9CD8305600

Service Manual

Mini Component Sound System

Model : Consultar solamente las referencias técnicas relacionadas con el modelo:

XG-7283



DAEWOO DAT CO., LTD.

July. 2007

Mini component sound system
XG-725/726/727/728
XG-7283

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Safety Precautions

1

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 UNINSULTED "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.

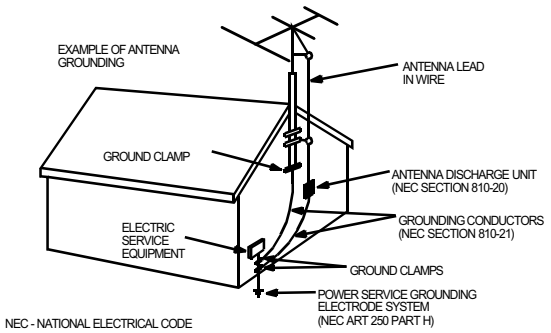
PORTABLE CART



Figure 2

2. Carts and Stands - The appliance should be used only with a cart or stand that is recommended by th 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-dis charge 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

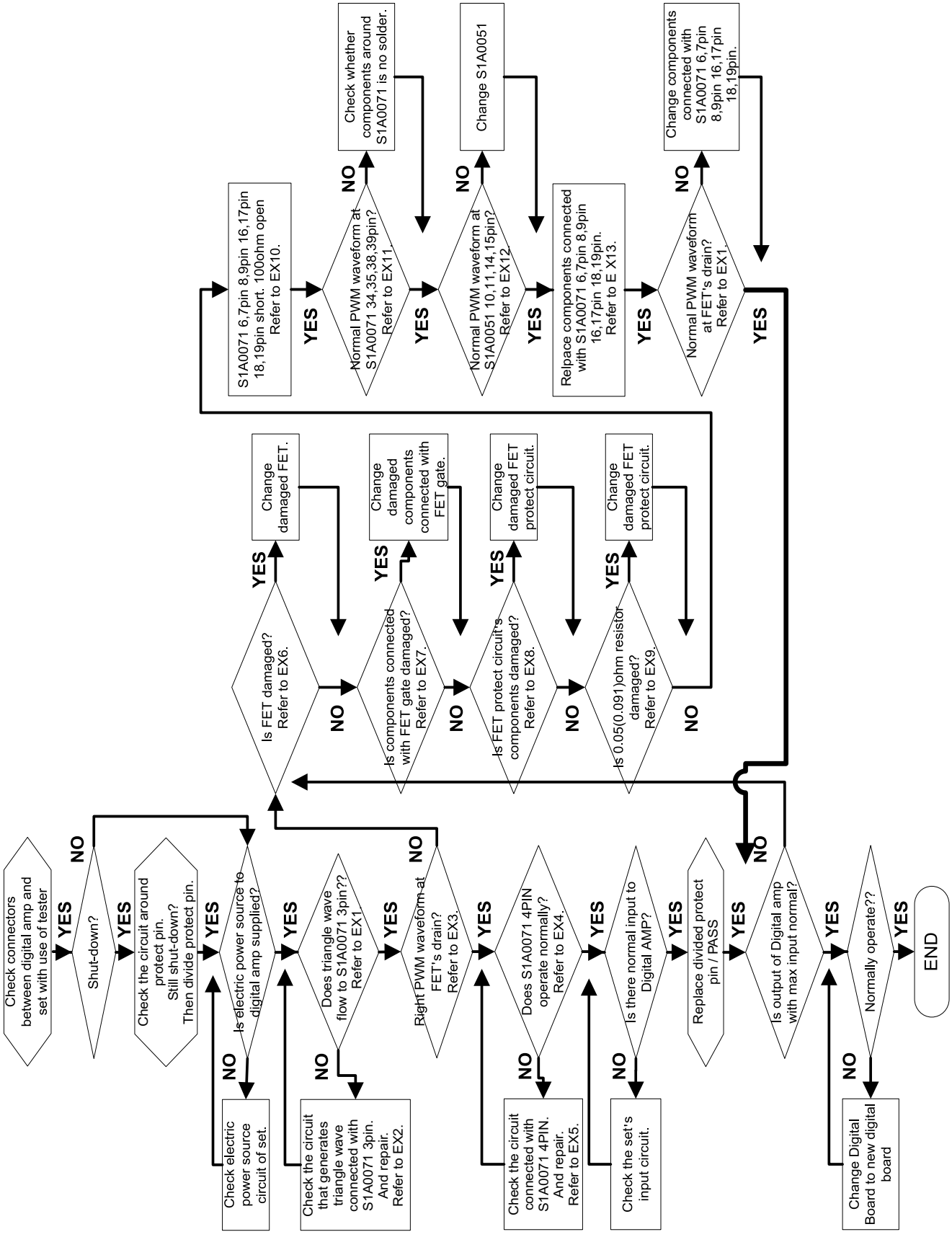
c) The appliance has been exposed to rain; or

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.

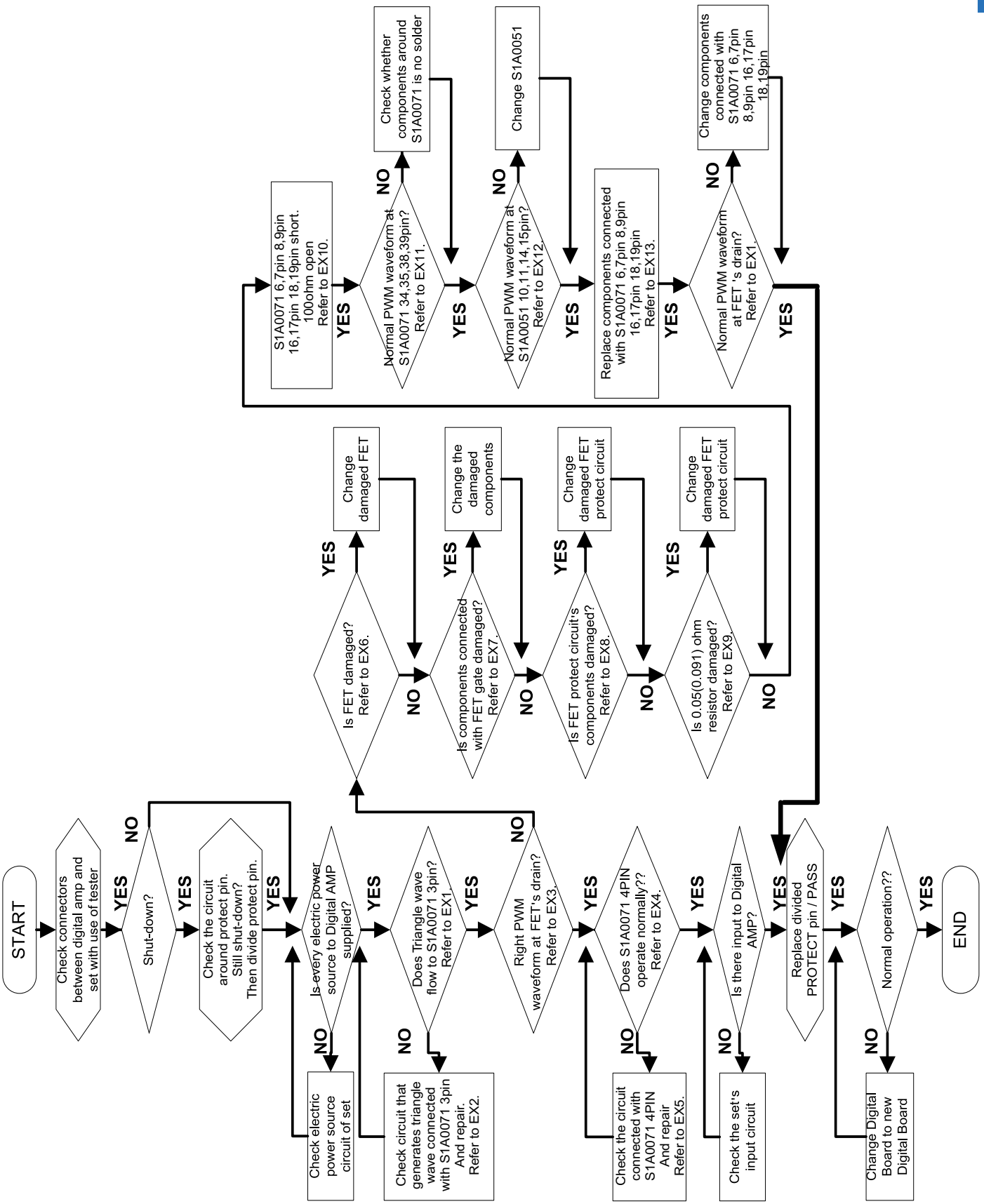
● XG-726/ 727/ 728/ 7283 AMP Flow Chart-No Output Signal



2

2

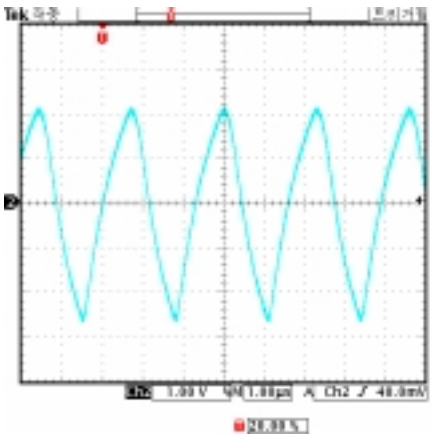
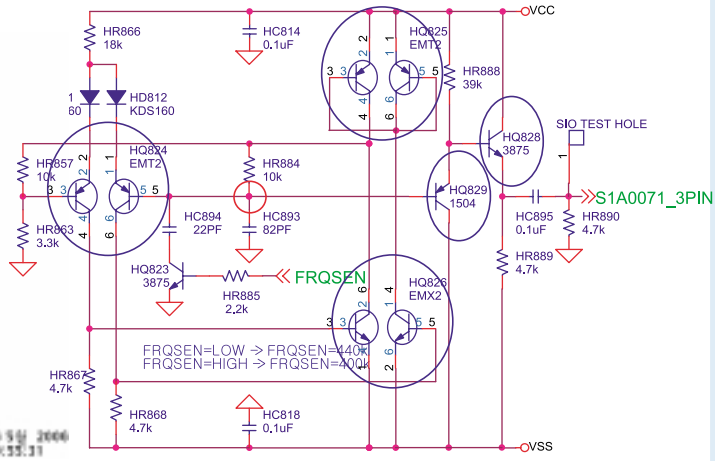
● XG-726/ 727/ 728/ 7283 AMP Flow Chart-Abnormal Output Signal



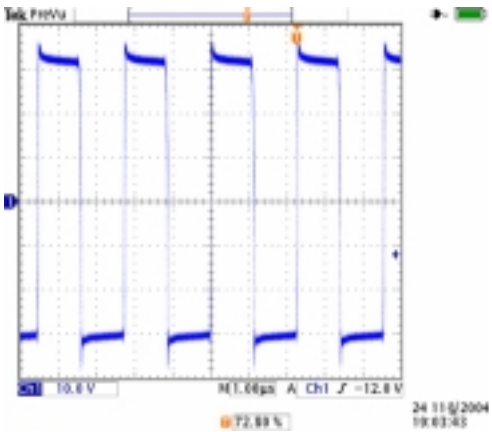
Trouble Shooting Guide

● XG-726/ 727/ 728/ 7283 AMP Flow Chart-Test Point and Expected Results(Ex1, 2)

2

EX.	DESCRIPTION
EX1. EX2.	 FIG1. TRIANGLE WAVE  FIG2. TRIANGLE WAVE GENERATOR CIRCUIT ❑ Triangle wave's frequency is about 440kHz. (tolerance is roughly 5% by component 'devition.) ❑ If output **at S1A0071 3Pin** is Abnormal triangle wave, 1)open HQ829, 2) check HQ829' Base(also must be trinagle wave) if ok => check HQ 828 and etc if no => HQ824/825/825/823 and etc ❑ CAUTION : Before AC cord in, check HQ824/825/826 is short or open

● XG-726/ 727/ 728/ 7283 AMP Flow Chart-Test Point and Expected Results(Ex3)

EX.	DESCRIPTION
EX3.	 FIG3. FET Drain Waveform (PWM Waveform) FET Drain waveform ❑ IF no singnal source =>FET drain waveform. 1) Period: 2.3us(440kHz). 2) DUTY : 50%. 3) Amplitude is ±AMP POWER.

● XG-726/ 727/ 728/ 7283 AMP Flow Chart-Test Point and Expected Results(Ex4, 5)

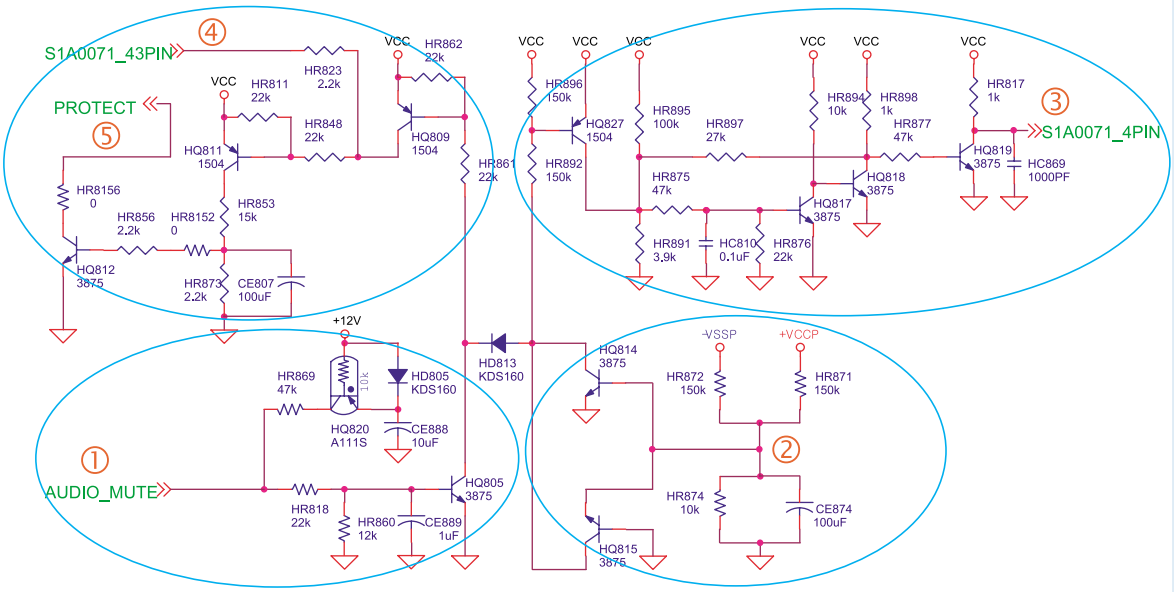
EX.	DESCRIPTION
EX4. EX5.	

FIG4. Circuit connected with AUDIO_MUTE PIN, S1A0071 4PIN, 43PIN, PROTECT PIN

- ❑ Check as follow ①→②→③→④→⑤ **pin** number.
  IF Audio is **normal operation(ex: cd play)**
  LOW – LOW – HIGH – HIGH – HIGH.
- ❑ S1A0071 4PIN (③) and 43PIN (④) are Active Low.
- ❑ S1A0071 4PIN (③) : **1.8V(Logic boundary level (H/L),**
  if it has noise in 1.8V level => wrong operation

● XG-726/ 727/ 728/ 7283 AMP Flow Chart-Test Point and Expected Results(Ex6)

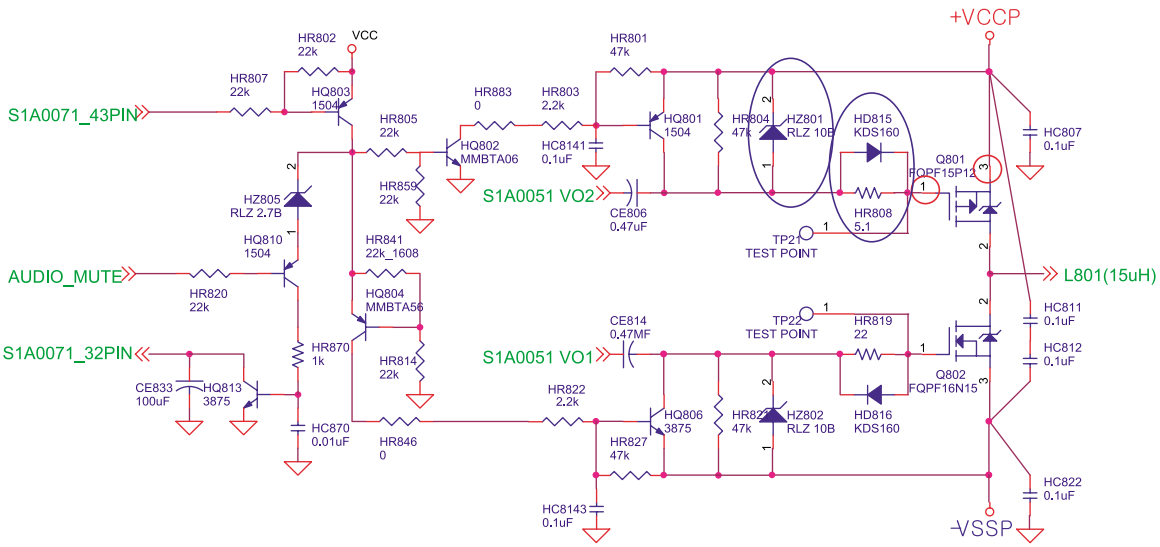
EX.	DESCRIPTION
EX6.	

FIG5. FET circuit

- ❑ Open diode zenner chip HZ801 and check.
- ❑ Check the red circled part with tester.
  If the resistor value is under HR804, FET is damaged
- ❑ Diode at drain and source of FET with tester is not measured, then FET is damaged.
  * Check the polarity of tester and point to measure.

• XG-726/ 727/ 728/ 7283 AMP Flow Chart-Test Point and Expected Results(Ex7, 8)

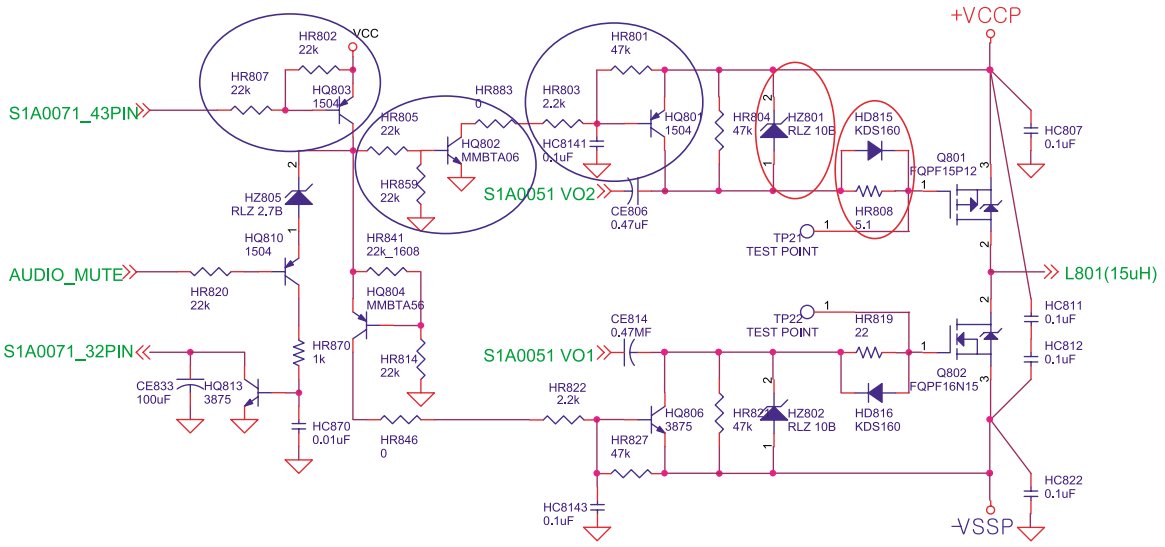
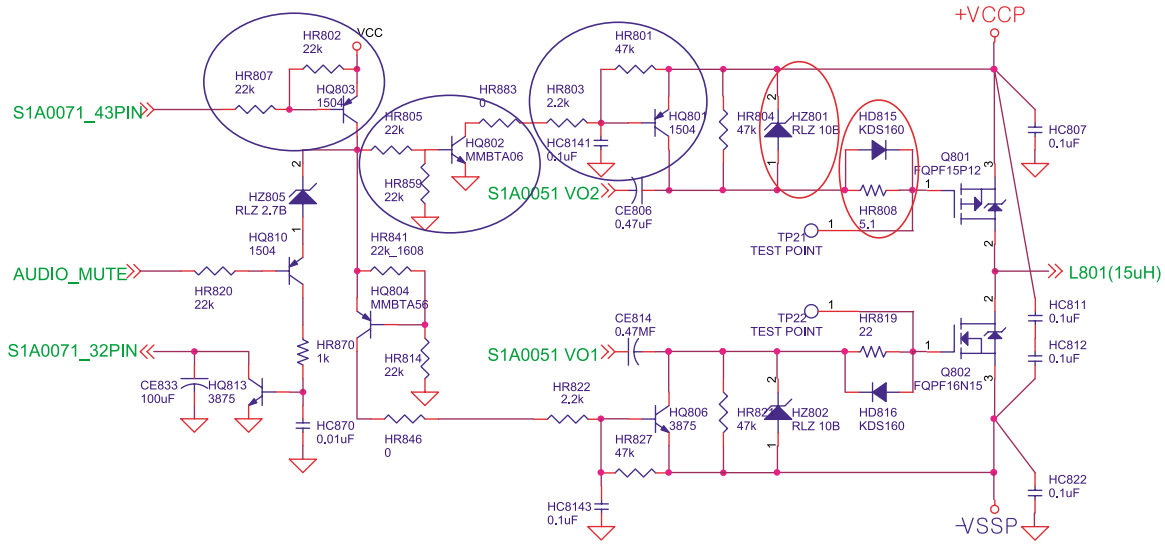
EX.	DESCRIPTION
EX7. EX8.	

