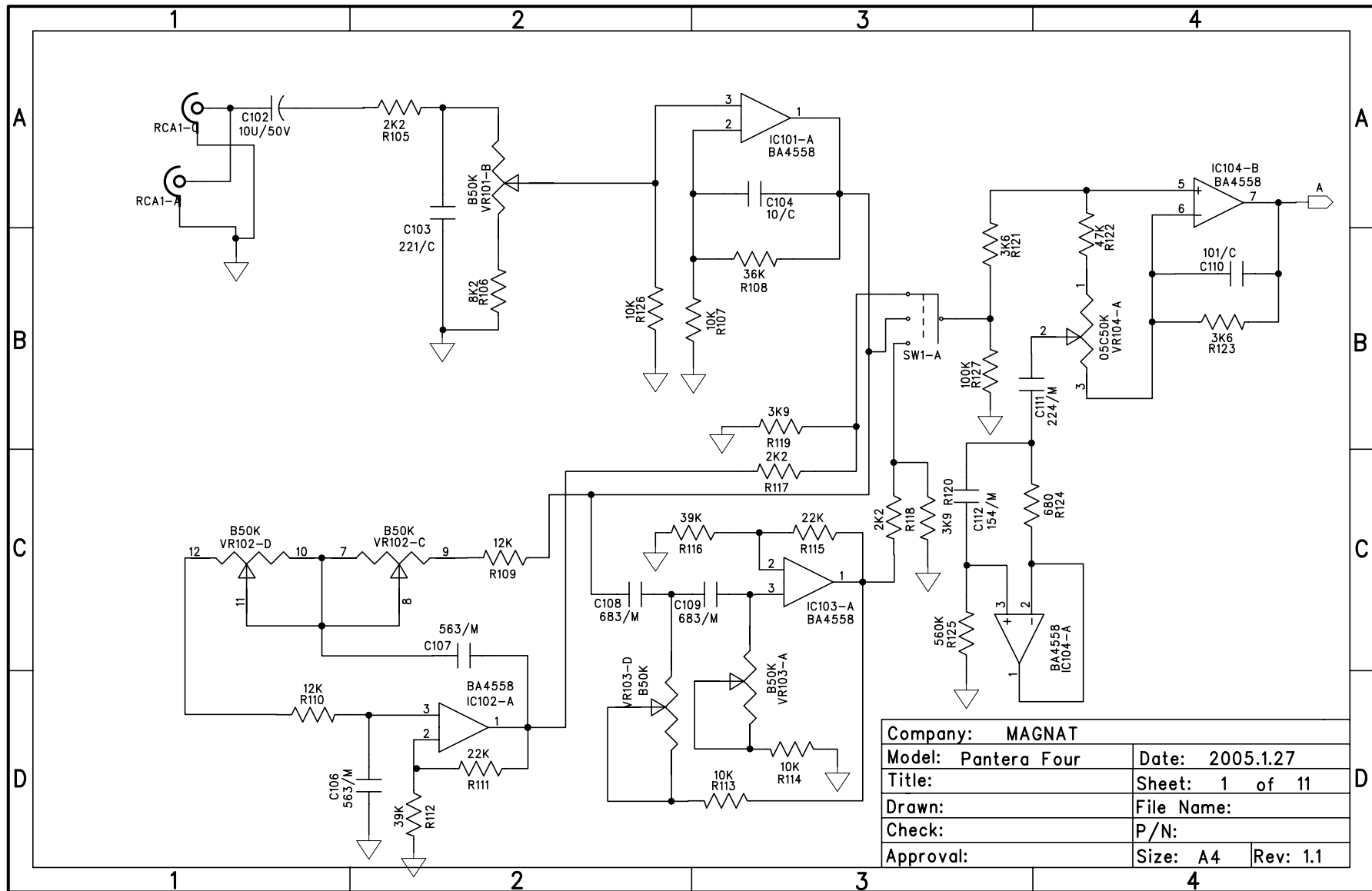
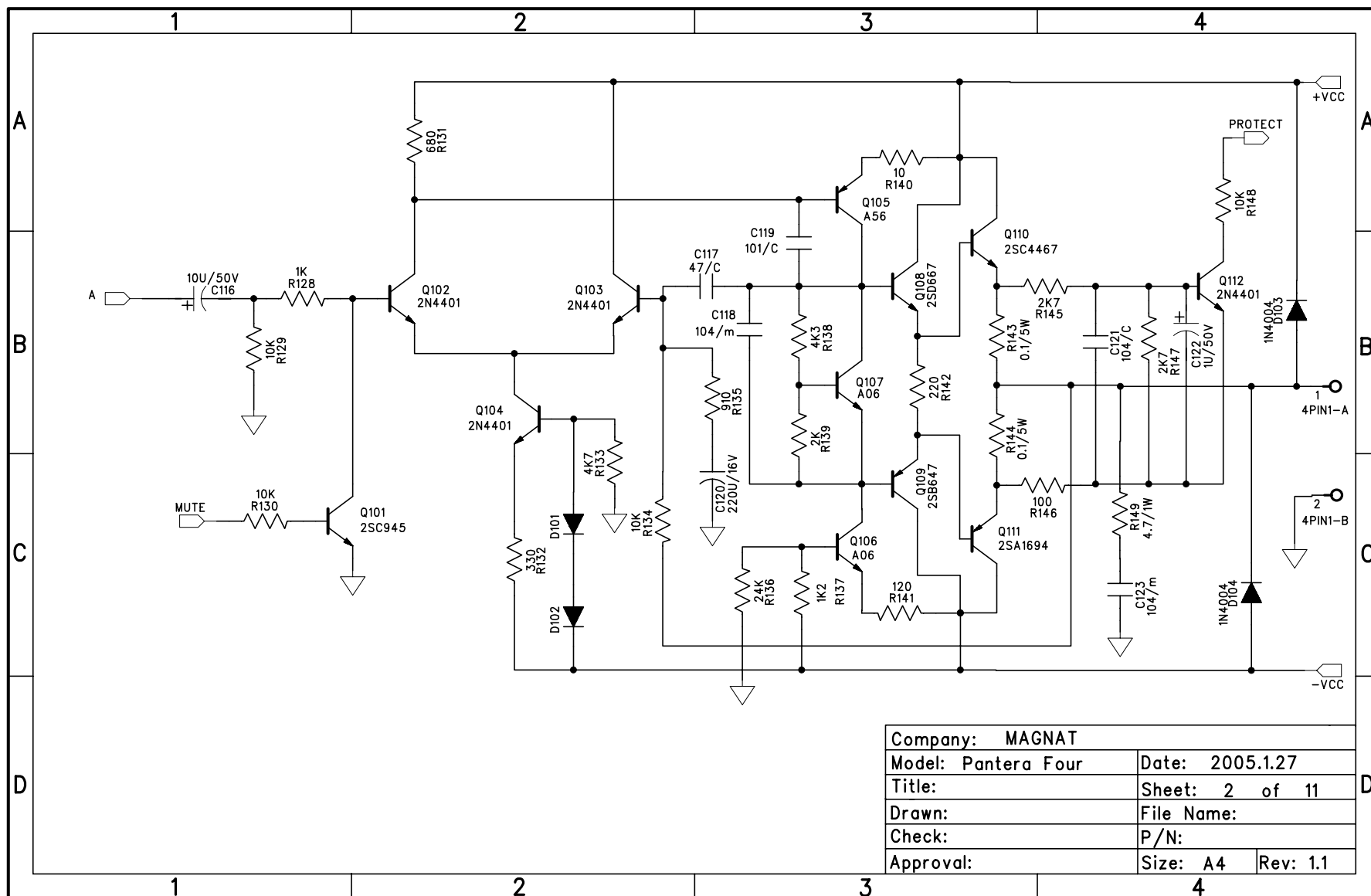
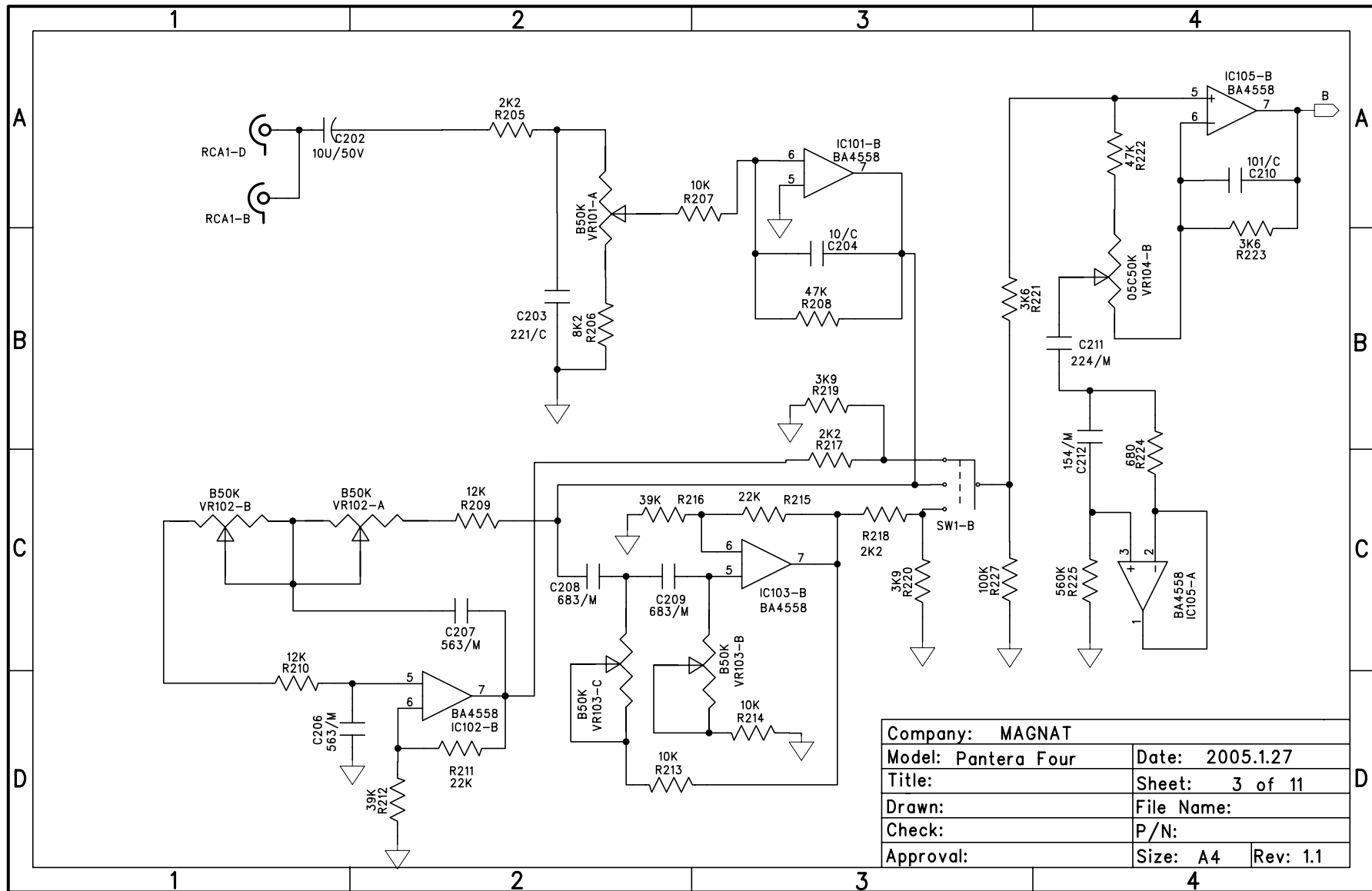


