

Service Manual



Program Timer

PW-6242B

CONTENTS

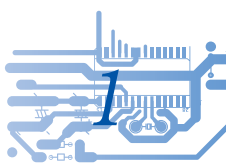
Specifications	1
Electrical Parts List	2
Top and Bottom View of P.C. Board	6
Wiring Diagram	10
Block Diagram	11
Schematic Diagram	12
Exploded View of Cabinet & Chassis / Mechanical Parts List	18

SPECIFICATIONS

	PW-6242B
Input Channel	5CH
Output Channel	4CH
Output Level (1kHz 0dBFS MP3 Play, Volume Max)	Maximum +15dBu
Frequency Response	20Hz~20kHz
Signal to Noise (20kHz LPF)	More than 90dB
THD (20kHz LPF)	less than 0.05%
AC Power Output1	Maximum 500W
AC Power Output2	Maximum 500W
Data Retention Time	Maximum 12 days
Melody Time (TR0001~TR0015) Total 15 melodies - 247 seconds	TR no.1-2 sec, TR no.2-3 sec, TR no.3-3 sec, TR no.4-5 sec, TR no.5-5 sec, TR no.6-7 sec, TR no.7-7 sec, TR no.8-10 sec, TR no.9-10 sec, TR no.10-15 sec, TR no.11-20 sec, TR no.12-30 sec, TR no.13-30 sec, TR no.14-40 sec, TR no.15-60 sec
Operating Temperature	-10°C~+40°C
Power Source	AC 220-240V, 50/60Hz, DC 24V
Power Consumption	1000W
Weight (set)	4.57kg/10lb
Dimension (set)	482(W)×88(H)×280(D)mm/19(W)×3.5(H)×11(D)in

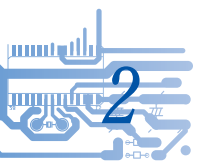
* Design and specification are subject to be changed for the improvement of product quality without pre notice.

※ Caution: This device is for business (class A) and is completed in Electromagnetic Compatibility Registration.
Hope Seller or User be cautious for this point and this device should be used at area other than home.



ELECTRICAL PARTS LIST

REF	ITEM NO.	DEFINE	VALUE
MAIN			
BD401	102645	BD/KBP202-203G,KBP202G	KBP202G
D101	102766	ZD/6.2V/1N4735A/1W,1N4735A_6.2V	1N4735A_6.2V
LD207	103268	LD/G/3T/BL-C9/GE-V1E,BL-C9/GE-V1E	BL-C9/GE-V1E
LD519	103295	LD/O/3.1T/SLA124Y,SLA 124Y	SLA 124Y
VF501	103350	LC/20-BT-08GINK,20-BT-08GINK	20-BT-08GINK
FB401-403 FB408	103528	100MHZ/BEAD/103528,100MHz	100MHz
R364	104235	R100J/A,100	100
R401-402	104340	R5.1KJ/A,5.1K	5.1K
R439	104518	R10J/2W/MO/T,10 2W	10 2W
VR101	105146	503B/16/RK16K1120,50KB	50KB
C409	105356	EC470U35M/RD/T,470/35	470/35
C336	105389	EC1F5.5N/NF,1F/5.5	1F/5.5
C124 C425 C427			
C429 C431 C433	105421	EC100U25M/RG/T,100/25	100/25
C447	105426	EC10U63M/RG/T,10/63	10/63
C444	105508	EC47U25M/RG/T,47/25	47/25
C401	105533	EC4700U35M/H,4700/35	4700/35
C402	105924	MA0.1U100K/CEM/T,0.1/100(M),???	0.1/100(M)
C403-404	105926	MA1500P100J/CEM/T,1500P100(M)	1500P100(M)
TP401-405	106871	TP/TP00325-21/T,TP00325-21	TP00325-21
AN2	109442	12P/ASSY/2.5/120MM/109442,ASS'Y-12P	ASS'Y-12P
CN401	110493	02P/B3P-VH/7.92,B3P/VH-02P	B3P/VH-02P
CON206-209	110898	XLR/M/E403A0090N,XLR/M	XLR/M
CN201	110949	13P/BMW200/2,BMW200-13P	BMW200-13P
AN201	110952	13P/BMH200-R/2,BMH200-R-13P	BMH200-R-13P
CN304 CN501	111191	18P/FFC-SCB11/1.25,FFCSCB-18P	FFCSCB-18P
AN101 CN101 CN402	111358	03P/LW-5267/2.5,LW5267-03P	LW5267-03P
CN301	111359	04P/LW-5267/2.5,LW5267-04P	LW5267-04P
AN303 CN303	111363	08P/LW-5267/2.5,LW5267-08P	LW5267-08P
CN202	111367	12P/LW-5267/2.5,LW5267-12P	LW5267-12P
CON210	111451	DS09P/M/111451,D-SUB09P	D-SUB09P
FH401	111579	FUSE/GF-205B,GF-205B	GF-205B
CON401	111590	TER/DC/02H/111590,TERMINAL02P	TERMINAL02P
CON301	111624	USB04P/102/111624,USB04P	USB04P
CON201-205	111676	XLR/F/E203A0040N,XLR/F	XLR/F
CON211	111893	TER/SC/9302/02H/111893,TERMINAL02P	TERMINAL02P
SW301	112104	SL/SSSS222700,SSSS222700	SSSS222700
SW509-528	112184	TC/TQCV503R,TQCV503R	TQCV503R
F401	112584	20/1.25A/250V/T/KUCJ/112584,250VT1.25AL	250VT1.25AL
LIM509-519	114982	LIMITER/5.5/11.5/114982,11.5mm	11.5mm
Q201-206 Q402-405 Q501	118672	NPN/2N3904/SOT23,2N3904	2N3904
IC108	118724	7805/KIA/D-PAK,7805	7805
IC104-105	118730	NJM072M/DMP08P,NJM072M	NJM072M
PC401	118872	PC/LTV817B,LTV817B	LTV817B
IC404	118971	AP1086D33L/TO252-3,AP1086D33L	AP1086D33L
IC107	118973	AP1117E18L/SOT223,AP1117E18L	AP1117E18L
IC201	119039	MAX3232CUE/TSSOP16P/2,MAX3232CUE	MAX3232CUE
IC501-504	119132	SN74AHCT1G125/SOT23-5,SN74AHCT1G125	SN74AHCT1G125
IC505	119147	AP1117E33L/SOT223,AP1117E33L	AP1117E33L
D405-406 D409 D412	119182	D/SX34/SMA,SX34	SX34
D102-104 D201-206			
D301-302 D404 D408			
D411 D413-414 D416-417	119190	D/BAS21/SOT23,BAS21	BAS21
D419 D425	119196	D/BAV99/SOT23,BAV99	BAV99
D400 D415			
D420-421 D426	119203	D/MURS120T3/SMB,MURS120T3	MURS120T3
L401-403	119249	33UH/12.5/SHP1260P-F330A,33uH	33uH
FB201-210 FB301			
FB303-315	119309	120OHM/BEAD/119309,120ohm	120ohm
R1-4 R7-12 R101			
R107-108 R110-111			
R116-122 R225 R306			
R319-320 R329-331			
R336-337 R344			