FIG6. Circuit connected with FET

- ❑ Check the component's values connected with FET gate with use of tester.
- ❑ Check whether TR chip **used in FET protect circuit** is damaged.
  (If base and emitter are not measured with tester, HQ801 Transistor is damaged.)
  * Check the tester's polarity.

• XG-726/ 727/ 728/ 7283 AMP Flow Chart-Test Point and Expected Results(Ex7, 8)

EX.	DESCRIPTION
EX7. EX8.	

+VCCP
VCC
HR802 22k
HR807 22k
HQ803 1504
S1A0071_43PIN
HR805 22k
HR883 0
HR803 2.2k
HR801 47k
HQ801 1504
HQ802 MMBTA06
HC8141 0.1uF
HR804 47k
HZ801 RLZ 10B
HD815 KDS160
HC807 0.1uF
Q801 FQPF15P12
HZ805 RLZ 2.7B
HR859 22k
S1A0051 VO2
CE806 0.47uF
HR808 5.1
TP21 TEST POINT
HQ810 1504
HR841 22k_1608
AUDIO_MUTE
HR820 22k
HQ804 MMBTA56
L801(15uH)
HC811 0.1uF
HC812 0.1uF
CE814 0.47MF
TP22 TEST POINT
HR819 22
S1A0071_32PIN
HR870 1k
HR814 22k
S1A0051 VO1
Q802 FQPF16N15
CE833 100uF
HQ813 3875
HR822 2.2k
HQ806 3875
HR827 47k
HZ802 RLZ 10B
HD816 KDS160
HC870 0.01uF
HR846 0
HC822 0.1uF
HC8143 0.1uF
-VSSP

FIG6. Circuit connected with FET

- ❑ Check the component's values connected with FET gate with use of tester.
- ❑ Check whether TR chip **used in FET protect circuit** is damaged.
  (If base and emitter are not measured with tester, HQ801 Transistor is damaged.)
  * Check the tester's polarity.

2

• XG-726/ 727/ 728/ 7283 AMP Flow Chart-Test Point and Expected Results(Ex9)

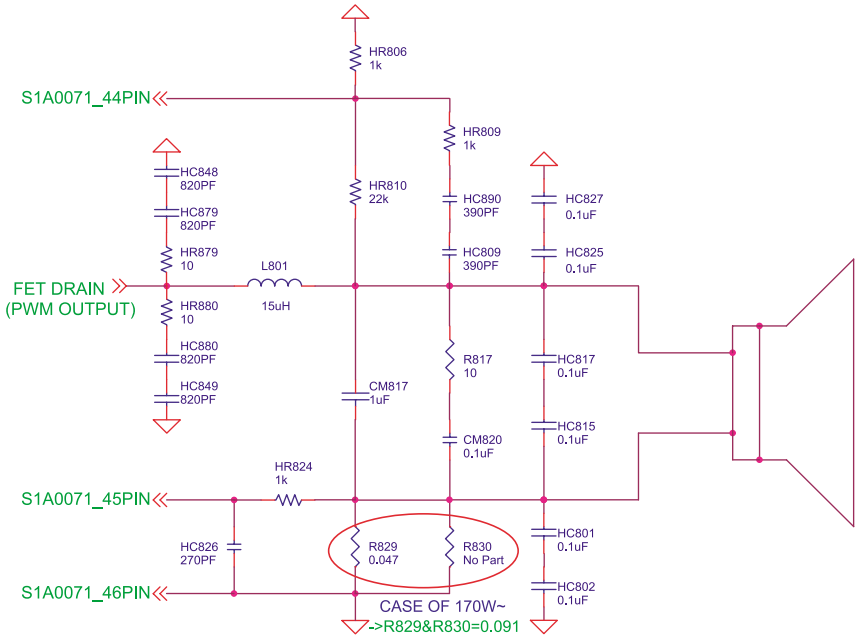
EX.	DESCRIPTION
EX9.	

FIG7. 0.047Ω(0.091Ω) resistor location

❑ Check whether R829 value is 0.047Ω with tester.
> **Normal measurement appratous can't this point**
(At over 170Watt channel, value of R829 and R830 is 0.091Ω.
They are parallel connection so their each value is 0.0455Ω)

• XG-726/ 727/ 728/ 7283 AMP Flow Chart-Test Point and Expected Results(Ex10, 13)

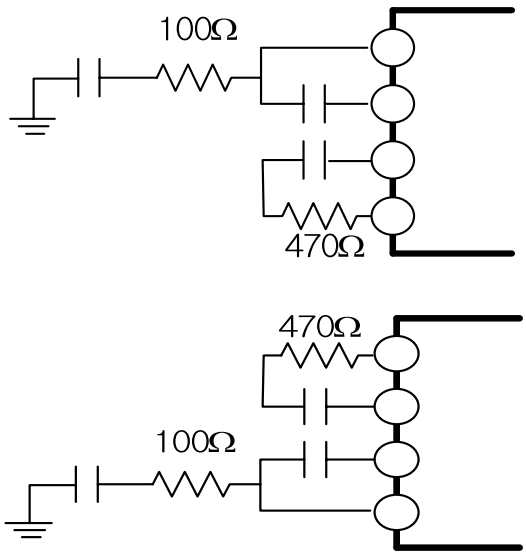
EX.	DESCRIPTION
EX10. EX13.	

FIG8. S1A0071 6, 7, 8, 9 PIN and
16, 17, 18, 19 PIN

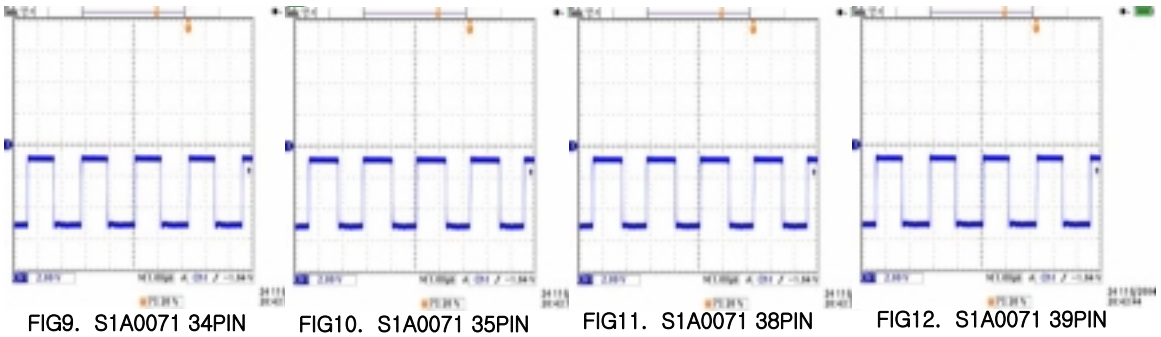
❑ Component values not to set as FIG8 are cause of wrong operation.
(Refer to S1A0071 PIN DESCRIPTION)

❑ Check whether FET protect circuit is damaged.
(If Diode of base and emitter isn't measured, TR is damaged.)
* Check the tester's polarity.

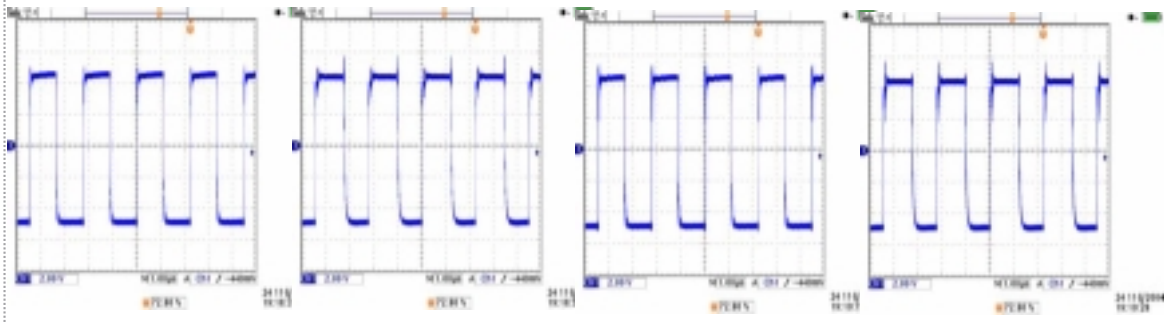
If this values NG ->sometims OSC
To test 6,7,8,9 pin short.
16,17,18,19 pin short.
100ohm open
> Current Feedback is stable
> But THD is not good

2

● XG-726/ 727/ 728/ 7283 AMP Flow Chart-Test Point and Expected Results(Ex11)

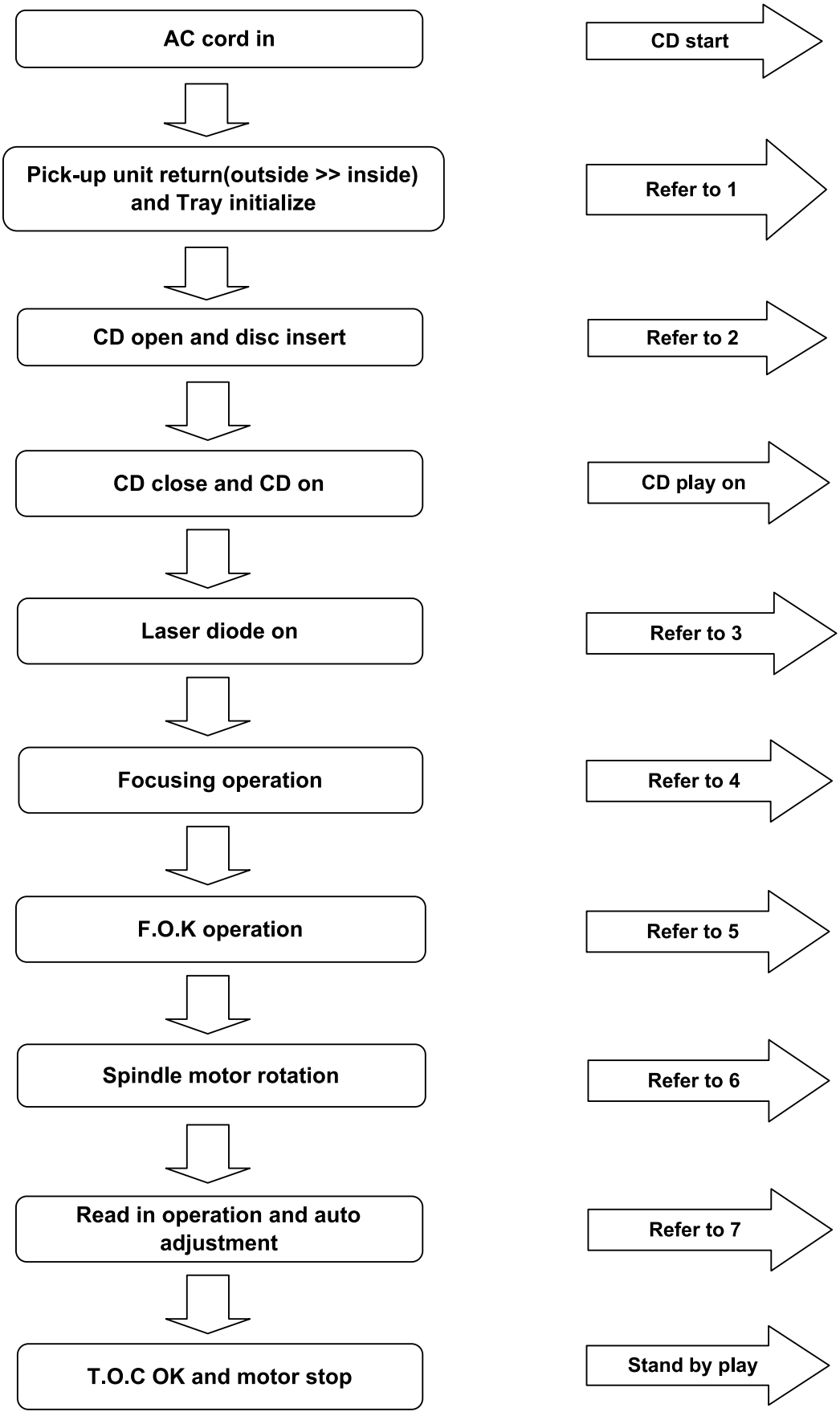
EX.	DESCRIPTION
EX11.	 FIG9. S1A0071 34PIN FIG10. S1A0071 35PIN FIG11. S1A0071 38PIN FIG12. S1A0071 39PIN ❑Waveform's period is about 2.3us(440kHz). ❑Waveform's amplitude is values between -0.7V and -5V.

● XG-726/ 727/ 728/ 7283 AMP Flow Chart

EX.	DESCRIPTION
EX12.	 FIG13. S1A0051 10PIN FIG14. S1A0051 11PIN FIG15. S1A0051 14PIN FIG16. S1A0051 15PIN ❑ Waveform period is about 2.3us(440kHz). ❑ Waveform's amplitude is value between +5V and -5V.

2

● XG-725/ 726/ 727/ 728/ 7283 CD Operation Flow Chart



2

● XG-725/ 726/ 727/ 728/ 7283 CD Operation Flow Chart

1. Pick-up unit return and Tray initialize

AC cord in

Yes

Initial CD — no →

1. Check CD power on +3.3V (CD PCB CW504 9 Pin)
2. Check + 9.0V (CD PCB CN509 1 Pin)
3. Check + 9.0V (IC502 BA5927FM 7,8,25 Pin)
   SL+(20 Pin) 4.2V, SL-(19 Pin) 4.2V
5. Check SL IN + 1.6V(IC502 B5927FM 24 Pin)
6. Check limit S/W : H >> L or L (IC501 LC78692NW
   50 Pin) cf.during play : H
7. Check CD Board(Around IC solder short, solder cold)

Yes

CD open and disc insert

2. CD open and disc insert

CD open and disc insert — no →

1. Check + 9.0V (IC502 BA5927FM 7,8,25 Pin)
2. Check + 3.1V (IC502 BA5927FM 31 Pin)

Yes

CD close and cd on — no →

Check + 3.1V (IC502 BA5927FM 30 Pin)

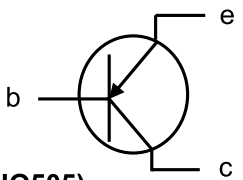
3. Laser diode on

Laser diode on — no →

1. Check + 1.8V LD on(HQ505 collector)
2. Check + 2.5V (HQ505 base pin) during play

Yes

Focusing operation



(HQ505)

	STOP	PLAY
e	3.3V	3.2V
b	3.3V	2.5V
c	0V	1.8V

4. Focusing operation

Focusing operation — no →

1. Check IC502(BA5927FM) 1,2 pin
   (1 Pin 4.1V, 2 Pin 4.2V during play)
2. Check + 1.7V (IC502 BA5927FM 6 Pin)

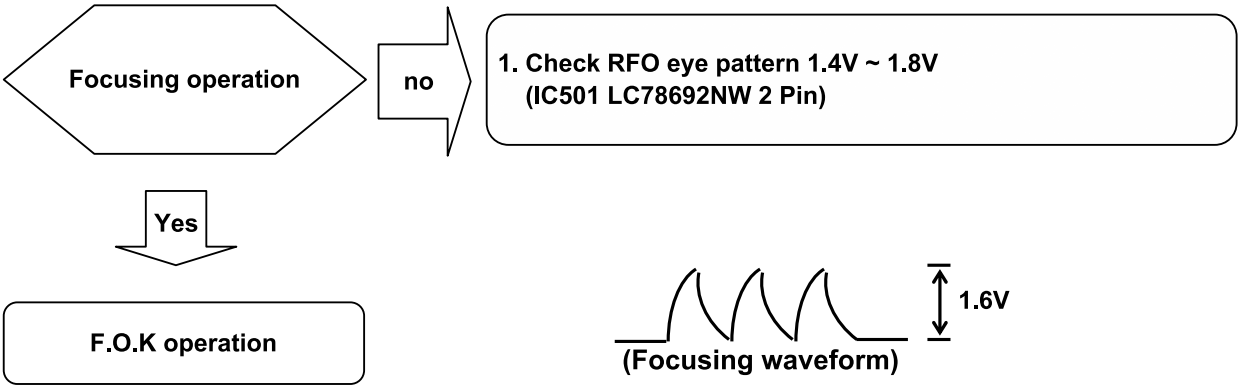
Yes

F.O.K operation

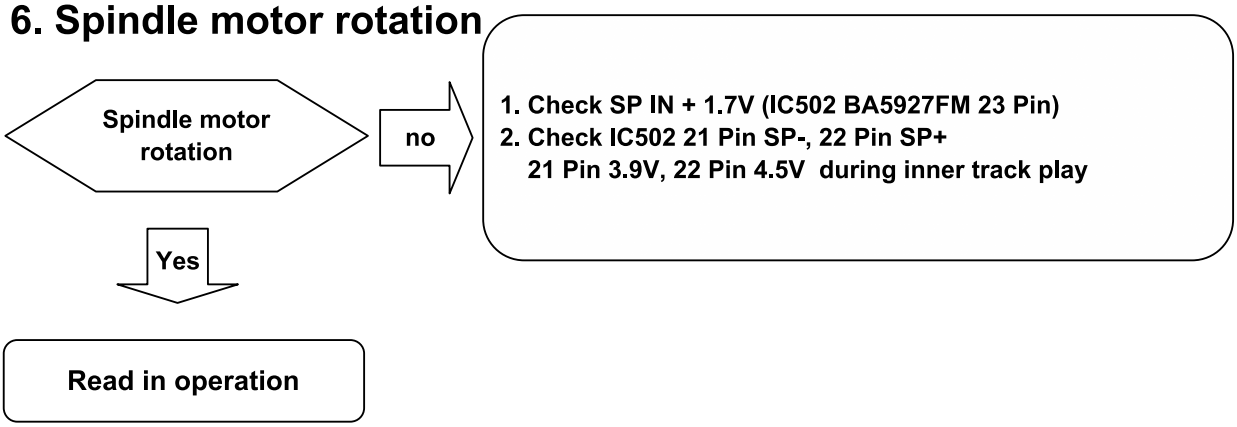
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● XG-725/ 726/ 727/ 728/ 7283 CD Operation Flow Chart

