

9CD8304600

Service Manual

Mini Component Sound System

**Model : XG-645/646/647/648
XG-6483**



DAEWOO DAT CO., LTD.

May. 2006



Mini component sound system

XG-645/646/647/648

XG-6483

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Safety Precautions

WARNING: TO PREVENT FIRE OR ELECTRIC SHOCK, DO NOT EXPOSE THIS APPLIANCE TO RAIN OR MOISTURE.

	CAUTION RISK OF ELECTRIC SHOCKS DO NOT OPEN	
CAUTION : TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.		
	THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF UNINSULATED "DANGEROUS VOLTAGE" WITHIN THE PRODUCT'S ENCLOSURE THAT MAY BE SUFFICIENT MAGNITUDE TO CONSTITUTE A RISK OF ELECTRIC SHOCK TO PERSONS.	
	THIS SYMBOL IS INTENDED TO ALERT THE USER TO THE PRESENCE OF IMPORTANT OPERATING AND MAINTENANCE (SERVICING) INSTRUCTIONS IN THE LITERATURE ACCOMPANYING THE APPLIANCE.	

CAUTION

TO PREVENT ELECTRIC SHOCK, DO NOT USE THIS POLARIZED AC PLUG WITH AN EXTENSION CORD, RECEPTACLE OR OTHER OUTLET UNLESS THE BLADES CAN BE FULLY INSERTED TO PREVENT BLADE EXPOSURE.

LASER SAFETY

THIS UNIT EMPLOYS A LASER. ONLY QUALIFIED SERVICE PERSONNEL SHOULD REMOVE THE COVER OR ATTEMPT TO SERVICE THIS DEVICE DUE TO POSSIBLE EYE INJURY.

CAUTION : USE OF ANY CONTROLS, ADJUSTMENTS, OR PROCEDURES OTHER THAN THOSE SPECIFIED HEREIN MAY RESULT IN HAZARDOUS RADIATION EXPOSURE.

CAUTION : TO PREVENT ELECTRIC SHOCK, MATCH WIDE BLADE OF PLUG TO WIDE SLOT, FULLY INSERT.

ATTENTION : POUR EVITER LES CHOCS ELECTRIQUES, INTRODUIRE LA LAME LA PLUS LARGE DE LA FICHE DANS LA BORNE CORRESPONDANTE DE LA PRISE ET POUSSER JUSQU'AU FOND.

Important Safety Instructions

- All the safety and operating instructions should be read before the appliance is operated.
 - The safety and operating instructions should be retained for future reference.
 - All warnings on the appliance and in the operating instructions should be adhered to.
 - All operating and use instructions should be followed.
1. Water and Moisture - The appliance should not be used near water - for example, near a bathtub, washbowl, kitchen sink,

laundry tub, in a wet basement, or near a swimming pool, and the like.

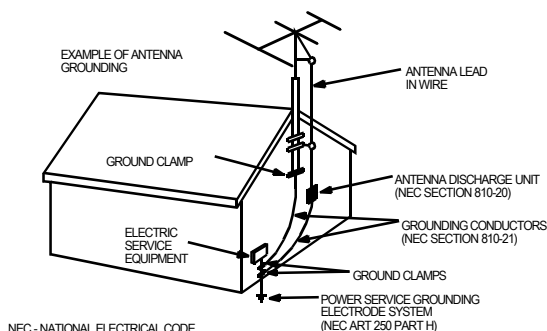
PORTABLE CART



Figure 2

2. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by the manufacturer.
3. An appliance and cart combination should be moved with care. Quick stops, excessive force, and uneven surfaces may cause the appliance and cart combination to overturn.
4. Wall or Ceiling Mounting - The appliance should be mounted to a wall or ceiling only as recommended by the manufacturer.
5. Ventilation - The appliance should be situated so that its location or position does not interfere with its proper ventilation. For example, the appliance should not be situated on a bed, sofa, rug, or similar surface that may block the ventilation openings; or, placed in a built-in installation, such as a bookcase or cabinet that may impede the flow of air through the ventilation openings.
6. Heat - The appliance should be situated away from heat sources such as radiators, heat registers, stoves, or other appliances (including amplifiers) that produce heat.
7. Power Sources - The appliance should be connected to a power supply only of the type described in the operating instructions or as marked on the appliance.
8. Grounding or Polarization - The precautions that should be taken so that the grounding or polarization means of an appliance is not defeated.
9. Power - Cord Protection - Power-supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords at plugs, convenience receptacles, and the point where they exit from the appliance.
10. Protective Attachment Plug - If the appliance is equipped with an attachment plug having overload protection. This is a safety feature. See Instruction Manual for replacement or resetting of protective device. If replacement of the plug is required, be sure the service technician has used a replacement plug specified by the manufacturer that has the same overload protection as the original plug.
11. Cleaning - The appliance should be cleaned only as recommended by the manufacturer.
12. Power Lines - An outdoor antenna should be located away from power lines.

13. Outdoor Antenna Grounding - If an outside antenna is connected to the receiver be sure the antenna system is grounded so as to provide some protection against voltage surges and built-up static charges. Article 810 of the National Electrical Code, ANSI/NFPA 70, provides information with regard to proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna-discharge unit, size of grounding conductors, location of antenna-discharge unit, connection to grounding electrodes and requirements for the grounding electrode. See Figure 1.



14. Non-use Periods - The power cord of the appliance should be unplugged from the outlet when left unused for a long period of time.

15. Object and Liquid Entry - Care should be taken so that objects do not fall and liquids are not spilled into the enclosure through openings.

16. Damage Requiring Service - The appliance should be serviced by qualified service personnel when:

- a) The power-supply cord or the plug has been damaged; or
- b) Objects have fallen, or liquid has been spilled into the appliance; or
- c) The appliance has been exposed to rain; or
- d) The appliance does not appear to operate normally or exhibits a marked change in performance; or
- e) The appliance has been dropped, or the enclosure damaged.

17. Servicing - The user should not attempt to service the appliance beyond that described in the operating instructions. All other servicing should be referred to qualified service personnel.

APPENDIX - ELECTRICAL PART LIST

PCB FUNCTION ASS'Y		9CDC082402 9CDC082400 9CDC082401	XG-6483 XG-646/7/8 XG-645
Locations	Part Code	Part Name	Description
B401	9CD6502800	PCB FUNCTION	197 X 122 X 1.6T
HD401 HD402	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)
HD403	DZDS160---	DIODE SW CHIP(XG-6483)	KDS160 (KDS511)
HQ401 HQ402	TZTC3875S-	TR CHIP(XG-647/83)	KTC3875Y
HZ401	DMTZ5R1B--	DIODE ZENER CHIP	UDZ5.1B 17X12
HZ402 HZ404	DMTZ3R6B--	DIODE ZENER CHIP	UDZ3.6B 17X12
IC451	1NJM4558M-	IC	NJM4558M
IC452	1NJM4558M-	IC(XG-6483)	NJM4558M
IC601	1BD3401KS2	IC PROCESSOR	BD3401KS2
J401	9736329000	JACK RCA	S-436P RED-WHITE
J403	9736322900	JACK RCA	RCA-108 YW
TU001	9737652901	TUNER MODULE	KST-ML104MV1-E66

PCB MP3CD ASS'Y		9CDC082500	XG-645/6/7/8/83
Locations	Part Code	Part Name	Description
B501	9CD6503700	PCB CD	96X96X1.6T FR-4
HQ501	TZRC107S--	TR CHIP	KRC107S
HQ502	TZRA107S--	TR CHIP	KRA107S
HQ503 HQ506	TZT1304--	TR CHIP	KTD1304
HQ504 HQ505	TZTA1504S-	TR CHIP	KTA1504Y
HZ500 HZ502	DMTZ5R6B--	DIODE ZENER CHIP	UDZ5.6B 17X12
HZ501	DMTZ3R9B--	DIODE ZENER CHIP	UDZ3.9B 17X12
IC501	1LC78691E-	IC CD MP3	LC78691E
IC502	1BA5927FM-	IC MOTOR DRIVE	BA5927FM
IC503	1LC87F14C8	IC USB DECODER	LC87F14C8A
L501 L502	HRF8000-CA	R CHIP	1/8 0 OHM J 2012
L504	HLC220J03A	COIL CHIP	22uH CHIP COIL 2012
Q502 Q503	TZSC2331Y-	TR	KSC2331Y AUTO
XC501	5XJ16R934C	X-TAL	HC-49/U 16.9344MHz 20PPM
XC571	5XE12M000J	CRYSTAL QUARTZ	12.000MHz

PCB USB ASS'Y		9CDC082302 9CDC082300	XG-6483 XG-645/6/7/8
Locations	Part Code	Part Name	Description
B701	9CD6503501	PCB USB JACK	247 X 163 X 1.6T
J702	9736329100	JACK	RCA-308HG video Jack
J703	9736329300	JACK USB	USAF-046N-WP-01
SW718 SW719	5S50101Z67A	SW TACT	SKQNAED010
SW720	5S50101Z67A	SW TACT(XG-6483)	SKQNAED010

PCB FRONT ASS'Y		9CDC082204 9CDC082201	XG-6483 XG-645/6/7/8
Locations	Part Code	Part Name	Description
B701	9CD6503500	PCB FRONT	247 X 197 X 1.6T
FD701	DHNA15MM38	VFD	HNA-15MM38
HD354 HD355 HD356 HD701 HD707 HD708 HD712 HD751	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)
HQ354 HQ355 HQ356 HQ713	TZTC3875S-	TR CHIP	KTC3875Y
HQ701 HQ717 HQ719 HQ720 HQ723	TZRC107S--	TR CHIP	KRC107S
HQ711 HQ712 HQ751 HQ752 HQ755	TZRC111S--	TR CHIP	KRC111S
HQ714 HQ715 HQ716 HQ718 HQ724 HQ757	TZRA111S--	TR CHIP	KRA111S
HQ753 HQ754	TZTD1304--	TR CHIP	KTD1304
IC352	1NJM4558M-	IC	NJM4558M
IC701	1876B64V0-	IC	LC876B48C
IC702	1M24C04MN-	IC	M24C04MN S0P
IC703	1MSGEQ5A--	IC	MSGEQ5A
IC704	1F4094BM1T	IC	HCF4094M013TR
IC705	1BA4560F--	IC H/P AMP	BA4560F
IC706	1HK381B-DW	IC PRE AMP	HK381BT-DW
J352 J701	9736325300	JACK H/P	HTJ-035-18A
SW701 SW702 SW703 SW704 SW705 SW706 SW707 SW708 SW709 SW710 SW711 SW712 SW713 SW715 SW716 SW717 SW721 SW722 SW723 SW724 SW725 SW726 SW727	5S50101Z67A	SW TACT	SKQNAED010
VR352	5V1503730B	VOL MIC	XV09211NPV20F1B50K
VR701, VR702	5SH1224375	SW ENCODER	RE0123PVB25FINB 1-2-24 PCE
XC701	5PZTT10MT-	RESONATOR CERA	ZTT10.00MT(10MHz, 3PIN)
XC702	5XA32R768C	X-TAL	C38T 32.768KHz 20PPM

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PCB AMP ASS'Y	9CDC082700	Digital	XG-6483
	9CDC082602	Digital	XG-648
	9CDC082601	Digital	XG-647
	9CDC082600	Digital	XG-646
Locations	Part Code	Part Name	Description
B801	9CD6503100	PCB AMP DIGITAL(XG-646)	132X130.8X1.6T FR-4
	9CD6503100	PCB AMP DIGITAL(XG-647)	132X130.8X1.6T FR-4
	9CD6503200	PCB AMP DIGITAL(XG-6483)	132X130.5 FR4
HD805 HD811 HD812 HD813 HD815 HD816 HD817 HD818	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)
HD819 HD820 HD827 HD828	DZDS160---	DIODE SW CHIP(XG-6483)	KDS160 (KDS511)
HQ801 HQ803 HQ807 HQ809 HQ810 HQ811 HQ827 HQ829	TZTA1504S-	TR CHIP	KTA1504Y
HQ831 HQ834 HQ836	TZTA1504S-	TR CHIP(XG-6483)	KTA1504Y
HQ802	TMMBTA06--	TR CHIP	MMBTA06
HQ833	TMMBTA06--	TR CHIP(XG-6483)	MMBTA06
HQ804	TMMBTA56--	TR CHIP	MMBTA56
HQ835	TMMBTA56--	TR CHIP(XG-6483)	MMBTA56
HQ805 HQ806 HQ808 HQ812 HQ813 HQ814 HQ815 HQ817 HQ818 HQ819 HQ823 HQ828	TZTC3875S-	TR CHIP	KTC3875Y
HQ816 HQ832	TZTC3875S-	TR CHIP(XG-6483)	KTC3875Y
HQ820	TZRA111S--	TR CHIP	KRA111S
HQ821 HQ822 HQ830	TZRC111S--	TR CHIP(XG-6483)	KRC111S (THERMAL DETECTION)
HQ824 HQ825	TEMT2-----	TR CHIP	EMT2 2SA1037AK X 2
HQ826	TEMX2-----	TR CHIP	EMX2 2SC2412AK X 2
HZ801 HZ802 HZ803 HZ804	DMTZ10B---	DIODE ZENER CHIP	UDZ10B 17X12
HZ806 HZ807	DMTZ10B---	DIODE ZENER CHIP(XG-6483)	UDZ10B 17X12
HZ805	DRLZ2R7B--	DIODE ZENER CHIP	RLZ2.7B
HZ808	DRLZ2R7B--	DIODE ZENER CHIP(XG-6483)	RLZ2.7B
IC801	1S1A0071--	IC AUDIO PROCESSOR	S1A0071_401
IC807	1S1A0071--	IC AUDIO PROCESSOR(XG-6483)	S1A0071_401
IC802	1S1A0051X-	IC FET DRIVER	S1A0051X
IC808	1S1A0051X-	IC FET DRIVER(XG-6483)	S1A0051X
IC803	1KIA7905AP	IC REGULATOR	KIA7905AP
IC804	1KIA7805AP	IC REGULATOR	KIA7805AP
IC806	1NJM4558M-	IC	NJM4558
J801	9736320500	JACK SPEAKER(XG-646/7)	CJ9007-040
J801	9736330400	JACK SPEAKER(XG-6483)	PTB-801S1
L801 L802	5LF150K855	COIL FILTER	15uH(TC16B-09)
L803	5LF150K855	COIL FILTER(XG-6483)	15uH(TC16B-09)
Q801 Q803	DFQF15P12-	FET	FQPF15P12
Q805	DFQF15P12-	FET(XG-6483)	FQPF15P12
Q802 Q804	DFQF16N15-	FET	FQPF16N15
Q806	DFQF16N15-	FET(XG-6483)	FQPF16N15
R829	HRFR047JLCR	R CHIP(XG-646/7)	1W 0.047 OHM 64X32 5%(MCR100JZHJSR047) (64x)
R829	HRFR091JLCR	R CHIP(XG-6483)	1W 0.091 OHM 64X32 5%(MCR100JZHJSR091) 6483
R830	HRFR091JLCR	R CHIP(XG-6483)	1W 0.091 OHM 64X32 5%(MCR100JZHJSR091) 6483
R832	HRFR047JLCR	R CHIP(XG-6483)	1W 0.047 OHM 64X32 5%(MCR100JZHJSR047) (64x)
R853	HRFR047JLCR	R CHIP	1W 0.047 OHM 64X32 5%(MCR100JZHJSR047) (64x)
R816	RS03Y100J-	R METAL OXIDE FILM(XG-646/7)	3W 10 OHM J
R 817 R847 R848	RS03Y100J-	R METAL OXIDE FILM	3W 10 OHM J
TH801	DTD5410K--	THERMISTOR(XG-6483)	FTD5-410 100K OHM +/- 10% LUG (THERMAL DETECTION)
PCB AMP ASS'Y	9CDC076302	ANALOG	XG-645
B800	9CD6598300-02	PCB AMP	197X197X1.6T
D801 D802	DZN4148---	DIODE	IN4148 AUTO 52MM
IC801	1STK433060	IC	STK433-060
J801	9736320500	JACK SPEAKER	CJ9007-040
Q801 Q802	TZTD1302Y-	TR	KTD1302Y AUTO
Q803 Q804	TZRA111M--	TR	KRA111M(KSR2010) AUTO
Q805	TZTC3198Y-	TR	KTC3198Y (2SC5343) AUTO
R801 R802 R824	RD-AZ222J-	R CARBON FILM	1/6 2.2K OHM J
R803 R804 R827	RD-AZ102J-	R CARBON FILM	1/6 1K OHM J
R805 R806	RD-AZ104J-	R CARBON FILM	1/6 100K OHM J
R807 R808	RD-AZ471J-	R CARBON FILM	1/6 470 OHM J
R809 R810 R833 R834	RD-AZ563J-	R CARBON FILM	1/6 56K OHM J
R811 R812	RD-AZ182J-	R CARBON FILM	1/6 1.8K OHM J
R817 R818	RS-4Z100J-	R METAL OXIDE FILM	1/4 10 OHM J
R823 R863	RD-AZ472J-	R CARBON FILM	1/6 4.7K OHM J
R825	RD-AZ333J-	R CARBON FILM	1/6 33K OHM J
R826	RD-AZ682J-	R CARBON FILM	1/6 6.8K OHM J
R828 R829	RS-4Z101J-	R METAL OXIDE FILM	1/4 100 OHM J
R835 R836	RN02B228JS	R METAL FILM	2W 0.22 OHM J
R860	RD-AZ223J-	R CARBON FILM	1/6 22K OHM J
R861 R862	RS-4Z100J-	R METAL OXIDE FILM	1/4 10 OHM J