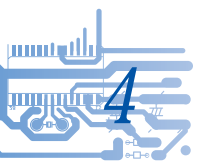


ELECTRICAL PARTS LIST

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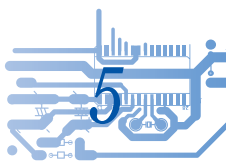
ELECTRICAL PARTS LIST

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MAIN			
C101-102 C301-302	120267	CE20P50J/1608,20P	20P
C208	120348	CE4.7U16M/3216,4.7/16	4.7/16
C139-142 C422-424	120351	CE100P50J/1608,100P	100P
C129-132	120369	CE220P50J/1608,220P	220P
C133	120377	CE33P50J/1608,33P	33P
C137	120390	CE470P50J/1608,470P	470P
C419-421 C443	120415	CE0.01U50K/1608,0.01U	0.01U
C514-516	120419	CE0.1U50K/1608,0.1	0.1
C1-2 C104-113			
C115-120 C122			
C125-126 C134			
C145-153 C201-206			
C211-212 C304			
C307-317 C330-332			
C338 C407-408			
C413-415 C426 C428			
C430 C432 C434			
C436 C438-439 C441			
C502-503 C505-511			
C517-521 C733	120419	CE0.1U50K/1608,0.1U	0.1U
IC311	122231	24LC256/SOIC08P/2,24LC256	24LC256
D304-305	123668	SM712/SOT23,SM712	SM712
CON212	123779	SOCKET/DM1AA,DM1AA	DM1AA
SW302	124663	TC/ITS-1163,ITS-1163	ITS-1163
C410-412	125848	EC100U50M/NXB/T,100/50	100/50
C405-406	125968	MA0.47U63J/CEM,0.47/63(M)	0.47/63(M)
C445	125969	MA0.022U630K/DEM,0.022/630(K)	0.022/630(K)
G3-4	126028	BK/126028,Bracket	Bracket
X301	127027	8MHZ/-20~70C/C5-35S18/SMD,8MHZ	8MHZ
D402 D424	127303	ZD/15V/Z02W/SOT23,15V	15V
FB101	127459	120OHM/BEAD/127459,120ohm	120ohm
FB406-407	127463	100OHM/BEAD/127463,100ohm	100ohm
C435	127711	EC10U50M/NXB/T,10/50	10/50
D403 D407 D410	128444	ZD/5.6V/350MW/SOT23,5.6V	5.6V
IC103 IC106	128573	LME49860MA/SOIC08P,LME49860MA	LME49860MA
X101	128738	12.288MHZ/-10~70C/HC-49SM/SMD,12.288MHz	12.288MHz
IC312	129071	DS3231SN/SOIC16P/2,DS3231SN	DS3231SN
C318-319	129257	CE2.2U10K/1608,2.2U10	2.2U10
C337	129261	CE10U10M/2012,10U10	10U10
D418	129503	ZD/8.2V/BZX84C8V2/SOT23,8.2V	8.2V
Q101	129509	N/PMBFJ112/SOT23,PMBFJ112	PMBFJ112
IC305	129793	NL17SZ04DFT2G/SC70-5,NL17SZ04	NL17SZ04
IC306 IC308	129794	NL17SZ08DFT2G/SC70-5,NL17SZ08	NL17SZ08
LD201-206 LD302	129959	LD/G/1608/BL-HGE36A,BL-HGE36A	BL-HGE36A
LD101 LD301 LD404			
LD501-508	129968	LD/R/1608/BL-HUE36A,BL-HUE36A	BL-HUE36A
LD509-518	130018	LD/G/3.1T/BL-B2141,BL-B2141-AA-AV-T05	BL-B2141-AA-AV-T05
IC302-303	130223	74LV573DB/SSOP20P/2,74LV573DB	74LV573DB
LD401-403	130293	LD/Y/1608/BL-HKB36A,BL-HKB36A	BL-HKB36A
IC310	131280	MP62055/SOT23-5,MP62055	MP62055
IC202 IC405	131508	74LV123DB/SSOP16P/2,74LV123DB	74LV123DB
IC506-508	132123	PCA9535/TSSOP24P/2,PCA9535	PCA9535
IC102	133095	CS4392-KZZ/TSSOP20P/2,CS4392-KZZ	CS4392-KZZ
RL201-206	133899	24V/AGN20024/S2L1,24V	24V
Q406-407	135990	NPN/PBSS8110X/SOT89,PBSS8110X	PBSS8110X
IC401-403	136256	LM22672/SOP08P/2,LM22672	LM22672
L404	136355	330UH/8/136355,330uH	330uH
SW501-508	136922	TC/TA8X8-8.5H-N,TA8X8-8.5H-N	TA8X8-8.5H-N
D401	136973	SD/V10P10/TO277A,V10P10	V10P10
D422	137010	ZD/5.1V/MMBZ5231B/SOT23,5.1V	5.1V
Q401	137324	P/FDD5614P/TO252,FDD5614P	FDD5614P
IC101	137556	VS1063A/LQFP48P/2,VS1063A	VS1063A
IC304	137629	IS61WV25616EDBLL-10TLI/TSOP44P/2,IS61WV25616EDBLL-10TLI	IS61WV25616EDBLL-10TLI
T401	137761	PT/137761,137761	137761