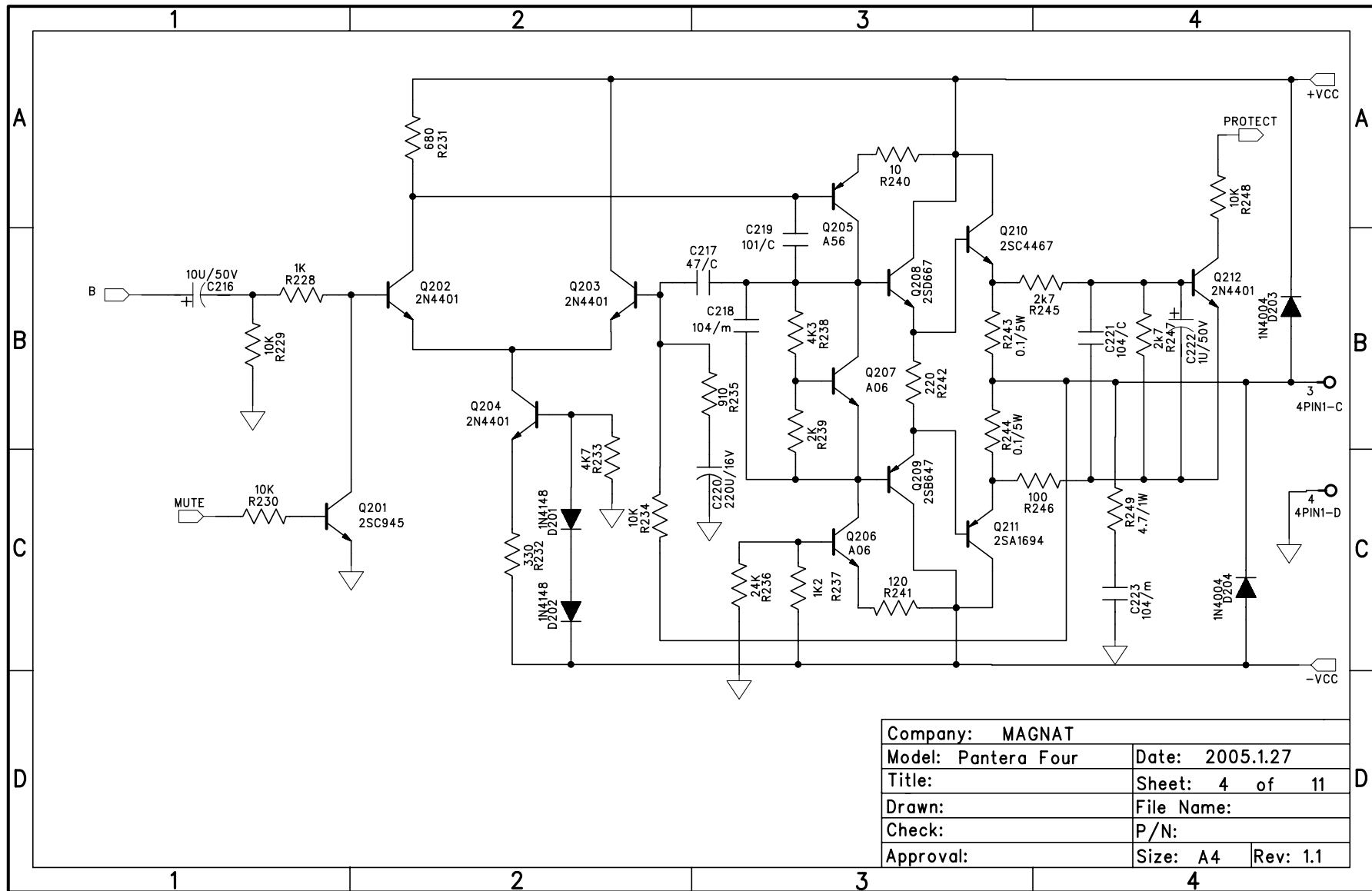


Pantera Four

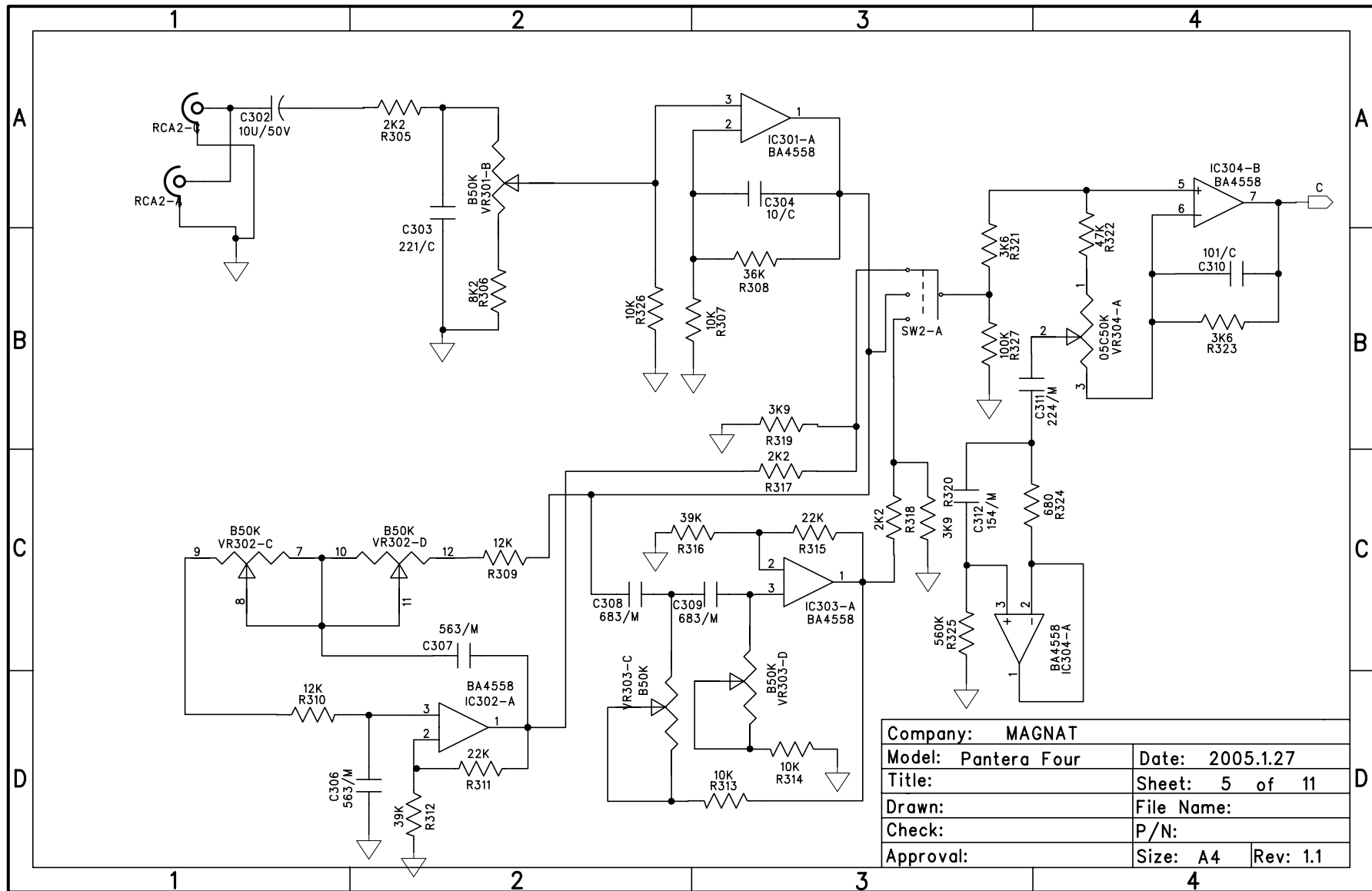


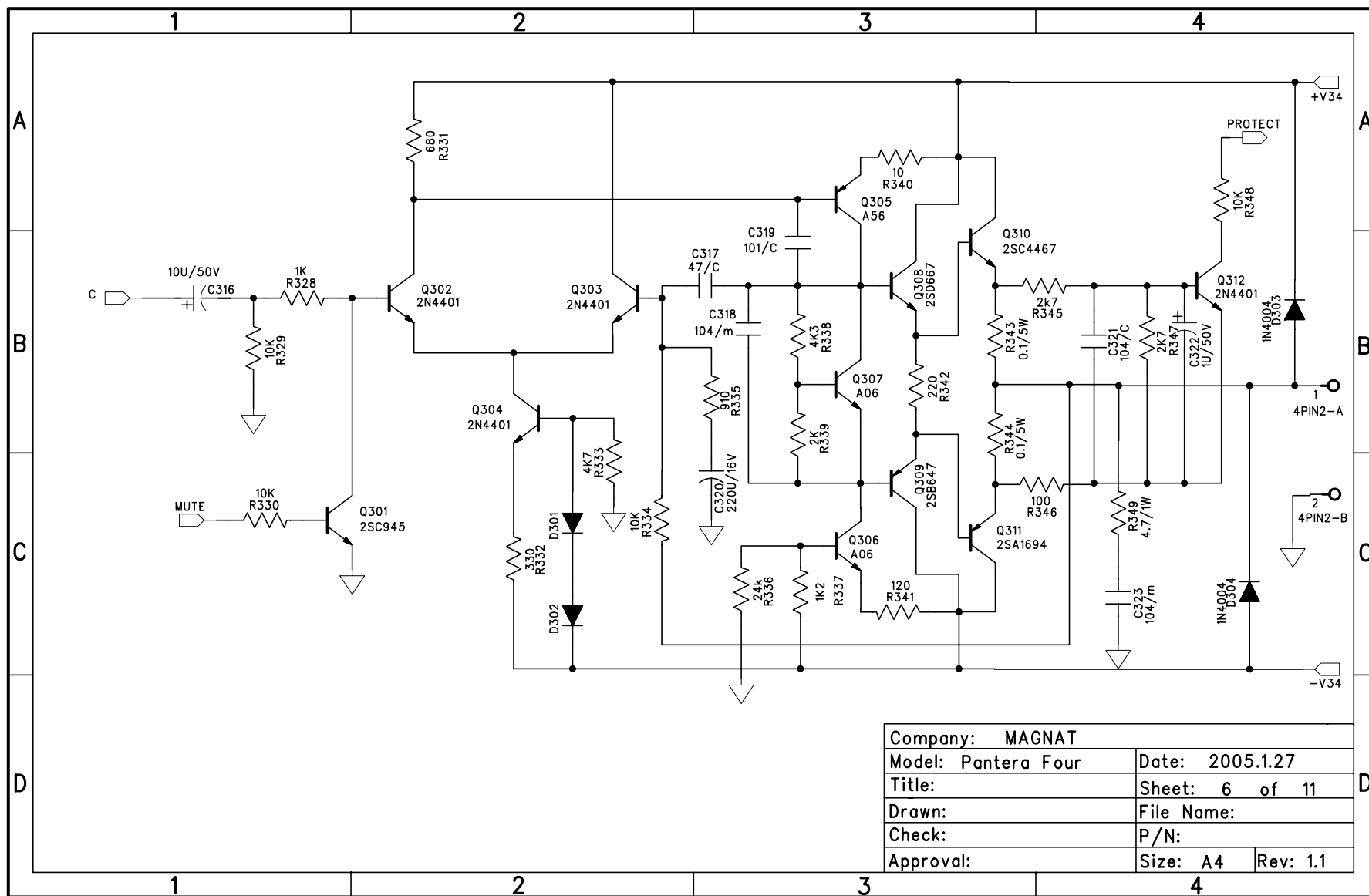


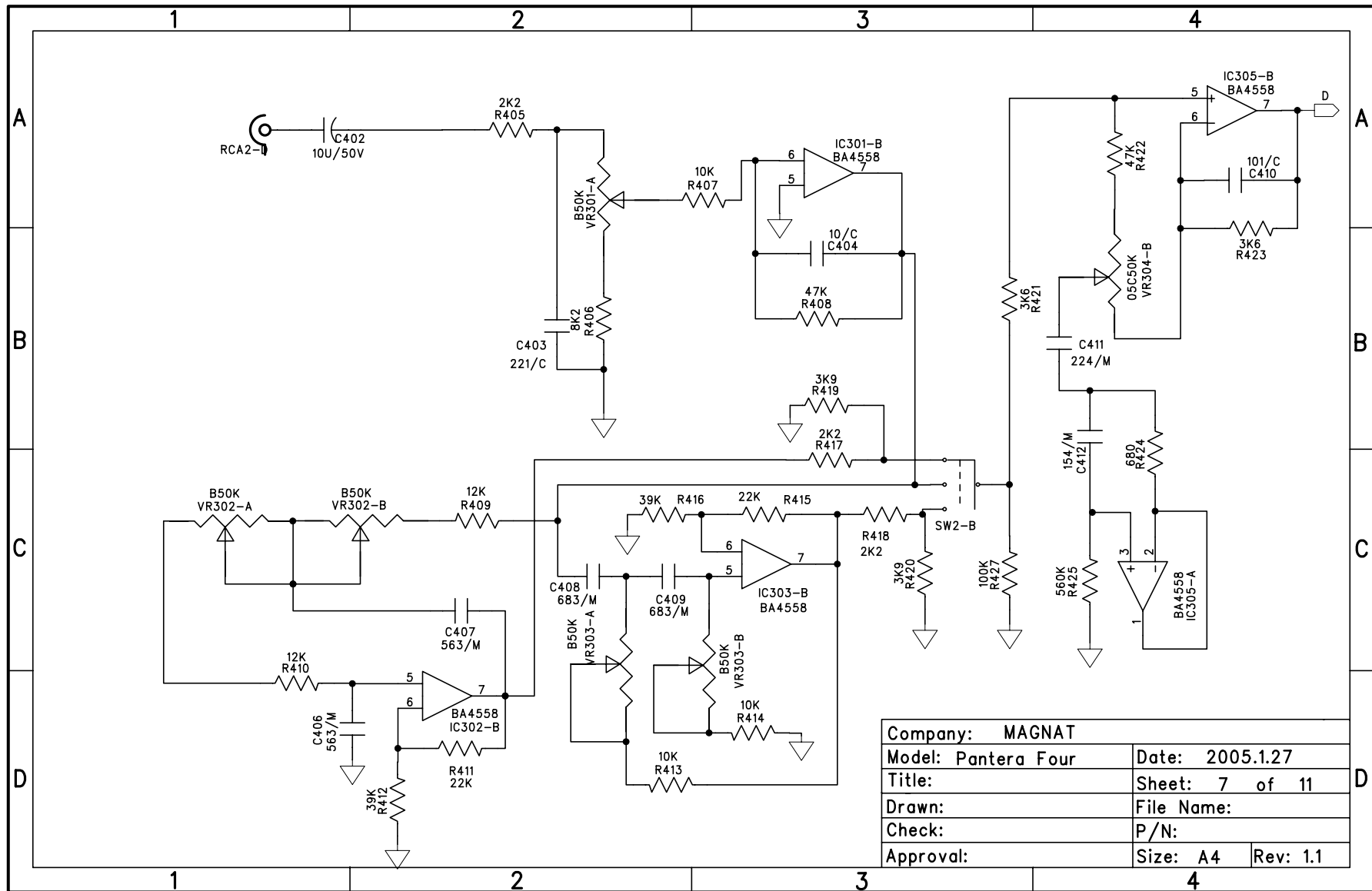