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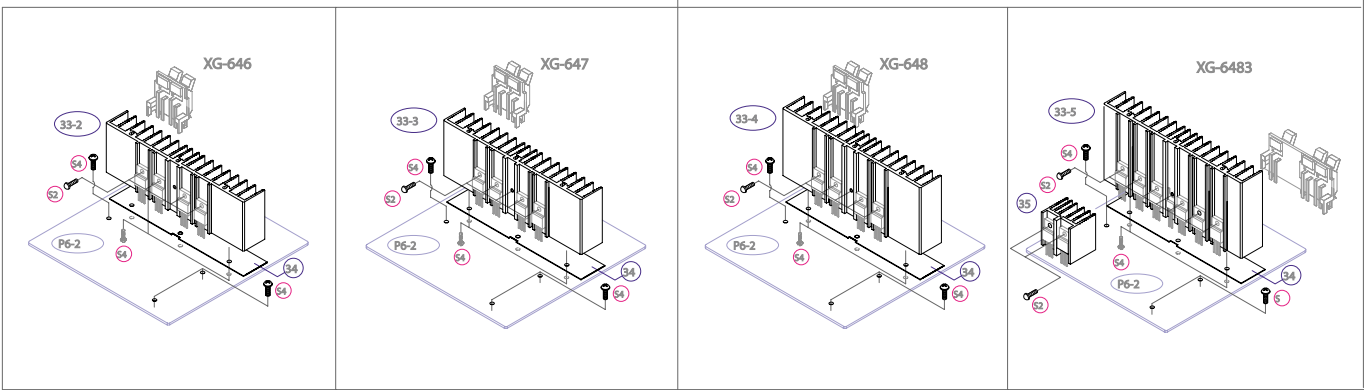
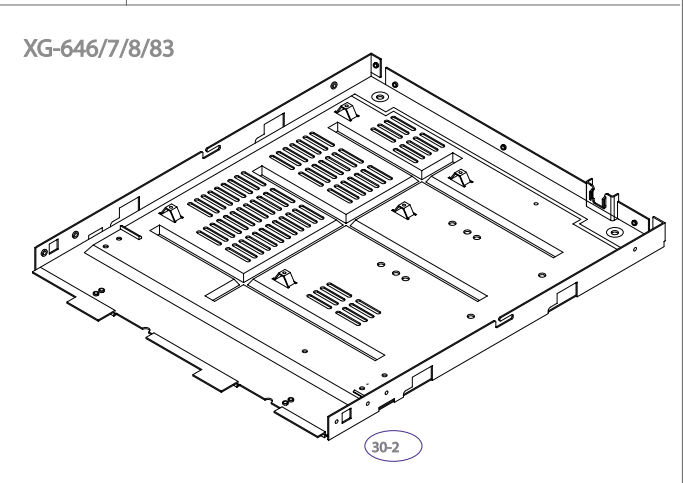
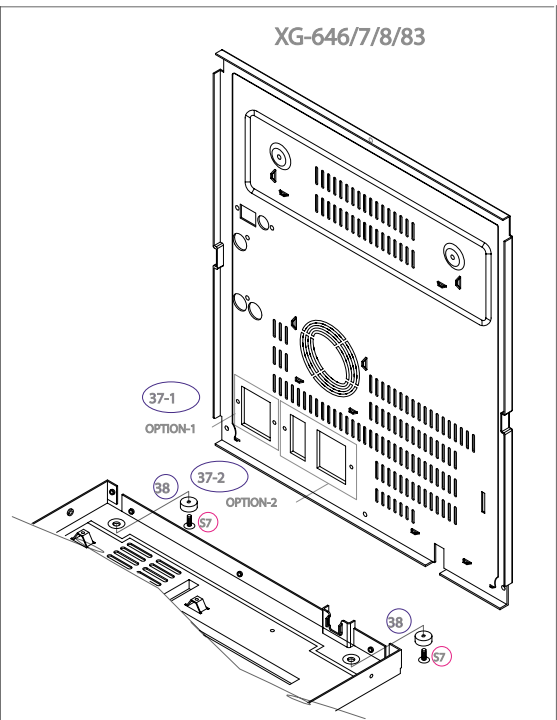
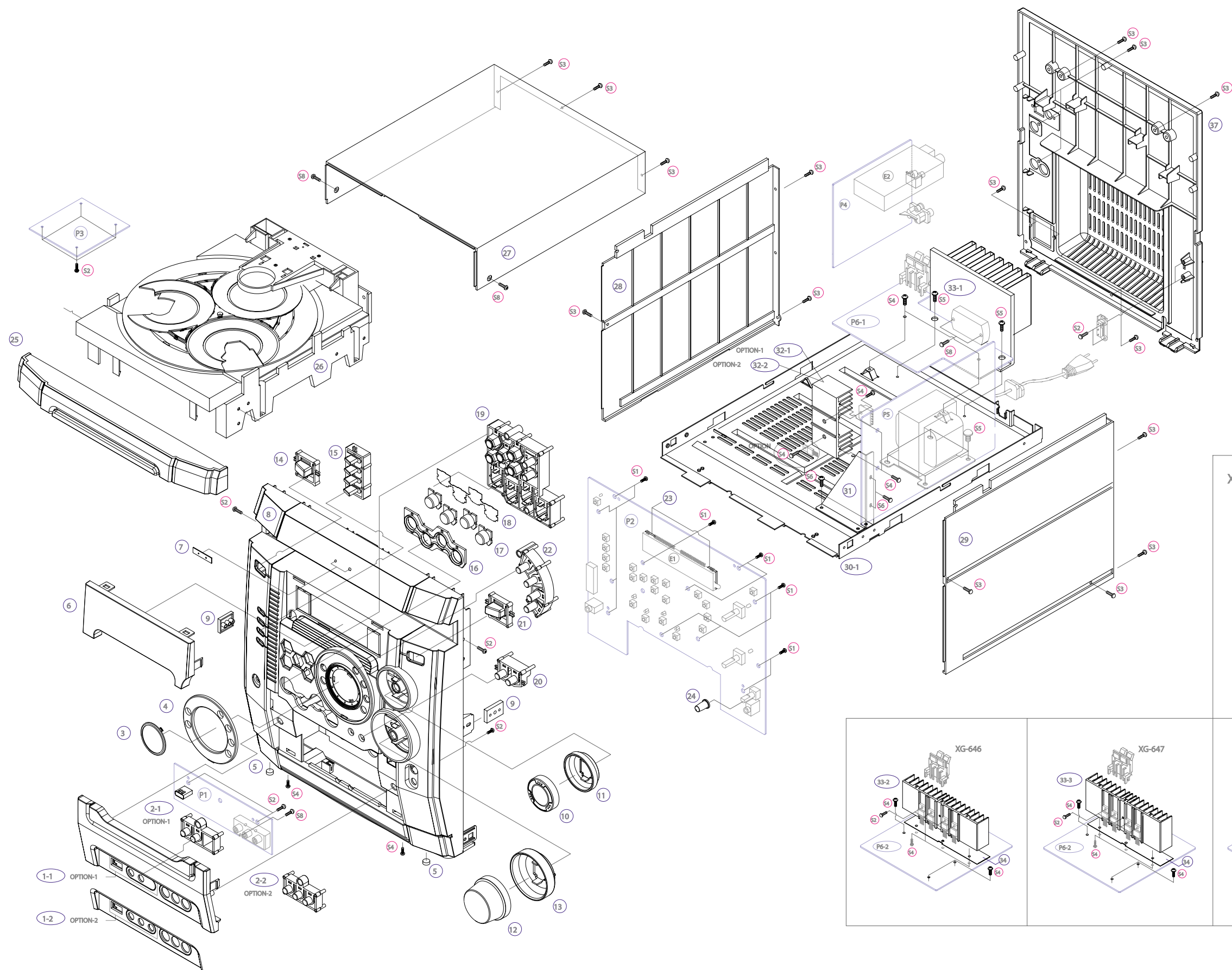
PCB POWER ASS'Y	9CDC083001		XG-6483
	9CDC083200		XG-648
	9CDC082901		XG-647
	9CDC082801		XG-646
Locations	Part Code	Part Name	Description
B901	9CD6503000	PCB POWER	197X139X1.6T CEM-1
	9CD6505900	PCB POWER	197X139X1.6T CEM-1
CC980	CLYL2G472M	C LINE ACROSS	DE1307E 472M VA1-KC (FORMING)
CD901	9736909300	CORD AC	KKP 419C KLCE-2F 0.75 SQU
D904 D905	DRL202----	DIODE	RL202
D917	DKBJ604G--	DIODE	KBJ604G
F902	5FSGB1222R	FUSE GLASS TUBE(XG-645)	VDE N/T 1.25A 250V
	5FSGB1622L	FUSE GLASS TUBE(XG-646)	VDE TL 1.6A 250V MF51
	5FSGB2522L	FUSE GLASS TUBE(XG-647)	VDE TL 2.5A 250V MF51
	5FSGB3122L	FUSE GLASS TUBE(XG-648)	VDE TL 3.15A 250V MF51
	5FSGB3122L	FUSE GLASS TUBE(XG-6483)	VDE TL 3.15A 250V MF51
HD901 HD995	DZDS160---	DIODE SW CHIP	KDS160(KDS511)
HD902 HD903 HD906 HD907 HD992 HD993 HD994	D1SR154---	DIODE RECTIFIER	1SR154-400 4526
HD991	D1SR154---	DIODE RECTIFIER(XG-645)	1SR154-400 4526
HD995	DZDS160---	DIODE SW CHIP	KDS160(KDS511)
HQ902	TZTC3875S-	TR CHIP	KTC3875Y
HQ903	TZRA111S--	TR CHIP	KRA111S
HQ904	TZRC107S--	TR CHIP	KRC107S
HQ905	T2SA2071--	TR CHIP	2SA2071
HQ991	T2SC5824--	TR CHIP	2SC5824
HZ902	DMTZ12B---	DIODE ZENER CHIP	UDZ12B 17X12
HZ903	DMTZ30B---	DIODE ZENER CHIP	UDZ30B 17X12
HZ904 HZ905	DMTZ10B---	DIODE ZENER CHIP	UDZ10B 17X12
HZ904 HZ905	DRLZ5R6B--	DIODE ZENER CHIP(XG-645)	RLZ5.6B
IC901	1L4959----	IC	L4959
IC991	1AIC1117CY-	IC REGULATOR	AIC117-CY
PT901	5TP0074951	TRANS POWER(XG-645)	EI=74X42 127/220V,60/50Hz
	5TP8066965	TRANS POWER(XG-646)	EI=66X45 230V/50Hz
	5TP8074967	TRANS POWER(XG-647)	EI=74X52 230V/50Hz
	5TP8074958	TRANS POWER(XG-648)	EI=74X62 230V/50Hz
	5TP8074969	TRANS POWER(XG-6483)	EI=74X62 230V/50Hz
PT992	5TP8028829	TRANS POWER	EI=28X12 230V 50HZ
Q901	TZTA1046Y-	TR	KTA1046Y (KTA1366Y) AUTO
R991	RN-2Y475J-	R METAL FILM	1/2W 4.7M OHM J
RF901 RF902	RF01F4780J-32	R FUSEABLE	1W 0.47 OHM (32 times)
RY991	5SC2001A01	SW RELAY	SDT-S-105LMR