ELECTRICAL PARTS LIST

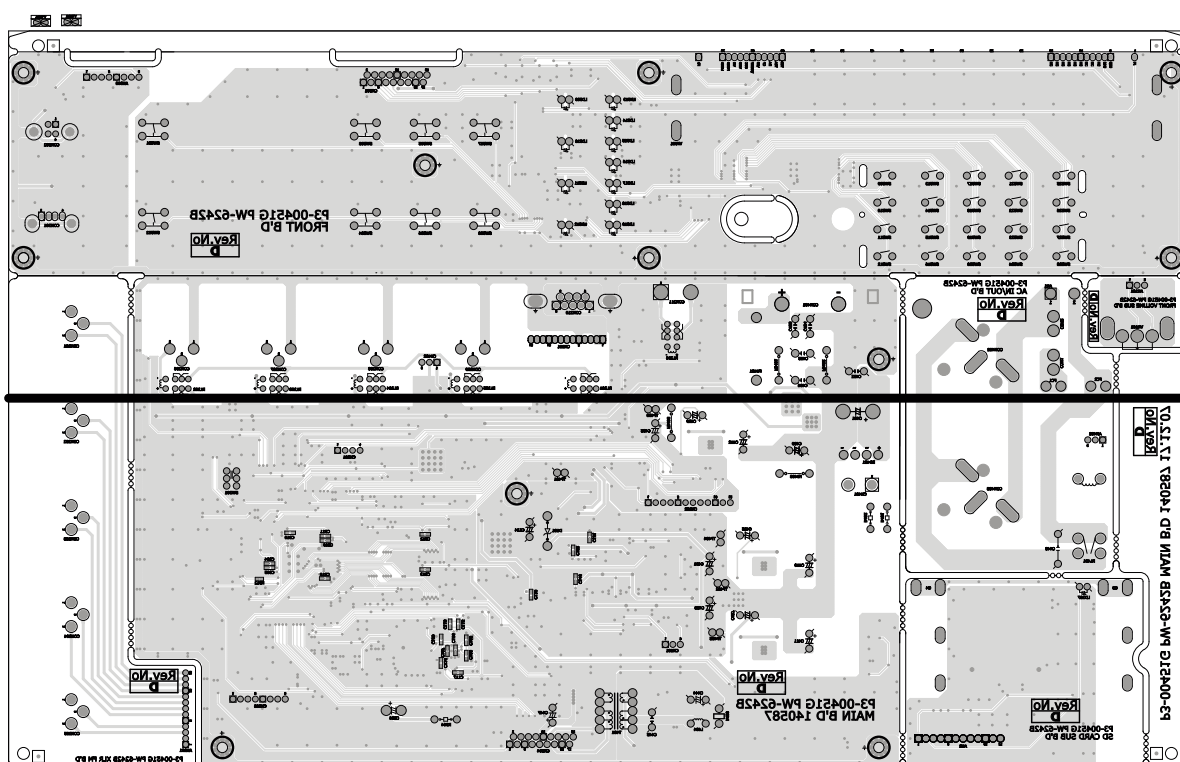
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CON302 IC301	137762 138296	USB04P/BF/137762,USB04P STM32F205VET6/LQFP100P/2,STM32F205VET6	USB04P STM32F205VET6
OUTLET-R			
Q408 D423 R446 R445 AN401 CN403-404 AN402 FC1-2 CON401-402 F400 RL401 C448	102525 102659 104237 104308 107110 110493 111358 111857 111903 112553 112696 138475	NPN/KTC3198-Y,KTC3198-Y D/1N4006,1N4006 R10KJ/A,10K R3.3KJ/A,3.3K 02P/ASSY/7.92/100MM/107110,ASS'Y-02P 02P/B3P-VH/7.92,B3PVH-02P 03P/LW-5267/2.5,LW5267-03P FUSE/CLIP/20MM,CLIP 20mm TER/250/01V/111903,250T 20/315MA/250V/T/KUC/112553,250VT315mAL 24V/HR-CR3A23/S2L1,24V CE4700P250M/AC,4700P/250	KTC3198-Y 1N4006 10K 3.3K ASSY-02P B3PVH-02P LW5267-03P CLIP 20mm 250T 250VT315mAL 24V 4700P/250
WIRING			
	107989 109060 112598 135659 140548 111746 141537	CON ASS'Y,FL,8P,5264,5264,190MM CON ASS'Y,FL,3P,5264,5264,250MM FUSE,20MM,T,5A,250V,K/U/CS/J CARD CABLE,FFC,18P,200MM,P1.25 TRANS,POWER,EI,220V,AC23.4V,PV/PW AC OUTLET,3P,WS-023D,VH,ASSY100MM 8GB Sd Memory Card,MLC,TYPE,BULK	CONNECTOR ASS'Y CONNECTOR ASS'Y FUSE CABLE TRANSFORMER(POWER) SOCKET(POWER) IC



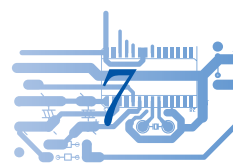
NAME: WILLIAM HARRIS	EMPLOYEE ID: 10000000000000000000	 http://www.inter-m.com/			
DOB: 1970-01-01	SSN: 123-45-6789				
AGE: 34	SEX: M	REVISION HISTORY			
HEIGHT: 180	WEIGHT: 75				
HAIR: BROWN	EYES: BLUE	NO: 1	DATE: 2004-01-01	BY: ADMIN	REASON: Initial Setup
SKIN: Fair	RELIGION: Catholic	NO: 2	DATE: 2004-01-05	BY: ADMIN	REASON: Address Update
TELEPHONE: 123-456-7890	EMAIL: william.harris@inter-m.com	NO: 3	DATE: 2004-01-10	BY: ADMIN	REASON: Phone Number Update
ADDRESS: 123 Main St, New York, NY 10001		NO: 4	DATE: 2004-01-15	BY: ADMIN	REASON: City Update
CITY: New York		NO: 5	DATE: 2004-01-20	BY: ADMIN	REASON: State Update
STATE: NY		NO: 6	DATE: 2004-01-25	BY: ADMIN	REASON: Zip Code Update
ZIP: 10001		NO: 7	DATE: 2004-02-01	BY: ADMIN	REASON: Profile Completion
EMPLOYER: Inter-M Corporation		NO: 8	DATE: 2004-02-05	BY: ADMIN	REASON: Employer Information Update
EMPLOYEE ID: 10000000000000000000		NO: 9	DATE: 2004-02-10	BY: ADMIN	REASON: Employee ID Update
SSN: 123-45-6789		NO: 10	DATE: 2004-02-15	BY: ADMIN	REASON: SSN Update
AGE: 34		NO: 11	DATE: 2004-02-20	BY: ADMIN	REASON: Age Update
HEIGHT: 180		NO: 12	DATE: 2004-02-25	BY: ADMIN	REASON: Height Update
WEIGHT: 75		NO: 13	DATE: 2004-03-01	BY: ADMIN	REASON: Weight Update
HAIR: BROWN		NO: 14	DATE: 2004-03-05	BY: ADMIN	REASON: Hair Color Update
EYES: BLUE		NO: 15	DATE: 2004-03-10	BY: ADMIN	REASON: Eye Color Update
RELIGION: Catholic		NO: 16	DATE: 2004-03-15	BY: ADMIN	REASON: Religion Update
TELEPHONE: 123-456-7890		NO: 17	DATE: 2004-03-20	BY: ADMIN	REASON: Phone Number Update
EMAIL: william.harris@inter-m.com		NO: 18	DATE: 2004-03-25	BY: ADMIN	REASON: Email Address Update
ADDRESS: 123 Main St, New York, NY 10001		NO: 19	DATE: 2004-04-01	BY: ADMIN	REASON: Address Update
CITY: New York		NO: 20	DATE: 2004-04-05	BY: ADMIN	REASON: City Update
STATE: NY		NO: 21	DATE: 2004-04-10	BY: ADMIN	REASON: State Update
ZIP: 10001		NO: 22	DATE: 2004-04-15	BY: ADMIN	REASON: Zip Code Update
EMPLOYER: Inter-M Corporation		NO: 23	DATE: 2004-04-20	BY: ADMIN	REASON: Employer Information Update
EMPLOYEE ID: 10000000000000000000		NO: 24	DATE: 2004-04-25	BY: ADMIN	REASON: Employee ID Update
SSN: 123-45-6789		NO: 25	DATE: 2004-05-01	BY: ADMIN	REASON: SSN Update
AGE: 34		NO: 26	DATE: 2004-05-05	BY: ADMIN	REASON: Age Update
HEIGHT: 180		NO: 27	DATE: 2004-05-10	BY: ADMIN	REASON: Height Update
WEIGHT: 75		NO: 28	DATE: 2004-05-15	BY: ADMIN	REASON: Weight Update
HAIR: BROWN		NO: 29	DATE: 2004-05-20	BY: ADMIN	REASON: Hair Color Update
EYES: BLUE		NO: 30	DATE: 2004-05-25	BY: ADMIN	REASON: Eye Color Update
RELIGION: Catholic		NO: 31	DATE: 2004-06-01	BY: ADMIN	REASON: Religion Update
TELEPHONE: 123-456-7890		NO: 32	DATE: 2004-06-05	BY: ADMIN	REASON: Phone Number Update
EMAIL: william.harris@inter-m.com		NO: 33	DATE: 2004-06-10	BY: ADMIN	REASON: Email Address Update
ADDRESS: 123 Main St, New York, NY 10001		NO: 34	DATE: 2004-06-15	BY: ADMIN	REASON: Address Update
CITY: New York		NO: 35	DATE: 2004-06-20	BY: ADMIN	REASON: City Update
STATE: NY		NO: 36	DATE: 2004-06-25	BY: ADMIN	REASON: State Update
ZIP: 10001		NO: 37	DATE: 2004-07-01	BY: ADMIN	REASON: Zip Code Update
EMPLOYER: Inter-M Corporation		NO: 38	DATE: 2004-07-05	BY: ADMIN	REASON: Employer Information Update
EMPLOYEE ID: 10000000000000000000		NO: 39	DATE: 2004-07-10	BY: ADMIN	REASON: Employee ID Update
SSN: 123-45-6789		NO: 40	DATE: 2004-07-15	BY: ADMIN	REASON: SSN Update
AGE: 34		NO: 41			