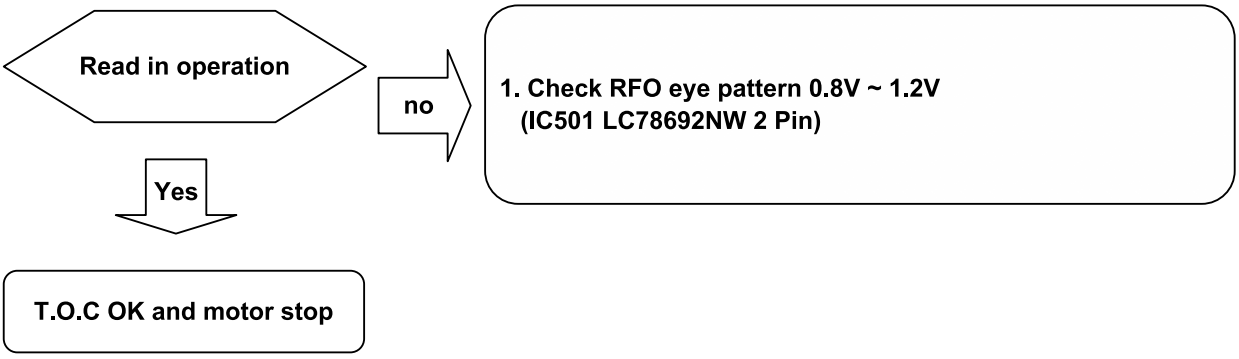
5. F.O.K operation



6. Spindle motor rotation

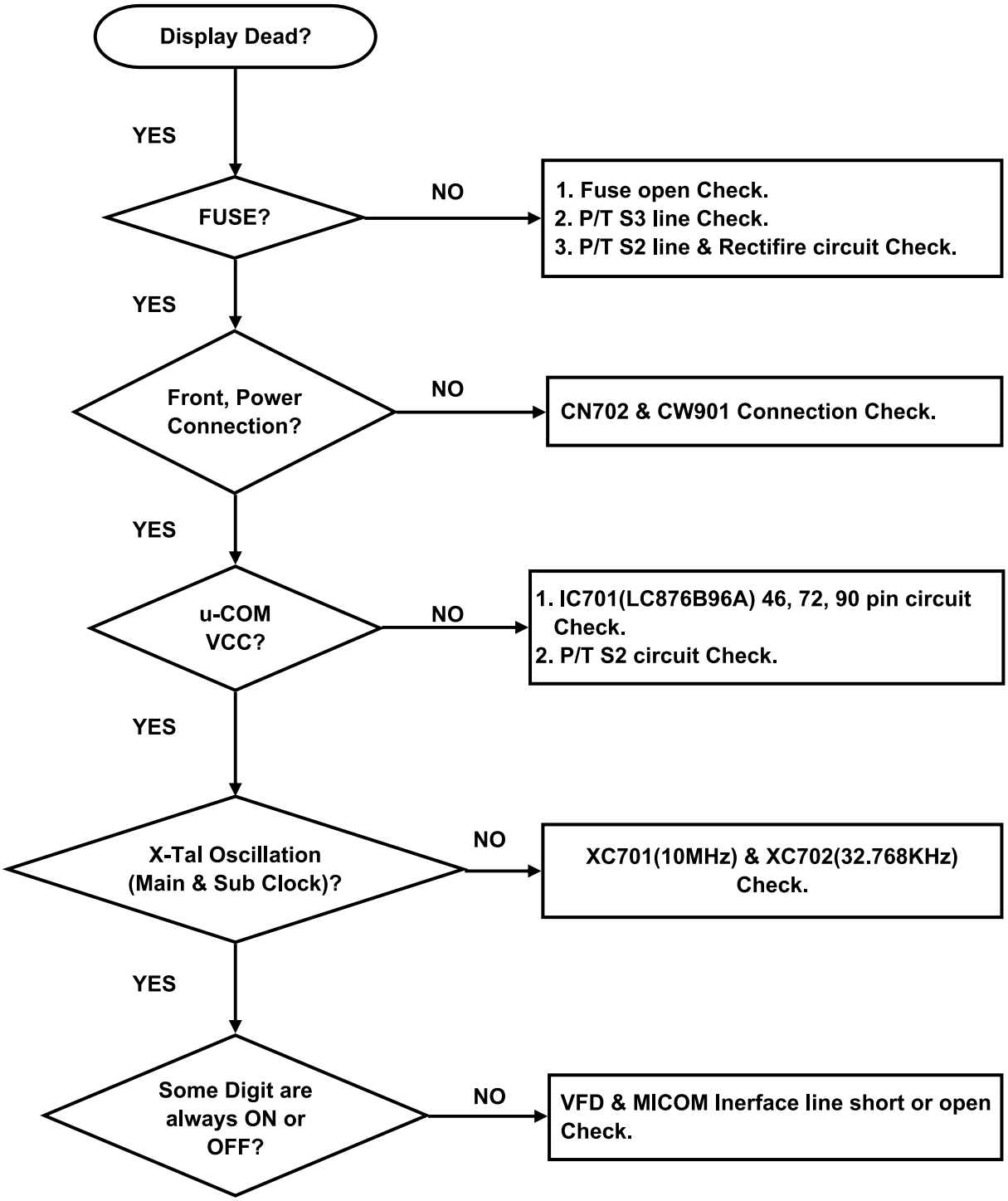


7. Read in operation



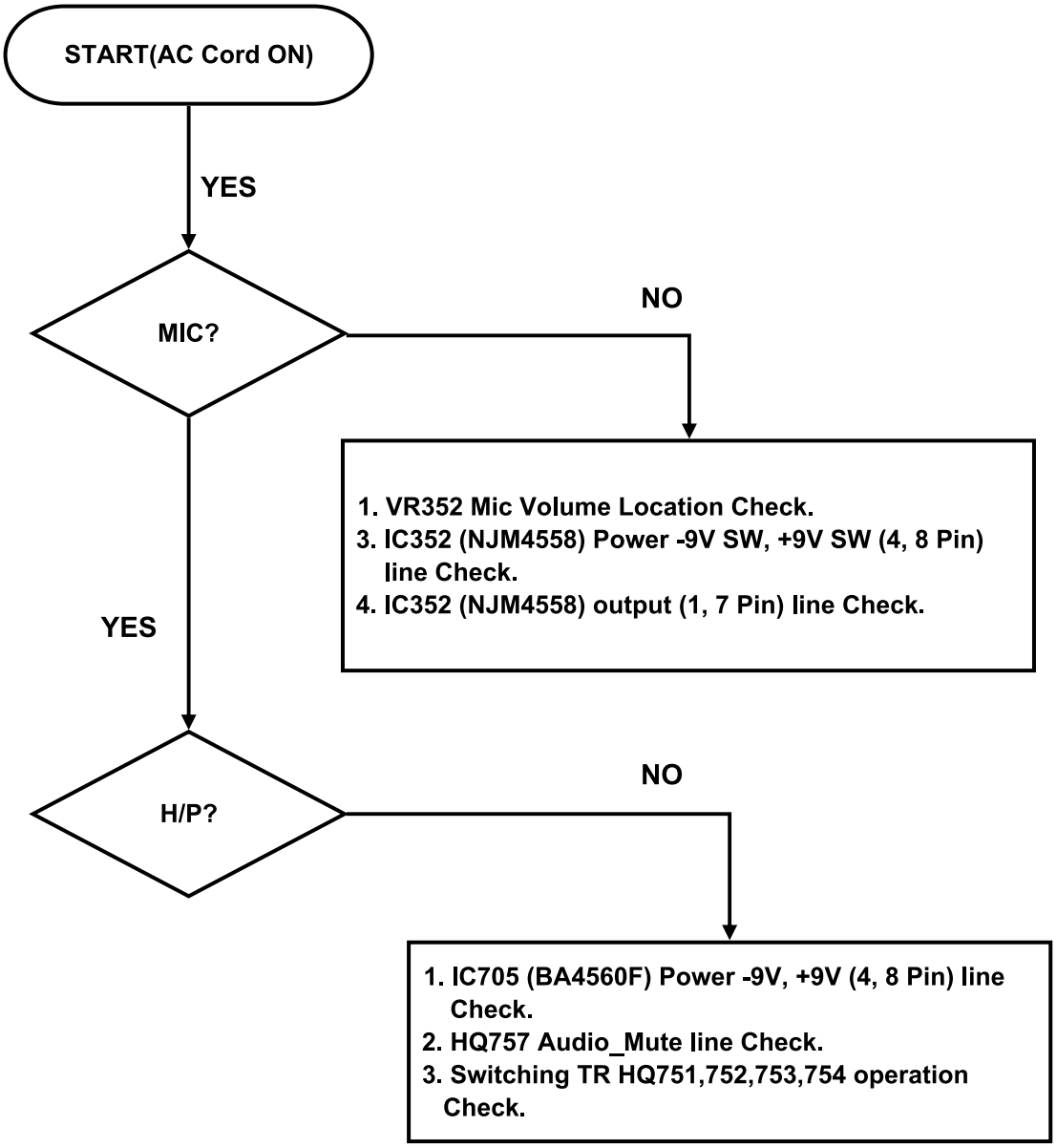
2

● XG-725/ 726/ 727/ 728/ 7283 Front Flow Chart



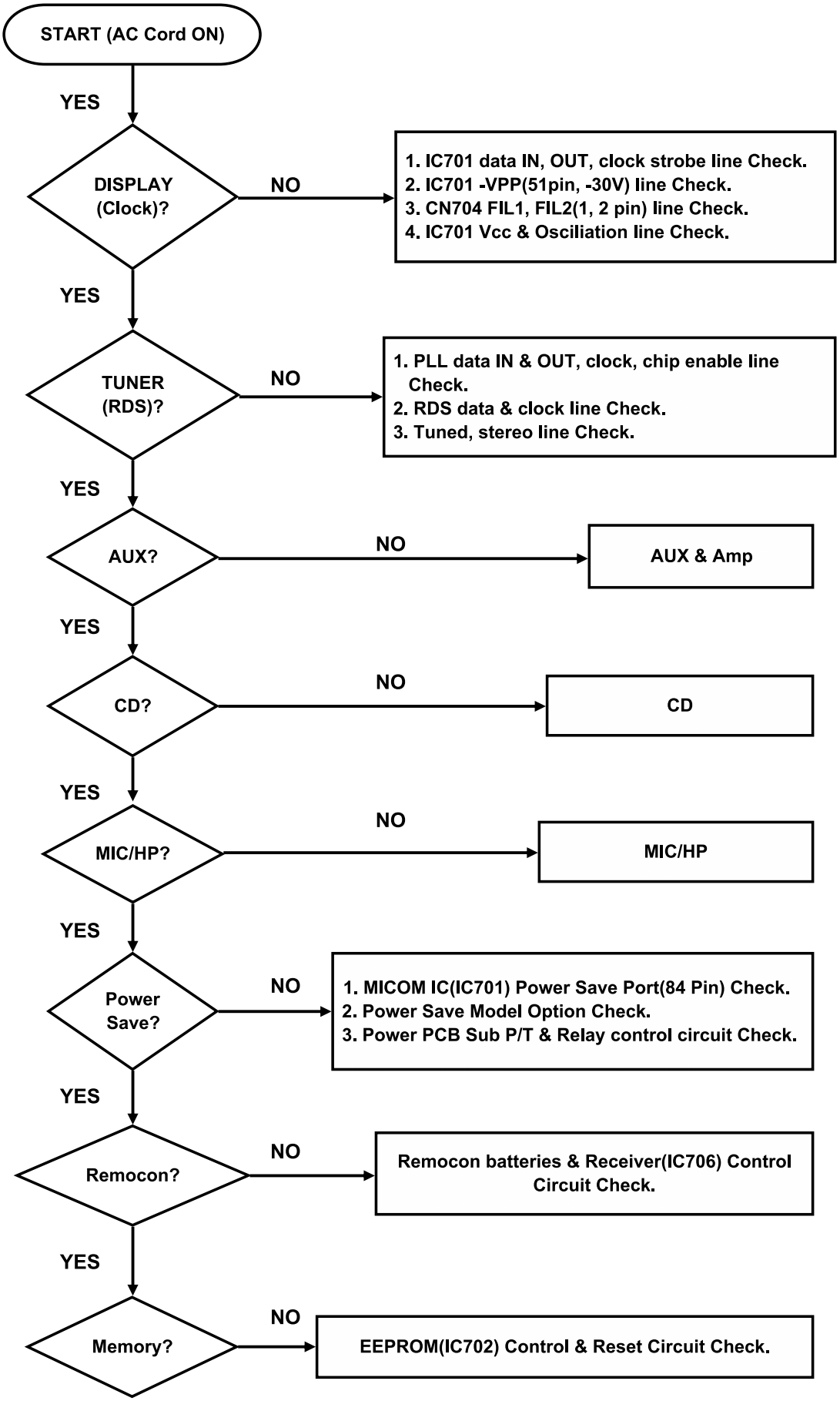
2

● XG-725/ 726/ 727/ 728/ 7283 MIC / Headphones Flow Chart



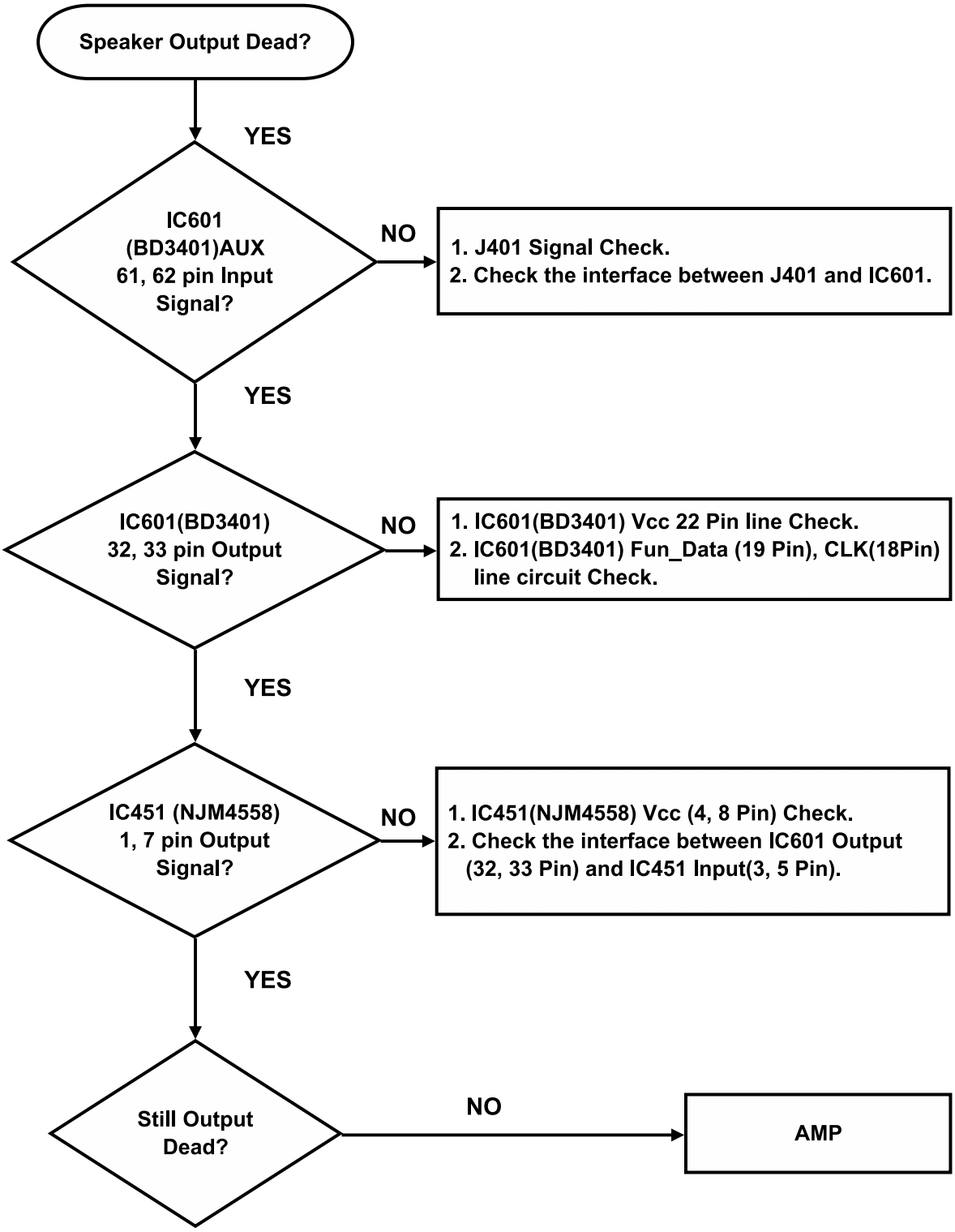
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● XG-725/ 726/ 727/ 728/ 7283 Power Line Flow Chart



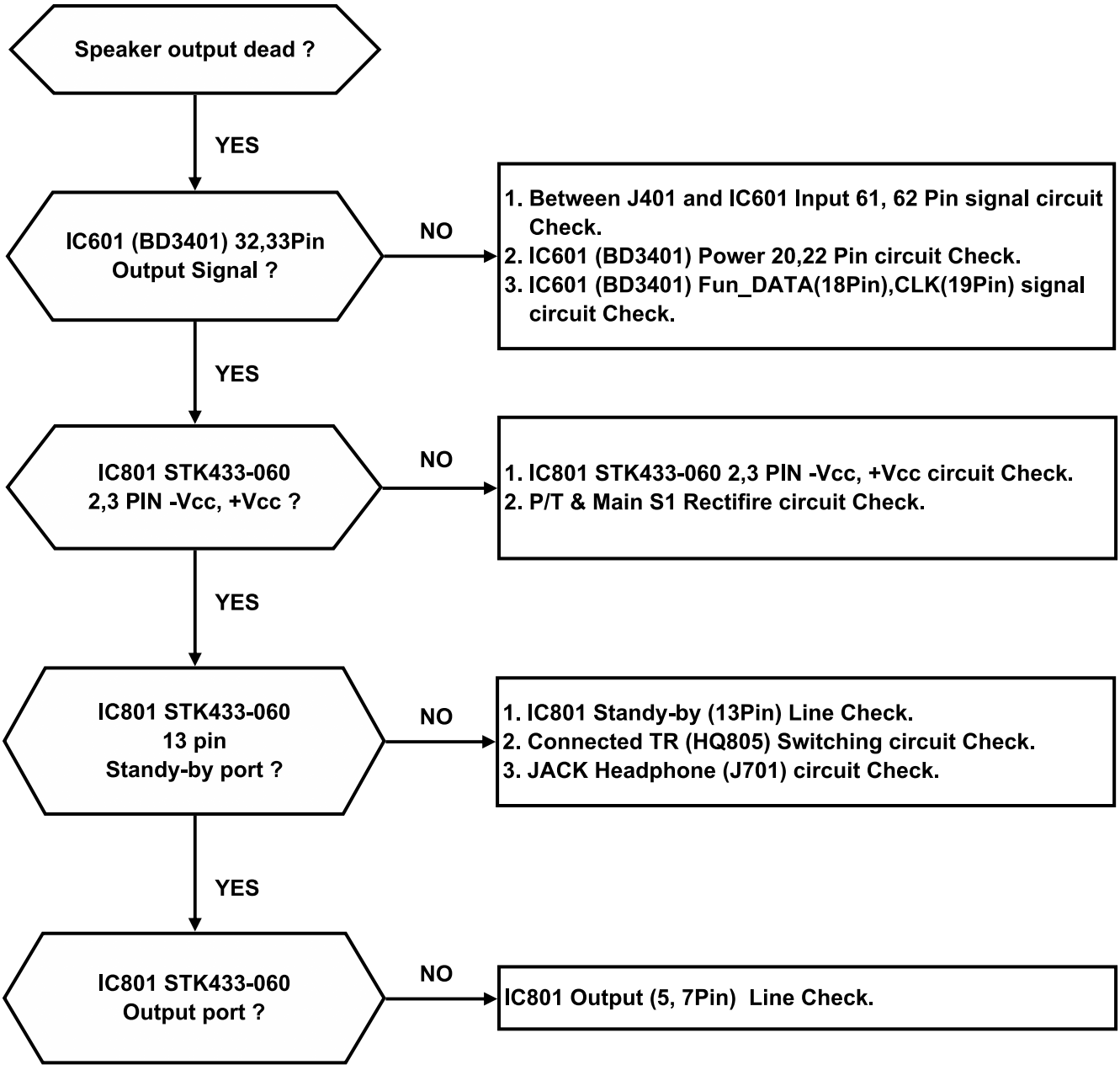
2

● XG-725/ 726/ 727/ 728/ 7283 AUX / Pre-amp Flow Chart



2

● XG-725 AUX / Amp Flow Chart



APPENDIX - ELECTRICAL PART LIST

PCB FUNCTION ASS'Y	9CDC088002 9CDC088000 9CDC089000		XG-725 XG-726/7/8 XG-7283
Locations	**Part Code**	**Part Name**	**Description**
HZ401	DMTZ3R3B--	DIODE ZENER CHIP	UDZ3.3B 17X12
HZ402 HZ404	DMTZ3R6B--	DIODE ZENER CHIP	UDZ3.6B 17X12
IC451 IC452	1NJM4558M-	IC	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 WMA MP3CD ASS'Y	9CDC087900		XG-725/6/7/8/83
Locations	**Part Code**	**Part Name**	**Description**
HZ500	DMTZ5R6B--	DIODE ZENER CHIP	UDZ5.6B 17X12
HZ501	DMTZ3R9B--	DIODE ZENER CHIP	UDZ3.9B 17X12
HZ502	DMTZ3R3B--	DIODE ZENER CHIP	UDZ3.3B 17X12
IC501	1LC78692NW	IC CD MP3 WMA	LC78692NW
IC502	1BA5927FM-	IC MOTOR DRIVE	BA5927FM
IC503	1LC87F14C8	IC USB DECODER	LC87F14C8A
L504	HLC220J03A	COIL CHIP	22uH CHIP COIL 2012
XC501	5PQZTT1693	RESONATOR CERA	QTTT16.93MMX(3PIN)
XC571	5XE12M000J	CRYSTAL QUARTZ	12.000MHz
R501	RS01Z229J-	R METAL OXIDE FILM	1W 2.2 OHM J
RF501	RF-2F478J-	R FUSEABLE	1/2W 0.47 OHM J

PCB FRONT ASS'Y	9CDC087500		XG-725/6/7/8/83
Locations	**Part Code**	**Part Name**	**Description**
FD701	DHNA11SM70	VFD	HNA-11SM70
HD354 HD355 HD356 HD701 HD707 HD708 HD712 HD713 HD751 HD752	DZDS160---	DIODE SW CHIP	KDS160(KDS511)
HQ354 HQ355 HQ356	TZTC3875S-	TR CHIP	KTC3875Y
HQ701 HQ711 HQ712 HQ713 HQ714 HQ715 HQ716 HQ717 HQ723	TZRC107S--	TR CHIP	KRC107S
HQ721 HQ724 HQ751 HQ752	TZRA111S--	TR CHIP	KRA111S
HQ753 HQ754	TZTD1304--	TR CHIP	KTD1304
HQ755 HQ757	TZRC111S--	TR CHIP	KRC111S
IC352	1NJM4558M-	IC	NJM4558M
IC701	1876B725V1	IC	LC876B96A-xxxx
IC702	1M24C04MN-	IC	M24C04MN S0P
IC703	174LCX125-	IC	74LCX125
IC705	1BA4560F--	IC AMP(CHIP TYPE)	BA4560F
IC706	1HK381BV3T	IC PRE AMP	HK381BV3T-12DW
J352 J701	9736325300	JACK H/P	HTJ-035-18A
LD703 LD704 LD705 LD706	DSLR332VC3F	LED	SLR332VC3F(RED)PI3
LD713 LD714 LD715 LD716 LD717 LD718 LD719 LD720	DMT-463UBD	LED	MT-463UBD/W60
LD730	DSLR332VC3F	LED	SLR332VC3F(RED)PI3
SW701 SW702 SW703 SW704 SW705 SW706 SW707 SW710 SW711 SW712 SW713 SW714 SW715 SW716 SW717 SW718 SW719 SW720 SW721 SW722 SW723 SW724 SW725	5S50101Z67A	SW TACT	SKQNAED010
VR352	5V1503728B	VOL MIC	RK09K1110AV8
VR701	5SH1224375	SW ENCODER	EVE GA1 F25 24B
VR702	5SH2830A05	SW ENCODER	EVQV5C00315B
XC701	5PZTT10MT-	RESONATOR CERA	ZTT10.00MT(10MHz, 3PIN)
XC702	5XA32R768C	X-TAL	C38T 32.768KHz 20PPM

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APPENDIX - ELECTRICAL PART LIST

PCB VIDEO ASS'Y	9CDC087502		XG-725/6/7/8/83
Locations	**Part Code**	**Part Name**	**Description**
J705	9736329100	JACK	RCA-308HG Video Jack

PCB USB ASS'Y	9CDC087503		XG-725/6/7/8/83
Locations	**Part Code**	**Part Name**	**Description**
J703	9736329300	JACK USB	USAF-046N-WP-01
SW708 SW709	5S50101Z67A	SW TACT	SKQNAED010

PCB AMP ASS'Y	9CDC088300 9CDC082601 9CDC088200 9CDC082700		XG-726 XG-727 XG-728 XG-7283
Locations	**Part Code**	**Part Name**	**Description**
HD805 HD811 HD812 HD813 HD815 HD816 HD817 HD818	DZDS160---	DIODE SW CHIP	KDS160 (KDS511)
HQ801 HQ803 HQ807 HQ809 HQ810 HQ811 HQ827 HQ829	TZTA1504S-	TR CHIP	KTA1504Y
HQ802	TMMBTA06--	TR CHIP	MMBTA06
HQ804	TMMBTA56--	TR CHIP	MMBTA56
HQ805 HQ806 HQ808 HQ812 HQ813 HQ814 HQ815 HQ817 HQ818 HQ819 HQ823 HQ828	TZTC3875S-	TR CHIP	KTC3875Y
HQ820	TZRA111S--	TR CHIP	KRA111S
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
HZ805	DRLZ2R7B--	DIODE ZENER CHIP	RLZ2.7B
IC801	1S1A0071--	IC AUDIO PROCESSOR	S1A0071_401
IC802	1S1A0051X-	IC FET DRIVER	S1A0051X
IC803	1KIA7905AP	IC REGULATOR	KIA7905AP
IC804	1KIA7805AP	IC REGULATOR	KIA7805AP
IC806	1NJM4558M-	IC	NJM4558M
J801	9736320500	JACK SPEAKER	CJ9007-040
L801 L802	5LF150K855	COIL FILTER	15uH(TC16B-09)
Q801 Q803	DFQF15P12-	FET	FQPF15P12
Q802 Q804	DFQF16N15-	FET	FQPF16N15
R816 R817 R847 R848	RS03Y100J-	R METAL OXIDE FILM	3W 10 OHM J
R829 R853	HRFR047JLCR	R CHIP	1W 0.047 OHM 64X32 5%(MCR100JZHJSR047) (64x)