REMOCON ASS'Y

9CDM062503 (without RDS function) : AM-52M

9CDM062601 (with RDS function) : AM-52MR

Exploded View and Mechanical Parts List



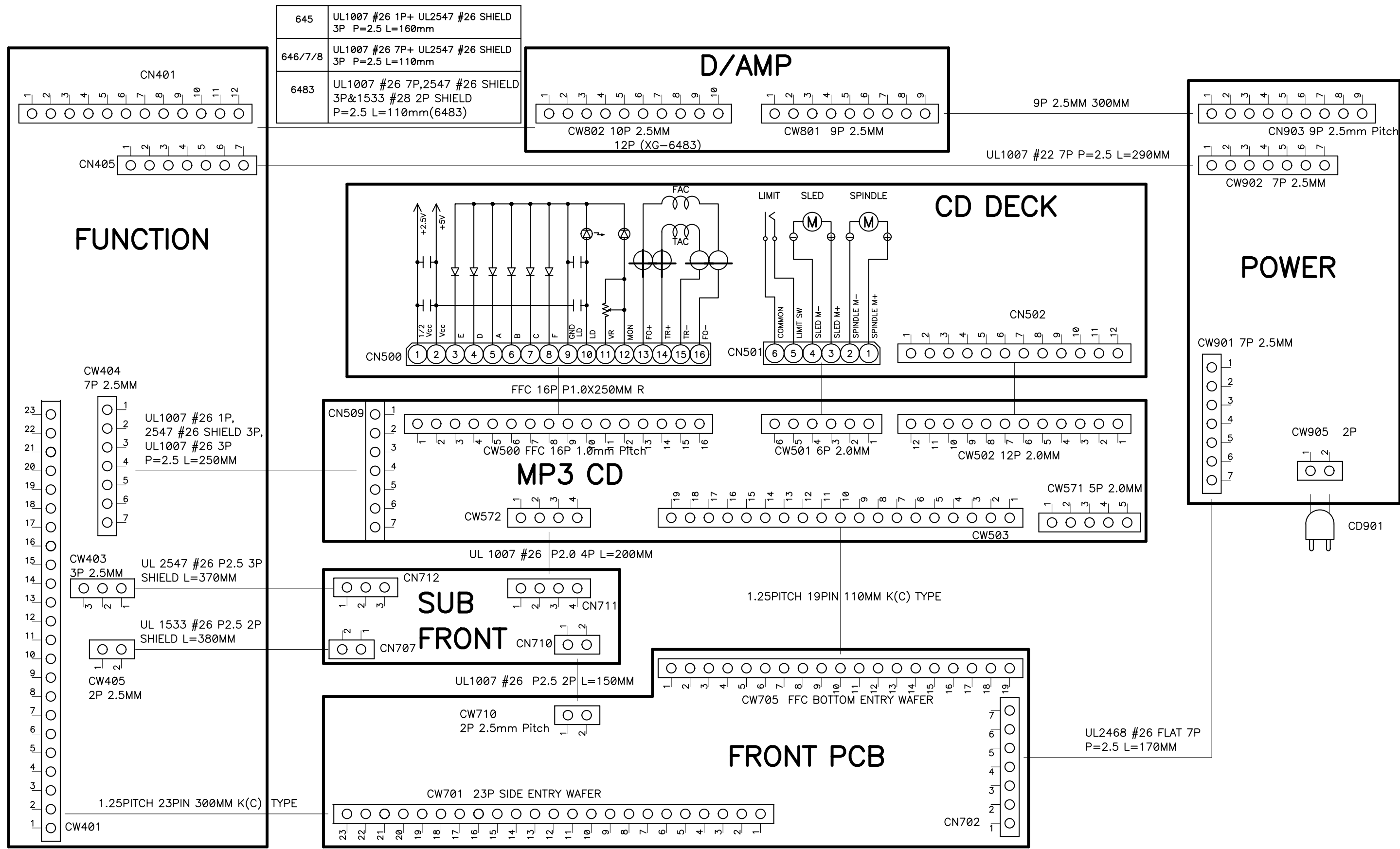
Exploded View and Mechanical Parts List

NO	PARTS NAME	CODE NO.	DESCRIPTIONS	Q'TY	REMARKS
1-1	DOOR JACK	9CD1816701		1	FOR XG-645/6/7/8, OPTION
1-2		9CD1816702	HIPS, SPRAY, SILK	1	FOR XG-6483, OPTION
2-1	KNOB GAME	9CD1358900	HIPS, SPRAY	1	FOR XG-645/6/7/8, OPTION
2-2		9CD1358901	HIPS, SPRAY	1	FOR XG-6483, OPTION
3	DECO DOOR	9CD1006000	ABS, CrO2 PLATING	1	
4	DECO WINDOW	9CD1624500	ACRYL, SILK	1	
5	CUSHION FOOT	9CD4207700	URETHANE D10*4.0T	2	
6	WINDOW FLT	9CD1623900	ACRYL, SMOG, SILK	1	
7	BADGE BRAND	9CD1505300	AL	1	DAEWOO
8	PANEL FRONT	9CD0316100	HIPS, SPRAY, SILK	1	
9	BRACKET SIDE	9CD2412900	ABS	2	
10	KNOB JOG	9CD1358700	HIPS, SPRAY	1	
11	DECO JOG	9CD1009800	ACRYL	1	
12	KNOB VOL.	9CD1358200	ABS, Cr2O PLATING	1	ELECTRO FORMING
13	DECO VOL.	9CD1008600	ACRYL	1	
14	KNOB POWER	9CD1357700	ABS, SPRAY, SILK	1	
15	KNOB GEQ	9CD1357900	HIPS, SPRAY	1	
16	DECO FUNCTION	9CD1009900	ABS, CrO2 PLATING	1	
17	LENS FUNCTION	9CD1624600	ACRYL, SILK	1	
18	PLATE FILTER	9CD0915200	PC T0.15	1	
19	KNOB PRESET	9CD1359000	HIPS, SPRAY, SILK	1	
20	KNOB SLEEP	9CD1359100	HIPS, SPRAY, SILK	1	
21	KNOB OPEN	9CD1357800	ABS, SPRAY, SILK	1	
22	KNOB DISC	9CD1358800	HIPS, SPRAY, SILK	1	
23	CUSHION FLT	9CD4210300	EVA FOAM T3.0	2	
24	KNOB MIC.	9CD1354900	HIPS, SPRAY	1	
25	DOOR CD	9CD1816500	HIPS, SPRAY, SILK	1	
26	CD DECK MECHA	9CD6012901	DCC-01DA	1	
27	COVER TOP	9CD0409600	HIPS	1	
28	COVER SIDE "L"	9CD04177L0	HIPS	1	
29	COVER SIDE "R"	9CD04177R0	HIPS	1	
30-1	CHASSIS BOTTOM	9CD0611400	SECC T1.0	1	FOR XG-645, OPTION
30-2	CHASSIS BOTTOM	9CD0612600	SECC T1.0	1	FOR XG-646/7/8/83, OPTION
31	BRACKET PCB D	9CD2417800	SECC T1.0	1	

NO	PARTS NAME	CODE NO.	DESCRIPTIONS	Q'TY	REMARKS				
32-1	HEATSINK PW	9CD4409701	AL, H=37mm	1	FOR XG-645/6/7, OPTION				
32-2		9CD4409710	AL, H=47mm	1	FOR XG-648/83, OPTION				
33-1	HEATSINK 50	9CD4409500	AL	1	FOR XG-645, OPTION				
33-2	HEATSINK 75W	9CD4411800	AL H=35	1	FOR XG-646, OTPION				
33-3	HEATSINK 120W	9CD4411900	AL H=45	1	FOR XG-647, OPTION				
33-4	HEATSINK AMP 150	9CD4410400	AL H=60	1	FOR XG-648, OPTION				
33-5	HEATSINK 2.1CH	9CD4412000	AL H=65	1	FOR XG-6483, OPTION				
34	PLATE PCB AMP	9CD0914600	PC	1					
35	HEAT SINK IC	9CD4408100	AL	1	ONLY XG-6483, OPTION				
36	COVER BACK	9CD0417605	HIPS	1	FOR XG-645, OPTION				
37-1	CHASSIS BACK	9CD0612500	SECC T0.8	1	FOR XG-646/7/8, OPTION				
37-2		9CD0612501	SECC T0.8	1	FOR XG-6483, OPTION				
38	RUBBER FOOT	9CD0801000	RUBBER	2	FOR XG-646/7/8/83, OPTION				
					645	646	647	648	6483
S1	SCREW TAPTITE	7173261011	TT2 BIN 2.6*10 MFZN		12	12	12	12	12
S2	SCREW TAPTITE	7173301011	TT2 BIN 3*10 MFZN		12	16	16	16	21
S3	SCREW TAPTITE	7173301212	TT2 BIN 3*12 MFZN BK		19	19	19	19	19
S4	SCREW TAPTITE	7173300811	TT2 BIN 3*8 MFZN		6	11	11	11	11
S5	SCREW TAPTITE	7173400611	TT2 BIN 4*6 MFZN		6	4	4	4	4
S6	SCREW TAPTITE	7173300611	TT2 BIN 3*6 MFZN		4	4	4	4	4
S7	SCREW TAPTITE	9CD3102403	TT2 BIN 3*10 WAS +D8		X	2	2	2	2
S8	SCREW TAPTITE	7173301411	TT2 BIN 3*14 MFZN		5	3	3	3	3
P1	PCB JACK			1					
P2	PCB FRONT			1					
P3	PCB CD			1					
P4	PCB FUNCTION			1					
P5	PCB POWER			1					
P6-1	PCB AMP			1	FOR XG-645, OPTION				
P6-2	PCB AMP			1	FOR XG-646/7/8/83, OPTION				
E1	VFD			1					
E2	TUNER MODULE			1					