TOP & BOTTOM VIEW OF P.C BOARD

- MAIN

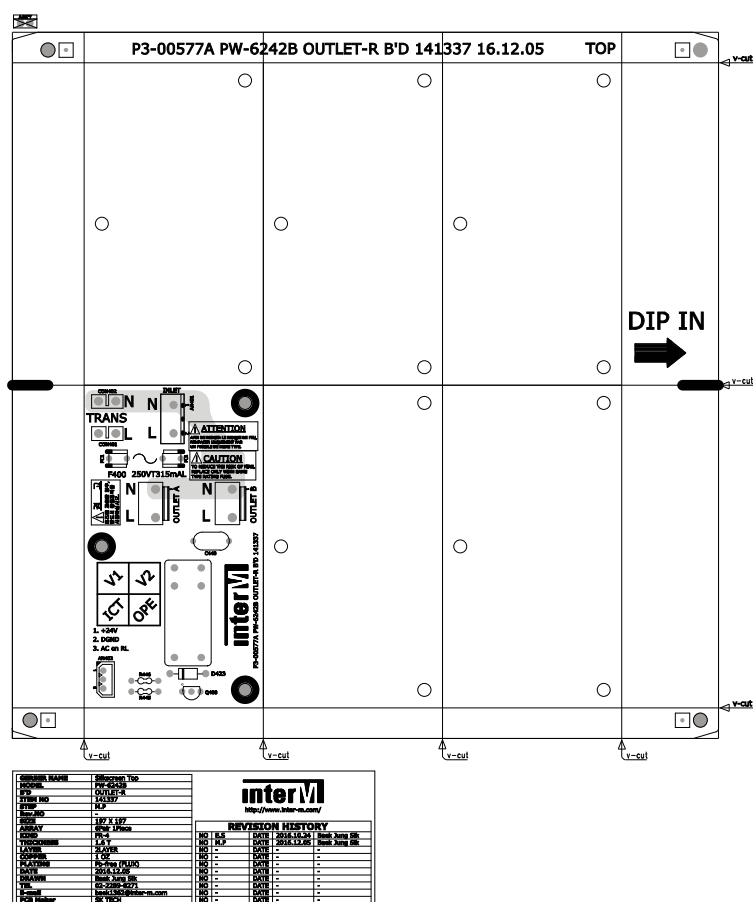


interM	
REVISION HISTORY	
REV.	DESCRIPTION
1.0	Initial Release
1.1	Minor Revision
1.2	Minor Revision
1.3	Minor Revision
1.4	Minor Revision
1.5	Minor Revision
1.6	Minor Revision
1.7	Minor Revision
1.8	Minor Revision
1.9	Minor Revision
2.0	Major Revision