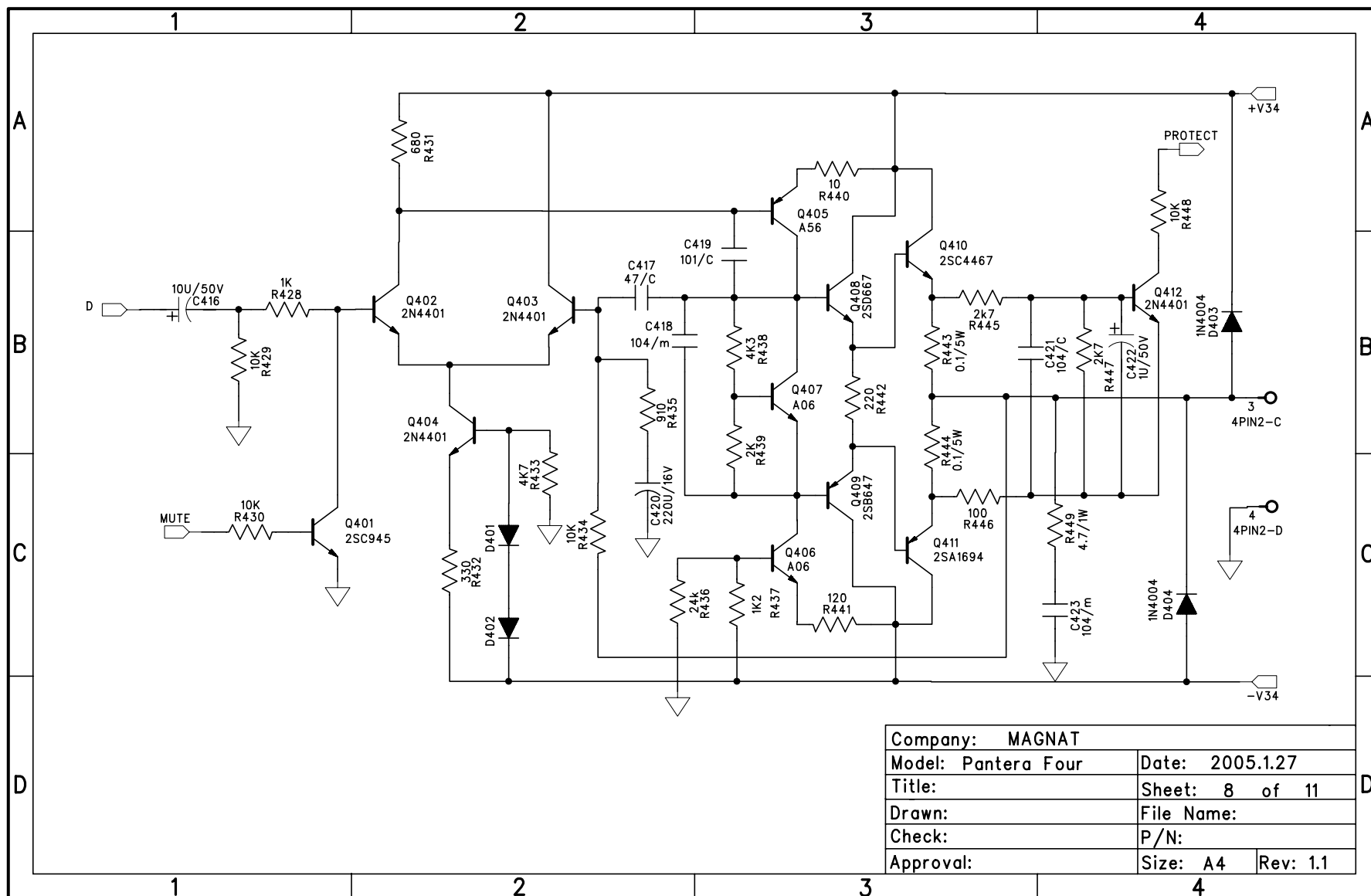


Company: MAGNAT		
Model: Pantera Four		Date: 2005.1.27
Title:	Sheet: 4 of 11	
Drawn:	File Name:	
Check:	P/N:	
Approval:	Size: A4	Rev: 1.1