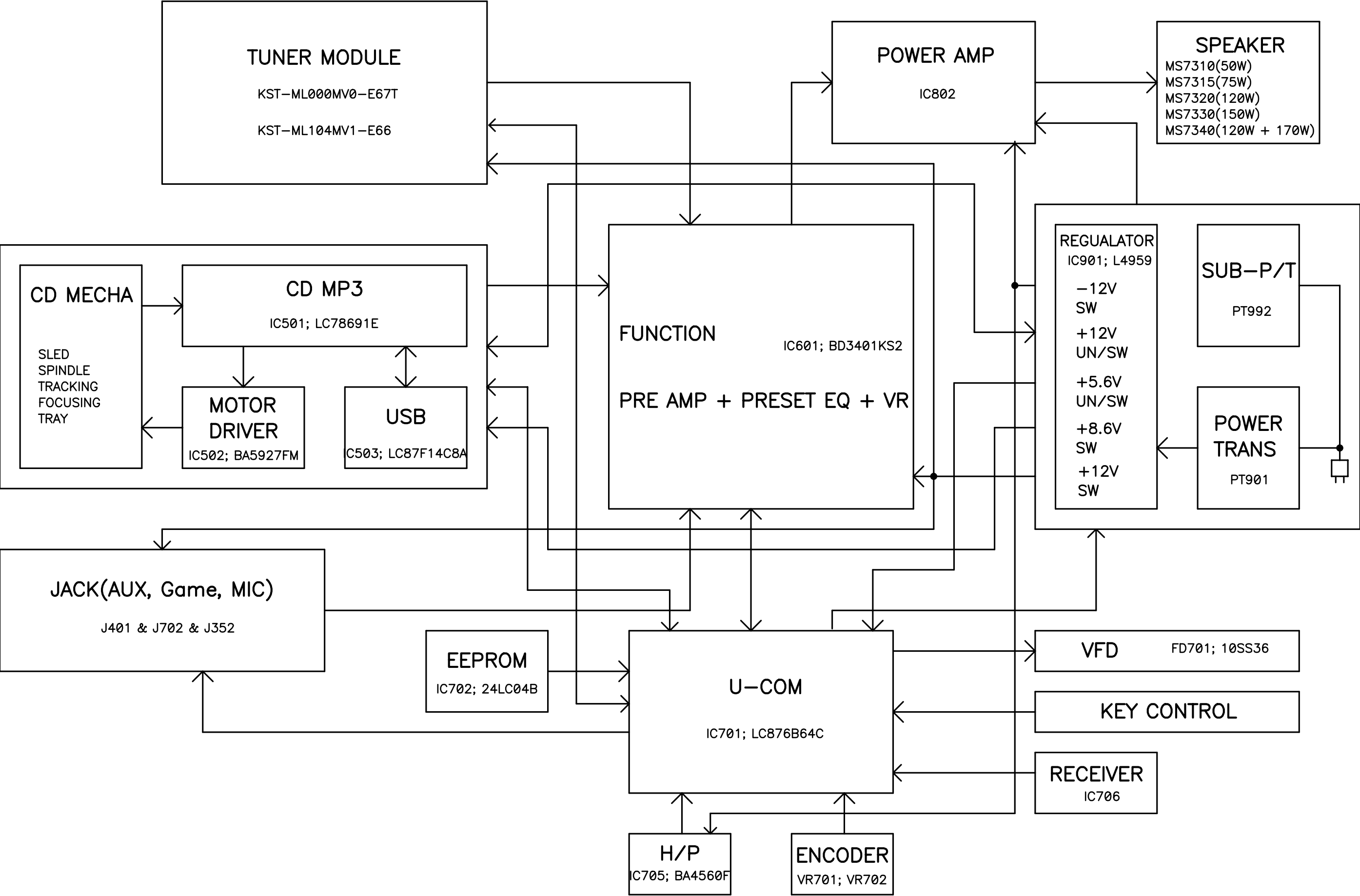
Wiring Diagram

● XG-645/ 646/ 647/ 648/ 6483 Models



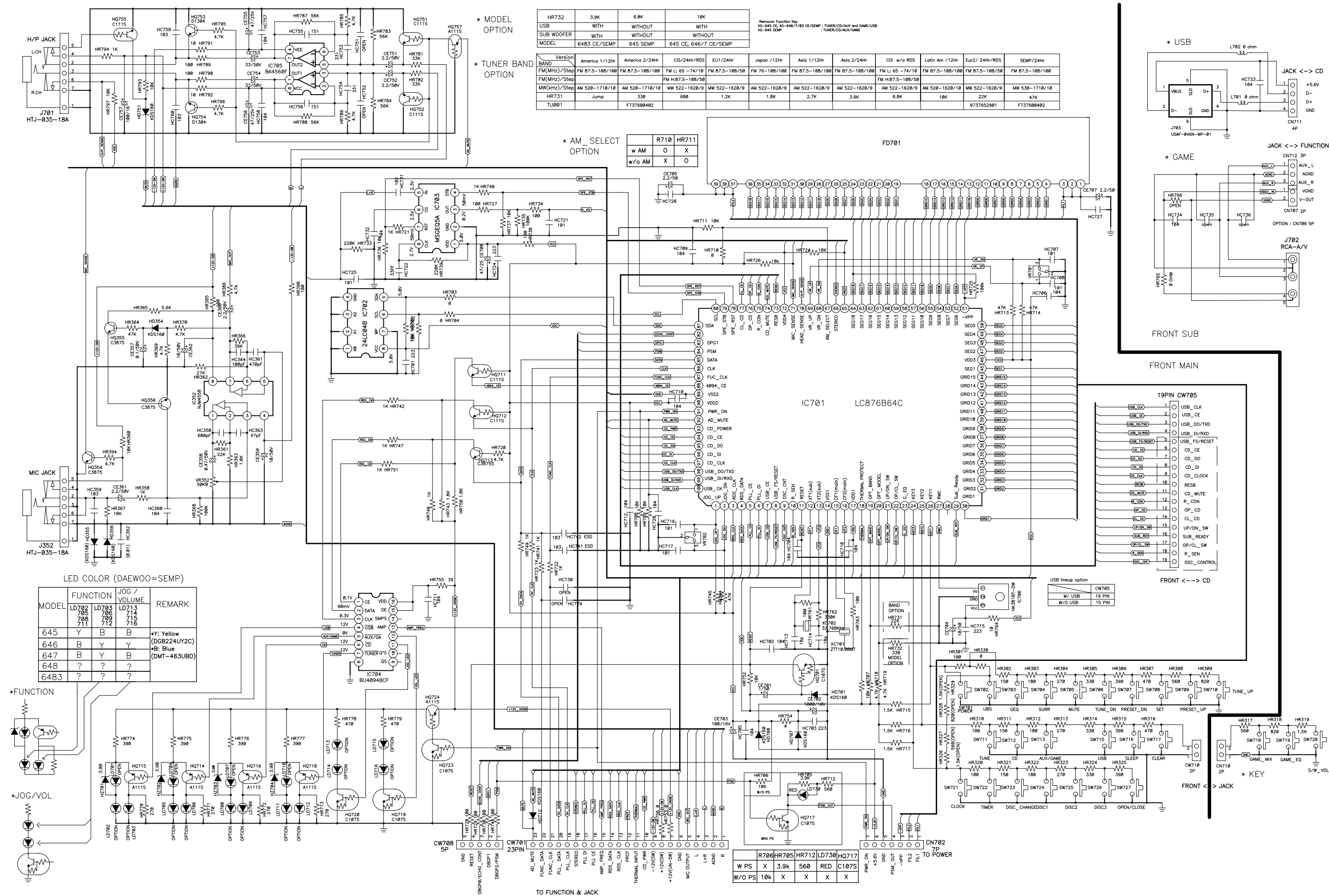
Block Diagram

• XG-645/ 646/ 647/ 648/ 6483 Models



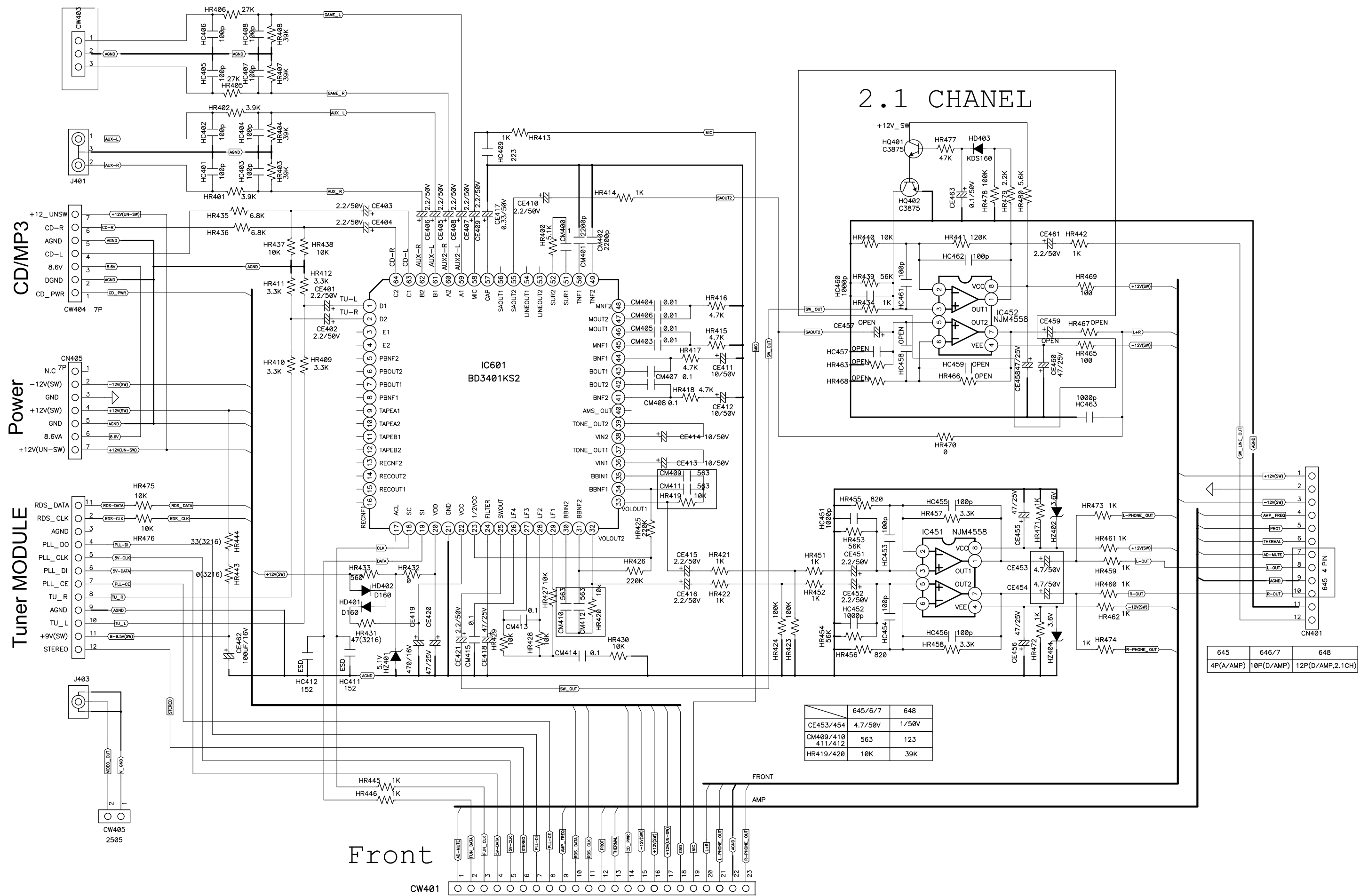
Schematic Diagram

● FRONT : XG-645/ 646/ 647/ 648/ 6483 Models



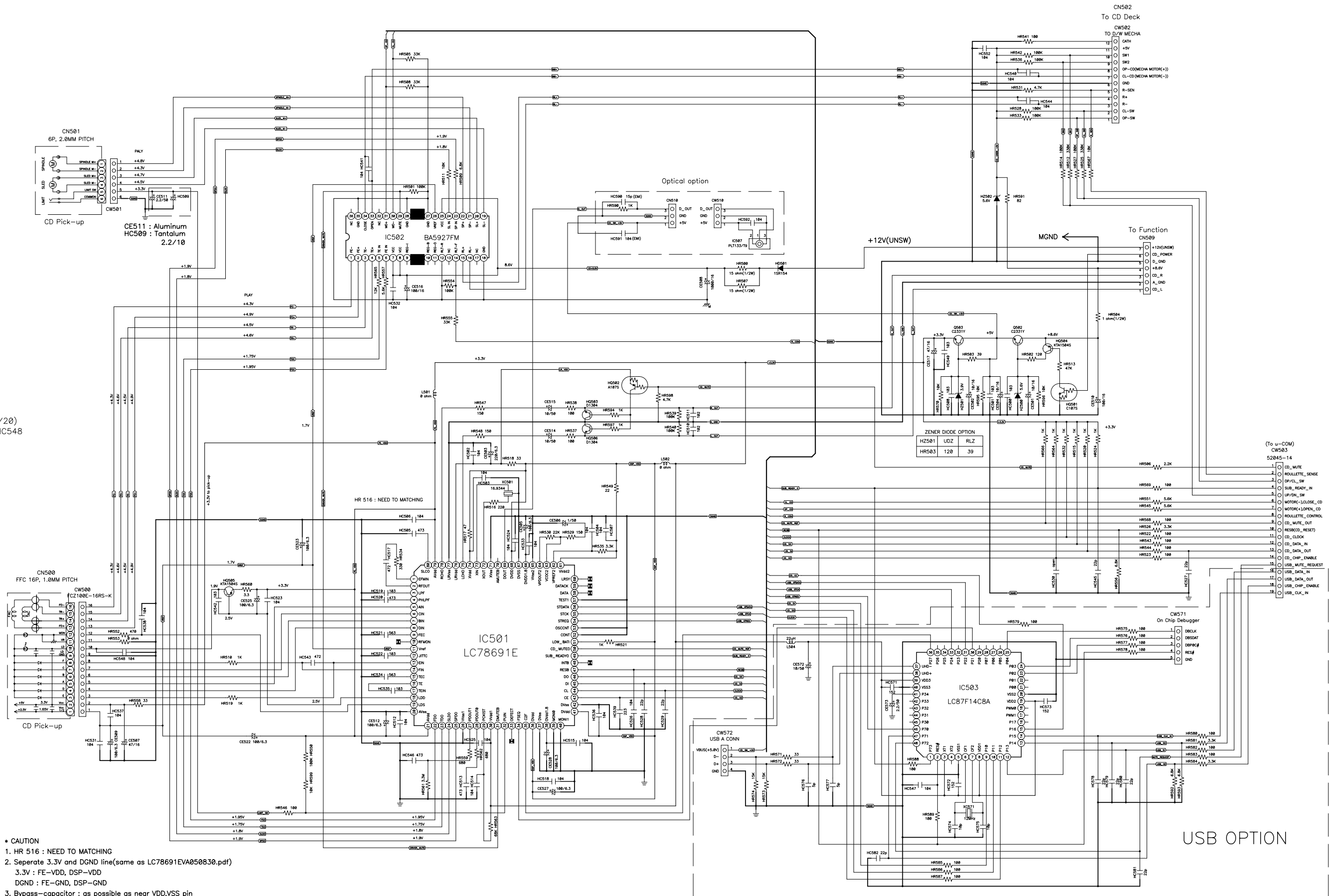
Schematic Diagram

● FUNCTION : XG-645/ 646/ 647/ 648/ 6483 Models



Schematic Diagram

● MP3 CD Section : XG-645/ 646/ 647/ 648/ 6483 Models



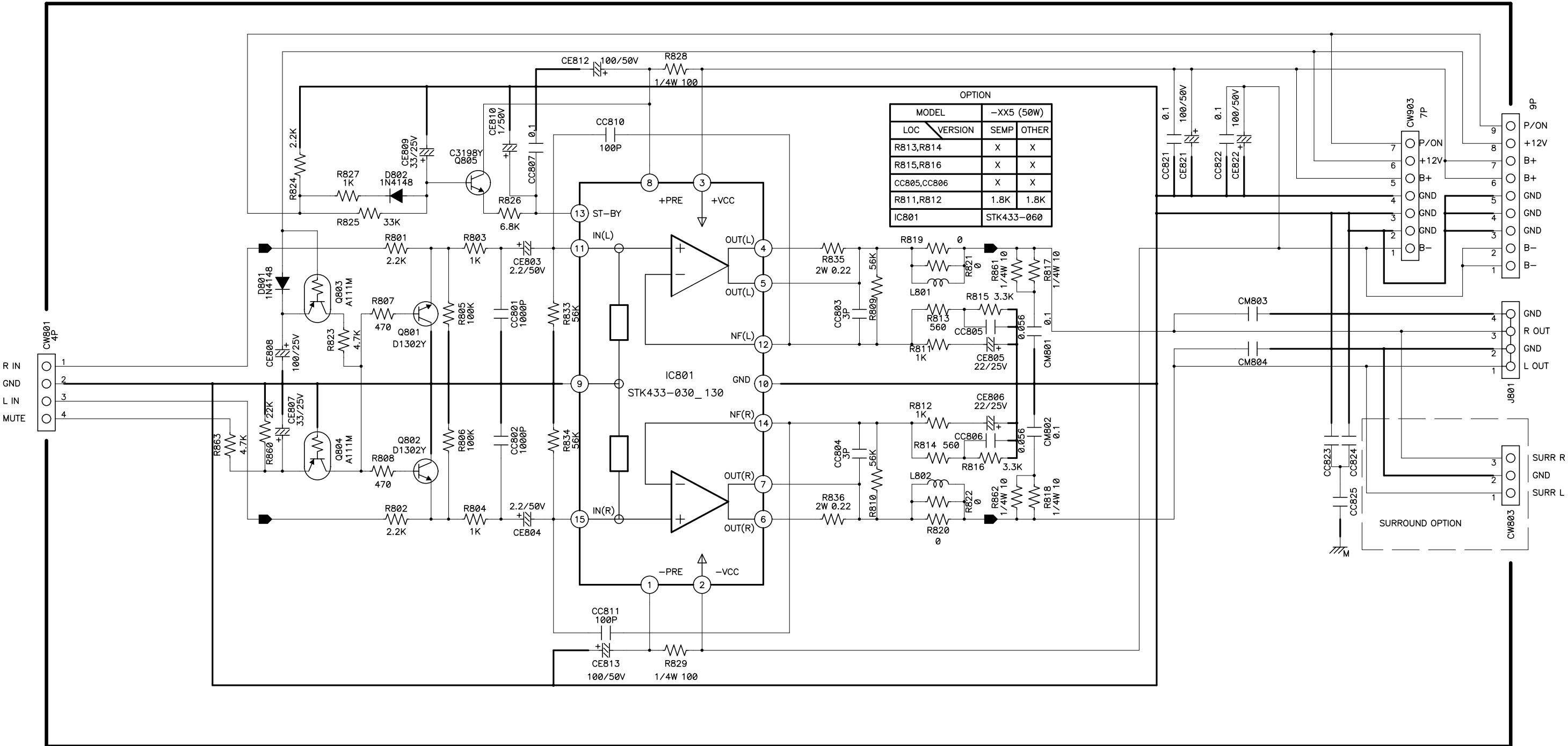
* Added(6/20)
CE511, HC548
HR599

- CAUTION
1. HR 516 : NEED TO MATCHING
 2. Separate 3.3V and DGND line(same as LC78691EVA050830.pdf)
3.3V : FE-VDD, DSP-VDD
DGND : FE-GND, DSP-GND
 3. Bypass-capacitor : as possible as near VDD,VSS pin
 4. CW500 : as possible as near IC501(LC78691E)
Don't cross over RF line(AB,C,D,E,F,L,D,MON) to Servo Drive line (FDO,TDO,SLDO,SPDO)
 5. HR510, HR519,HC543 : as possible as near L78691E Pin No.13(EIN),14(FIN)
 6. Don't cross over PLL line (PDOUT1, PDOUT0, PKCIST)