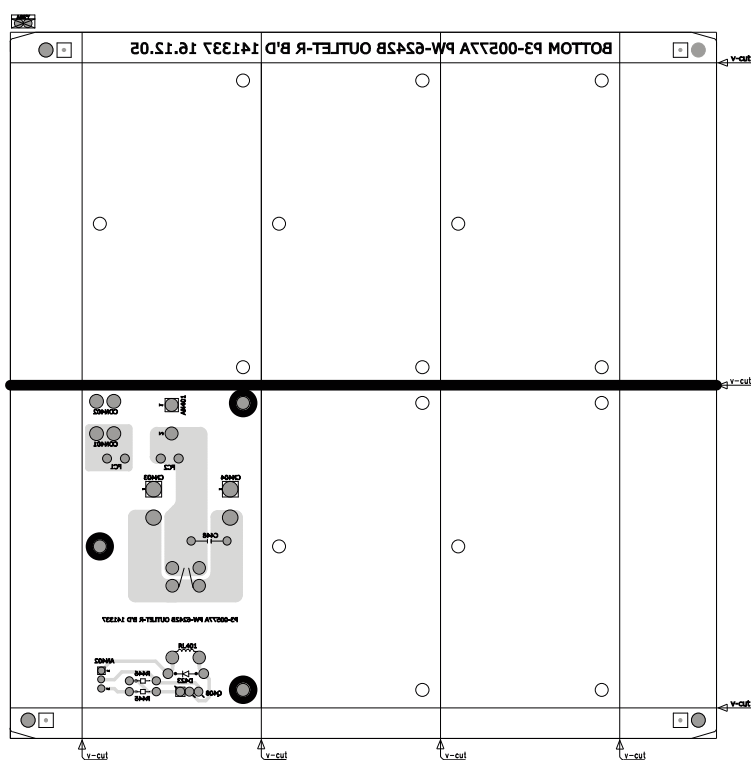


TOP & BOTTOM VIEW OF P.C BOARD

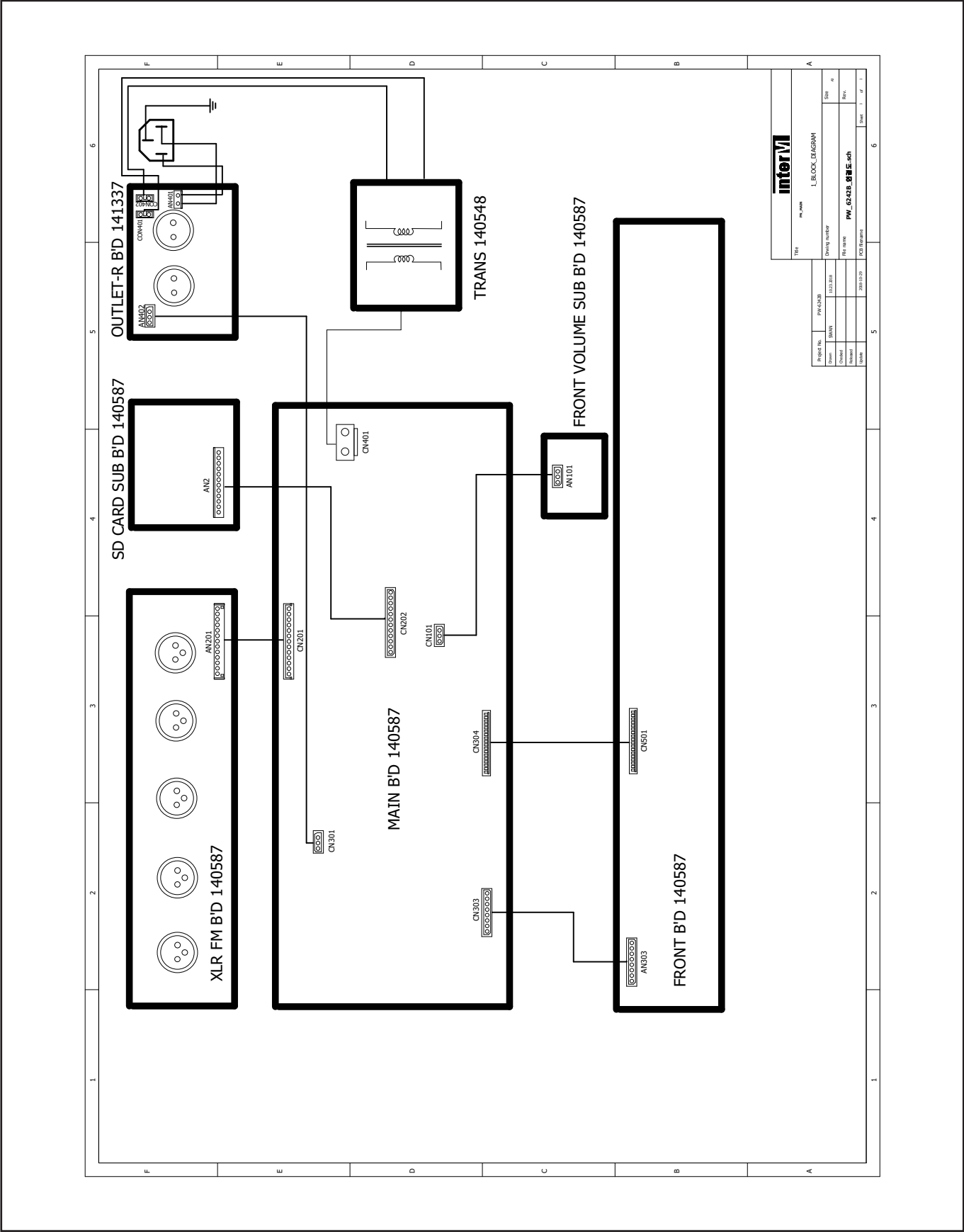
- OUTLET-R