PCB AMP ASS'Y	9CDC088100	ANALOG	XG-725
Locations	**Part Code**	**Part Name**	**Description**
D801 D802	DKN4148---	DIODE	IN4148 AUTO 26MM
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 R811 R812 R824	RD-AK222J-	R CARBON FILM	1/6 2.2K OHM J
R803 R804 R827	RD-AK102J-	R CARBON FILM	1/6 1K OHM J
R805 R806	RD-AK104J-	R CARBON FILM	1/6 100K OHM J
R807 R808	RD-AK471J-	R CARBON FILM	1/6 470 OHM J
R809 R810 R833 R834	RD-AK563J-	R CARBON FILM	1/6 56K OHM J
R817 R818 R861 R862	RS-4K100J-	R METAL OXIDE FILM	1/4 10 OHM J
R823 R863	RD-AK472J-	R CARBON FILM	1/6 4.7K OHM J
R825	RD-AK333J-	R CARBON FILM	1/6 33K OHM J
R826	RD-AK682J-	R CARBON FILM	1/6 6.8K OHM J
R828 R829	RS-4K101J-	R METAL OXIDE FILM	1/4 100 OHM J
R835 R836	RN02B228JS	R METAL FILM	2W 0.22 OHM J
R860	RD-AK223J-	R CARBON FILM	1/6 22K OHM J

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APPENDIX - ELECTRICAL PART LIST

PCB POWER ASS'Y	**9CDC087601**	**XG-725**
	9CDC087701	**XG-726**
	9CDC089100	**XG-727**
	9CDC087800	**XG-728**
	9CDC089200	**XG-7283**

Locations	Part Code	Part Name	Description
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 (XG-616/7UW)	KBJ604G
	DGBJ1006G--	DIODE (XG-618UW)	GBJ1006
F903 F904	5F1GB3122L	FUSE GLASS TUBE (XG-725)	UL/CSA TL 3.15A 250V MF51
	5FSGB4022R	FUSE GLASS TUBE (XG-726)	VDE N/T 4.0A 250V
	5FSGB5022R	FUSE GLASS TUBE (XG-727)	VDE N/T 5.0A 250V
	5FSGB6322R	FUSE GLASS TUBE (XG-728)	VDE TL 6.3A 250V MF51
	5FSGB6322R	FUSE GLASS TUBE (XG-7283)	VDE TL 6.3A 250V MF51
HD902 HD903 HD904 HD906 HD907 HD991 HD992 HD993 HD994	D1SR154---	DIODE RECTIFIER	1SR154-400 4526
HD995	DZDS160---	DIODE SW CHIP	KDS160(KDS511)
HQ902	TZTC3875S-	TR CHIP	KTC3875S
HQ903	TZRA111S--	TR CHIP	KRA111S
HQ904	TZRC107S--	TR CHIP	KRC107S
HQ905	T2SA2071--	TR CHIP	2SA2071
HQ991	T2SC5824--	TR CHIP	2SC5824
HZ902 HZ904 HZ905	DMTZ10B---	DIODE ZENER CHIP	UDZ10B 17X12
HZ903	DMTZ30B---	DIODE ZENER CHIP	UDZ30B 17X12
IC902 IC903	1KIA278R09PI	IC REGULATOR	KIA278R09PI
IC991	1AIC1117CY-	IC REGULATOR	AIC117-CY
PT901	5TP0074987	TRANS POWER (XG-725)	EI=74X42 127/230V, 60/50Hz
	5TP8066979	TRANS POWER (XG-726)	EI=66X50 230V/50Hz
	5TP8074981	TRANS POWER (XG-727)	EI=74X52 230V/50Hz
	5TP8074983	TRANS POWER (XG-728)	EI=74X62 230V/50Hz
	5TP8074989	TRANS POWER (XG-7283)	EI=74X62 230V/50Hz
PT992	5TP8028985	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

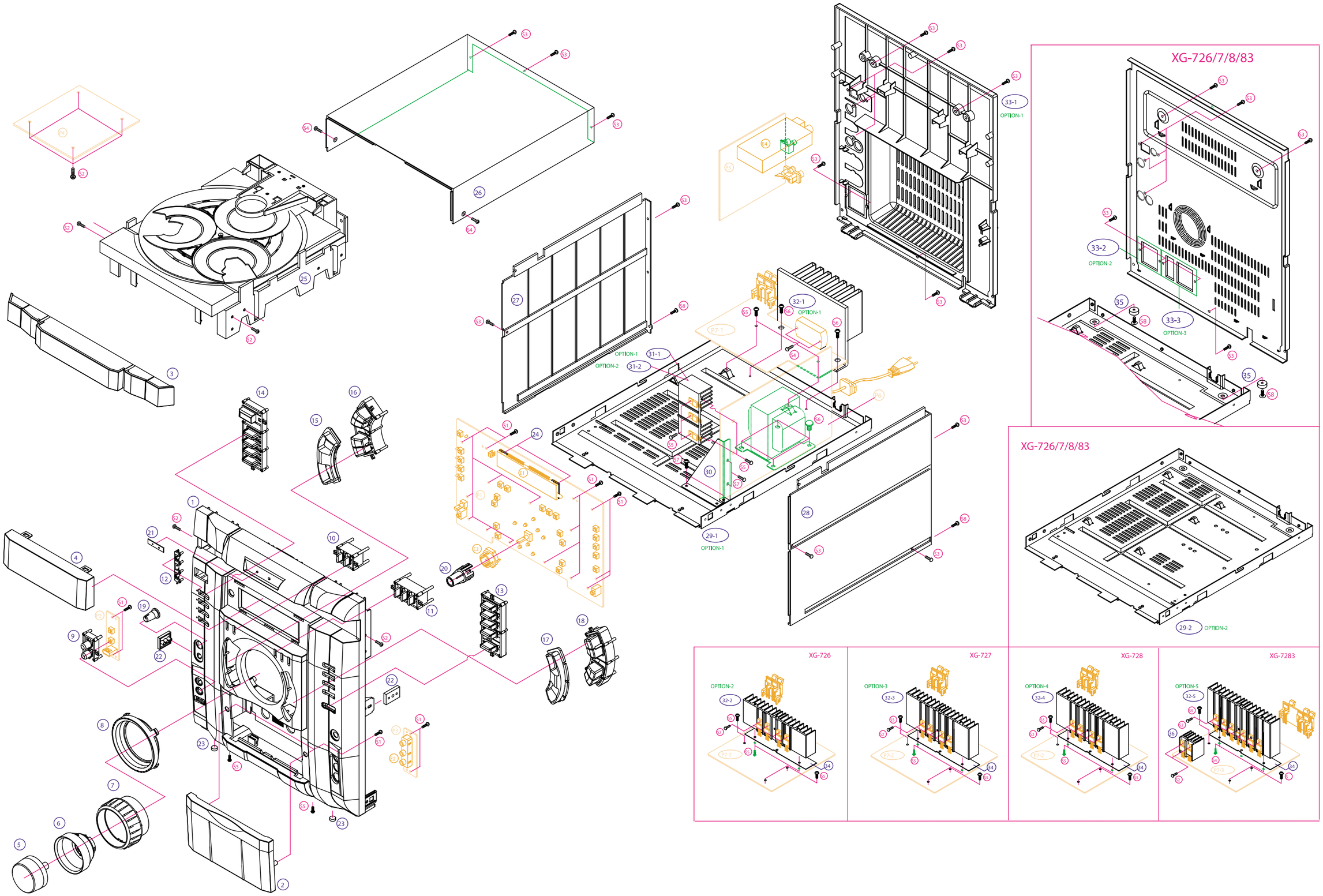
REMOCON ASS'Y

Without RDS : 9CDM062507
With RDS : 9CDM062603

8

Exploded View and Mechanical Parts List

3



Exploded View and Mechanical Parts List

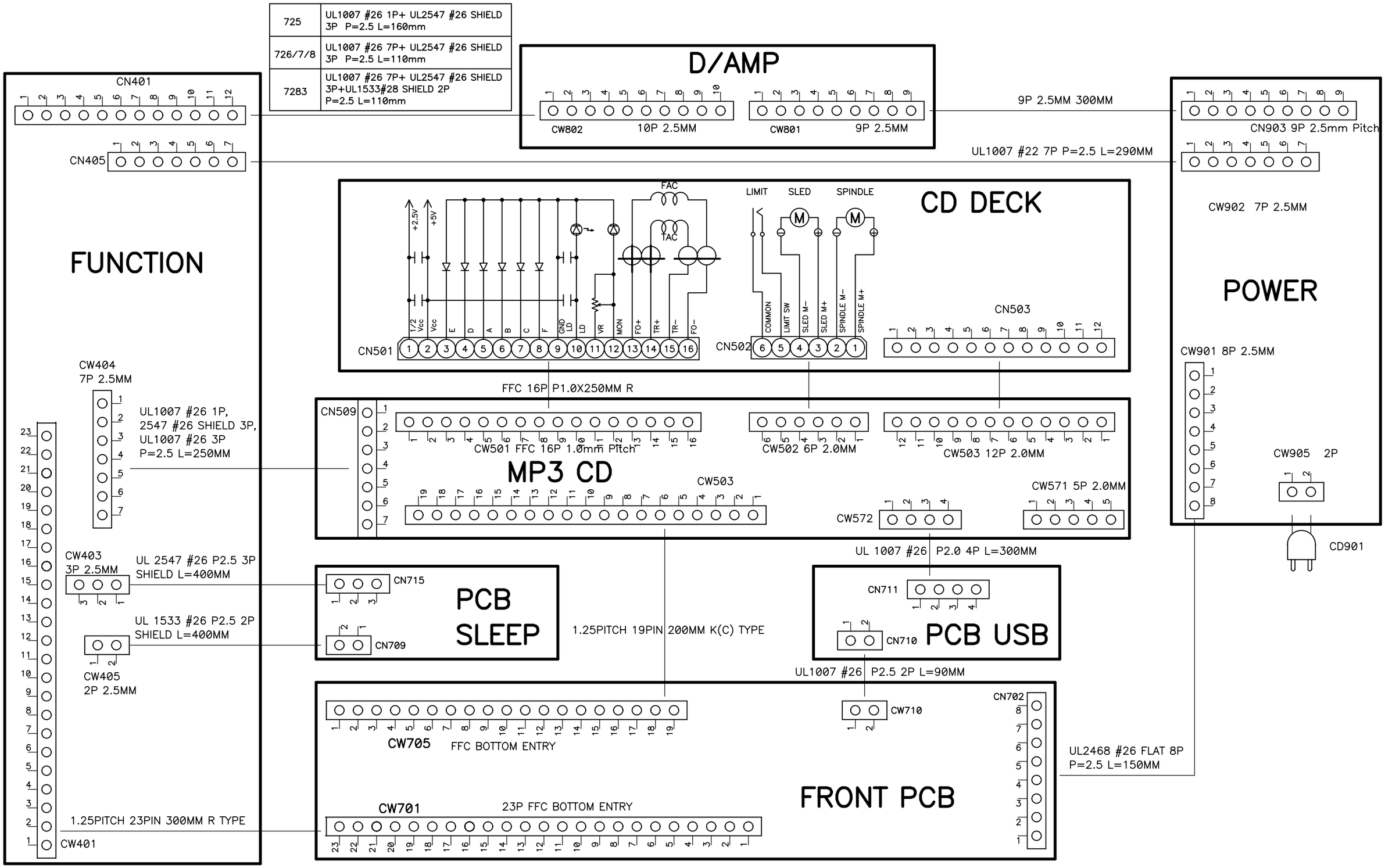
NO	PARTS NAME	CODE NO.	DESCRIPTIONS	Q'TY	REMARKS
1	PANEL FRONT	9CD0317800	HIPS, SPRAY	1	
2	COVER DECK	9CD0420900	HIPS, SPRAY	1	
3	DOOR CD	9CD1817600	HIPS, SPRAY	1	
4	WINDOW FLT	9CD1625500	ACRYL, SMOG	1	
5	KNOB VOLUME	9CD1362000	HIPS, SPRAY	1	
6	DECO VOLUME	9CD1012100	ACRYL	1	
7	KNOB JOG	9CD1362100	HIPS,SPRAY	1	
8	DECO JOG	9CD1012200	ACRYL	1	
9	KNOB REC	9CD1362200	HIPS, SPRAY	1	
10	KNOB GAME	9CD1362600	SPRAY	1	
11	KNOB SURR	9CD1362700	SPRAY	1	
12	LENS FUNCTION	9CD1625600	ACRYL	1	
13	KNOB DISC	9CD1361900	HIPS,SPRAY	1	
14	KNOB POWER	9CD1361800	HIPS,SPRAY	1	
15	DECO PRESET L	9CD10124L0	HIPS, SPRAY	1	
16	KNOB PRESET L	9CD13625L0	HIPS, SPRAY	1	
17	DECO PRESET R	9CD10124R0	HIPS, SPRAY	1	
18	KNOB PRESET R	9CD13625R0	HIPS, SPRAY	1	
19	KNOB MIC	9CD1362400	HIPS, SPRAY	1	
20	GUIDE VOLUME	9CD2508400	HIPS	1	
21	BADGE BRAND	9CD1505300	AL	1	DAEWOO brand
22	BRKT SIDE	9CD2412900	ABS	2	
23	CUSHION FOOT	9CD4207700	URETHANE D10*4.0T	2	
24	CUSHION VFD	9CD4210001	EVA T4.5	2	COMMON PART : XD-615
25	CD DECK MECHA	9CD6014500	DCC-02DA11（DA11VZ）	1	NEW 3CD CHANGER
26	COVER TOP	9CD0409600	HIPS	1	COMMON PART
27	COVER SIDE "L"	9CD04177L1	HIPS	1	COMMON PART
28	COVER SIDE "R"	9CD04177R1	HIPS	1	COMMON PART
29-1	CHASSIS BOTTOM	9CD0611401	SECC T1.0	1	FOR XG-725
29-2		9CD0612601	SECC T1.0	1	FOR XG-726/7/8/83
30	BRACKET PCB D	9CD2417800	SECC T1.0	1	XG-535 COMMON PART
31-1	HEATSINK PW	9CD4409701	AL H=37	1	FOR XG-725/6/7
31-2		9CD4409710	AL H=47	1	FOR XG-728/83
32-1	HEATSINK 50	9CD4409500	AL	1	FOR XG-725
32-2	HEATSINK 75W	9CD4411800	AL	1	FOR XG-726
32-3	HEATSINK 120W	9CD4411900	AL	1	FOR XG-727
32-4	HEATSINK AMP 150	9CD4410400	AL	1	FOR XG-728
32-5	HEATSINK 2.1CH	9CD4412000	AL	1	FOR XG-7283
33-1	COVER BACK	9CD0417605	HIPS	1	FOR XG-725
33-2	CHASSIS BACK	9CD0612500	SECC T0.8	1	FOR XG-726/7/8
33-3		9CD061250	SECC T0.8	1	FOR XG-7283
34	PLATE PCB AMP	9CD0914600	PC	1	FOR XG-726/7/8/83
35	RUBBER FOOT	9CD0801000	RUBBER	2	FOR XG-726/7/8/83
36	HEAT SINK IC	9CD4408100	AL	1	FOR XG-7283

					725	726/7/8	XG-7283
S1	SCREW TAPTITE	7173261011	TT2 BIN 2.6*10 MFZN		21	21	21
S2	SCREW TAPTITE	7173301011	TT2 BIN 3*10 MFZN		10	12	17
S3	SCREW TAPTITE	7173301212	TT2 BIN 3*12 BK		19		
S3		7173301012	TT2 BIN 3*10 BK			17	17
S4	SCREW TAPTITE	7173301612	TT2 BIN 3*14 BK		4	2	2
S5	SCREW TAPTITE	7173300811	TT2 BIN 3*8 MFZN		9	14	14
S6	SCREW TAPTITE	7173400611	TT2 BIN 4*6 MFZN		6	4	4
S7	SCREW TAPTITE	7173300611	TT2 BIN 3*6 MFZN		4	4	4
S8	WASHER SCREW	9CD3102403	TT2 BIN 3*10 WAS + D8		2	4	4
P1	PCB FRONT			1			
P2	PCB SLEEP			1			
P3	PCB VIDEO			1			
P4	PCB CD			1			
P5	PCB FUNCTION			1			
P6	PCB POWER			1			
P7-1	PCB AMP			1	XG-725		
P7-2	PCB AMP			1	XG-726/7/8		
P7-3	PCB AMP			1	XG-7283		
E1	VFD			1			
E2	VIDEO JACK			1			
E3	ENCODER JOG			1			
E4	TUNER MODULE			1			
E5	VOLTAGE SELECTOR			1			

3

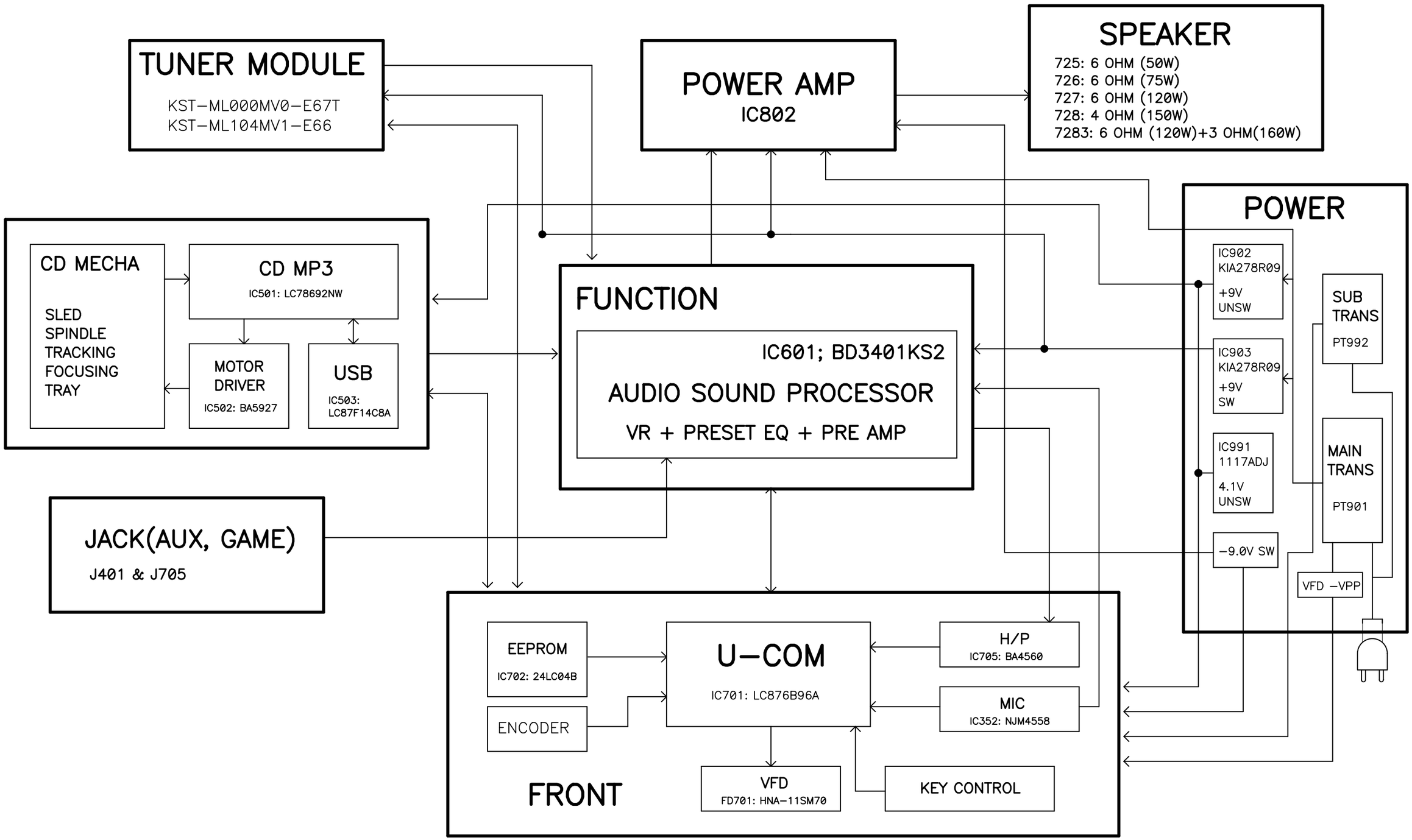
Wiring Diagram

- XG-725/ 726/ 727/ 728/ 7283 Models



Block Diagram

- XG-725/ 726/ 727/ 728/ 7283 Models



• FRONT Section : XG-725/ 726/ 727/ 728/ 7283 Models

* TUNER BAND OPTION

Version / BAND	America 1/12Hr	America 2/24Hr	CIS/24Hr/RDS	EU1/24Hr	Japan /12Hr	Asia 1/12Hr	Asia 2/24Hr	CIS w/o RDS	Latin Am /12Hr	Eur2/ 24Hr/RDS	SEMP/24Hr (AM input gain +3.5dB)
FM(MHz)/Step	FM 87.5~108/100	FM 87.5~108/100	FM L: 65 ~74/10	FM 87.5~108/50	FM 76~108/100	FM 87.5~108/100	FM 87.5~108/100	FM L: 65 ~74/10	FM 87.5~108/100	FM 87.5~108/50	FM 87.5~108/100
FM(MHz)/Step			FM H:87.5~108/50					FM H:87.5~108/50			
MW(kHz)/Step	AM 520~1710/10	AM 520~1710/10	MW 522~1620/9	MW 522~1620/9	AM 522~1620/9	AM 522~1620/9	AM 522~1620/9	AM 522~1620/9	AM 520~1620/10	MW 522~1620/9	AM 520~1710/10
HR731	Jump	330	680	1.2K	1.8K	2.7K	3.9K	6.8K	10K	22K	47K
TU001		9737652810								9737652901	