USB OPTION

Schematic Diagram

● AMP : XG 645 Model Only



● AMP(Class D) : XG 646/ 647 /648 Models

6ohm@75W -> $V_o = 21.2V$
6ohm@120W -> $V_o = 26.8V$
4ohm@150W -> $V_o = 24.5V$

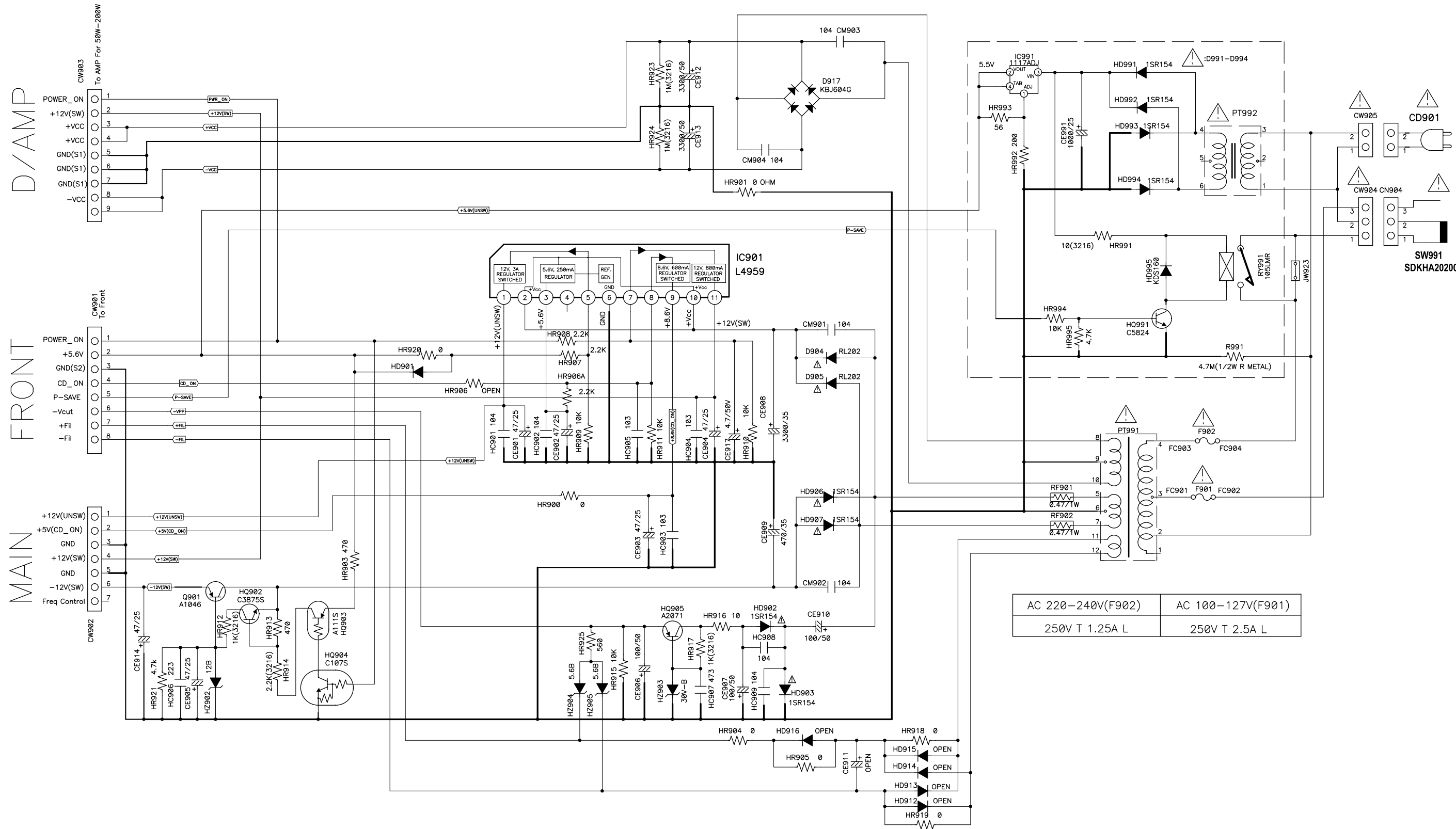
- **AMP(Class D) : XG-6483 Model Only**



3ohm@170W -> Vo= 22.6V
6ohm@120W -> Vo= 26.8V

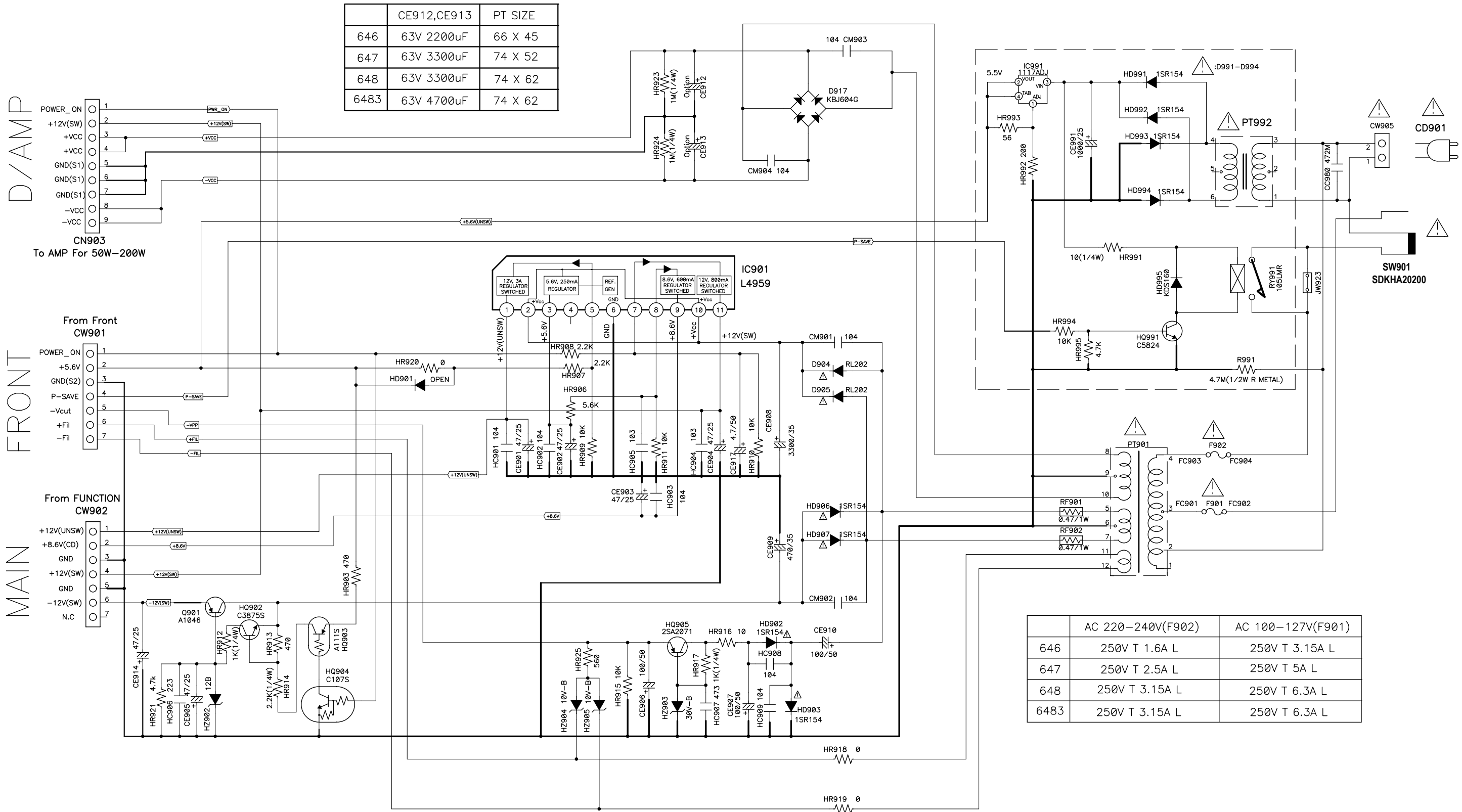
Schematic Diagram

● POWER : XG-645 Model only



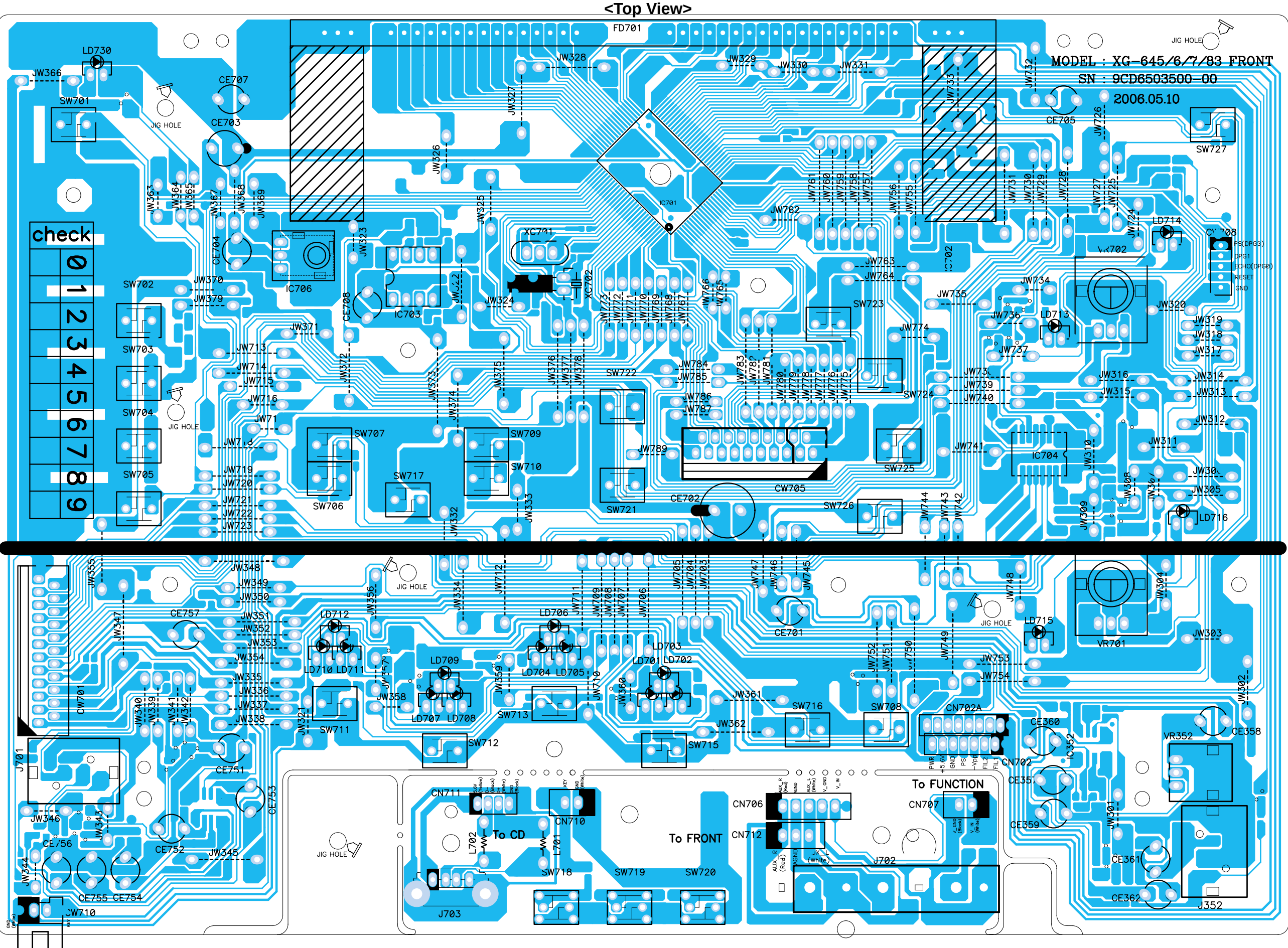
Schematic Diagram

● POWER : XG-646/ 647/ 648/ 6483 Models



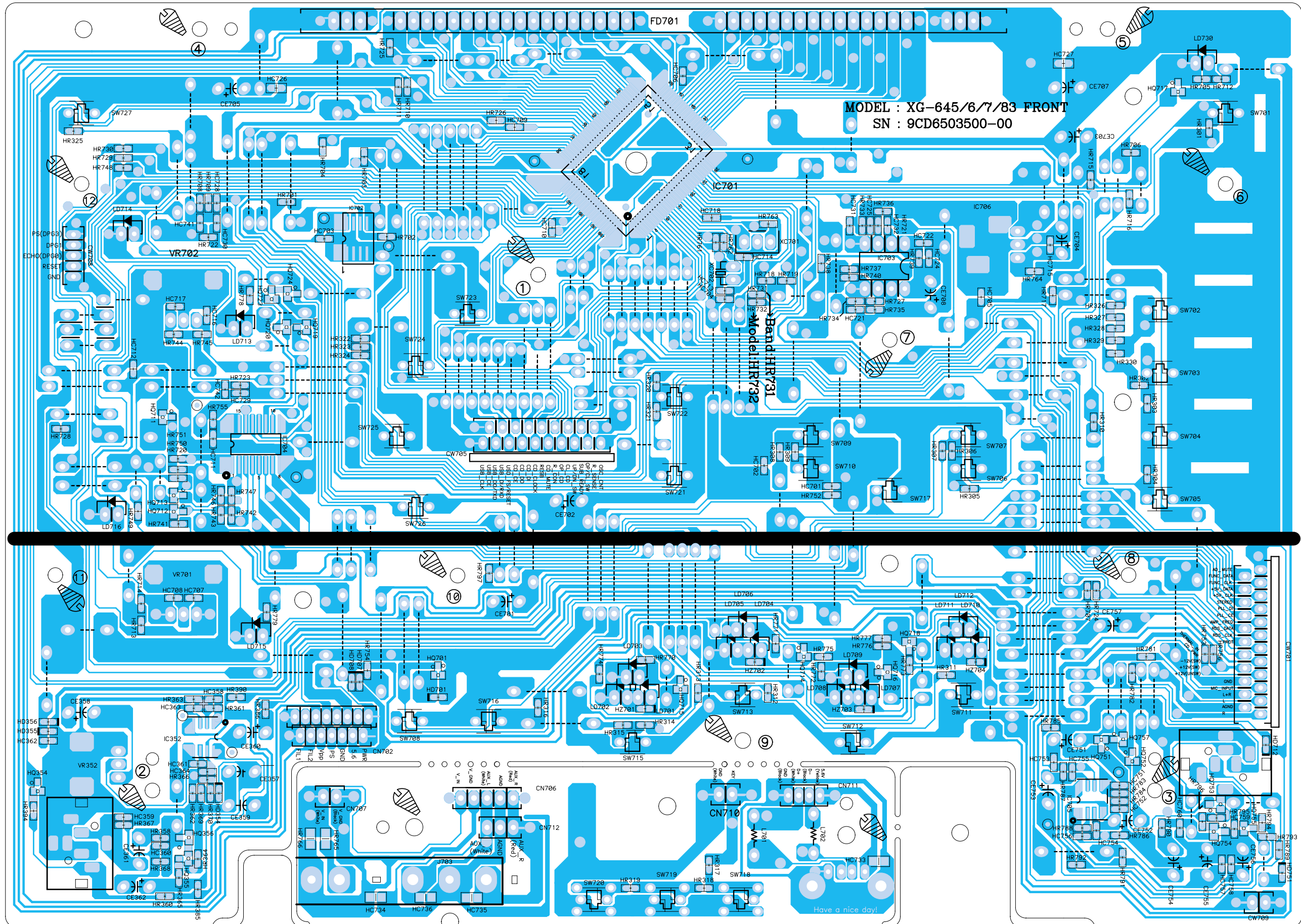
P.C.B Pattern Layout

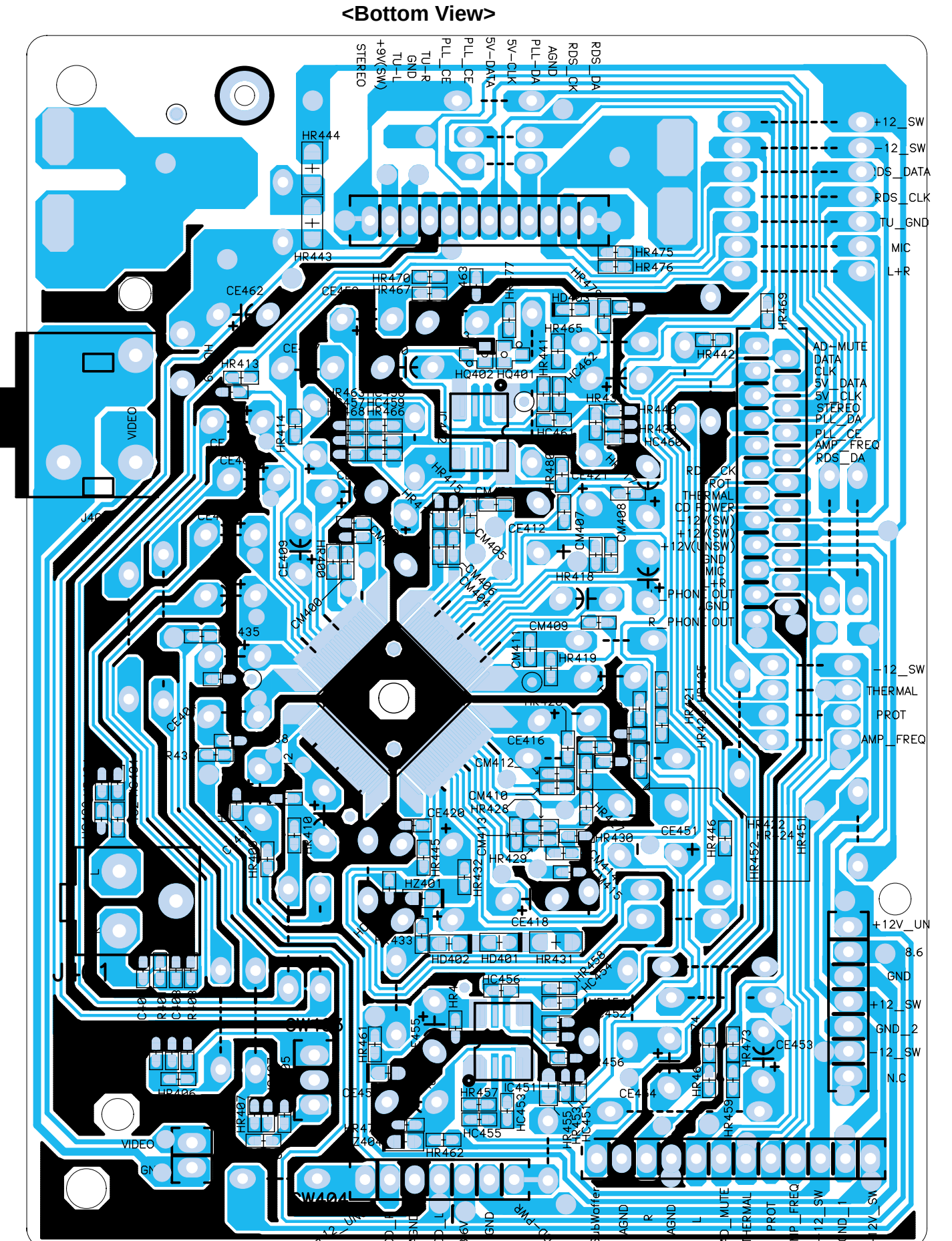
● FRONT : XG-645/ 646/ 647/ 648/ 6483 Models