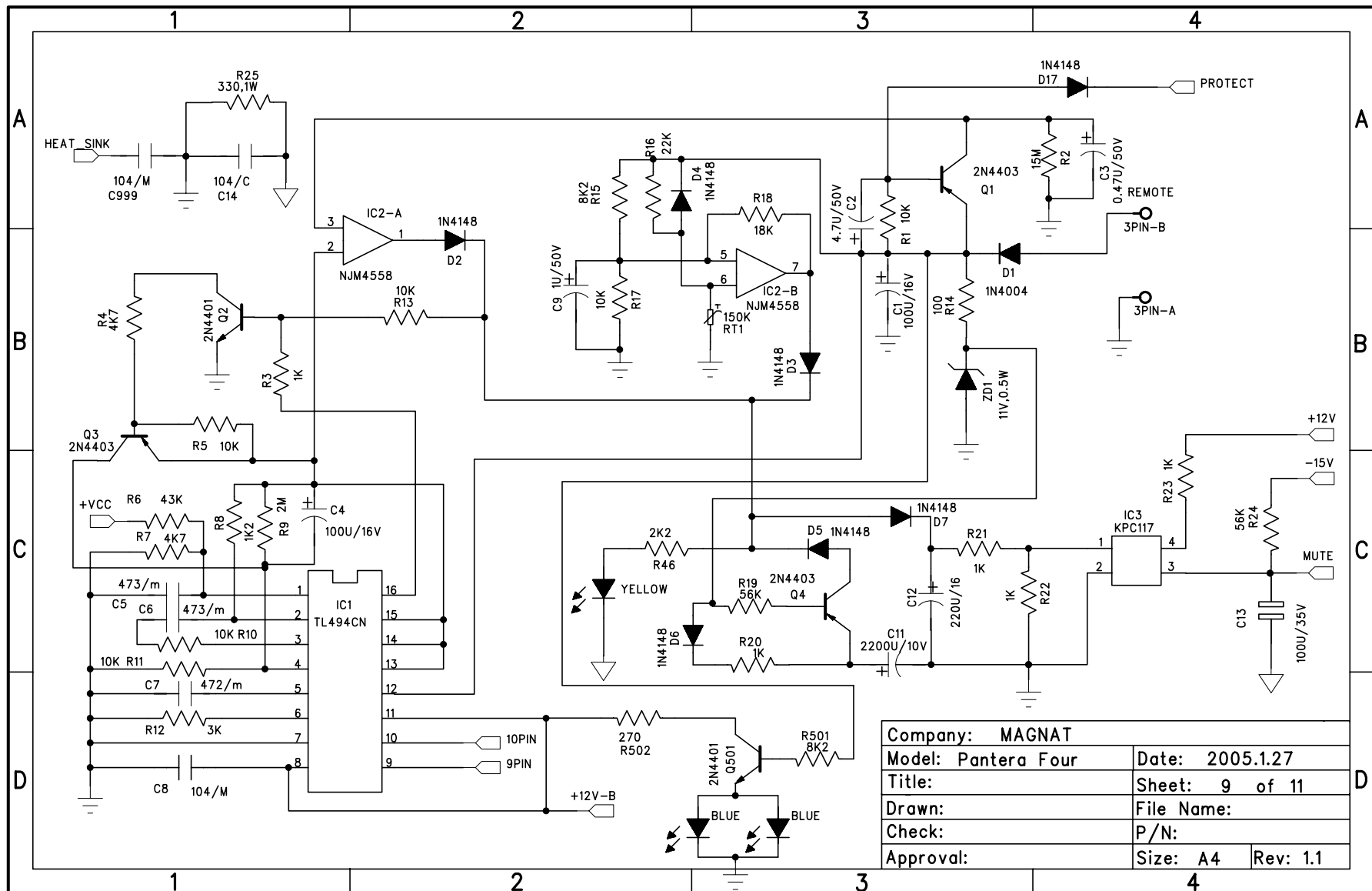


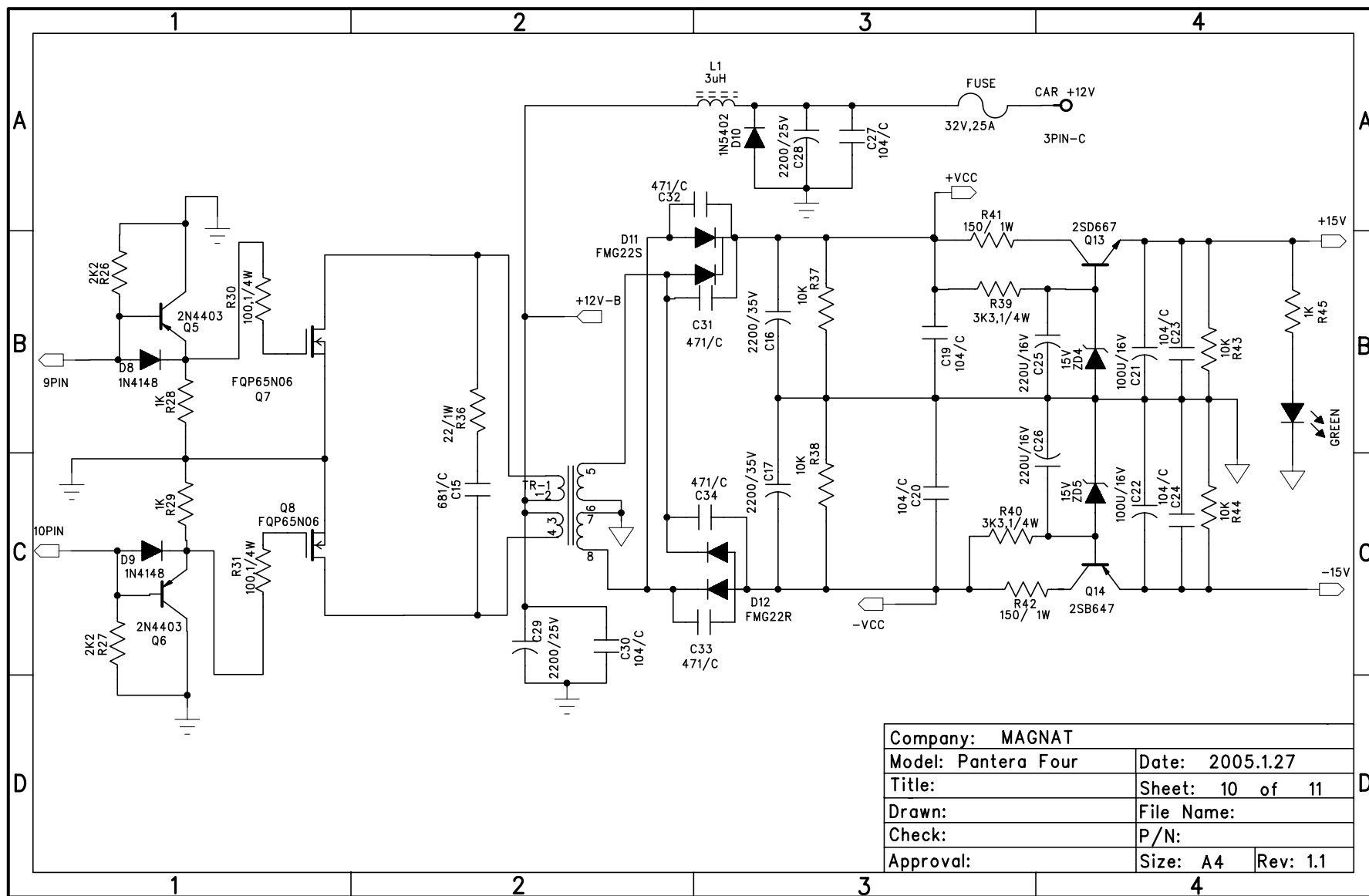




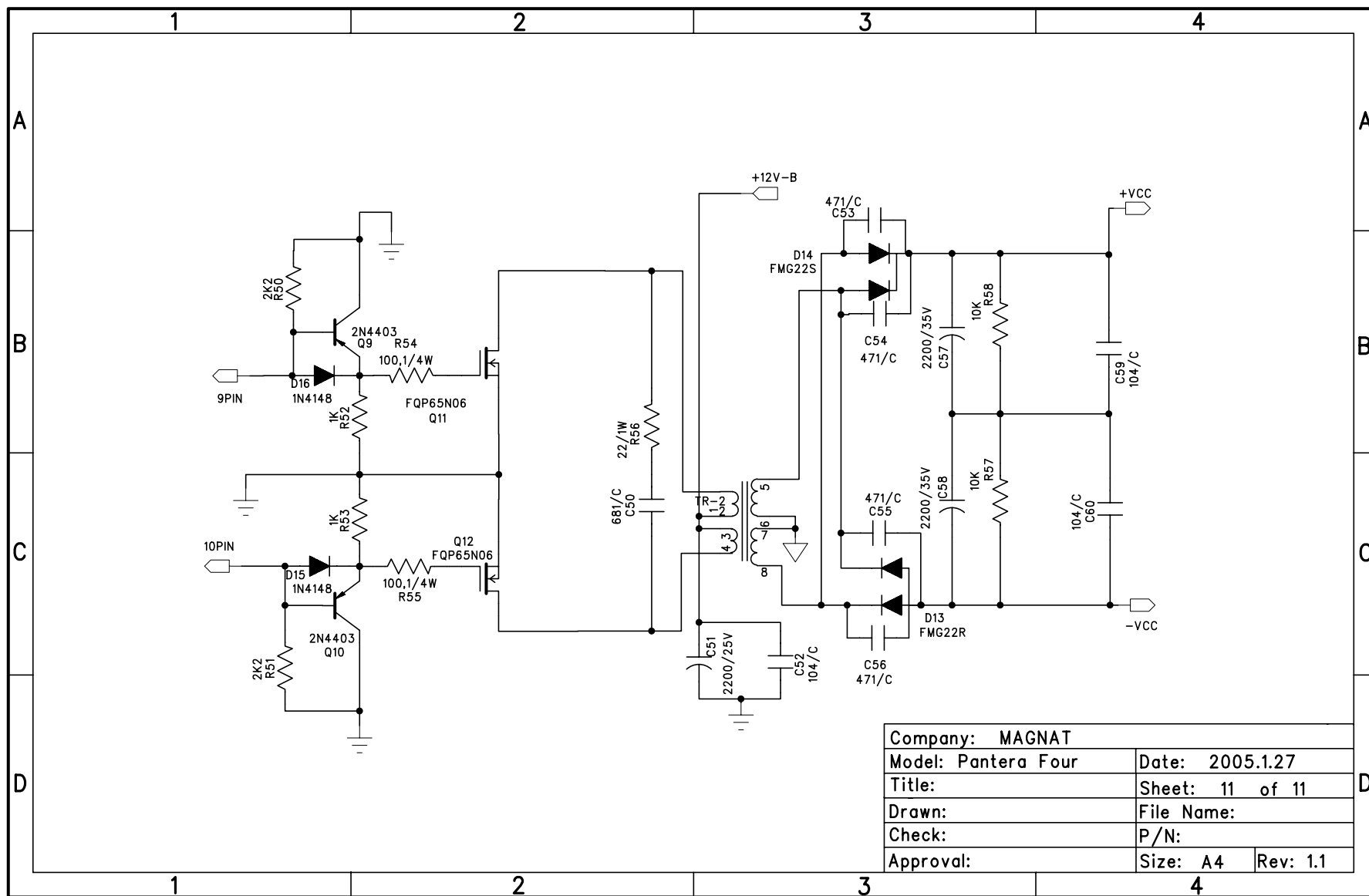


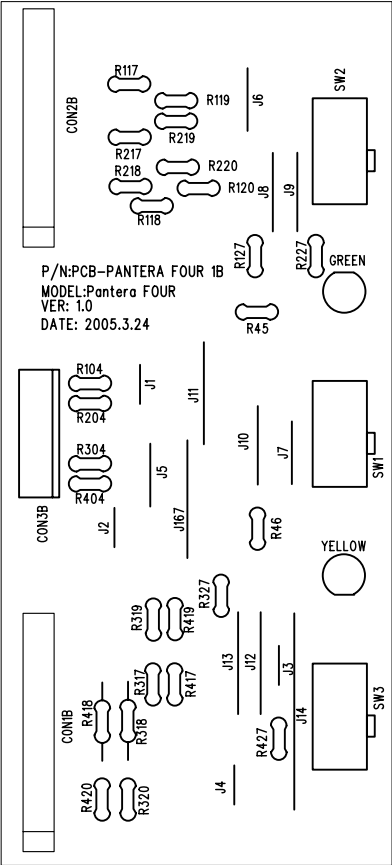