	HR316	HJ708
W New JOG	O	X
W OLD JOG	X	O

	HR706	HR705	HR712	LD730	HQ717
W PS	X	3.9k	560	RED	C107S
W/O PS	10k	X	X	X	X

	HR710	HR711
w AM	O	X
w/o AM	X	O

TUNER CD/USB AUX GAME JOG VOLUME

MIC J352 HTJ-035-18A

H/P JACK J701 HTJ-035-18A

IC701 LC876B64C

CN702 8P TO POWER

CW701 23PIN

19PIN CW705

* GAME

* USB

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• FUNCTION Section : XG-725/ 726/ 727/ 728/ 7283 Models

	XG-64x	XG-72x
HR405/406	27K	22K
HR407/408	39K	33K
H411/412	47K	39K
HR435/436	8.2K	6.8K
HR437/438	10K	12K

	XG-64x	XG-72x
CE457/459	OPEN	2.2/50V
CE458/460	OPEN	47/25
HR463/466	OPEN	56K
HR465/467 469	OPEN	100
HR468	OPEN	27K
HR470	0 ohm	OPEN
HC458/459	OPEN	100p
HC457	OPEN	1000p

	XG-64x	XG-72x
1 PIN	−12V SW	−9V SW
3 PIN	+12V SW	+9V SW
6 PIN	+12V UNSW	+9V UNSW

	645/6/7/8 725/6/7/8	6483 7283
CE453/454	4.7/50V	1/50V
CM410/411 412/413	563	123
HR419/420	10K	39K

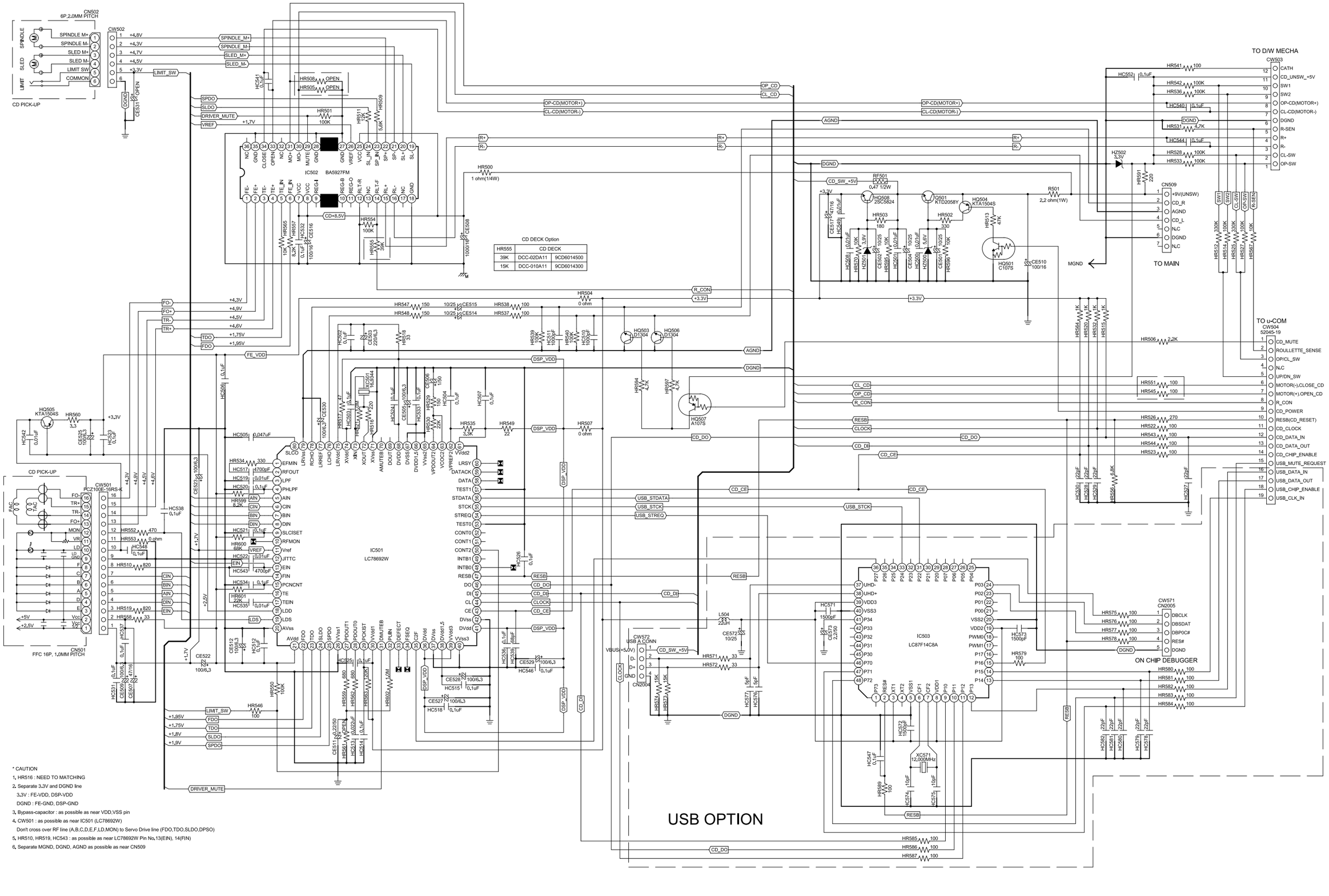
	XG-64x	XG-72x
HR461/462	1K	560

	645/6/7/8	725/6/7/8
HD401/402	KDS160	0 ohm
HZ401	5.1V	3.3V
HR433	560	1.2K
HR431	47(3216)	1(3216)
HR444	33(3216)	0(3216)

XG-645	XG-646/7/8	XG-6483
XG-725	XG-726/7/8	XG-7283
4P(A/AMP)	10P(D/AMP)	12P(D/AMP,2.1CH)

6

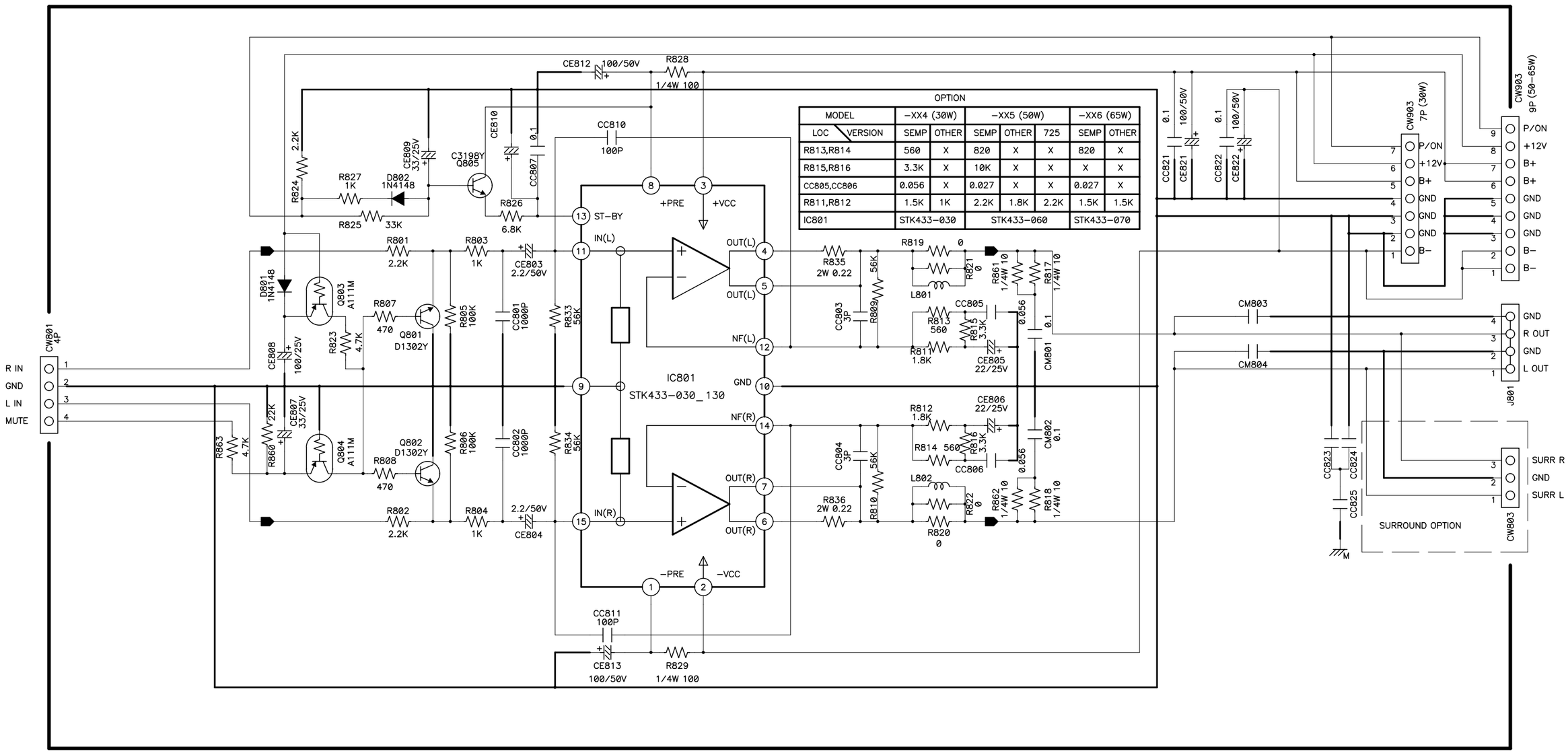
• MP3 CD Section : XG-725/ 726/ 727/ 728/ 7283 Models



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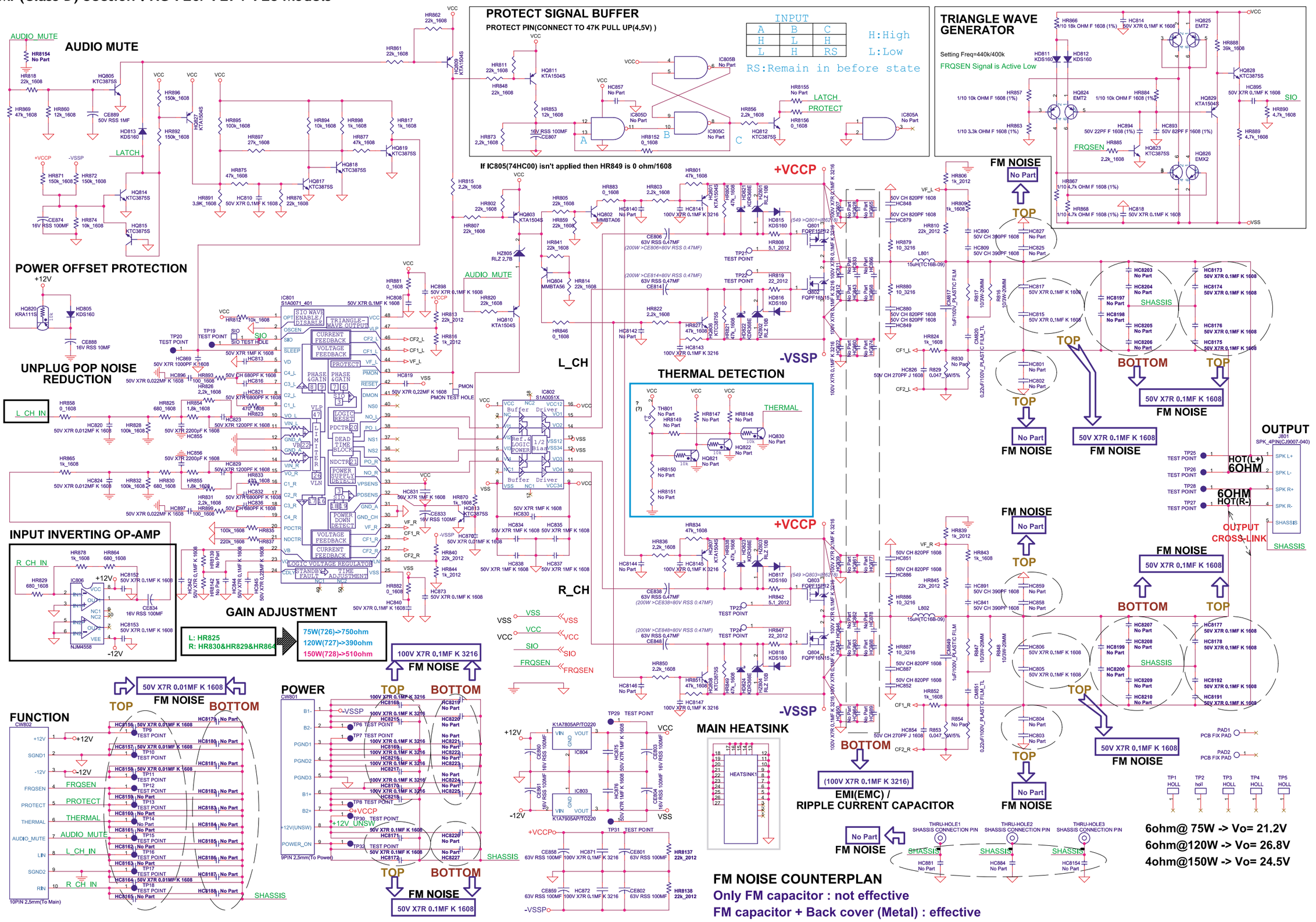
Schematic Diagram

● AMP Section : XG 725 Model Only



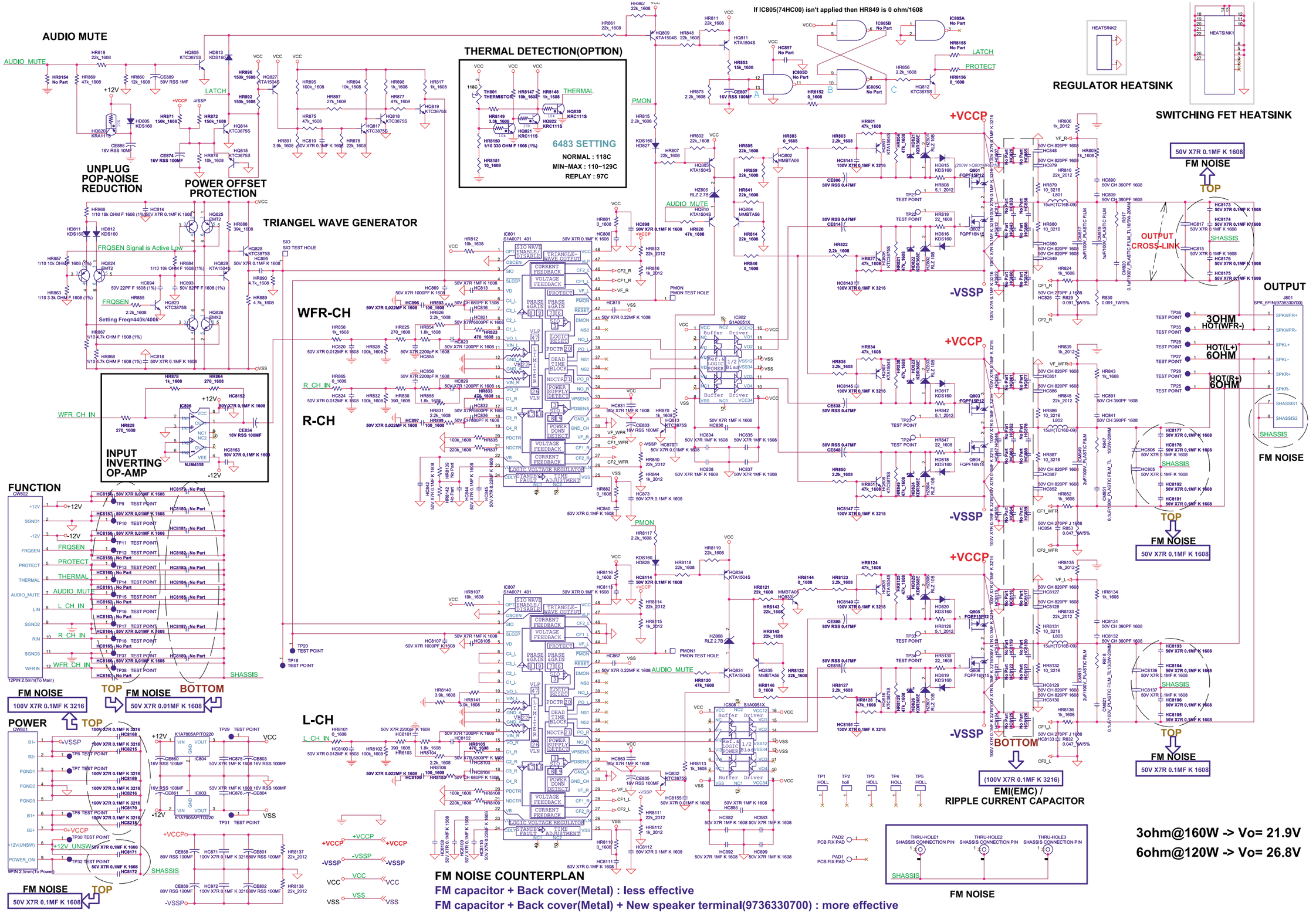
OPTION							
MODEL	-XX4 (30W)		-XX5 (50W)			-XX6 (65W)	
LOC \ VERSION	SEMP	OTHER	SEMP	OTHER	725	SEMP	OTHER
R813,R814	560	X	820	X	X	820	X
R815,R816	3.3K	X	10K	X	X	X	X
CC805,CC806	0.056	X	0.027	X	X	0.027	X
R811,R812	1.5K	1K	2.2K	1.8K	2.2K	1.5K	1.5K
IC801	STK433-030		STK433-060			STK433-070	