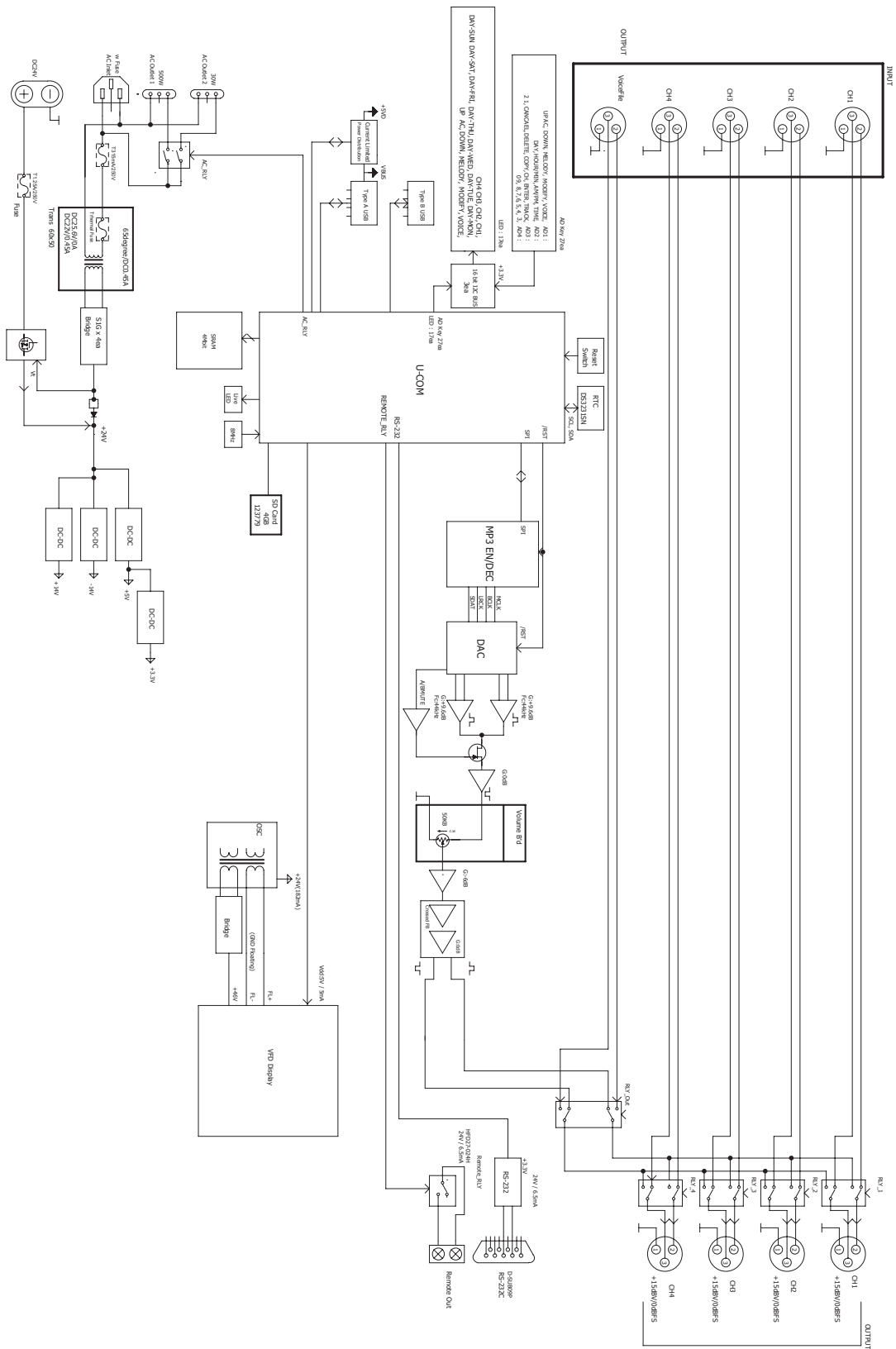


- OUTLET-R

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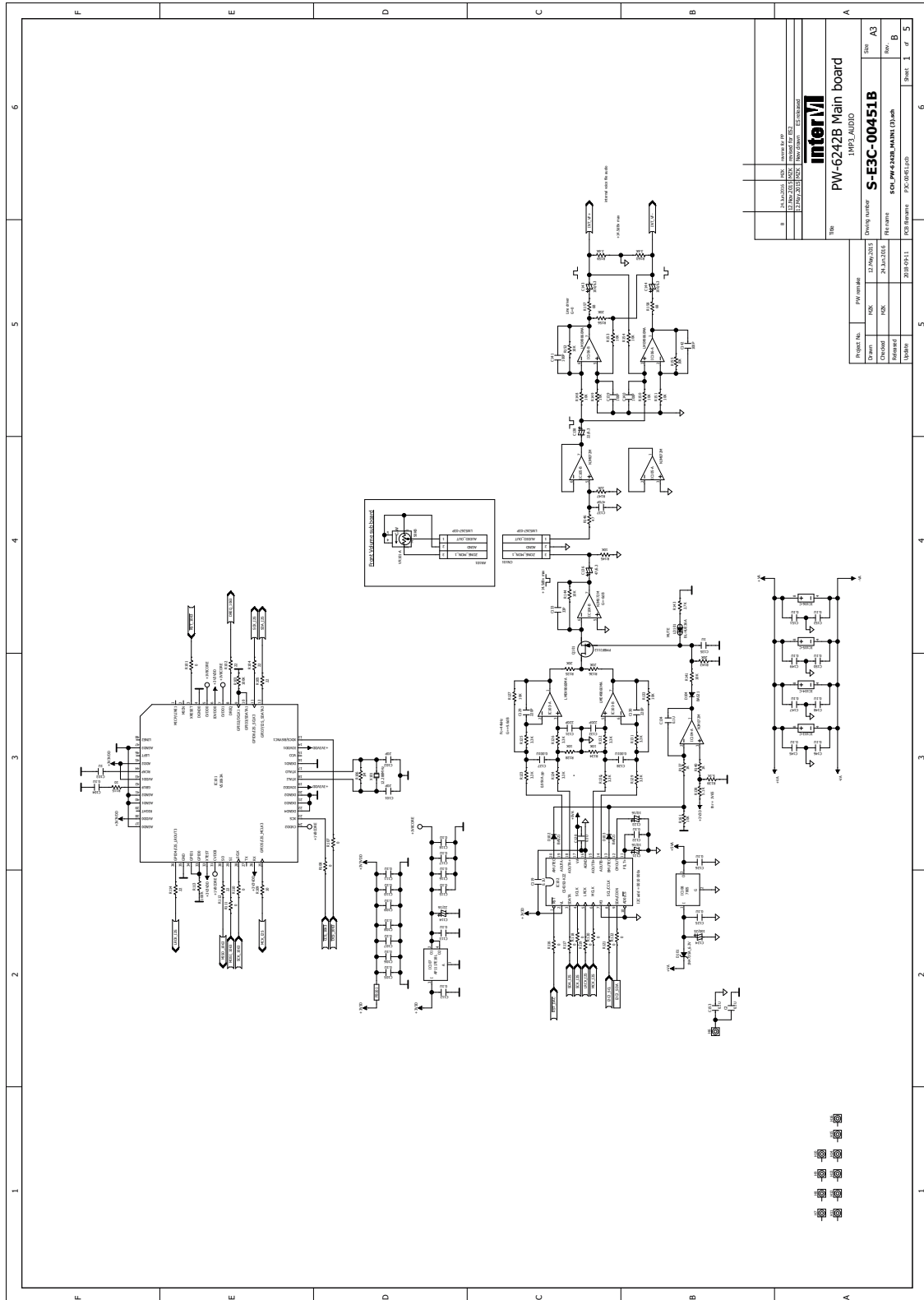
WIRING DIAGRAM





