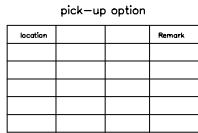
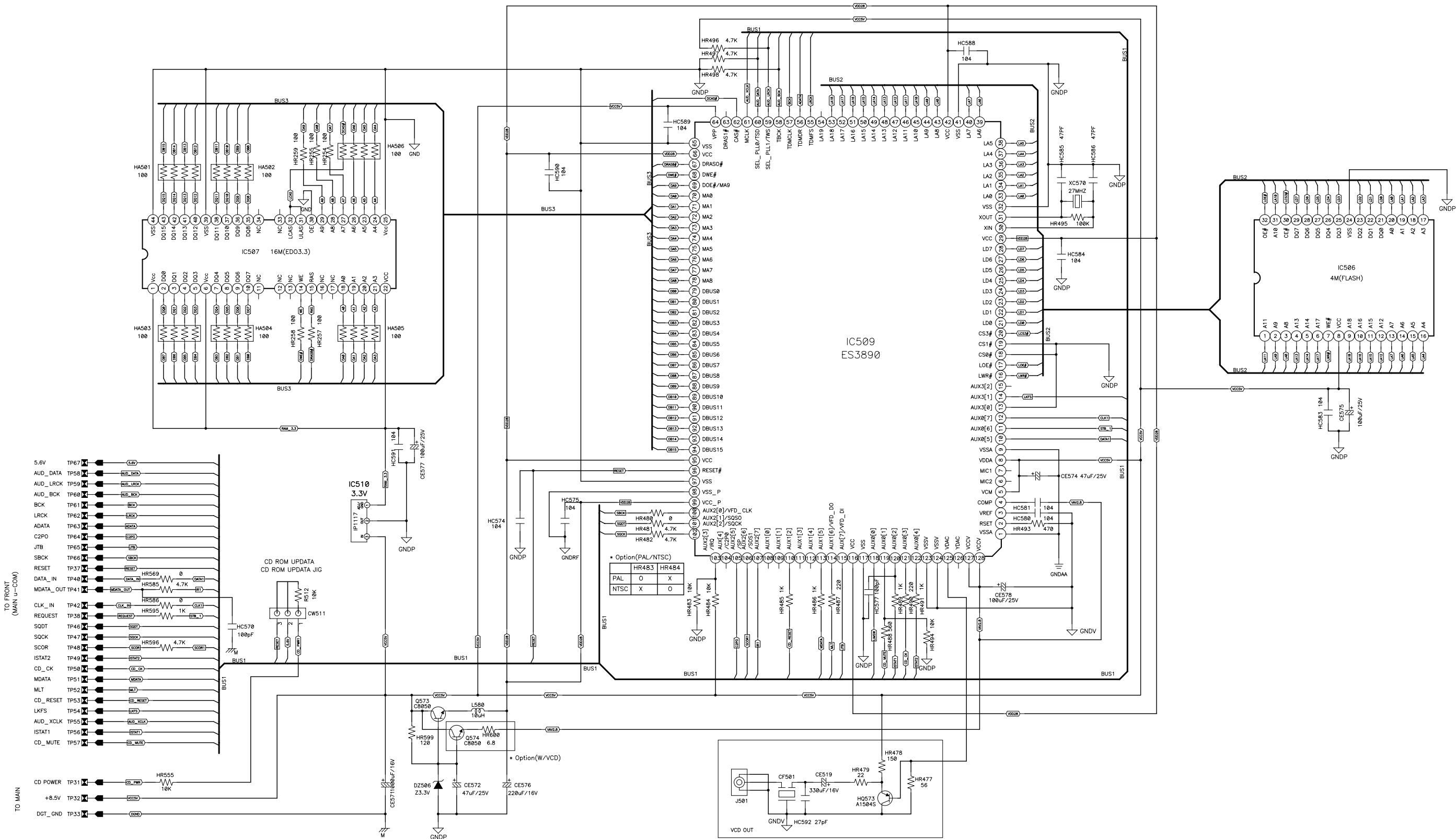