• AMP(Class D) Section : XG 726/ 727 / 728 Models

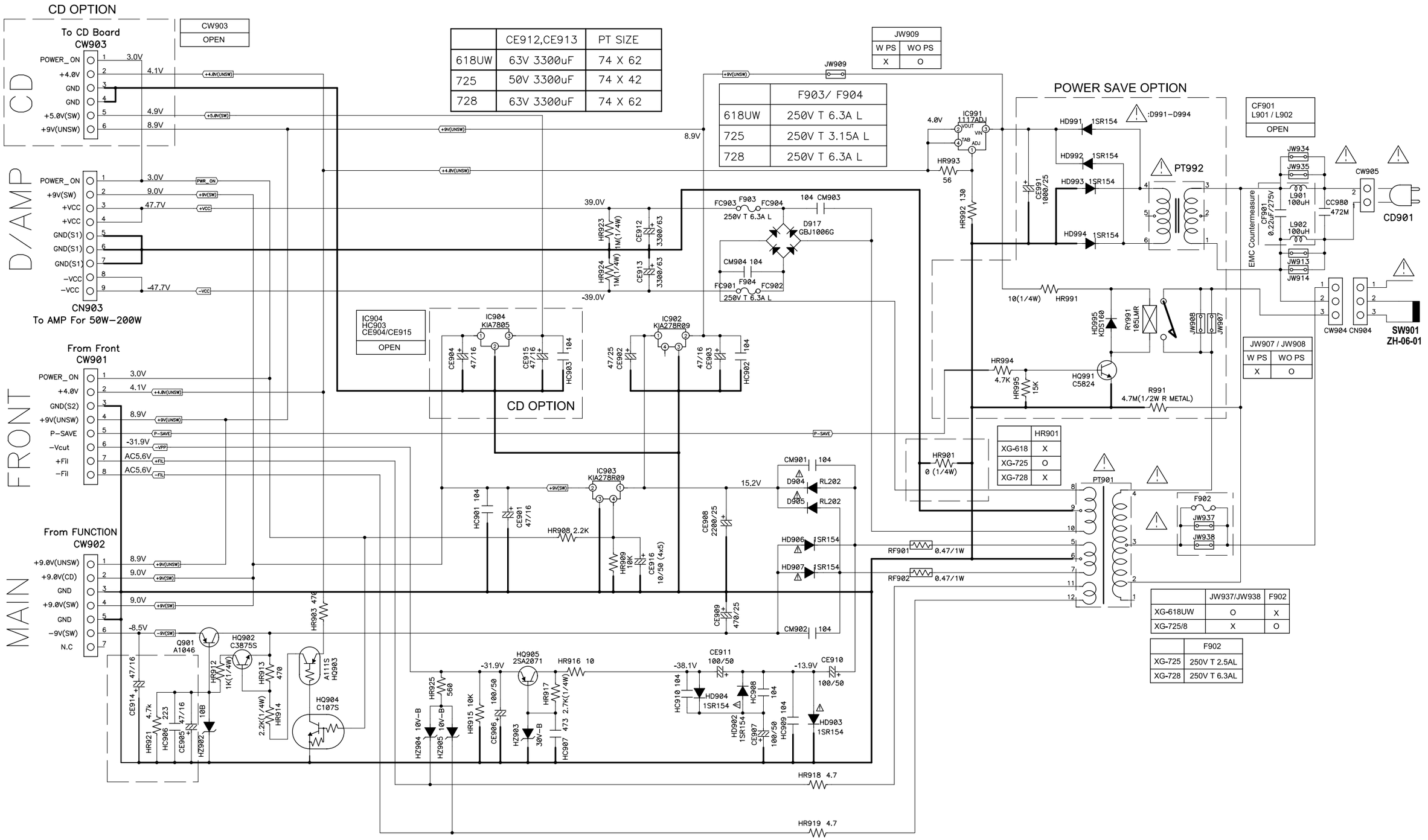


Schematic Diagram

• AMP(Class D) Section : XG-7283 Model Only



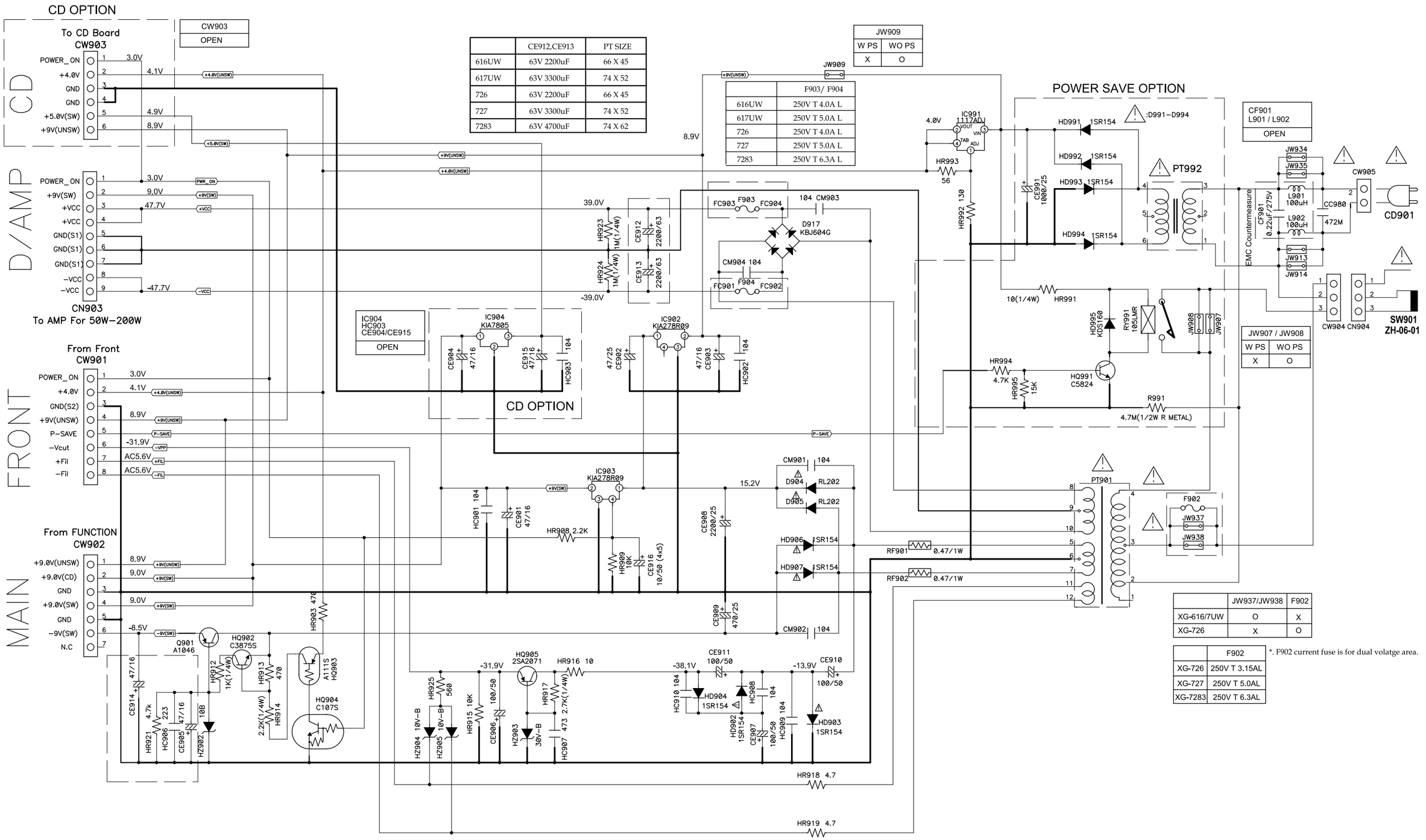
• POWER Section : XG-725/ 728 Models



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Schematic Diagram

• POWER Section : XG-726/ 727/ 7283 Models



	JW937/JW938	F902
XG-616/7UW	O	X
XG-726	X	O

	F902
XG-726	250V T 3.15AL
XG-727	250V T 5.0AL
XG-7283	250V T 6.3AL

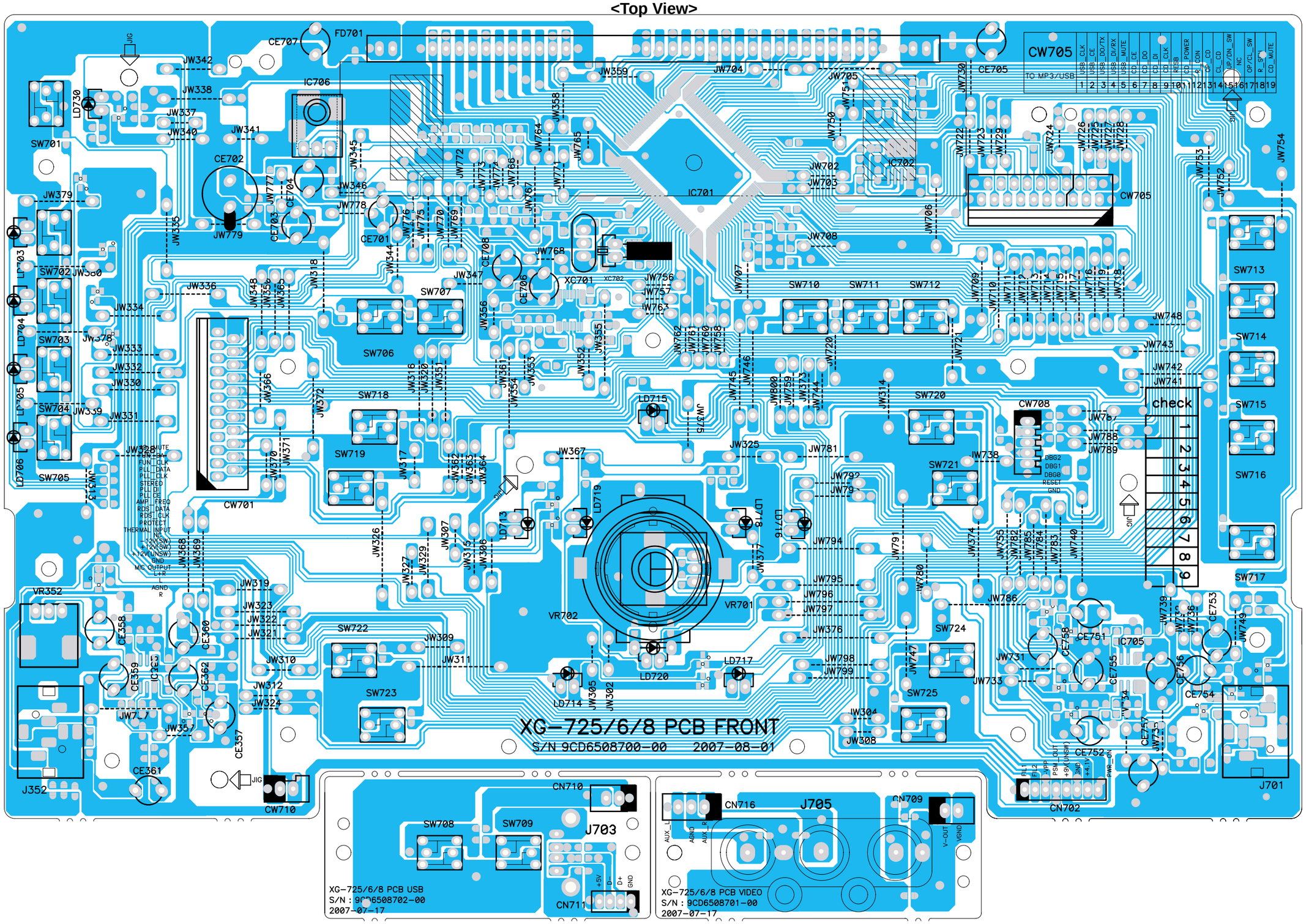
*. F902 current fuse is for dual volatge area.

6

P.C.B Pattern Layout

- FRONT Section : XG-725/ 726/ 727/ 728/ 7283 Models

<Top View>

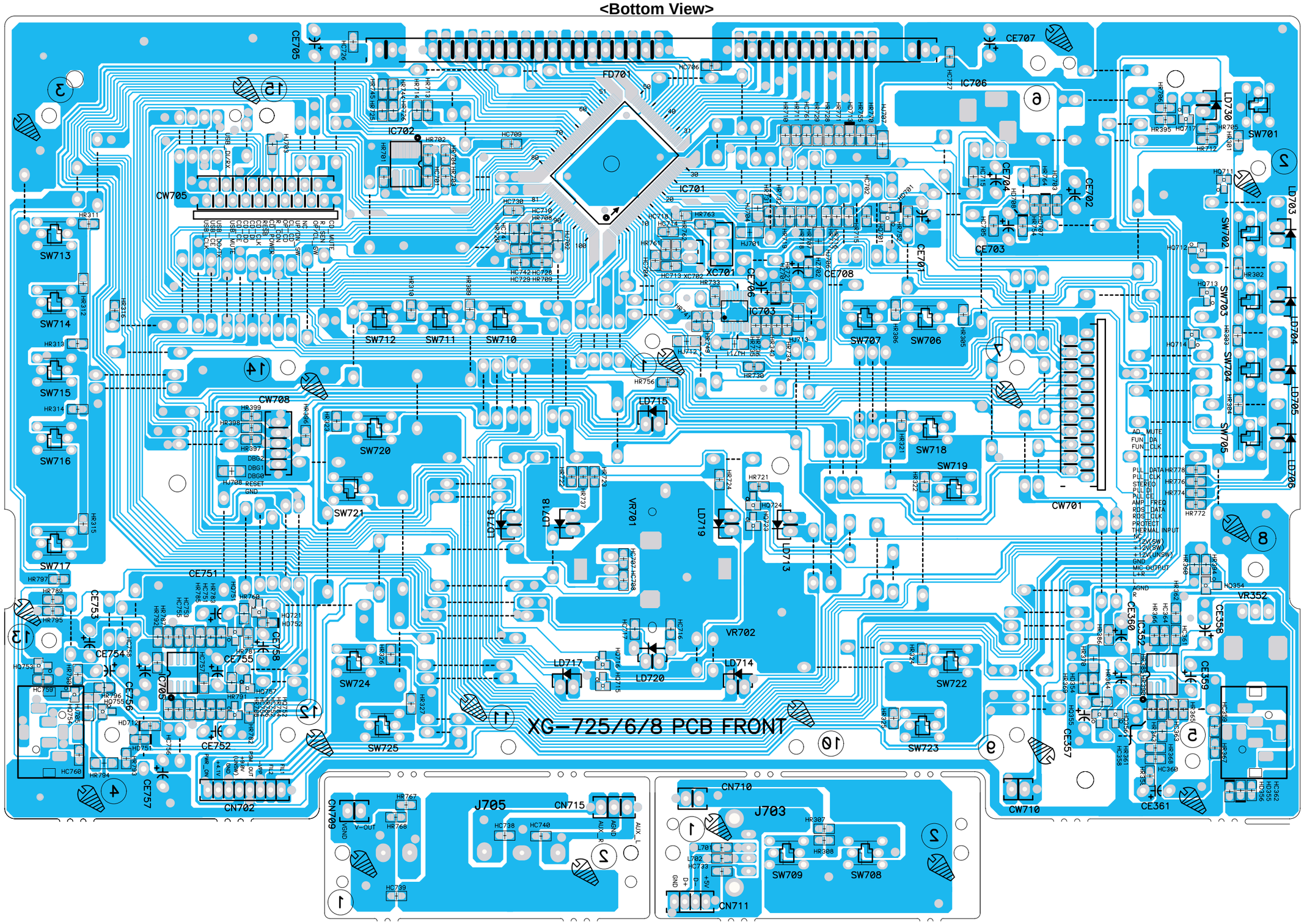


7

P.C.B Pattern Layout

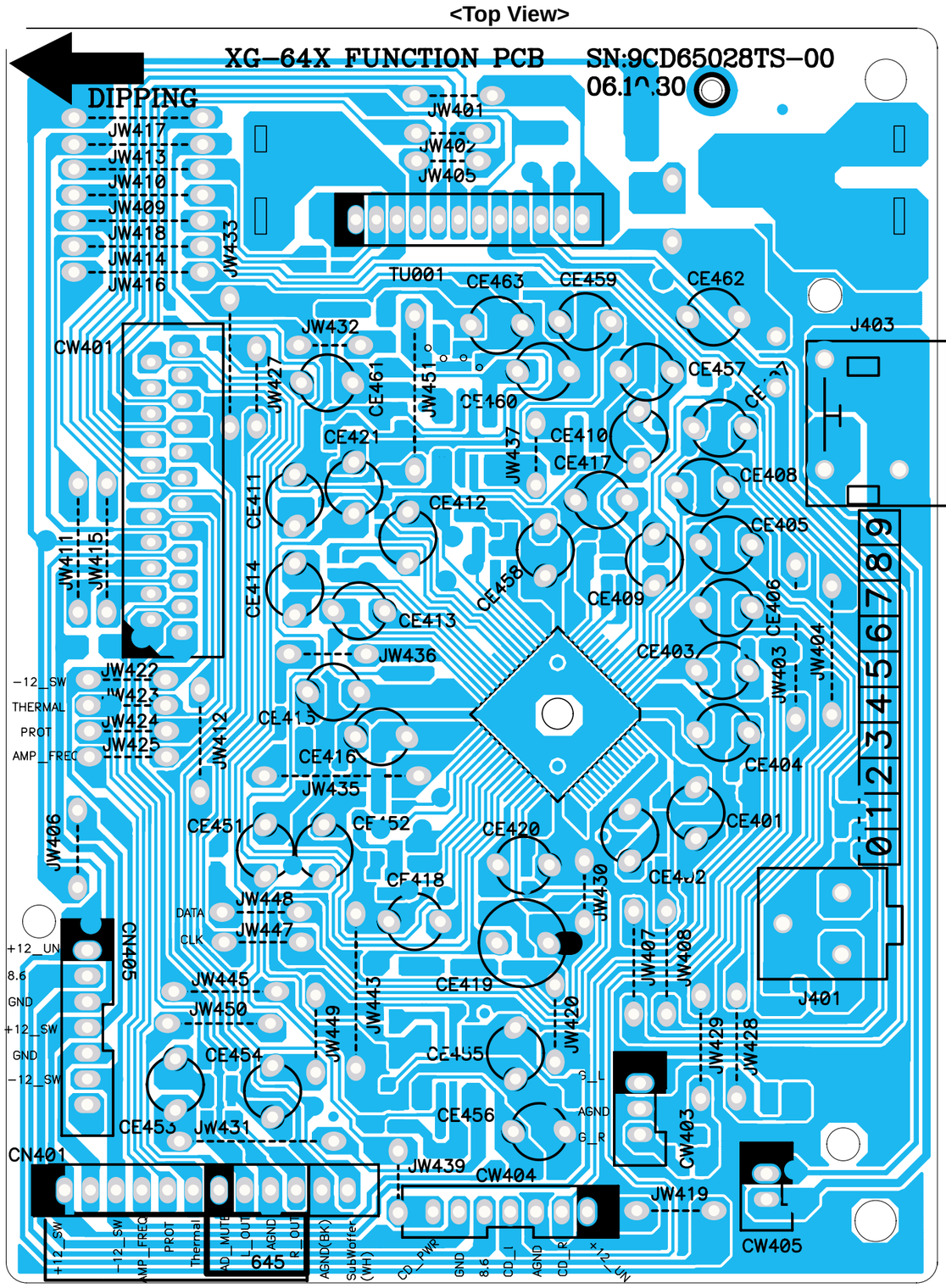
- FRONT Section : XG-725/ 726/ 727/ 728/ 7283 Models