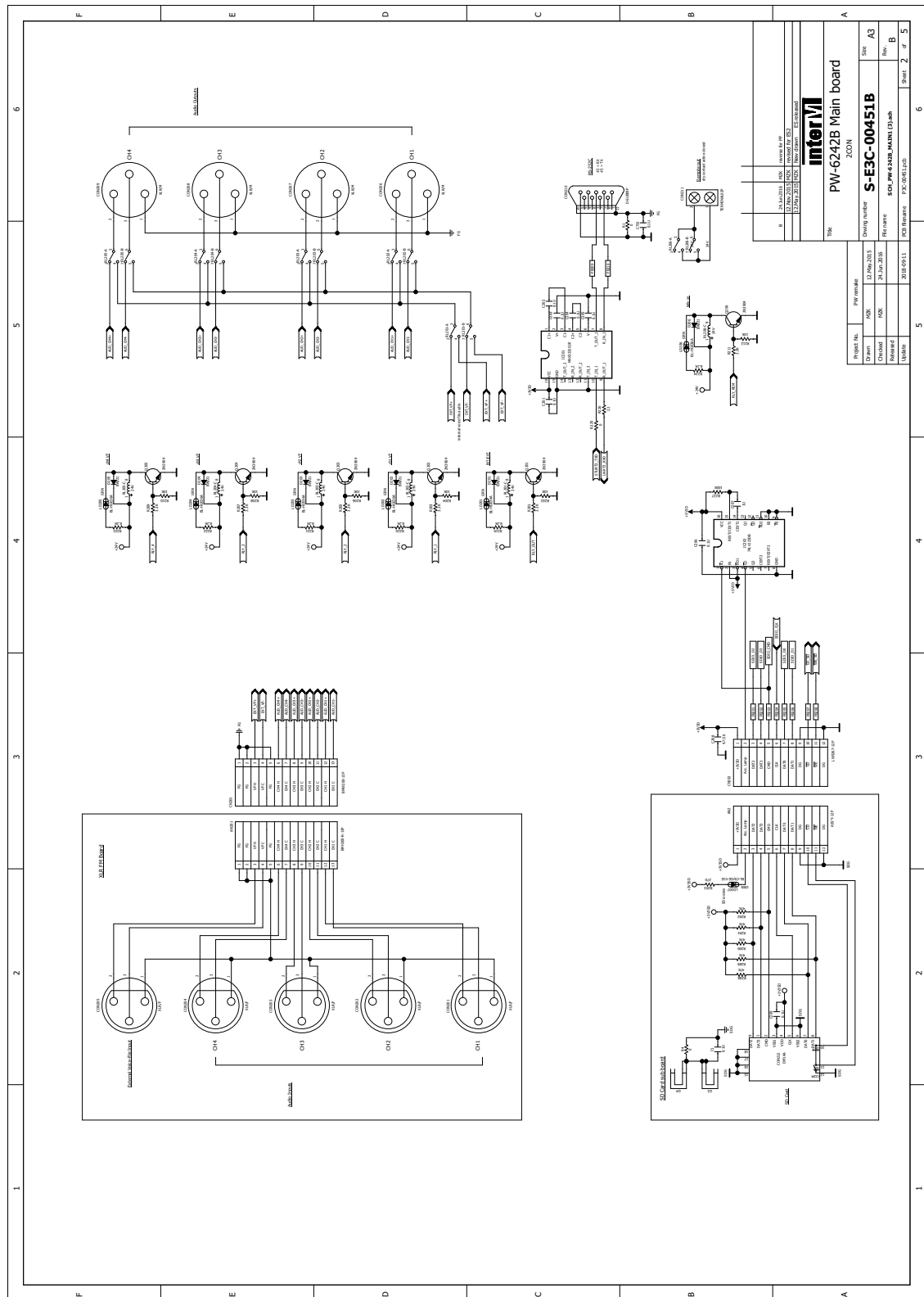
SCHEMATIC DIAGRAM

- MAIN



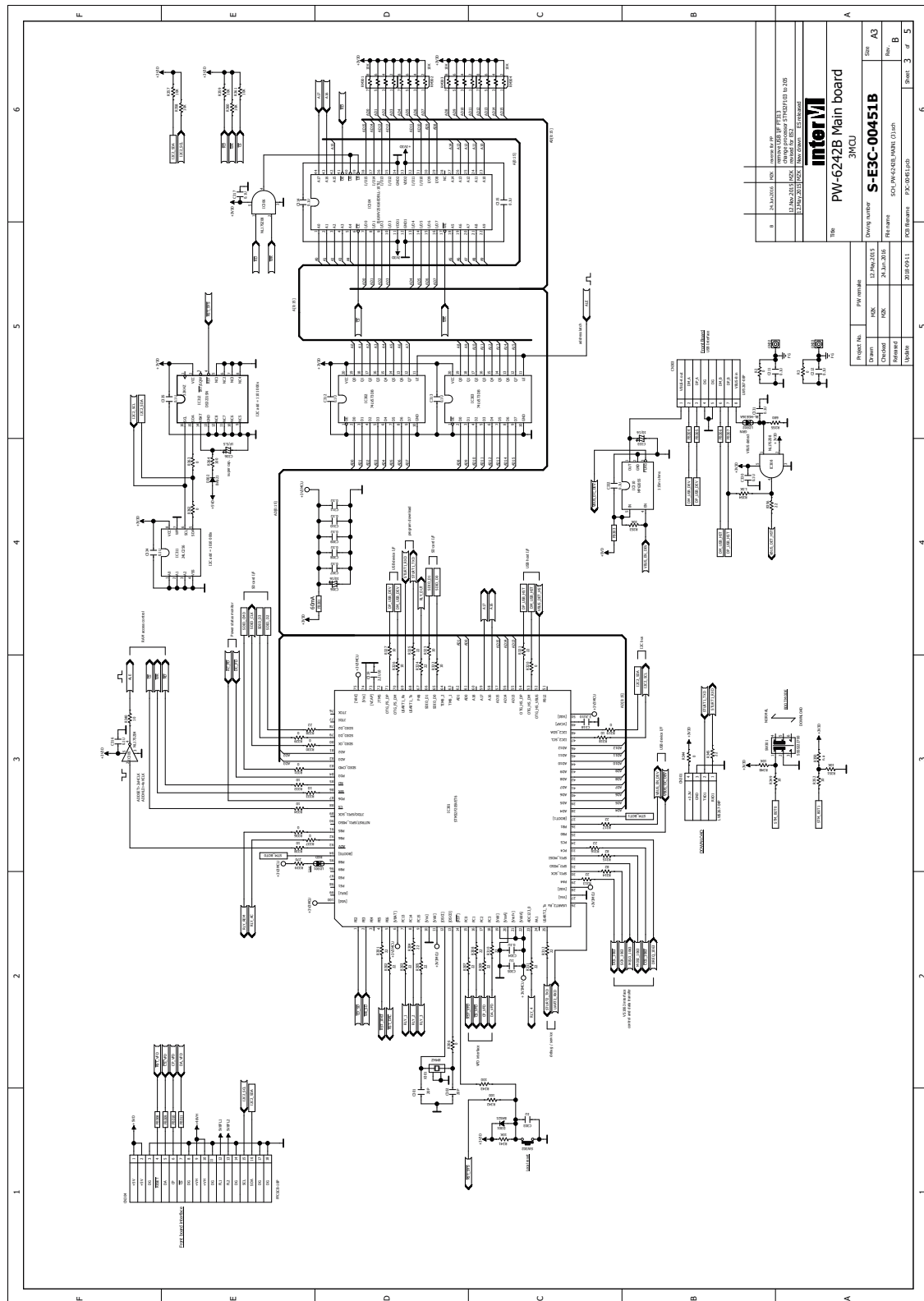
SCHEMATIC DIAGRAM

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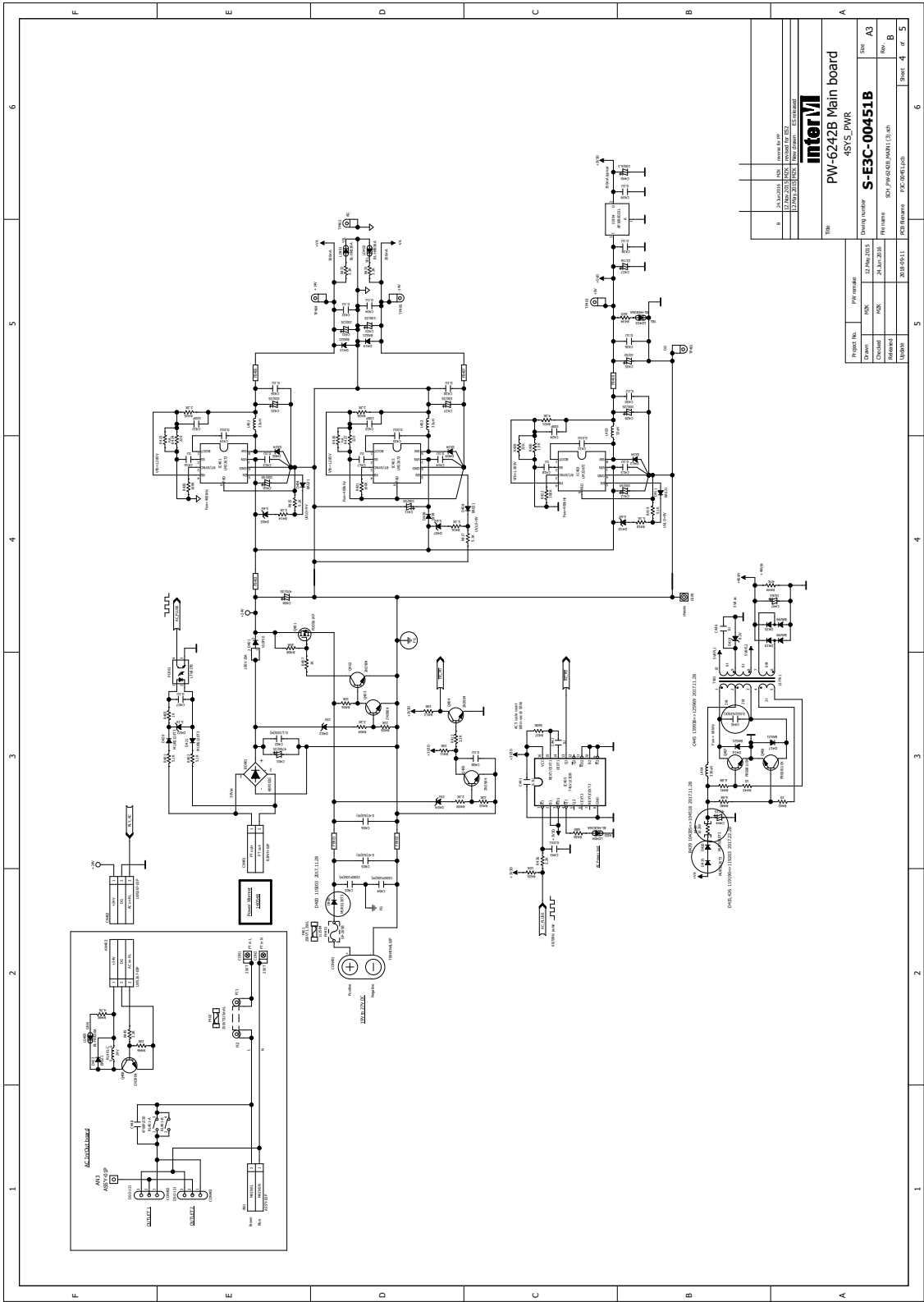
SCHEMATIC DIAGRAM