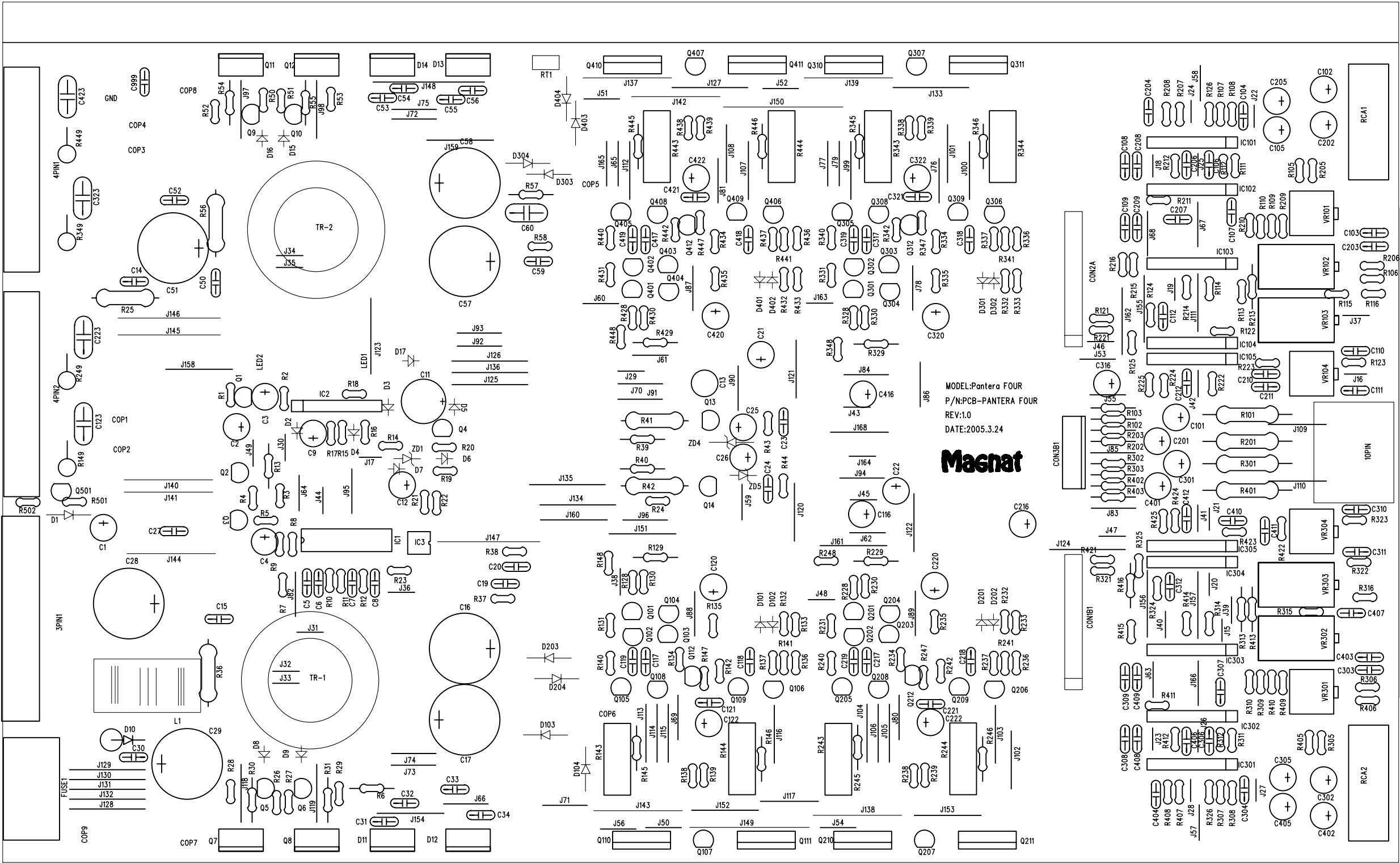
Company: MAGNAT		
Model: Pantera Four		Date: 2005.1.27
Title:		Sheet: 8 of 11
Drawn:		File Name:
Check:		P/N:
Approval:		Size: A4
		Rev: 1.1