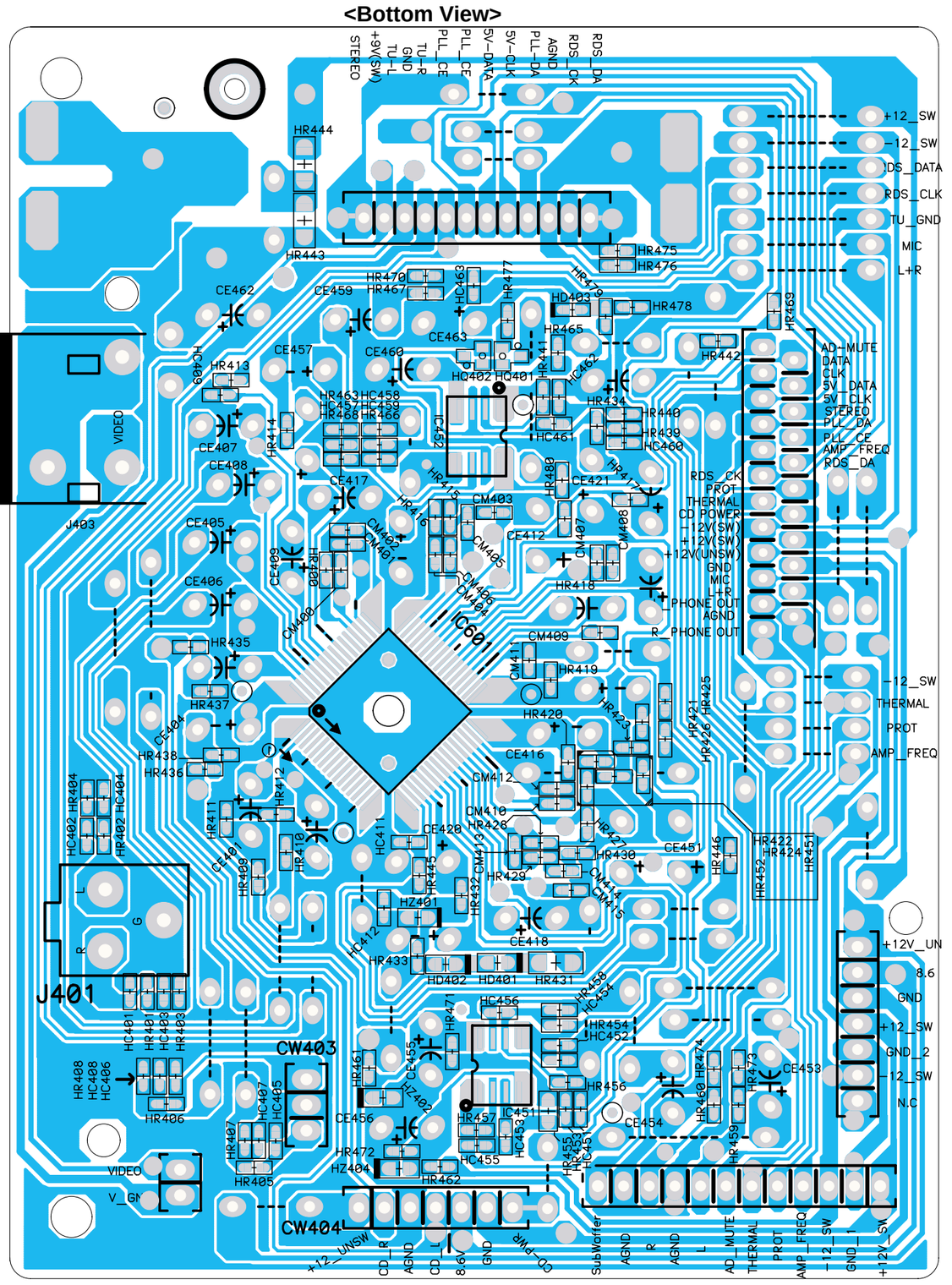
<Bottom View>



P.C.B Pattern Layout

- FUNCTION Section : XG-725/ 726/ 727/ 728/ 7283 Models



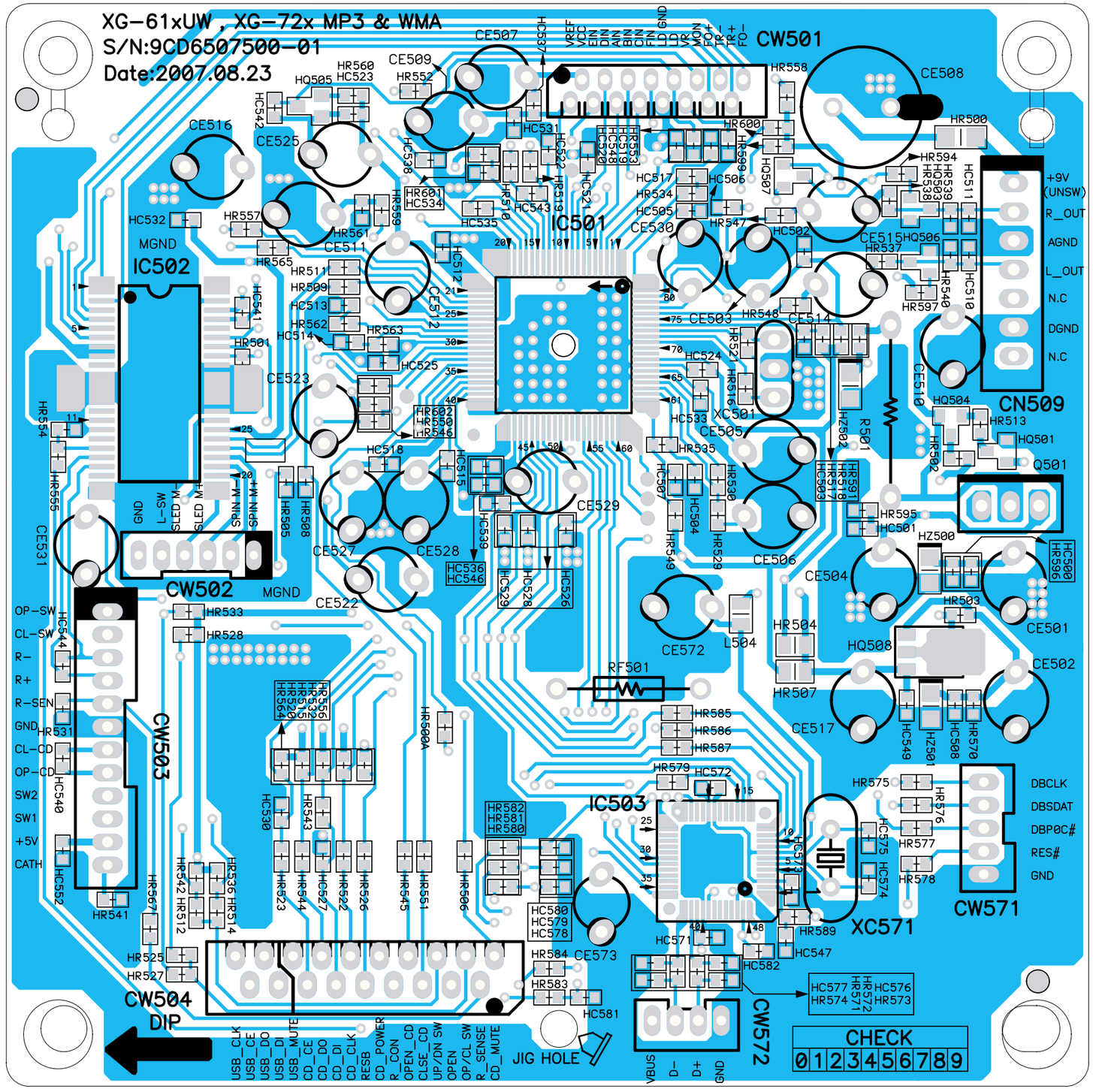


7

P.C.B Pattern Layout

● MP3 CD Section : XG-725/ 726/ 727/ 728/ 7283 Models

<Top View>

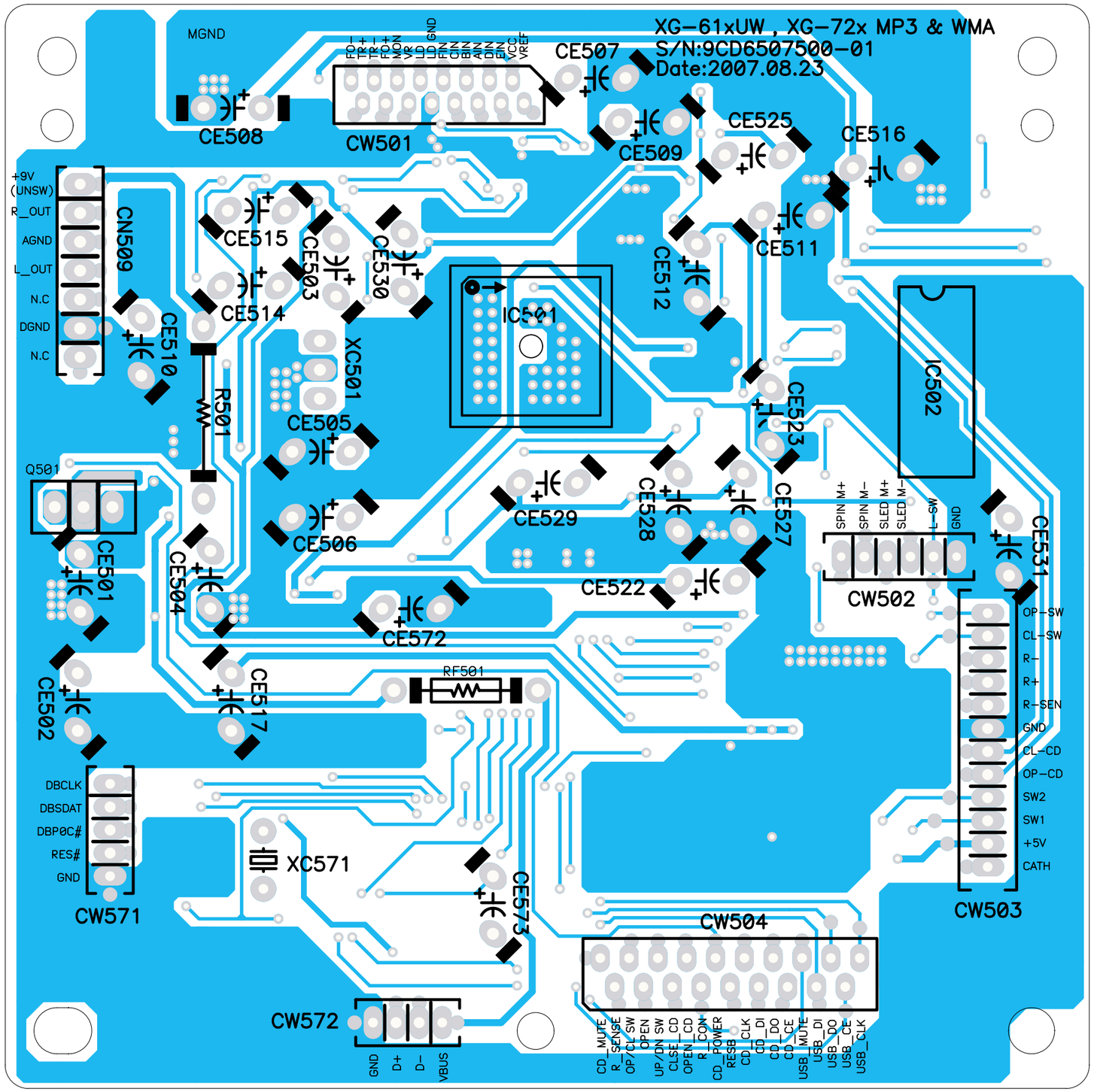


7

P.C.B Pattern Layout

● MP3 CD Section : XG-725/ 726/ 727/ 728/ 7283 Models

<Bottom View>

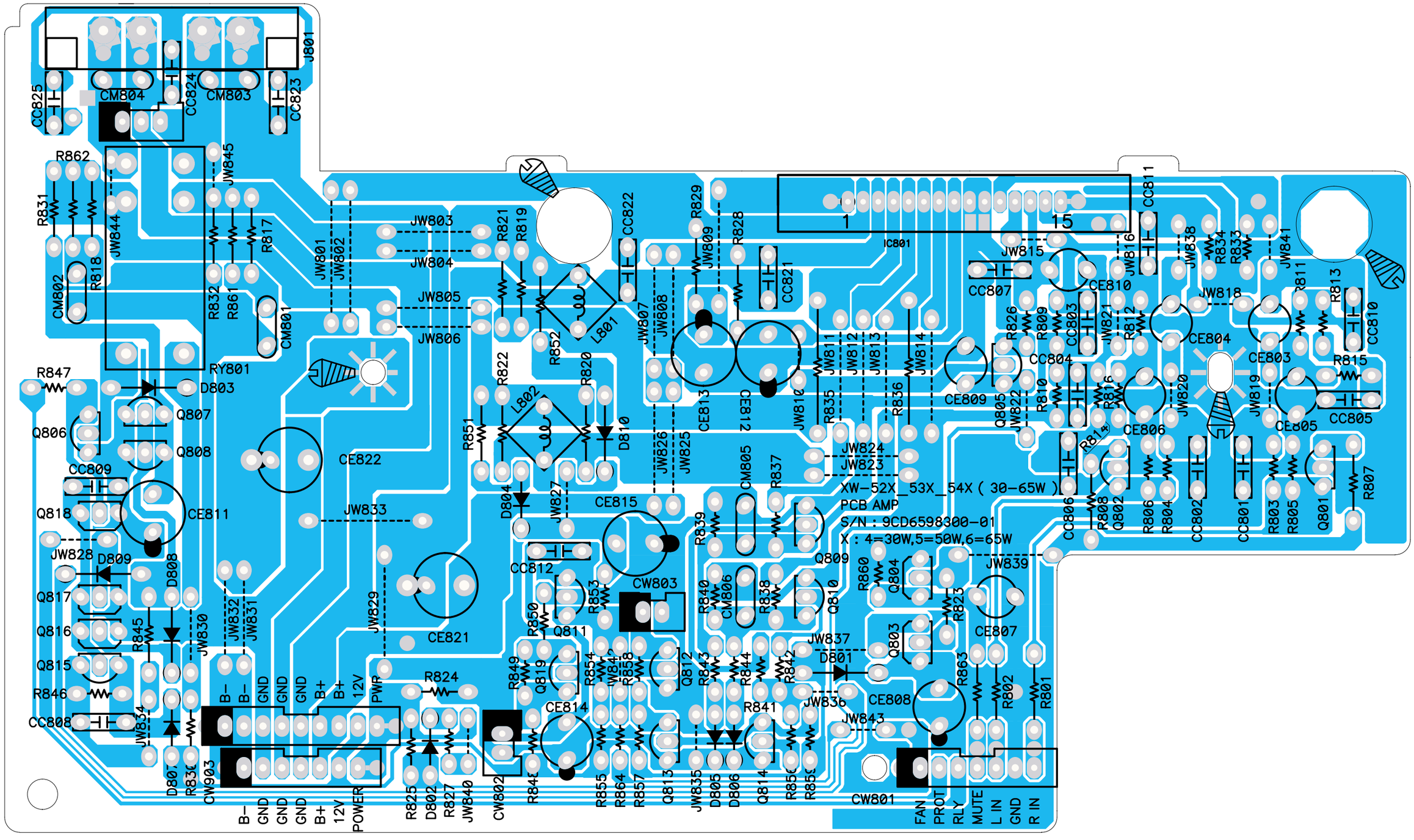


7

P.C.B Pattern Layout

• AMP Section : XG-725 Model Only

<Top View>

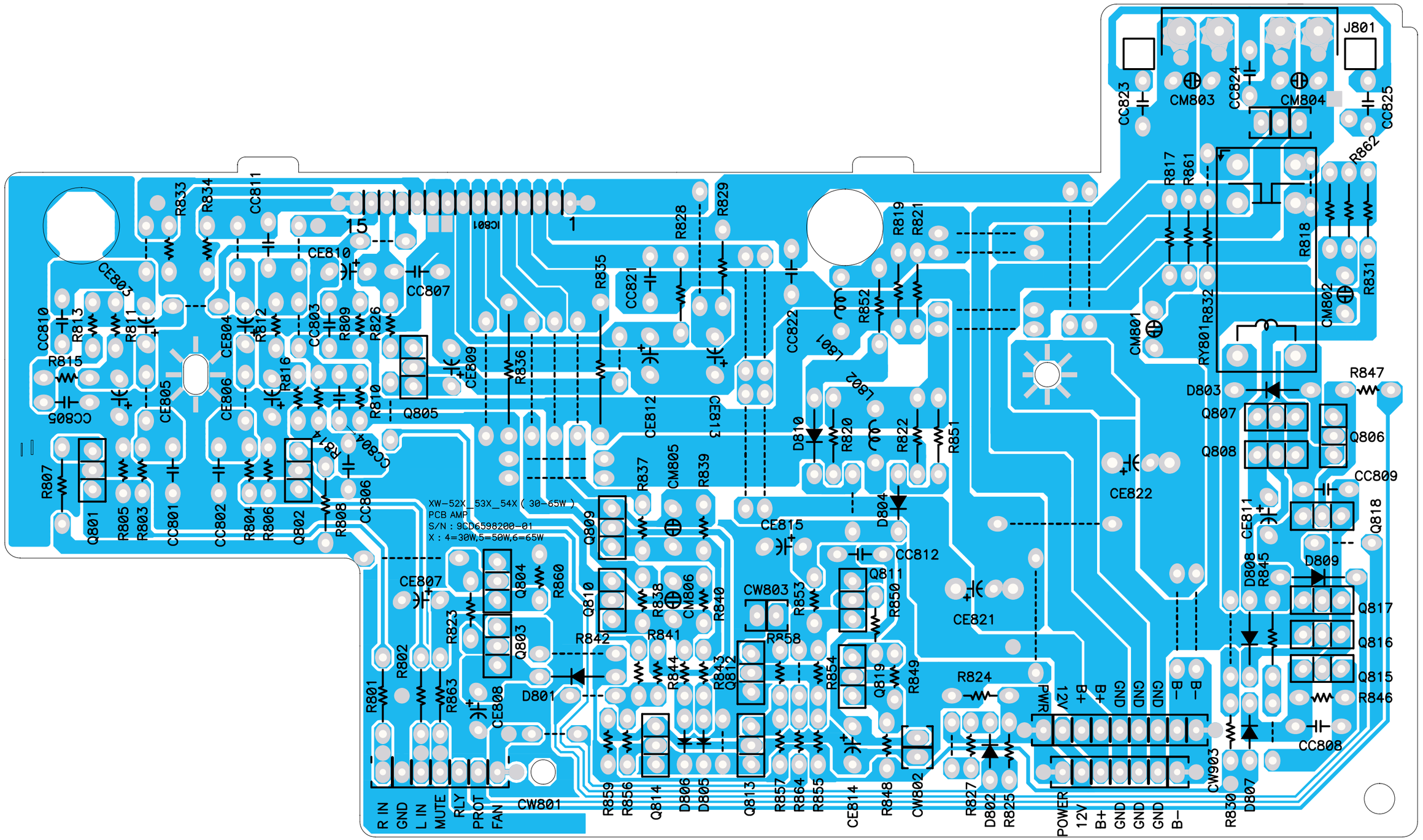


7

P.C.B Pattern Layout

- AMP Section : XG-725 Model Only

<Bottom View>

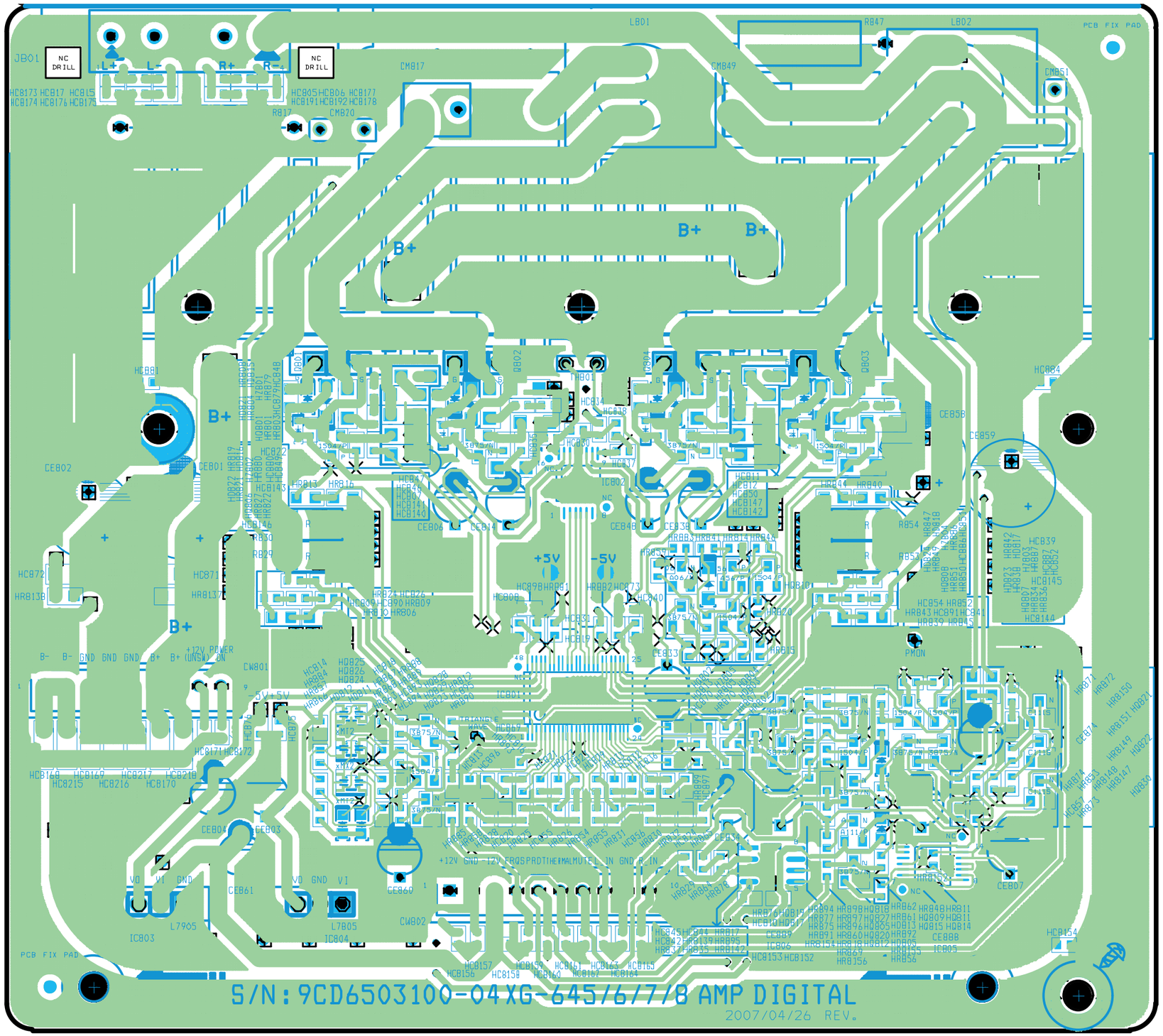


7

P.C.B Pattern Layout

● AMP(Class-D) Section : XG-726/ 727/ 728 Models

<Top View>

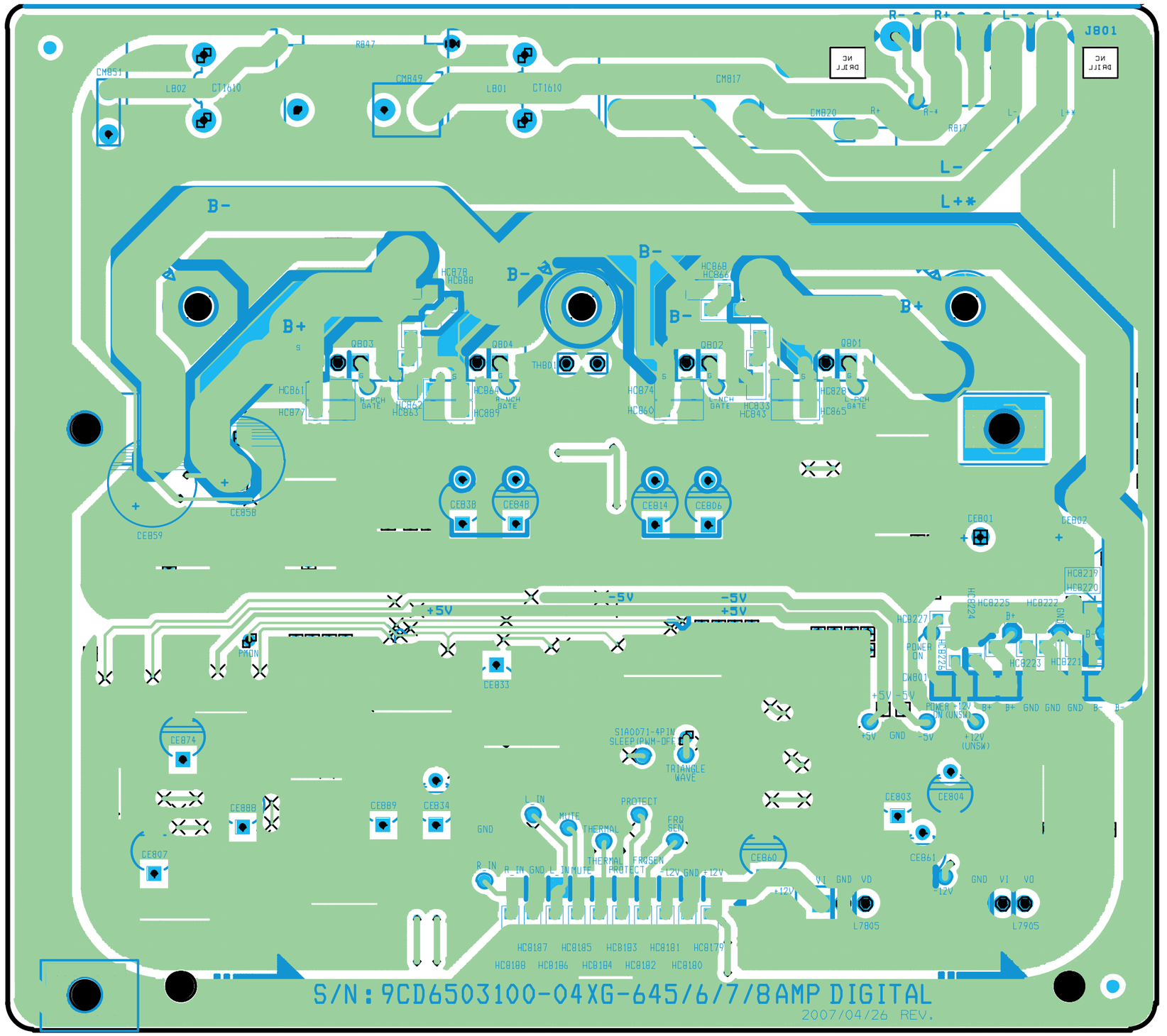


7

P.C.B Pattern Layout