- MAIN



SCHEMATIC DIAGRAM

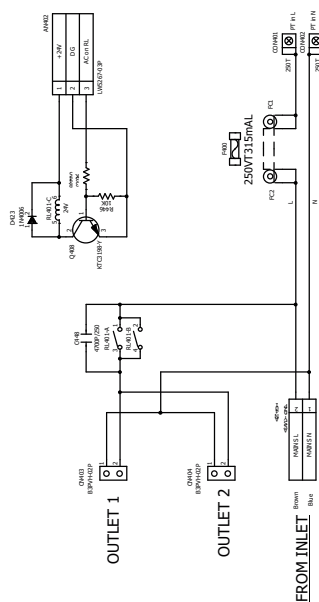
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16

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PW-6242B R

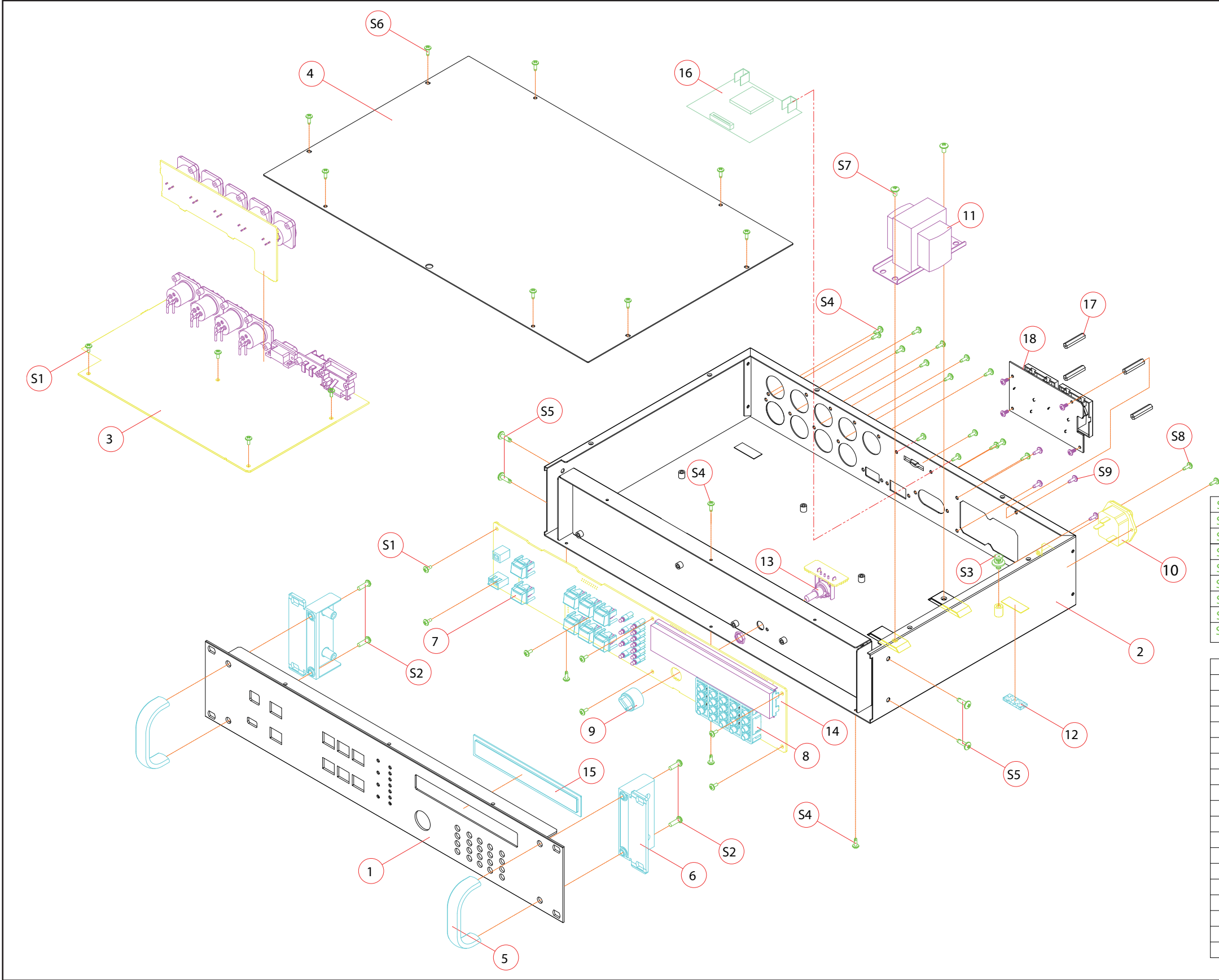


	
PW-6242B_Outlet B'd	
MAIN	
Drawing number	Size A4
File name PW-6242B_OUTLET_R_BD_1661006.sch	Rev.
PCB Filename	Sheet 1 of 1

Project No.	
Drawn	
Checked	
Revised	
Update	

PCB filename	Sheet 1 of 1
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EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST



EXPLODED VIEW OF CABINET & CHASSIS/MECHANICAL PARTS LIST

S9	SCREW BM 3X6B	114280	8
S8	SCREW #2FTC 3X8BK	114522	2
S7	SCREW 3WPTC 4x6B	114566	2
S6	SCREW #3BTC 3X6B	114487	8
S5	SCREW #2BTC 4X12B	114477	4
S4	SCREW #2BTC 3X8B	114465	19
S3	ASS'Y SCREW PM 4x8N	114412	2
S2	SCREW BM 4x15B	114299	4
S1	ASS'Y SCREW PM 3x6NI	126578	11

18	AC OUTLET B'D		1
17	STUD (H=29.8)	113615	4
16	SDCARD B'D		1
15	WINDOW	140346	1
14	FRONT B'D		-
13	VR B'D + NUT		-
12	FOOT	114114	2
11	POWER TRANS	103706	1
10	INLET AC	111736	1
9	CONTROL KNOB	101294	1
8	TACT KNOB 20KEY	130320	1
7	TACT KNOB(D)	101342	8
6	GUIDE HANDLE	114879	2
5	HANDLE,2U,6000SERIES	127710	2
4	ECS-6216PTOP COVER	128217	1
3	MAIN B'D		-
2	MAIN CHASSIS	137937	1
1	FRONT PANEL	2001866	1
NO	PARTS NAME	PARTS NUMBER	Q'TY