● FRONT : XG-645/ 646/ 647/ 648/ 6483 Models

<Bottom View>

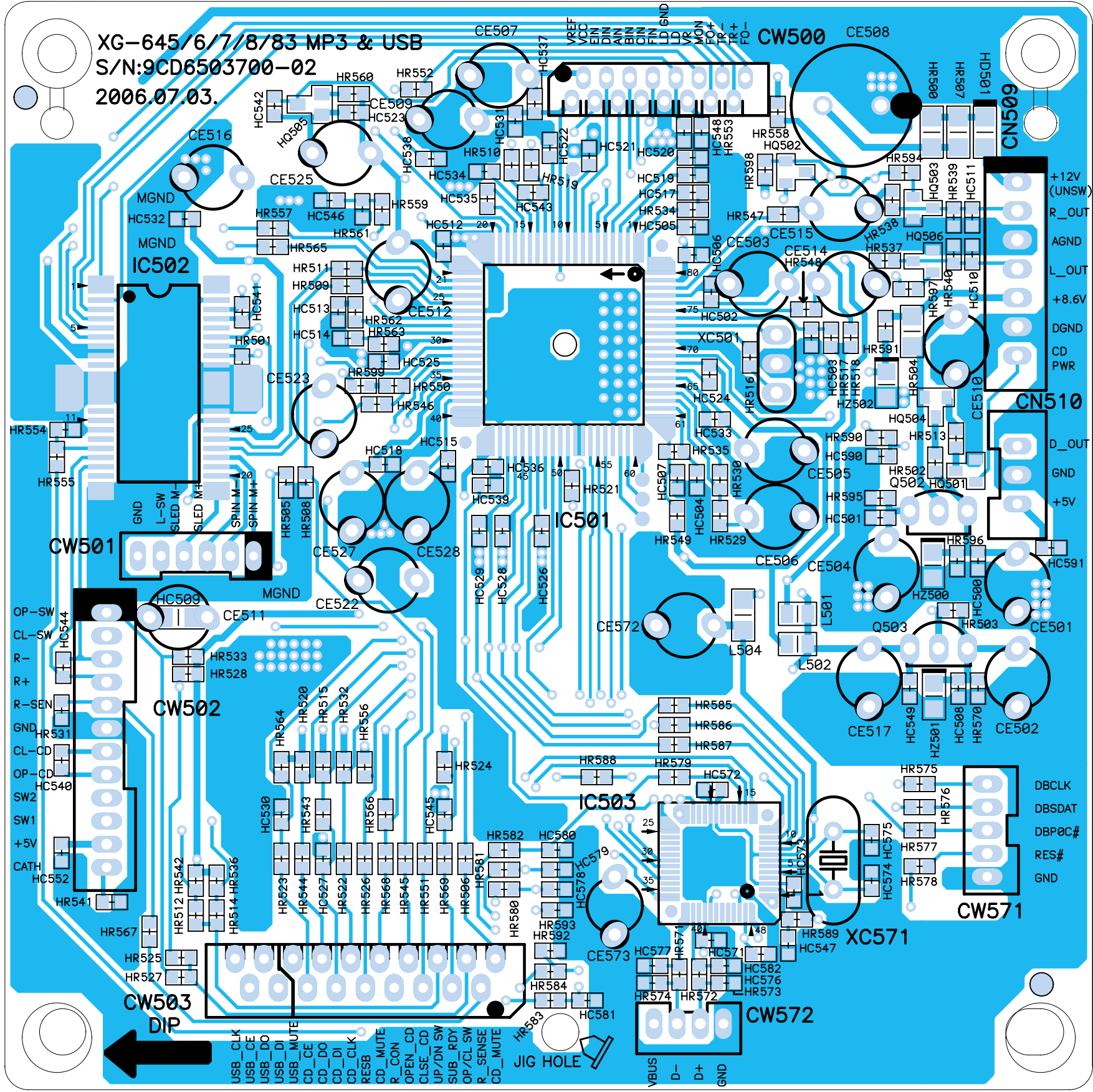




P.C.B Pattern Layout

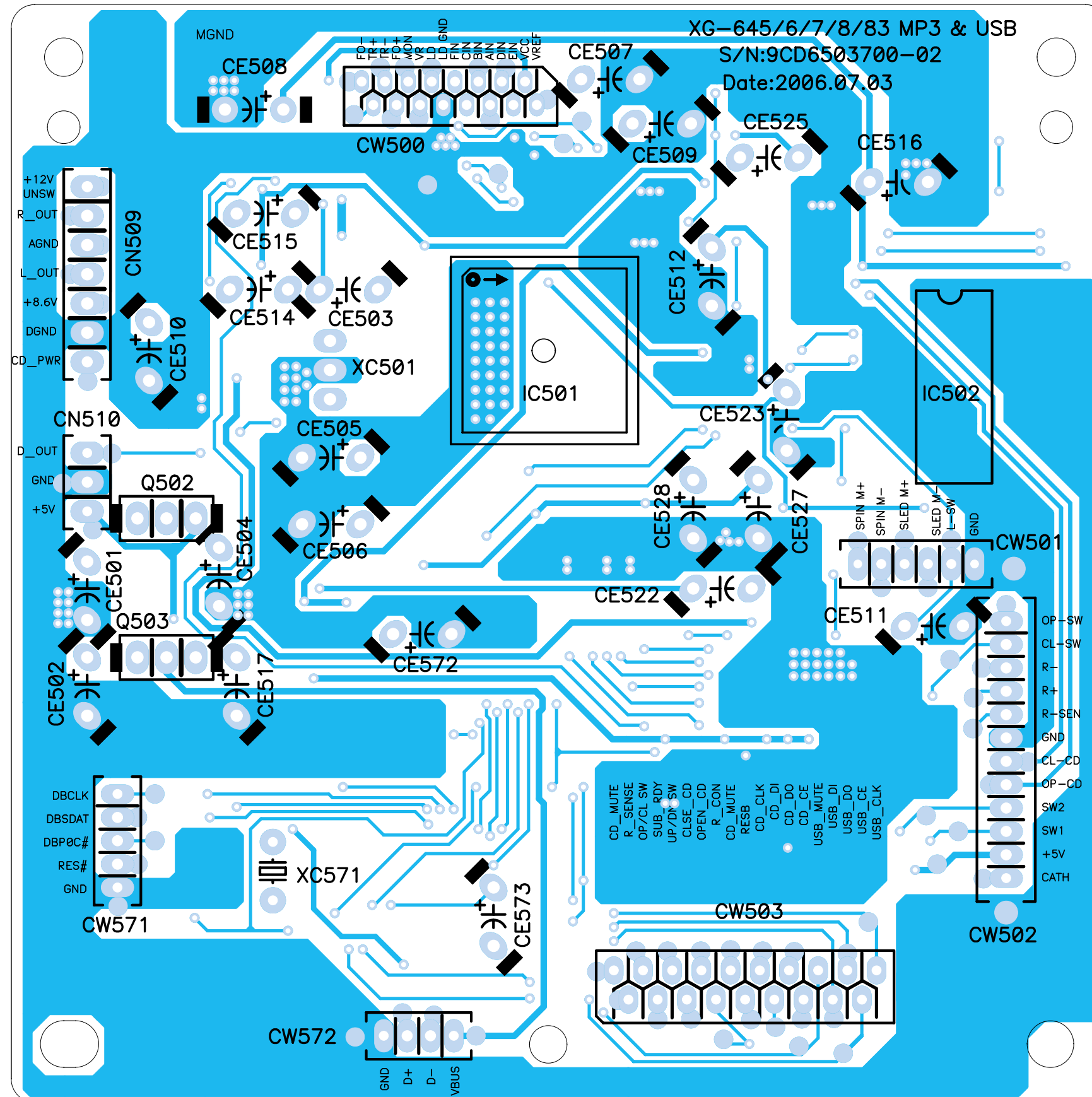
● MP3 CD : XG-645/ 646/ 647/ 648/ 6483 Models

<Top View>



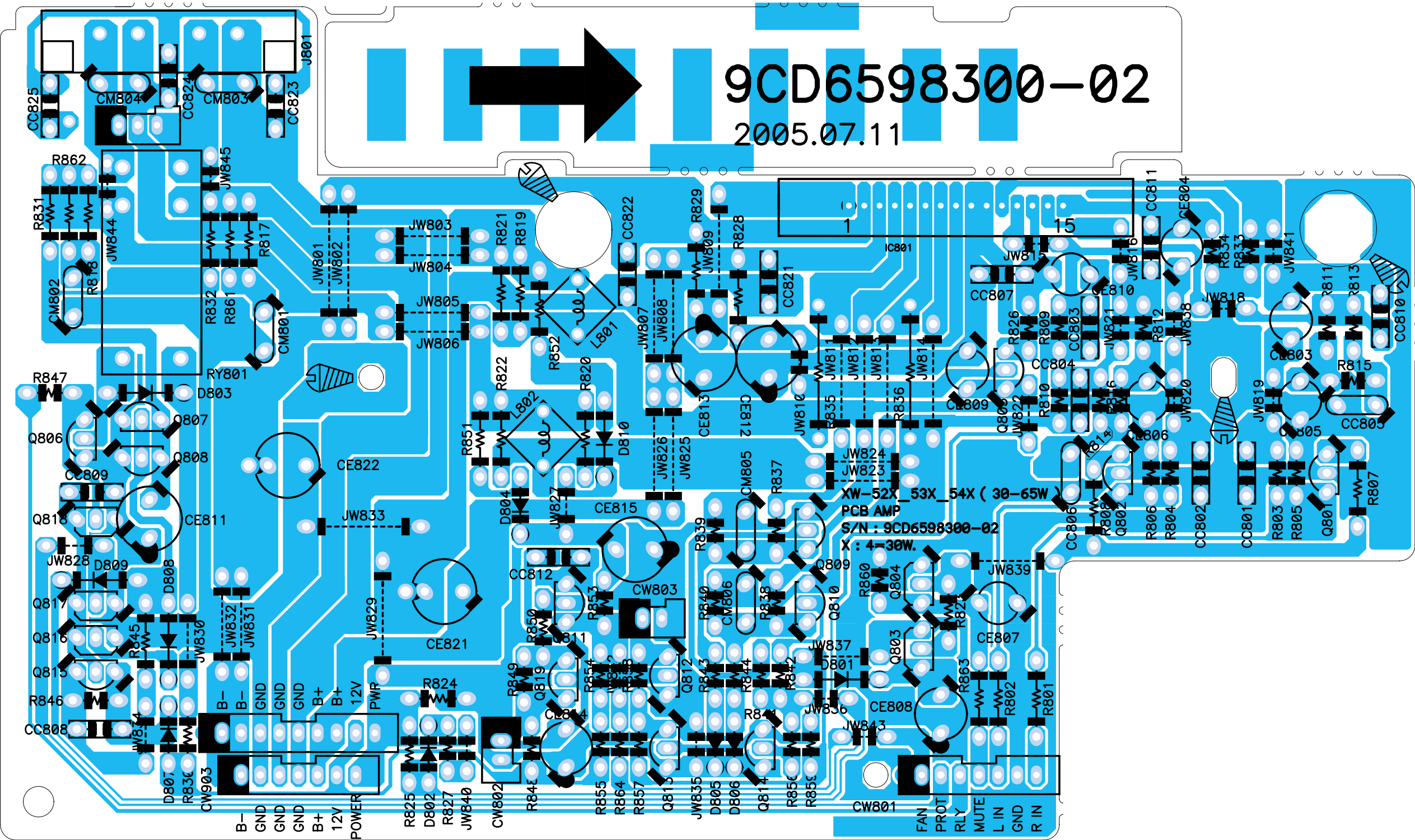
- **MP3 CD : XG-645/ 646/ 647/ 648/ 6483 Models**