● AMP(Class-D) Section : XG-726/ 727/ 728 Models

<Bottom View>

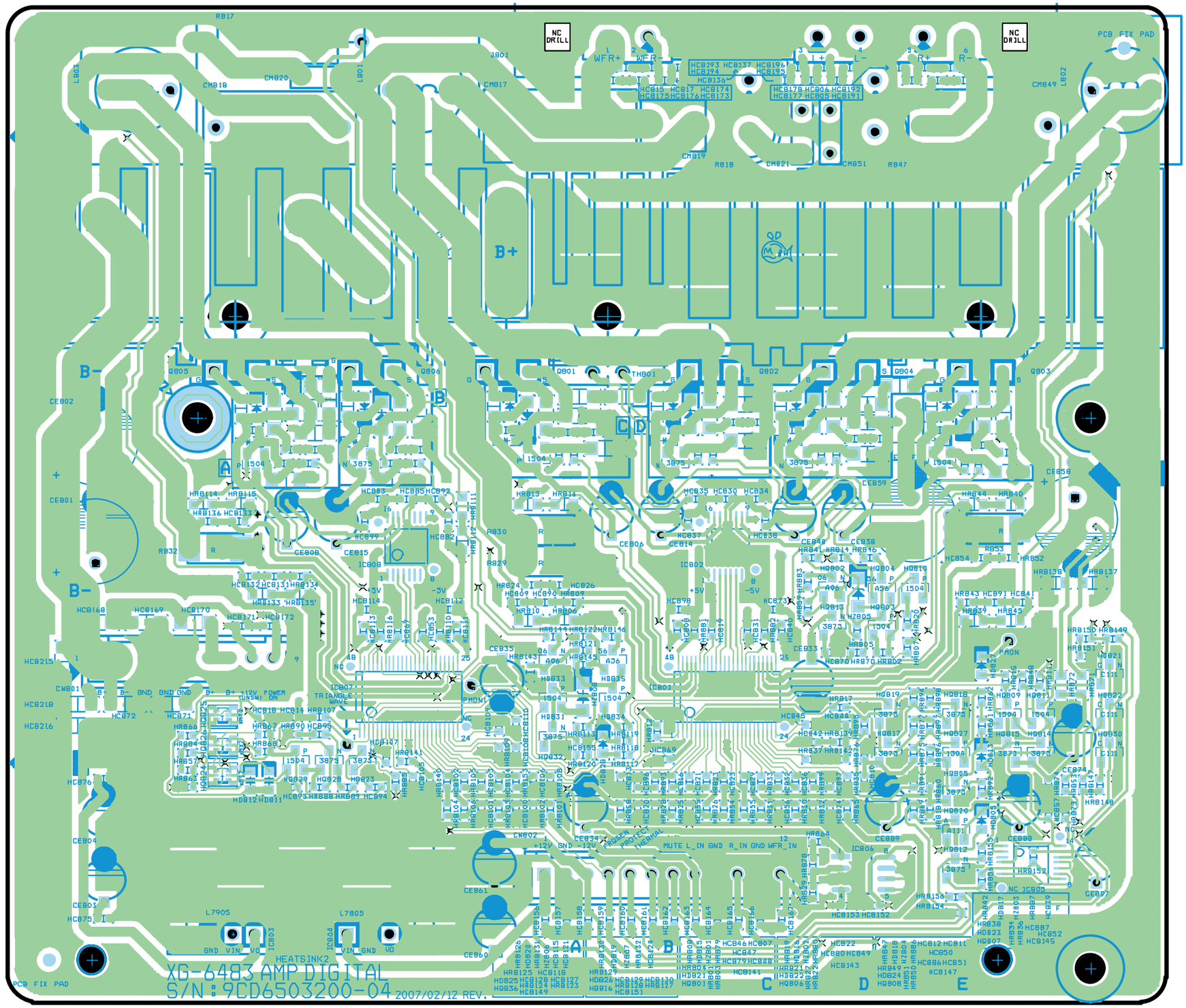


7

P.C.B Pattern Layout

● AMP(Class-D) Section : XG-7283 Model Only

<Top View>

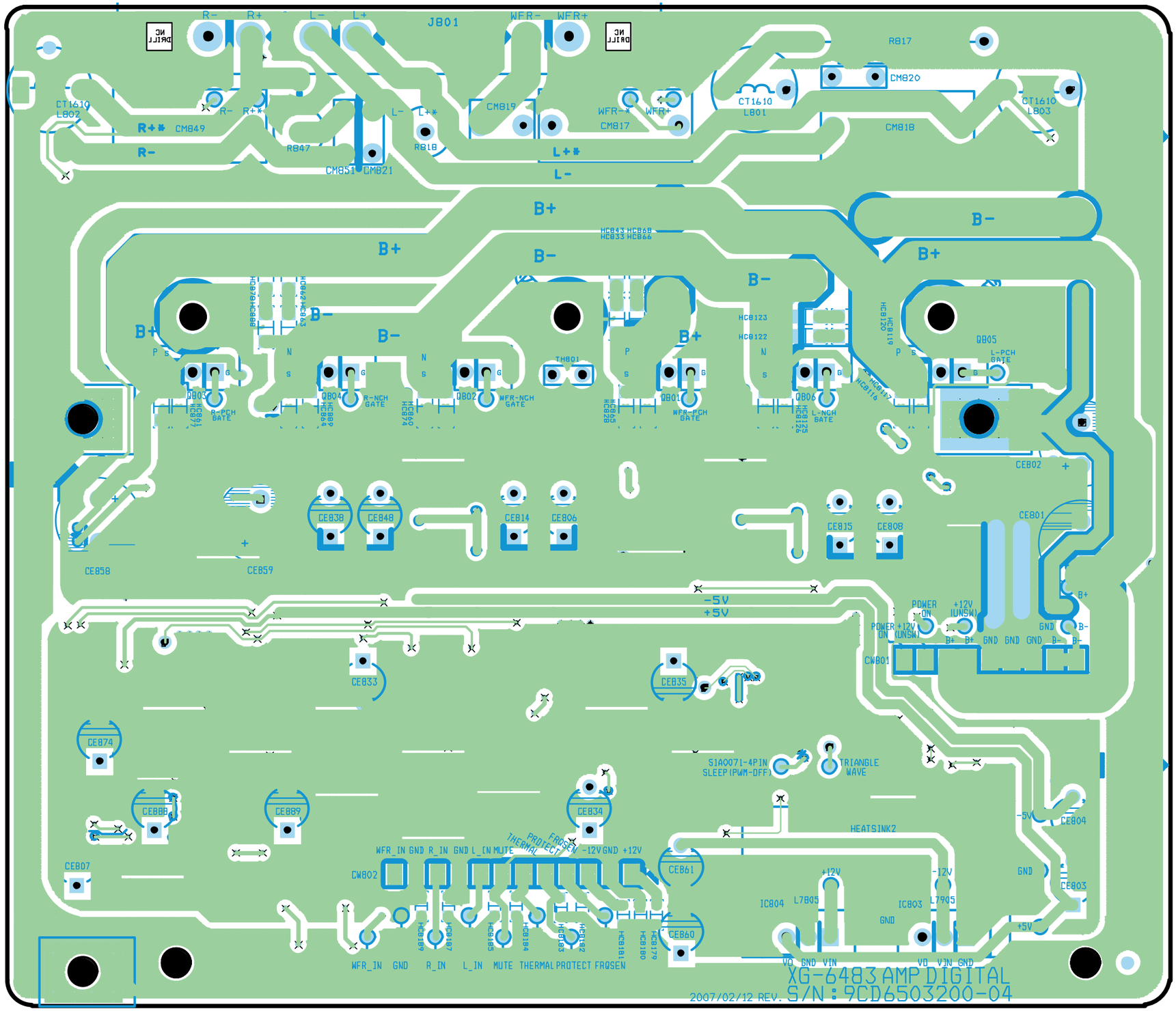


7

P.C.B Pattern Layout

● AMP(Class-D) Section : XG-7283 Model Only

<Bottom View>

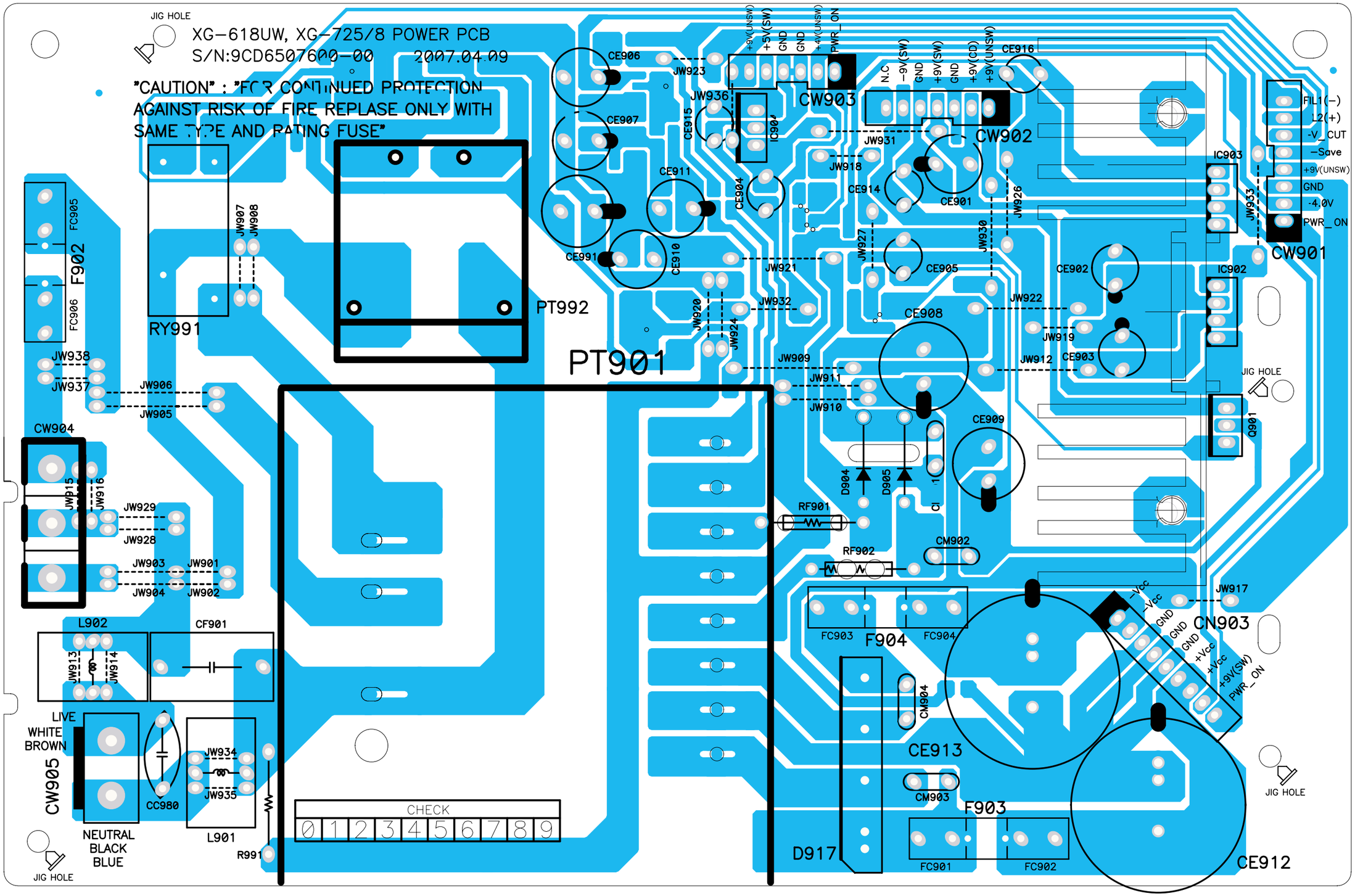


7

P.C.B Pattern Layout

- **POWER Section : XG-725/ 728 Models**

<Top View>

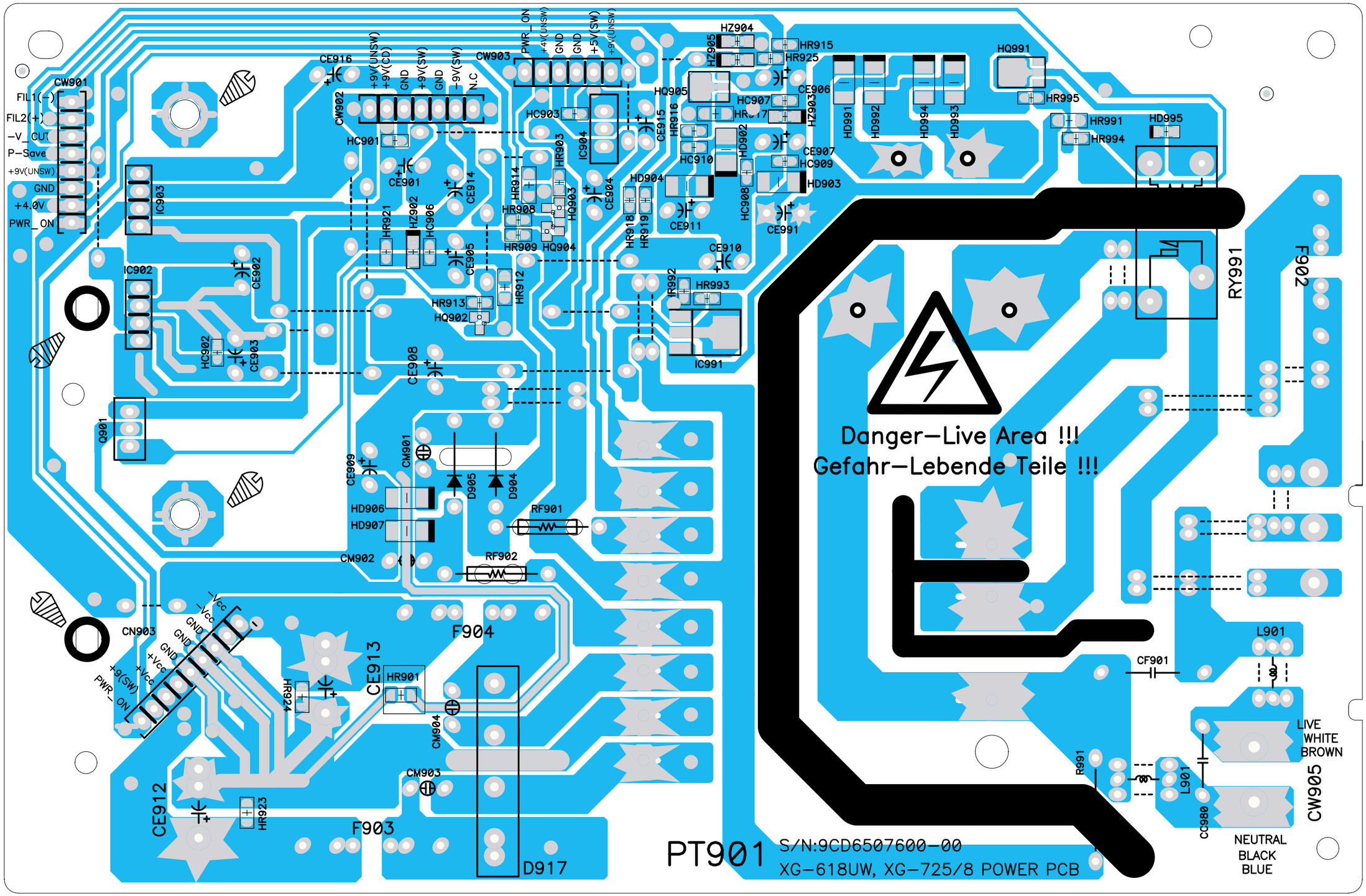


7

P.C.B Pattern Layout

- POWER Section : XG-725/ 728 Models

<Bottom View>

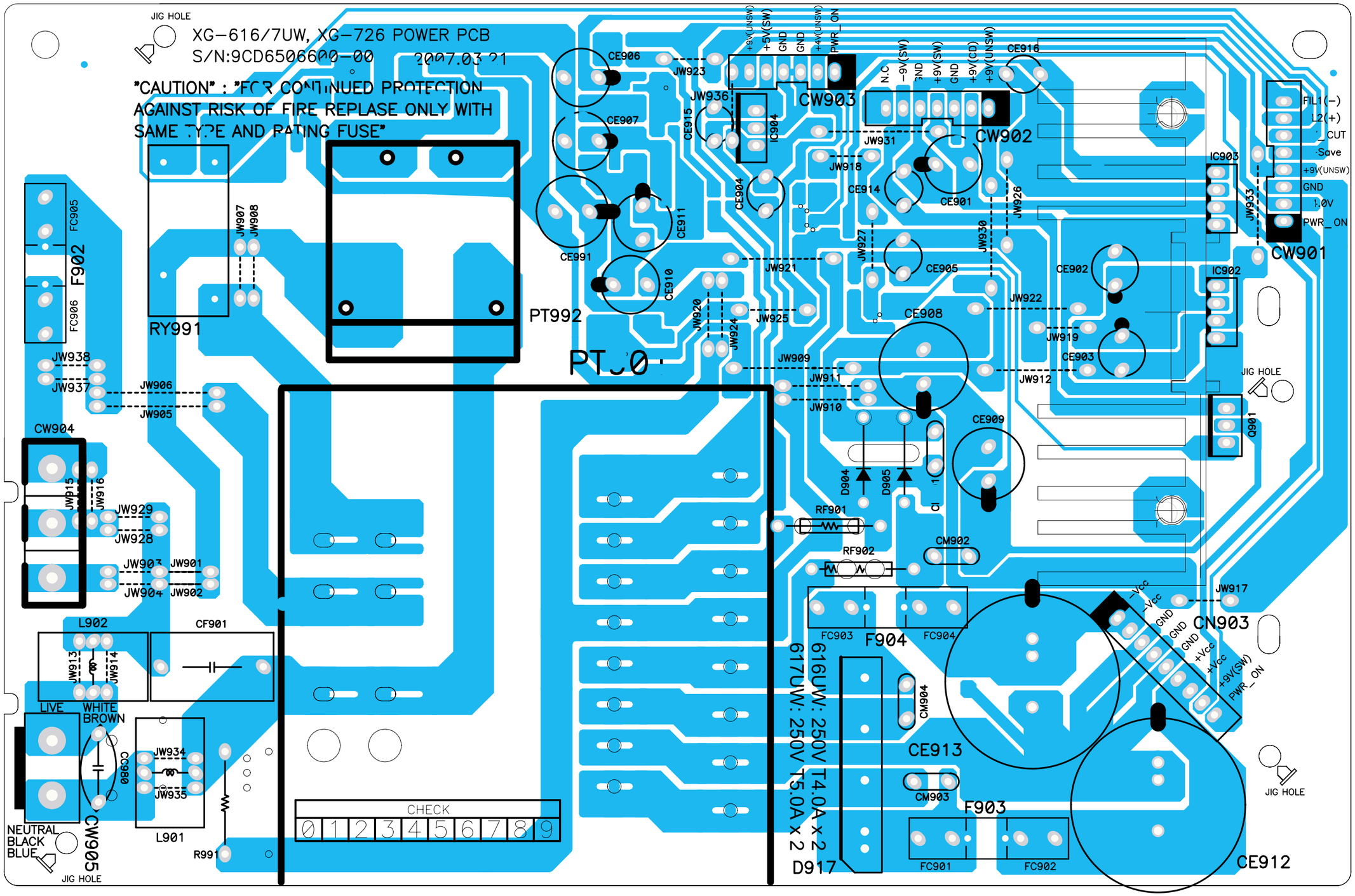


7

P.C.B Pattern Layout

- **POWER Section : XG-726/ 727/ 7283 Models**

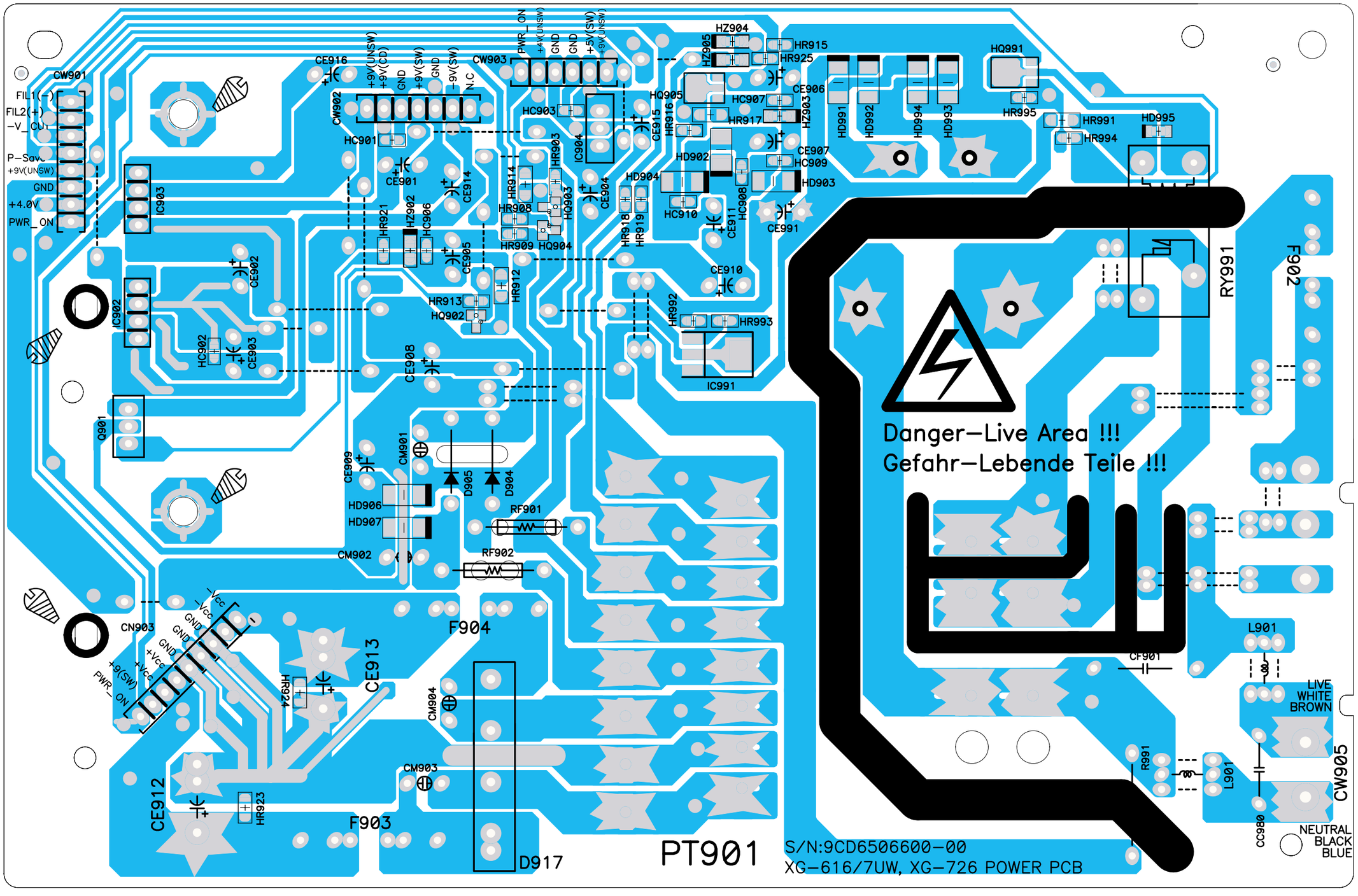
<Top View>



P.C.B Pattern Layout

• POWER Section : XG-726/ 727/ 7283 Models

<Bottom View>



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