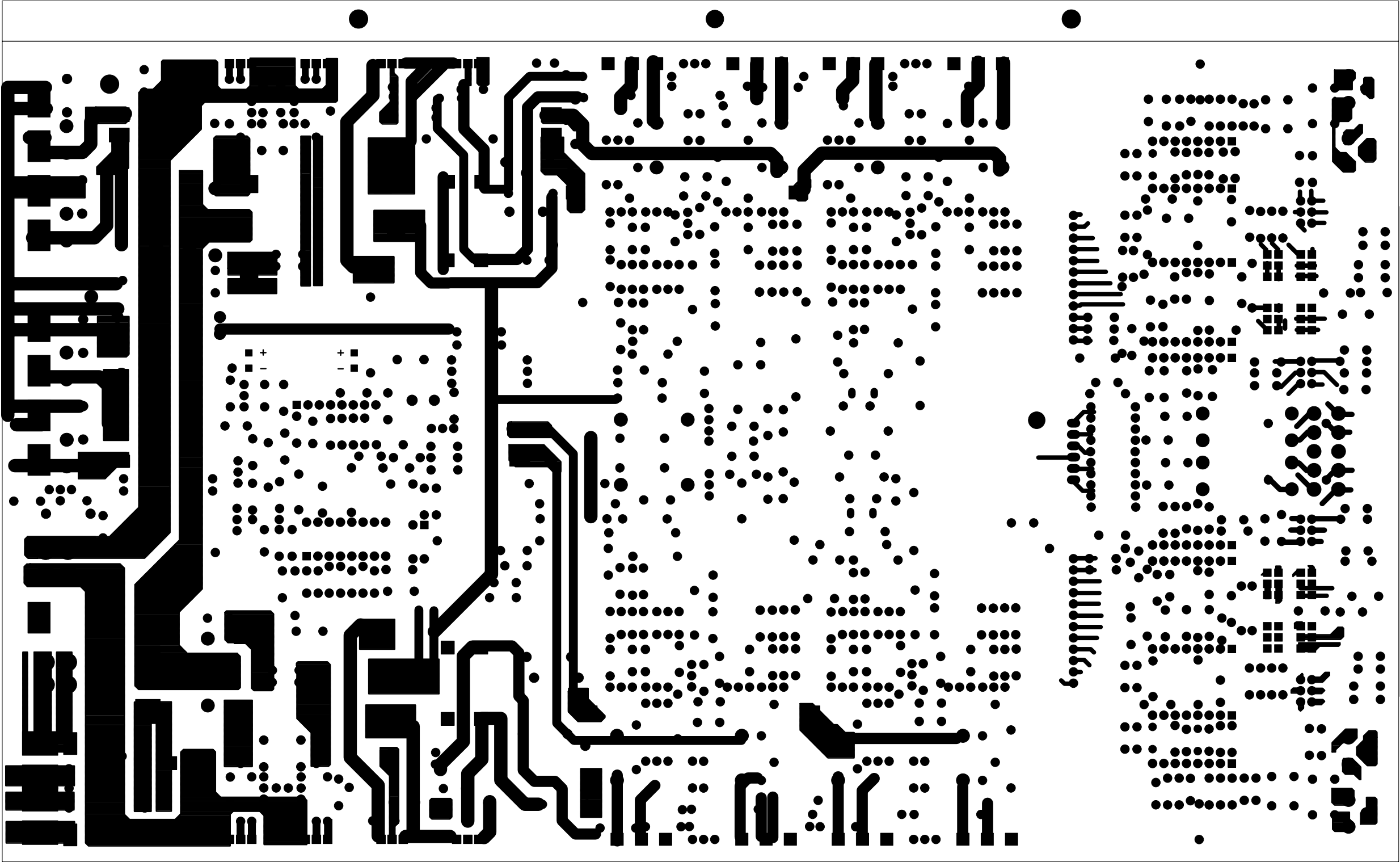
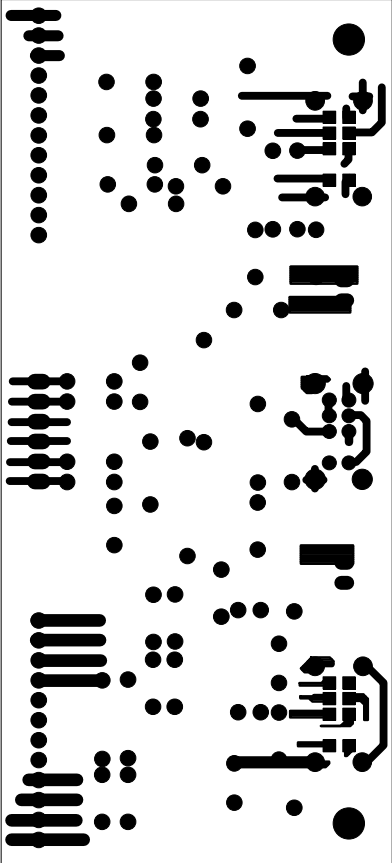


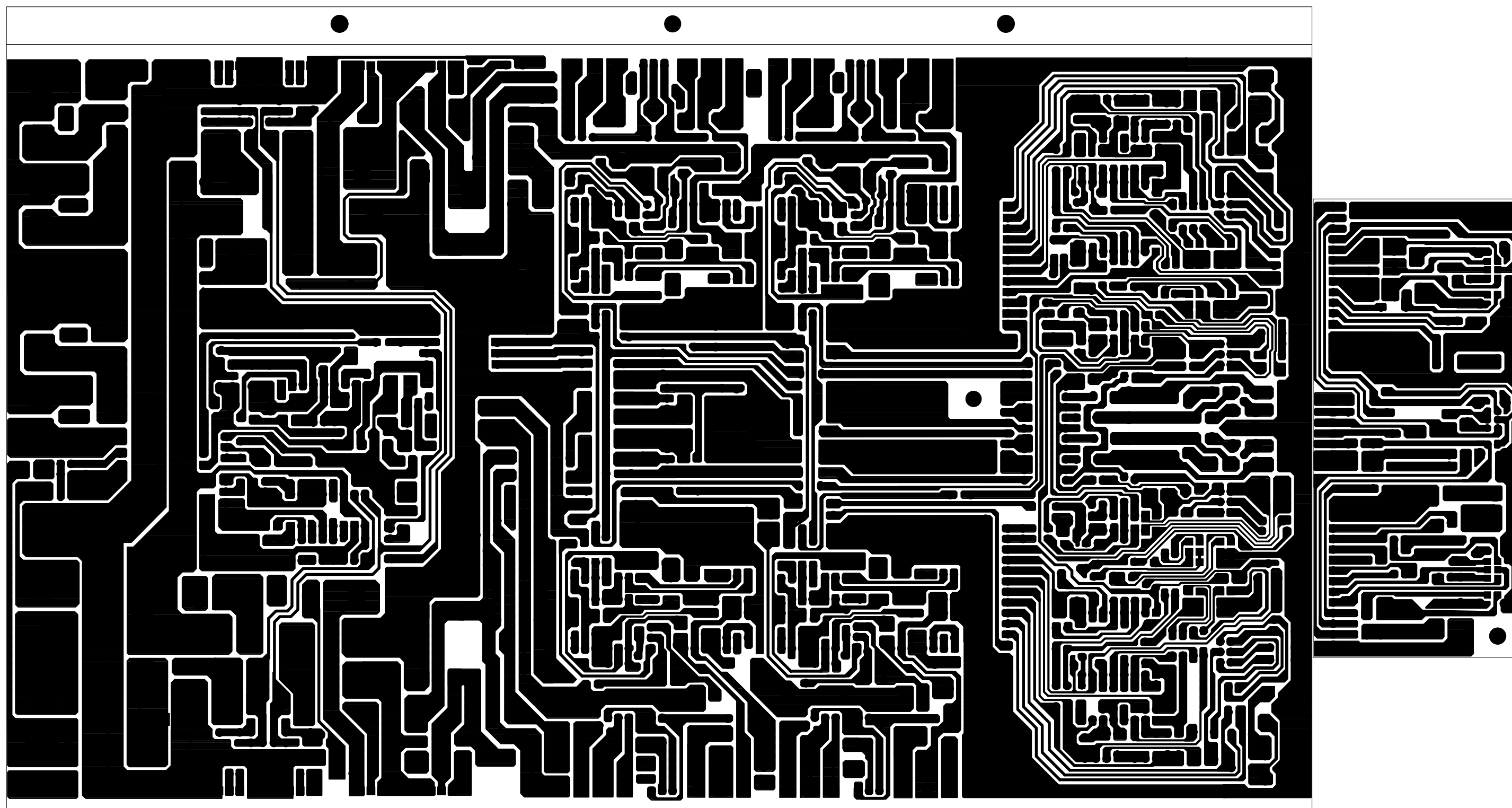


Company: MAGNAT		
Model: Pantera Four		Date: 2005.1.27
Title:		Sheet: 10 of 11
Drawn:		File Name:
Check:		P/N:
Approval:		Size: A4
		Rev: 1.1