<Bottom View>



P.C.B Pattern Layout

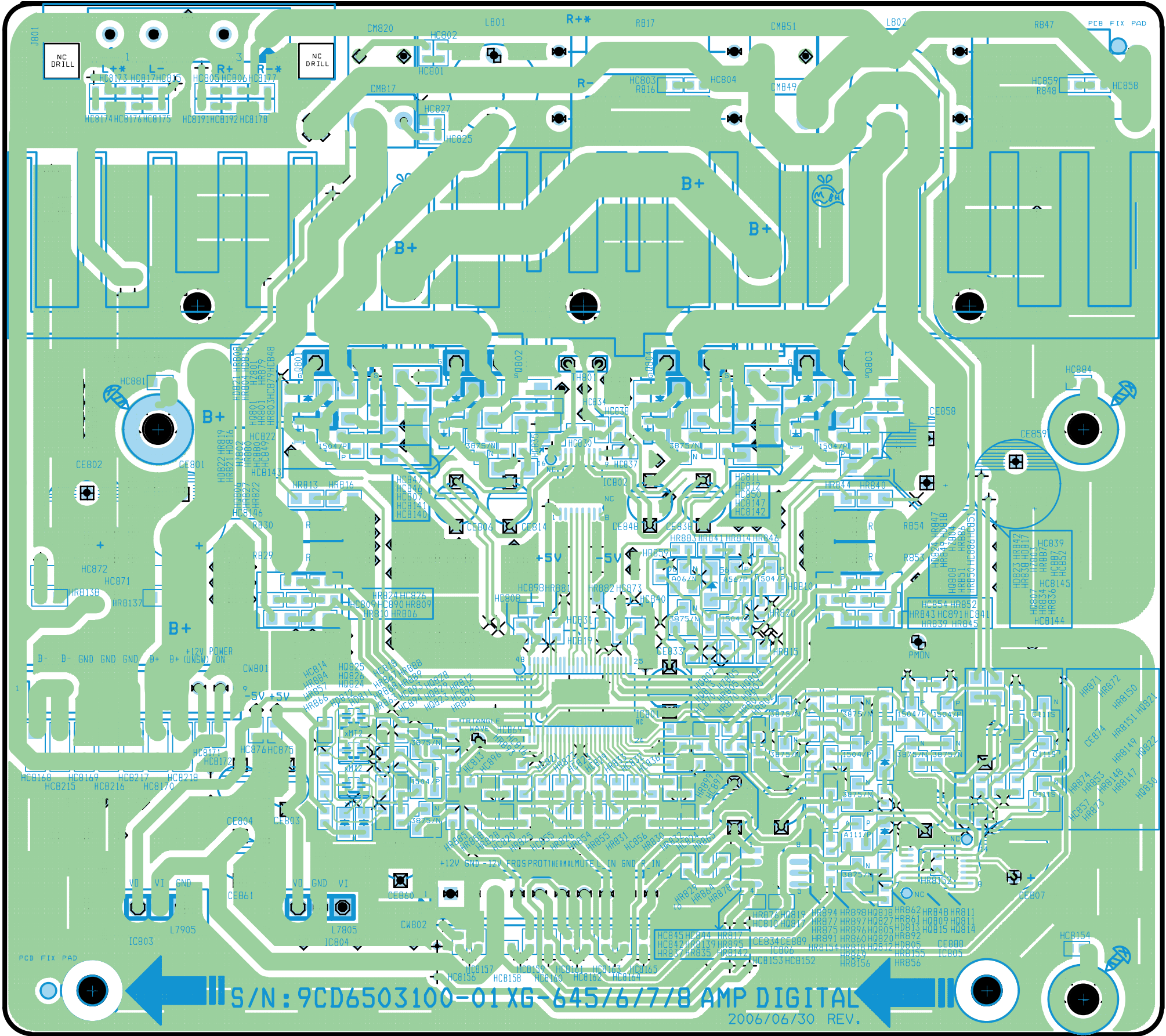
● AMP : XG-645 Model Only



P.C.B Pattern Layout

● AMP(Class-D) : XG-646/ 647/ 648 Models

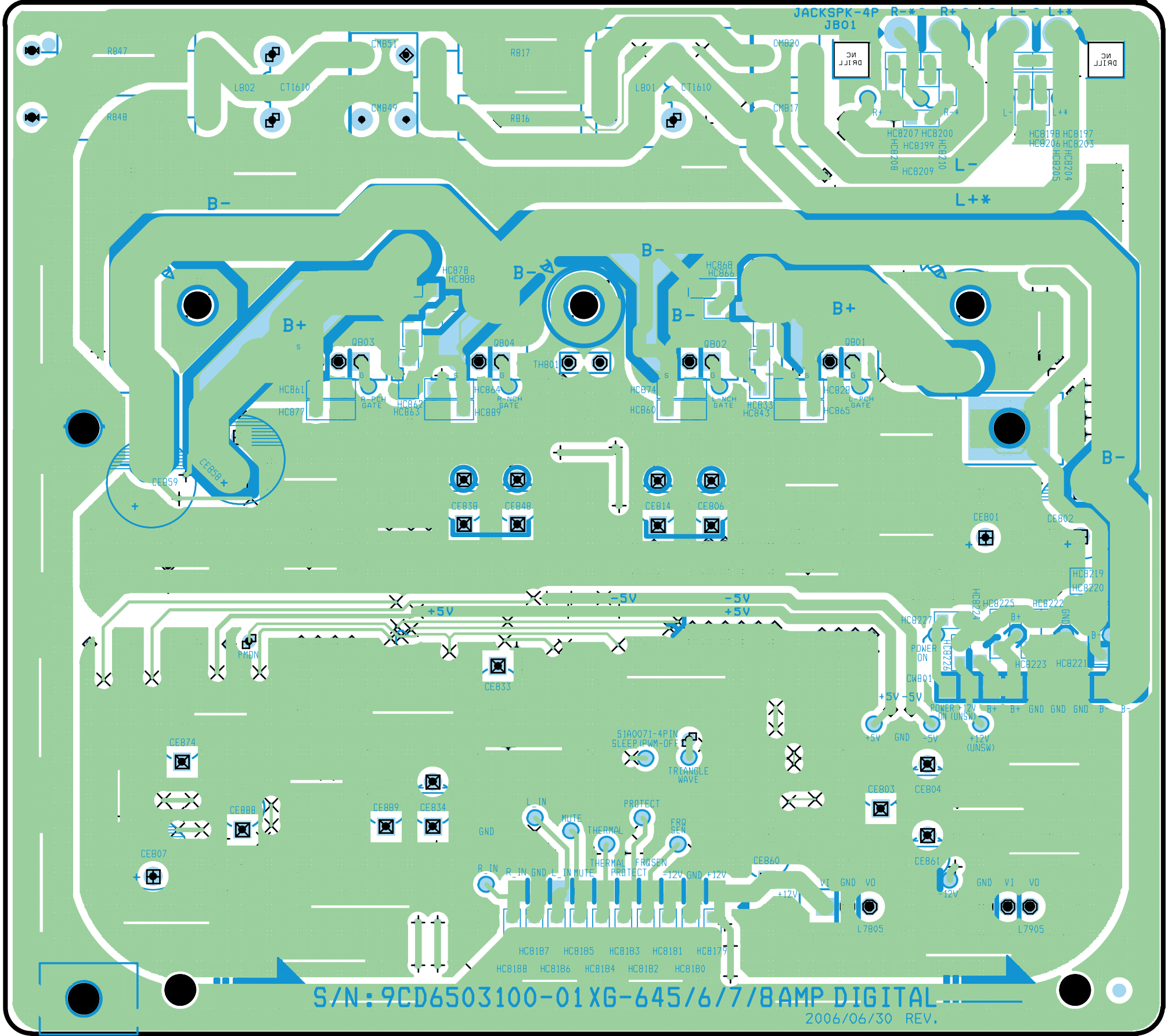
<Top View>



P.C.B Pattern Layout

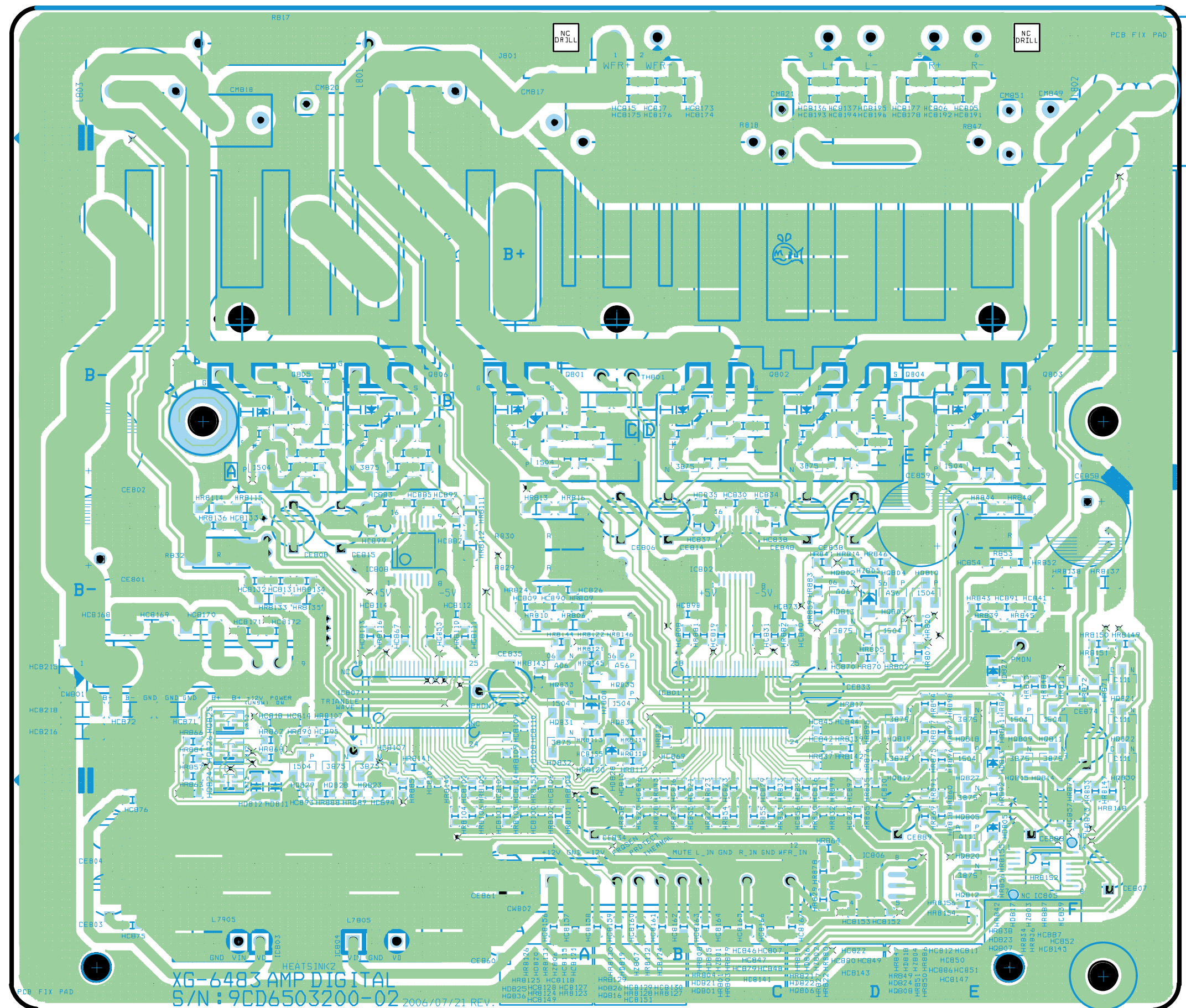
● AMP(Class-D) : XG-646/ 647/ 648 Models

