-1 output (Bank A)		2					22		
2	2A-2 output (A)		2					22		
3	Roll Trim: +2.5v		NOT INSTALLED					Wht/Blu		For trim position
4	Roll Trim: gnd		NOT INSTALLED					Wht/Or		For trim position
5	Roll Trim: pos input		NOT INSTALLED					Wht/Grn		For trim position
6	Roll Trim: motor power (A)		NOT INSTALLED					Wht		Trim motor power
7	Roll Trim: motor power (A)		NOT INSTALLED					Wht		Trim motor power
8	Pitch Trim: +2.5v	PI 2.5						Wht/Blu		For trim position
9	Pitch Trim: gnd	PI GND						Wht/Or		For trim position
10	Pitch Trim: pos input	PI POS						Wht/Grn		For trim position
11	Pitch Trim: motor pwr (A and	PI PWR1						Wht		Trim motor power
12	Pitch Trim: motor pwr (A and	PI PWR2						Wht		Trim motor power
17	Flap pos input	FP INP						Wht		For flap position (w/g)
18	Flap pos gnd	FP GND						Wht/Or		For flap position (w/o)
19	Flap pos +2.5v	FP 2.5						Wht/Blu		For flap position (w/b)
20	Serial TX	SER TX						22		Wire to EFIS receive (naar EFIS links pin 22)
21	Serial GND	SER GND						22		Wire to EFIS serial gnd (naar EFIS links pin 9)
22	Serial RX	SER RX						22		Wire to EFIS transmit (naar EFIS links pin 10)
J2	**25-Pin D-sub Bottom Female**									
1	External Switch Input 1		AVIONICS					22		
2	External Switch Input 2		STROBE LT					22		
3	External Switch Input 3		NAV LT					22		
4	External Switch Input 4		LAND LT					22		
5	External Switch Input 5		LIGHTSPD IGN					22		
6	External Switch Input 6		BOOST					22		
7	External Switch Input 7		SEATS					22		
8	External Switch Input 8		A/P					22		
9	External Switch Input 9		ALT MAIN					22		combine into ON/OFF/ON alternator switch
10	External Switch Input 10		ALT BU					22		combine into ON/OFF/ON alternator switch
11	Starter annunciator input							22	vs	Added inline resistor
12	Aux battery voltage input							22		not used
14	Flap Up switch input	FLAP UP						22		Wire to Flap Up switch
15	Flap Down switch input	FLAP DWN	NOT INSTALLED					22		Wire to Flap Dn switch
16	Roll Left switch input		NOT INSTALLED					22		Wire to Roll L Trim switch
17	Roll Right switch input							22		Wire to Roll R Trim switch
18	Pitch Up switch Input							22		Wire to Pitch Up Trim switch
19	Pitch Dn switch Input							22		Wire to Pitch Dn Trim switch