Pantera4 spare parts list					
making date:2005.01.18					
	part number	Description	specification	quantity	position numbers
0	ASY-PAN4				
1...	WZ-PAN4				
2...	PCB-JPA4601A	PCB	PCB	1	
2...	RES-CF121Y100J	Rsistor	CF 1/8W 10 ±5% 52mm	4	R140.R240.R340.R440
2...	RES-CF121Y101J	Rsistor	CF 1/8W 100 ±5% 52MM	5	R14.R146.R246.R346.R446
2...	RES-CF121Y121J	Rsistor	CF 1/8W 120 ±5% 52mm	4	R141.R241.R341.R441
2...	RES-CF121Y221J	Rsistor	CF 1/8W 220 ±5% 52MM	4	R142.R242.R342R.442
2...	RES-CF121Y271J	Rsistor	CF 1/8W 270 ±5% 52mm	1	R502
2...	RES-CF121Y331J	Rsistor	CF 1/8W 330 ±5% 52mm	4	R132.R232.R332.R432
2...	RES-CF121Y681J	Rsistor	CF 1/8W 680 ±5% 52mm	8	R124.R131.R224.R231.R324.R331.R424.R431
2...	RES-CF121Y821J	Rsistor	CF 1/8W 820 ±5% 52mm	4	R135.R235.R335.R435
2...	RES-CF121Y102J	Rsistor	CF 1/8W 1K ±5% 52MM	13	R3.R20~23.R28~29.R52~53.R128.R228.R328.R428
2...	RES-CF121Y122J	Rsistor	CF 1/8W 1.2K ±5% 52MM	5	R8.R137.R237.R337.R437
2...	RES-CF121Y222J	Rsistor	CF 1/8W 2.2K ±5% 52MM	8	R26~27.R50~51.R105.R205.R305.R405
2...	RES-CF121Y202J	Rsistor	CF 1/8W 2K ±5% 52MM	16	R106.R139.R145.R147.R206.R239.R245.R247.R306.R347.R339.R345.R406.R439.R445.R447
2...	RES-CF121Y302J	Rsistor	CF 1/8W 3K ±5% 52MM	1	R12
2...	RES-CF121Y432J	Rsistor	CF 1/8W 4.3K ±5% 52mm	4	R138.R238.R338.R438
2...	RES-CF121Y472J	Rsistor	CF 1/8W 4.7K ±5% 52MM	6	R4.R7.R133.R233.R333.R433
2...	RES-CF121Y822J	Rsistor	CF 1/8W 8.2K ±5% 52mm	10	R15.R121.R123.R221.R223.R321.R323.R421.R423.R501
2...	RES-CF121Y103J	Rsistor	CF 1/8W 10K ±5% 52MM	42	R1.R5.R10~11.R13.R17.R37~38.R43~44.R57~58.R107.R113~114.R126.R129~130.R134.R148.R207.R213~214.R229~230.R234.R248.R307.R313~314.R326.R329~330.R334.R348.R407.R413~414.R429~430.R434.R448

Pantera4 spare parts list					
making date:2005.01.18					
	part number	Description	specification	quantity	position numbers
2...	RES-CF121Y123J	Rsistor	CF 1/8W 12K ±5% 52MM	8	R109~110.R209~210.R309~310.R409~410
2...	RES-CF121Y183J	Rsistor	CF 1/8W 18K ±5% 52MM	1	R18
2...	RES-CF121Y223J	Rsistor	CF 1/8W 22K ±5% 52mm	9	R16.R111.R115.R211.R215.R311.R315.R411.R415
2...	RES-CF121Y243J	Rsistor	CF 1/8W 24K ±5% 52mm	4	R136.R236.R336.R436
2...	RES-CF121Y393J	Rsistor	CF 1/8W 39K ±5% 52MM	8	R112.R116.R212.R216.R312.R316.R412.R416
2...	RES-CF121Y433J	Rsistor	CF 1/8W 43K ±5% 52MM	1	R6
2...	RES-CF121Y473J	Rsistor	CF 1/8W 47K ±5% 52mm	6	R108.R122.R222.R308.R322.R422
2...	RES-CF121Y563J	Rsistor	CF 1/8W 56K ±5% 52MM	4	R24.R19.R208.R408
2...	RES-CF121Y564J	Rsistor	CF 1/8W 560K ±5% 52mm	4	R125.R225R.325.R425
2...	RES-CF121Y205J	Rsistor	CF 1/8W 2M ±5% 52mm	1	R9
2...	RES-CF121Y475J	Rsistor	CF 1/8W 4.7M ±5% 52mm	1	R2
2...	RES-CF251Y101J	Rsistor	CF 1/4W 100 ±5% 52MM	4	R30~31.R54~55
2...	RES-CF251Y102J	Rsistor	CF 1/4W 1K ±5% 52mm	1	R25
2...	RES-CF251Y682J	Rsistor	CF 1/4W 6.8K ±5% 52mm	2	R39~40
2...	ECT-050V105MD	electrolyte cap	1uF/50V 5*11 ±20% 85	5	C9.C122.C222.C322.C422
2...	ECT-025V155MD	electrolyte cap	1.5uF/25V 5*11 ±20% 85	1	C3
2...	ECT-050V475MD	electrolyte cap	4.7uF/50V 5*11 ±20% 85	1	C2
2...	ECT-050V106MD	electrolyte cap	10uF/50V 5*11 ±20% 85	8	C102.C116.C202.C216.C302.C316.C402.C416
2...	ECT-016V107MD	electrolyte cap	100uF/16V 5*11 ±20% 85	4	C1.C4.C21~22
2...	ECT-025V107MB	electrolyte cap	100uF/25V 8*11 ±20% NP 85	1	C13
2...	ECT-016V227MD	electrolyte cap	220uF/16V 6.3*11 ±20% 85	5	C12.C120.C220.C320.C420
2...	ECT-050V100KT	ceramic elec. cap	10pF/50V ±10%	4	C104.C204.C304.C404
2...	ECT-050V470KT	ceramic elec. cap	47PF/50V ±10%	4	C117.C217.C317.C417
2...	ECT-050V101KT	ceramic elec. cap	100pF/50V ±10%	8	C110.C119.C210.C219.C310.C319.C410.C419
2...	ECT-050V331KT	ceramic elec. cap	330pF/50V ±10%	4	C103.C203.C303.C403

Pantera4 spare parts list					
making date:2005.01.18					
	part number	Description	specification	quantity	position numbers
2...	ECT-050V471KT	ceramic elec. cap	470PF/50V ±10%	8	C31~34.C53~56
2...	ECT-050V681KT	ceramic elec. cap	680pF/50V ±10%	2	C15.C50
2...	ECT-050V104KT	ceramic elec. cap	0.1uF/50V ±10%	14	C14.C19~20.C23~24.C27.C30.C52.C59~60 .C121.C221.C321.C421
2...	ECT-063V563DM	MET elec. cap	0.056uF/63V 7.5x6.5x2.5 ±5%	8	C106~107.C206~207.C306~307.C406~407
2...	ECT-063V683DM	MET elec. cap	0.068uF/63V 7.5x6.5x2.5 ±5%	8	C108~109.C208~209.C308~309.C408~409
2...	ECT-063V104DM	MET elec. cap	0.1uF/63V 7.5x6.5x2.5 ±5%	2	C8.C999
2...	ECT-063V154DM	MET elec. cap	0.15uF/63V 7.5x6.5x2.5 ±5%	4	C112.C212.C312.C 412
2...	ECT-063V224DM	MET elec. cap	0.22uF/63V 7.5x6.5x2.5 ±5%	4	C111.C211.C311.C 411
2...	ECT-100V472DS	plastic elec. cap	4700PF/100V 5*11.2 ±5%	1	C7
2...	ECT-100V473DS	plastic elec. cap	0.047uF/100V 8.5x12.4 ±5%	2	C5~6
2...	ECT-100V104DS	plastic elec. cap	0.1uF/100V 10*12.6 ±5%	8	C118.C123.C218.C223.C318.C323.C418.C 423
2...	DIO-1N4004	diode	1N4004	9	D1.D103~104.D203~204.D303~304.D403~ 404
2...	DIO-1N4148	diode	1N4148	19	D2~9.D15~17.D101~102.D201~202.D301~ 302.D401~402
2...	ZD-1N5241B	regulate diode	1/2W 11V 1N5241B	1	ZD1
2...	ZD-1N5245B	regulate diode	1/2W 15V 1N5245B	2	ZD4~5
2...	TRA-2N4401	TRS	2N4401	18	Q2.Q102~104.Q112.Q202~204.Q212.Q302 ~304.Q312.Q402~404.Q412.Q501
2...	TRA-2N4403	TRS	2N4403	7	Q1.Q3~6.Q9~10
2...	TRA-A06	TRS	A06	4	Q106.Q206.Q306.Q406
2...	TRA-A56	TRS	A56	4	Q105.Q205.Q305.Q405
2...	WIR-050R6	JUMP	- =0.6, L=5	19	J15~28.C105.C205.C305.C405
2...	WIR-060R6	JUMP	- =0.6, L=6	23	J29~49.J163~164
2...	WIR-080R6	JUMP	- =0.6, L=8	15	J50~64
2...	WIR-100R6	JUMP	- =0.6, L=10	34	J65~96.J165~166
2...	WIR-130R6	JUMP	- =0.6, L=13	27	J97~122.J167