<Bottom View>



- AMP(Class-D) : XG-6483 Model Only

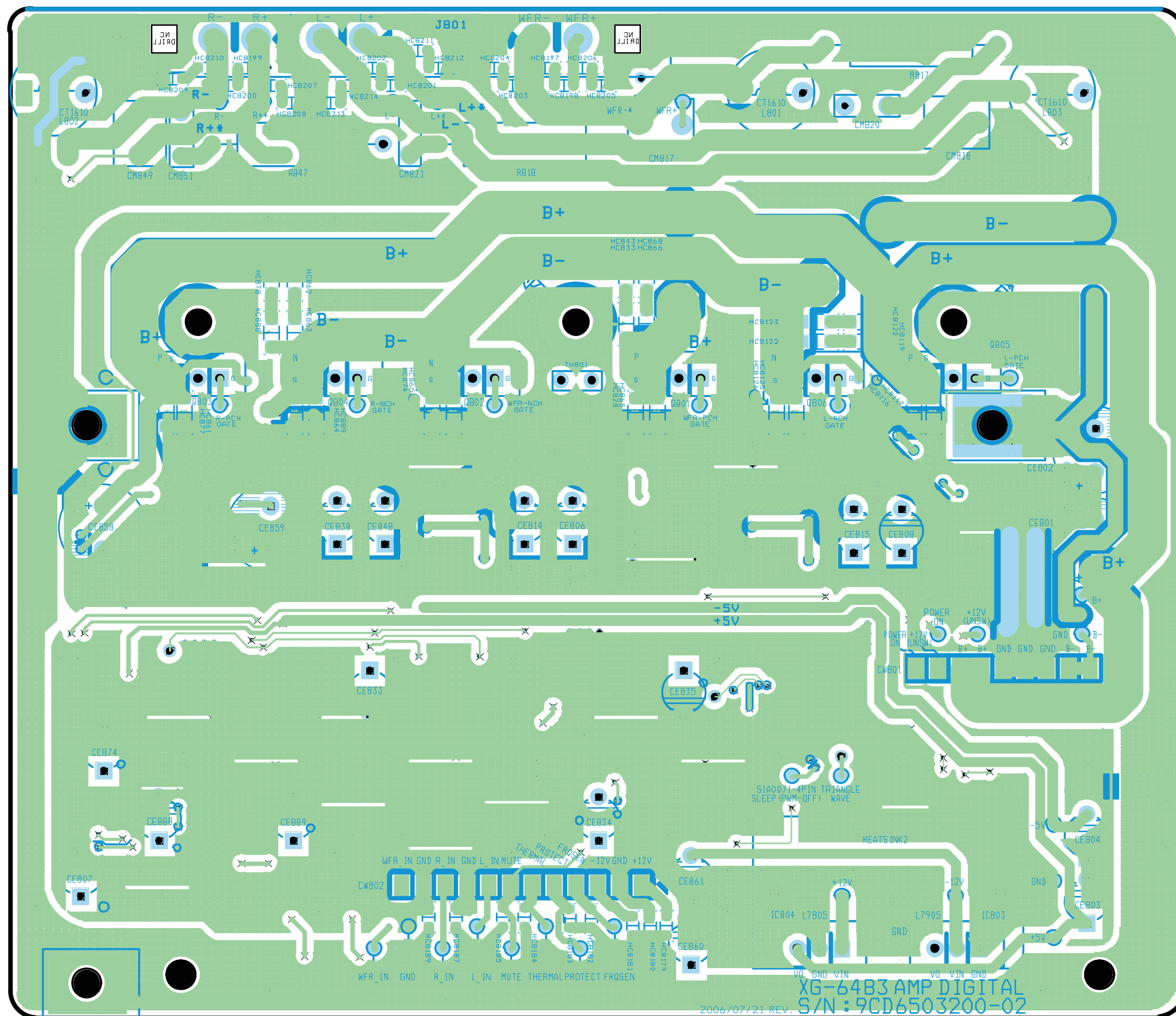
<Top View>



P.C.B Pattern Layout

- AMP(Class-D) : XG-6483 Model Only

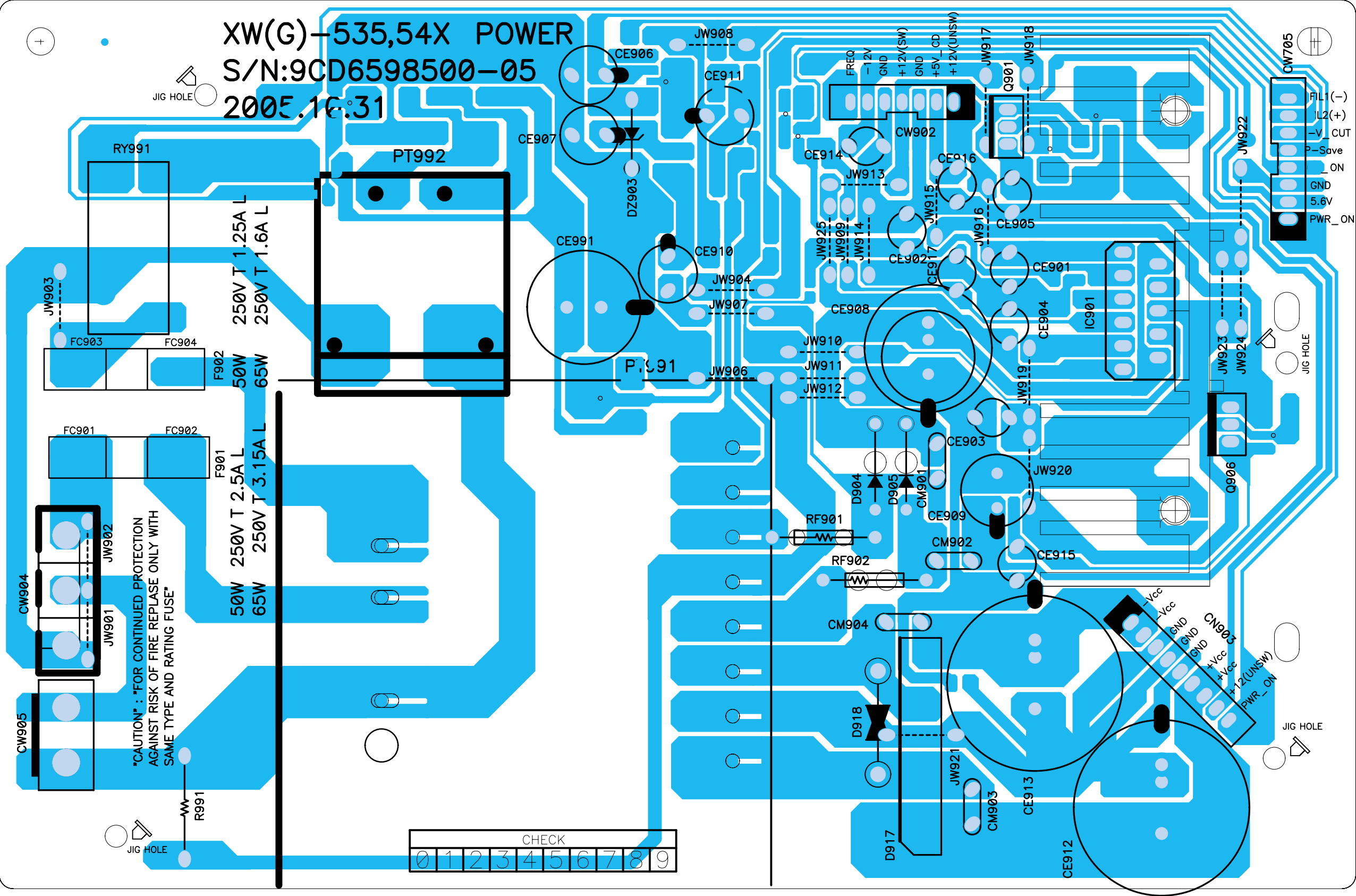
<Bottom View>



P.C.B Pattern Layout

● POWER : XG-645 Model only

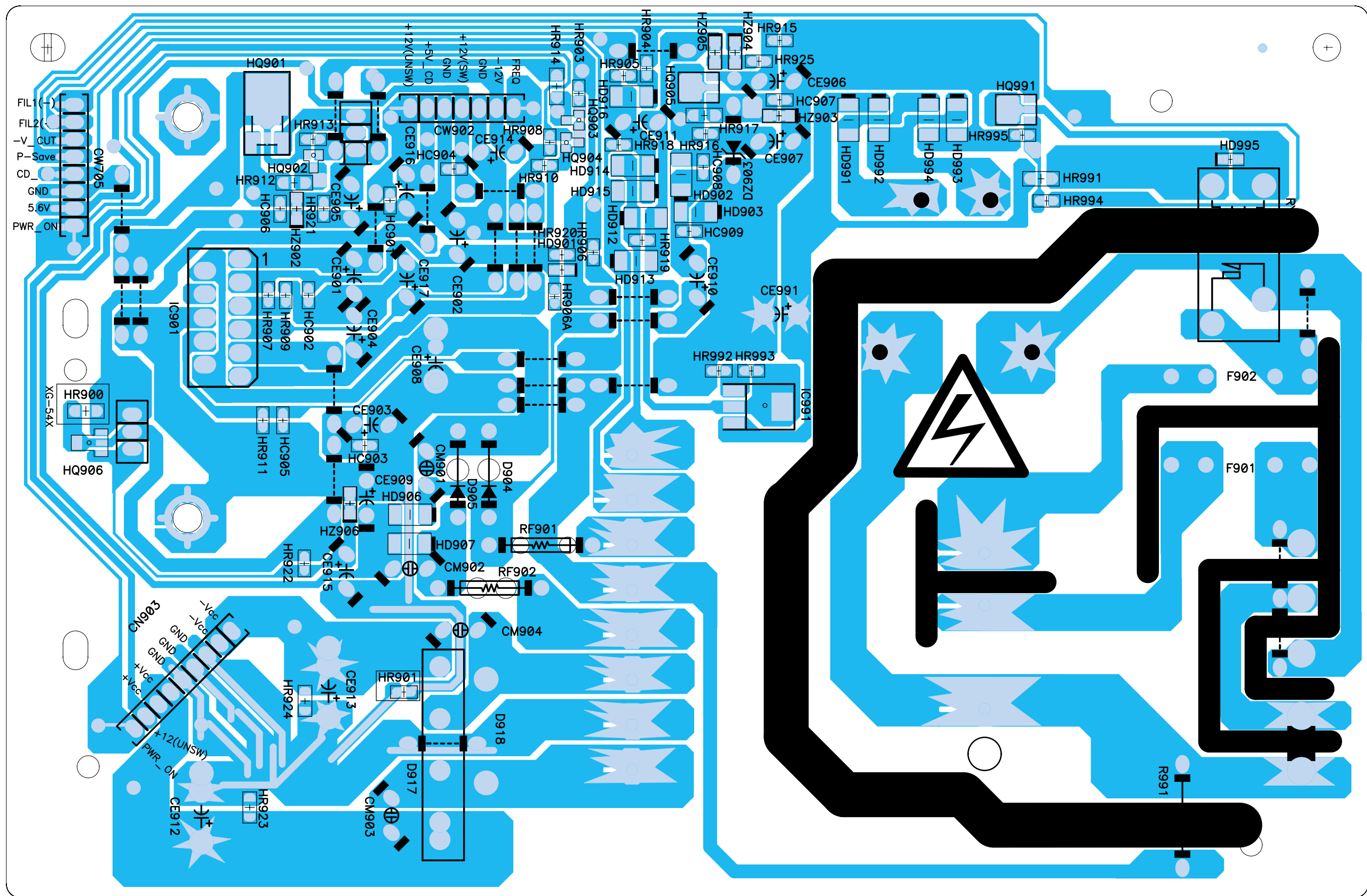
<Top View>



P.C.B Pattern Layout

● POWER : XG-645 Model only

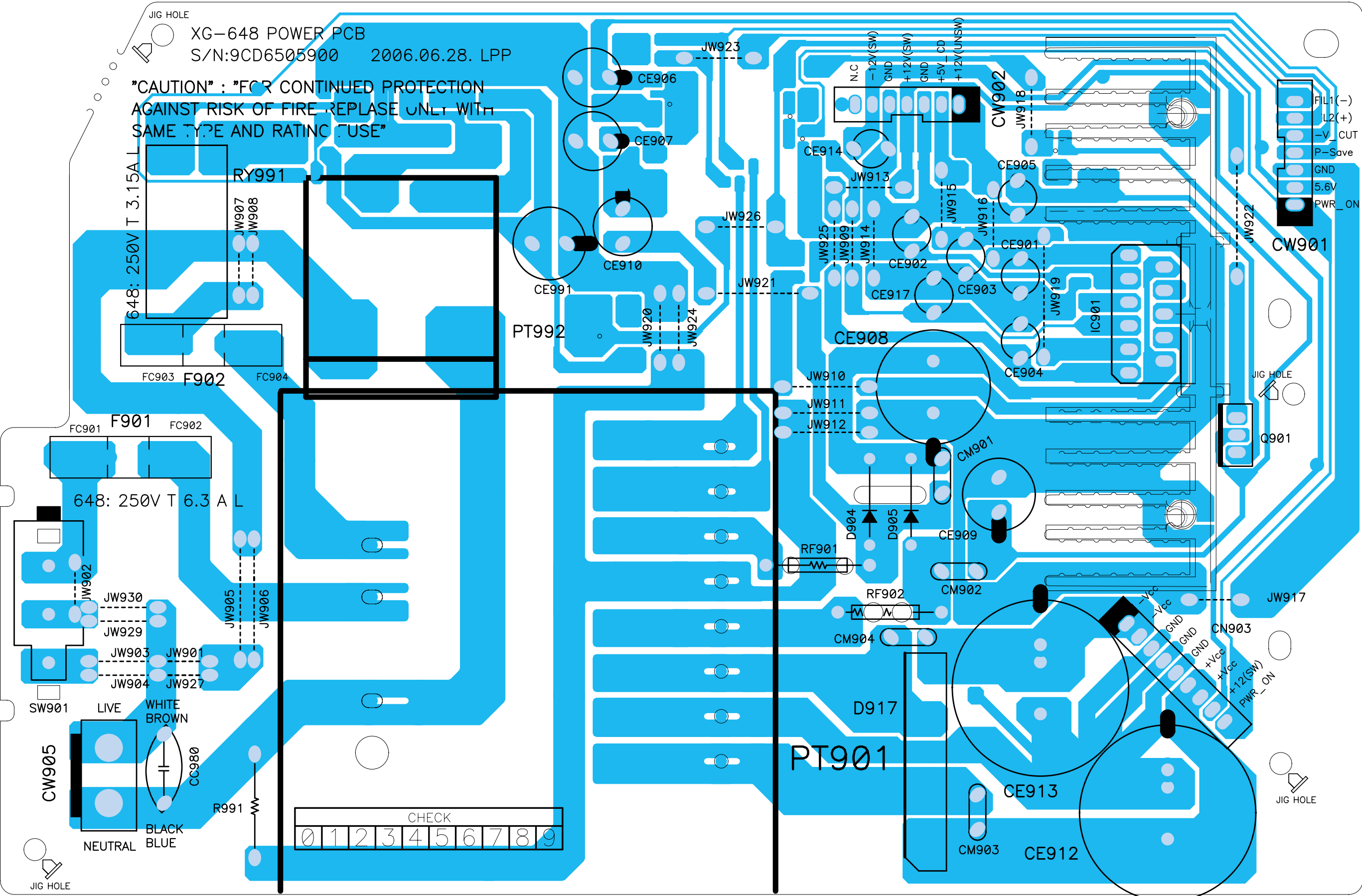
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P.C.B Pattern Layout

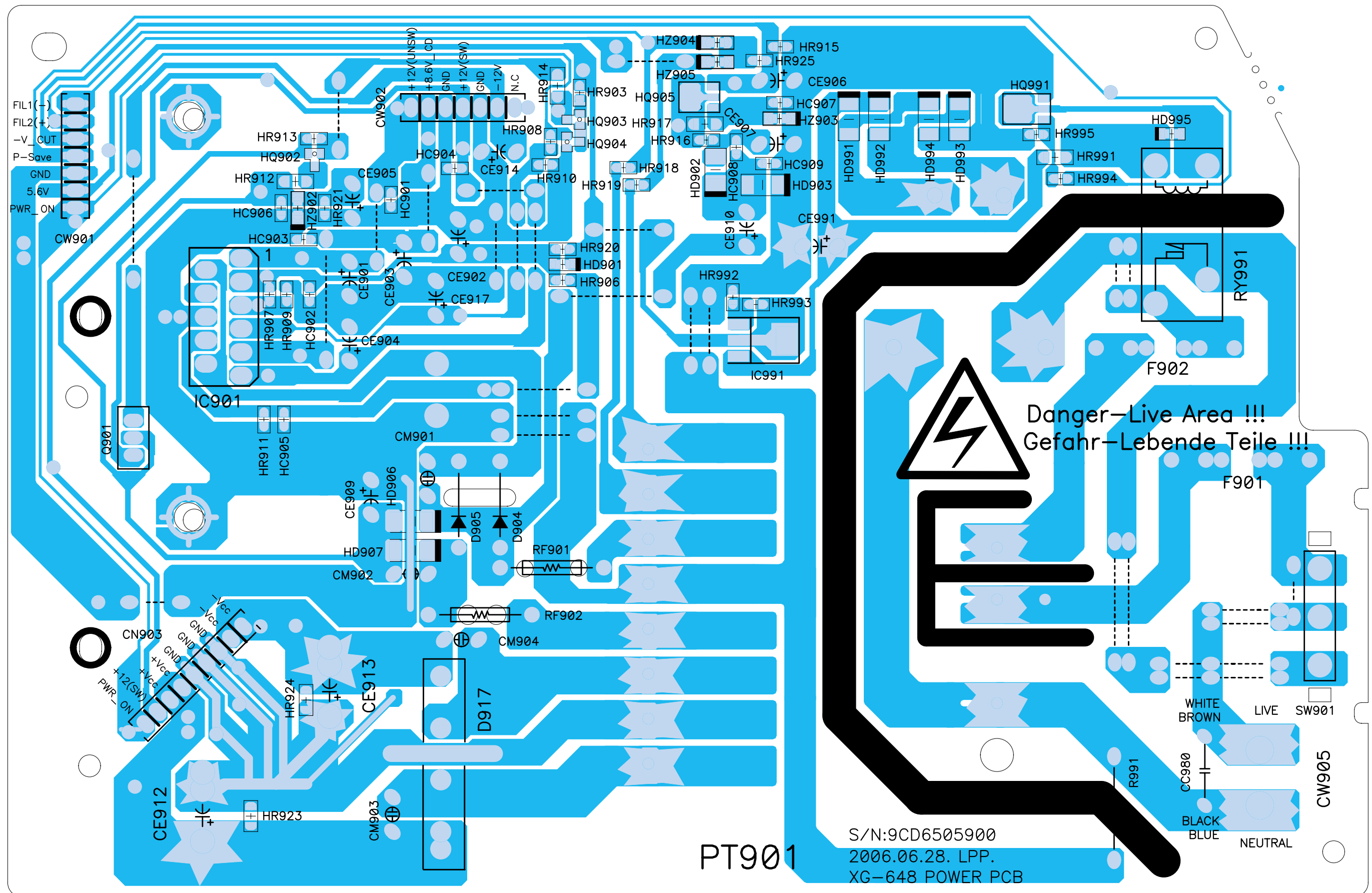
● POWER : XG-648 Model only

<Top View>



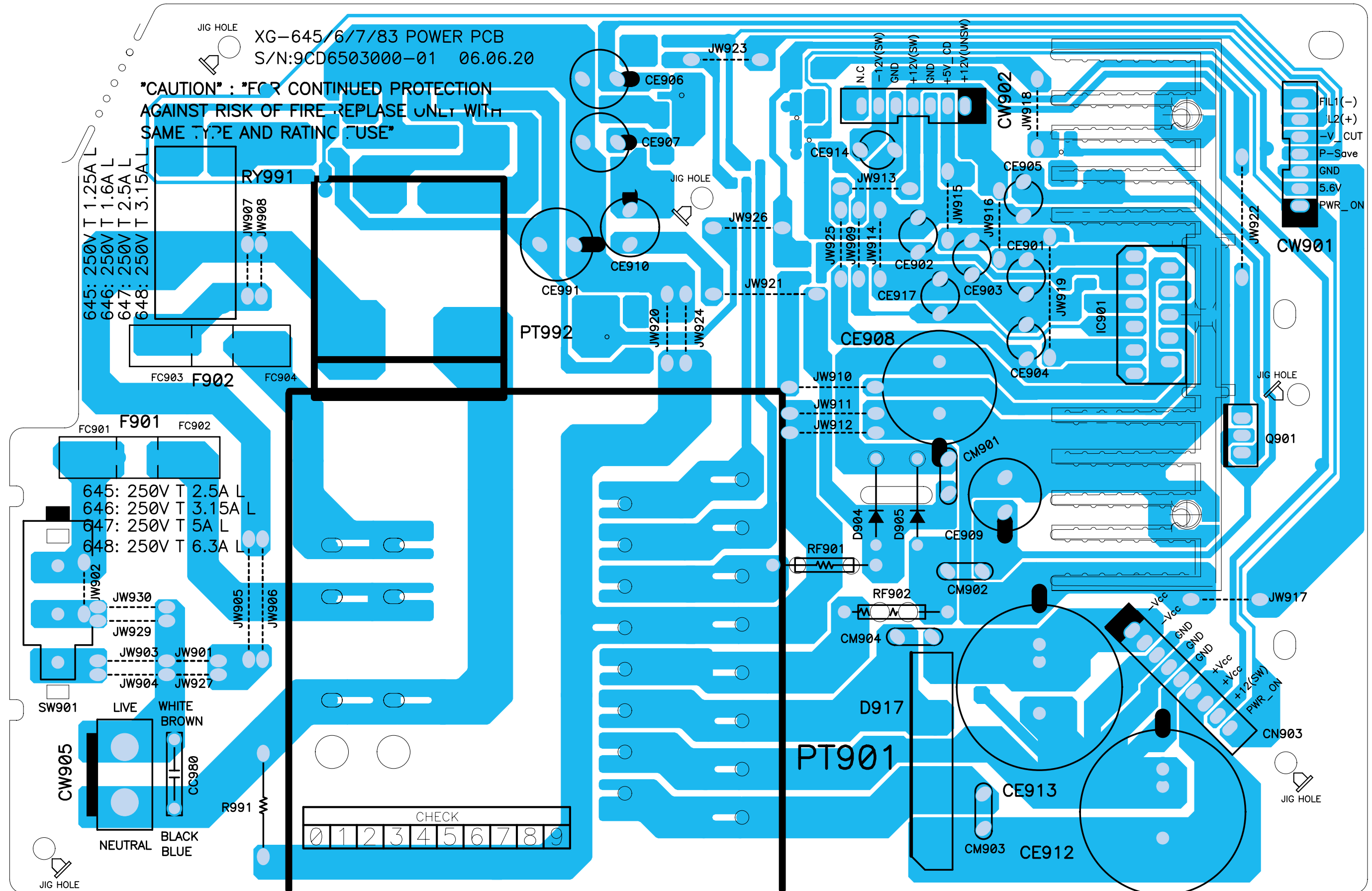
● **POWER : XG-648 Model only**

<Bottom View>



● **POWER : XG-646/ 647/ 6483 Models**

<Top View>



P.C.B Pattern Layout

● POWER : XG-646/ 647/ 6483 Models

<Bottom View>