Pantera4 spare parts list					
making date:2005.01.18					
	part number	Description	specification	quantity	position numbers
2...	WIR-150R6	JUMP	- =0.6, L=15	22	J151~162
2...	WIR-170R8	JUMP	- =0.8, L=17	14	J123~136
2...	WIR-200R8	JUMP	- =0.8, L=20	8	J137~144
2...	WIR-230R8	JUMP	- =0.8, L=23	3	J145~147
2...	WIR-250R8	JUMP	- =0.8, L=25	1	J148
2...	WIR-270R8	JUMP	- =0.8, L=27	2	J149~150
1...	WS-PAN4				
2...	RES-MO102R4R7J	metal oxidation elec.resistor	MOF 1W 4.7 ±5%	4	R149.R249.R349.R449
2...	RES-MO102P220J	metal oxidation elec.resistor	MOF 1W 22 ±5%	2	R36.R56
2...	RES-MO102P151J	metal oxidation elec.resistor	MOF 1W 150 ±5%	2	R41~42
2...	RES-MO102P331J	metal oxidation elec.resistor	MOF 1W 330 ±5%	1	R25
2...	RES-CEM502NR10K	RES	CEM 5W 0.1 ±10% 16*8.7*18	8	R143~144.R243~244.R343~344.R443~444
2...	ECT-010B228MD	electrolyte cap	2200uF/10V 10*20 ±20% 85	1	C11
2...	ECT-025B228ME	electrolyte cap	2200uF/25V 16*26 ±20% 105	3	C28~29.C51
2...	ECT-035B228MD	electrolyte cap	2200uF/35V 16*26 ±20% 85	4	C16~17.C57~58
2...	TRR-29613001	Transformer	- 29 6:13	2	TR1~2
2...	IND-3U1R2P5	inductance	- 1.2mm 3uH	1	L1
2...	IC-BA4558S8P	IC	IC BA4558N SIP-8PIN	11	IC2.IC101~105.IC301~305
2...	IC-KIA494P	IC	IC TL494CN or KIA494P	1	IC1
2...	IC-PC17K1	IC	PC-17K1	1	IC3
2...	DIO-1N5402	diode	1N5402	1	D10
2...	TRA-2SA1694	TRS	2SA1694	4	Q111.Q211.Q311.Q411
2...	TRA-2SB647	TRS	2SB647	5	Q14.Q109.Q209.Q309.Q409
2...	TRA-2SC4467	TRS	2SC4467	4	Q110.Q210.Q310Q.410
2...	TRA-2SC945	TRS	2SC945	4	Q101.Q201.Q301.Q401
2...	TRA-2SD667	TRS	2SD667	5	Q13.Q108.Q208.Q308.Q408
2...	MOS-FQP65N06	MOS	FET/FQP65N06	4	Q7~8.Q11~12
2...	DIO-FMG22R	fast recovery diode	FMG-22R	2	D12~13
2...	DIO-FMG22S	fast recovery diode	FMG-22S	2	D11.D14

Pantera4 spare parts list					
making date:2005.01.18					
	part number	Description	specification	quantity	position numbers
1...	E-PAN4				
2...	LED-BLU1206	shine diode	LED(1206)	2	LED1~2
2...	TRA-A06	TRS	A06	4	Q107.Q207.Q307.Q407-
2...	ST-3DOWHI001	ST	3P	1	3PIN
2...	ST-4DOWHI001	ST	4P	2	4PIN
2...	VRR-B50302S15	VRR	VR B50K	2	VR101.VR301
2...	VRR-B50304S15	VRR	VR B50K	4	VR102~103.VR302~303
2...	VRR-C50K02S15	VRR	VR B50K	2	VR104.R304
2...	RCA-JU4RWA	RCA JACK	4	2	RCA1~2
2...	FUS-0425R032V	FUSE	FUSE AUTO NON-TIME/32V 25A	2	
2...	FUS1-JK202	FUSE JACK	DOUBLE	1	FUSE
2...	W03-0521502A	COPPER	L=52,- =2,H=15,	2	COP5~6
2...	W03-0921502A	COPPER	L=92,- =2,H=15,	2	COP1~2
2...	W03-0991502A	COPPER	L=99,- =2,H=15,	2	COP3~4
2...	W02-0231002	COPPER	L=23,T=1.0,H=15.5 2P	3	COP7~9
2...	W05-1P2207001	WIRE	22#L=70mm	1	GND
2...	W05-12P2606001	WIRE	12P L=60mm	2	
2...	W05-6P2605501	WIRE	6P L=55mm	1	
2...	ERT-154K01	ERT	NTC 150 K ±10%	1	RT1
1...	WZ-PAN4P				
2...	PCB-JPA4601B	PCB	PCB	1	
2...	RES-CF121Y102J	Rsistor	CF 1/8W 1K ±5% 52MM	2	R29.R52
2...	RES-CF121Y222J	Rsistor	CF 1/8W 2.2K ±5% 52MM	8	R117~118.R217~218.R317~318.R417~418
2...	RES-CF121Y392J	Rsistor	CF 1/8W 3.9K ±5% 52MM	8	R119~120.R219~220.R319~320.R419~420
2...	WIR-050R6	jump	- =0.6, L=5	4	J1~4
2...	WIR-080R6	jump	- =0.6, L=8	3	J5~7
2...	WIR-100R6	jump	- =0.6, L=10	3	J8~10
2...	WIR-130R6	jump	- =0.6, L=13	3	J11~13
2...	WIR-150R6	jump	- =0.6, L=15	1	J167

Pantera4 spare parts list					
making date:2005.01.18					
	part number	Description	specification	quantity	position numbers
2...	WIR-250R8	jump	- =0.8, L=25	1	J14
1...	E-PAN4P				
2...	LED-GRER3	shine diode	GREEN - 3 LED	1	GREEN
2...	LED-YELR3	shine diode	- 3 LED	1	YELLOW
2...	SW1-2P3T09001	slide awitch	2P3T	3	SW1~3
2...	SOC-12P0900N	SOC	12P	2	CON1B~2B
2...	SOC-6P0900N	SOC	6P	1	CON3B
1...	A-PAN4				
2...	HS-PAN4	HEATSINK	PAN4	1	
2...	FP-PAN4	front panel	PAN4	1	
2...	RP-PAN4	rack panel	PAN4	1	
2...	BRA-0420101	BRA	42*20 1	4	
2...	BRA-0300101	BRA	30*15* 1	4	
2...	SIP-0482401	SIP	48*24 1	4	
2...	SIP-0352401	SIP	35*24 1	2	
2...	LOG-PAN402	LOGO	PAN4	1	
2...	BRA-PS000	PCB		2	
2...	SM3R005PK	SCREW	3x5	4	
2...	SP3R004PK	SCREW	3x4	2	
2...	SP3R008PK	SCREW	3*8	18	
2...	SM4R013DWG	SCREW	4*13	8	
2...	EVA-08083T	CR SPONGE	8x8x3	4	
1...	B-PAN4				
2...	SP3R008FK	SCREW	3x8	6	
2...	ST6R060SNA	SCREW	6x60	4	
2...	LOG-PAN401	LOGO	PAN4	1	
2...	BGF-350480	BGF	350*480*0.05	1	
2...	EVA-140050T5	EVA	140*5*0.5	4	
2...	EVA-08081T	EVA	8*8*1	4	

Pantera4 spare parts list					
making date:2005.01.18					
	part number	Description	specification	quantity	position numbers
2...	BOX-PAN4	BOX	PAN4	0,333	
2...	PAD-JPA460	PAD	JPA460	0,666	
2...	GIB-PAN4	GIFTBOX	PAN4	1	
2...	COW-PAN4	COW	Pantera4	1	
2...	INS-PAN4	INS	Pantera4	1	
2...	LAB-PAN401A	LAB	Pantera4	1	
2...	LAB-PAN401L	LAB	Pantera4	2	
2...	LAB-PAN401Y	LAB	Pantera4	0,666	