● CD Section



Schematic Diagram

● MP3/VCD Section : **XG-52x[V][K]/XG-53x[V][K]** Series Only



Schematic Diagram

● Front Section : XG-52x[V]/[K]/XW-52x[K] Series Only

* XC701 OPTION

XC701	HC733	HC734
3 PIN	X	X
2 PIN	O	O

* KEY OPTION

SW725	HR336	HR335	HR334
ECHO	0 OHM	X	X
MUTE	X	0 OHM	X
FCS	X	X	0 OHM

* MODEL OPTION

	VCD,MP3	CD-DA
HR792, HR794	X	O
HR793, HR795	O	X

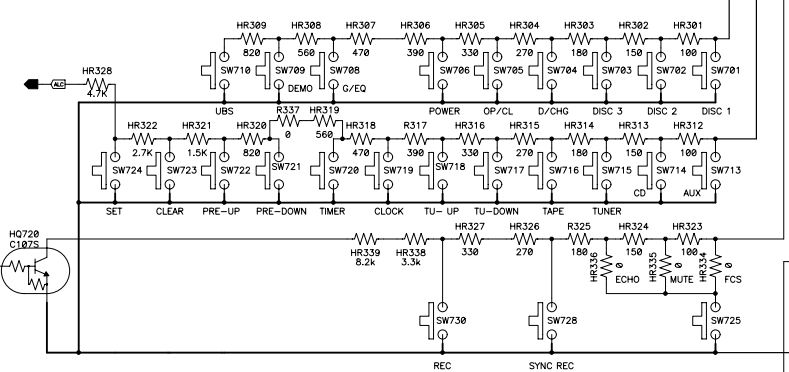
	KOMI	Pigeon		AUX2	AUX
HR343	X	O	HR342	X	O
HR348	O	X	HR347	O	X

	A/S	A/R		W LED	W/O LED
HR340	X	O	HR341	X	O
HR345	O	X	HR346	O	X

	W/O JOG	W JOG
SW717	Tune_DN	X
SW718	Tune_UP	X
SW719	CLOCK	Tune_DN
SW720	TIMER	Tune_UP
HR316	330	0 ohm
R317	390	0 ohm
HR318	470	330
HR319	560	1.2K
R337	0 ohm	220
HC716	X	O
HC717	X	O
VR702	X	O
HR744	X	O
HR745	X	O

* 32KHz OPTION

	XC702	HR761	HR762	HC713	HC714	JW701	HR700
32KHz ON	32.768	10M	100K	18P	18P	O	X
32KHz OFF	X	X	X	0 OHM	X	X	10K



* TUNER BAND OPTION

Version	America 1/12Hz	America 2/24Hz	CIS 2/24Hz/RDS	Eur 2Band 2/24Hz	Japan 1/12Hz	Asia 1/12Hz	Asia 2/24Hz	CIS 2/24Hz	Latin Am 1/12Hz	Eur Rds 2b/24Hz	SEMP/24Hz
BAND	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100
FM(MHz)/Step	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100
MW(kHz)/Step	AM 520-1710/10	AM 530-1710/10	AM 522-1620/9	AM 522-1620/9	AM 522-1620/9	AM 522-1620/9	AM 522-1620/9	AM 522-1620/9	AM 522-1620/9	AM 522-1620/9	AM 522-1620/9
R721	Jump	330	680	1.2K	1.8K	2.7K	3.9K	6.8K	10K	22K	47K

REC_REC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
FOR_REC	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B_SOLE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B_PHOTO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B_MODE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
B_PACK	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MOTOR_L	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MOTOR_H	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MOTOR+12V	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
MOTOR-12V	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
A_SOLE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
A_PHOTO	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
A_MODE	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
A_PACK	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0

* PSM OPTION TABLE

	HR774	HR775	LD715	HQ717	HR776
W/PSM	O	O	O	O	X
W/O PSM	X	X	X	X	O

H/P	HR385	HR386
12.5W	2.2K	2.2K
30W	2.2K	2.2K
50W	4.7K	4.7K
65W	4.7K	4.7K

Schematic Diagram

● Front Section : **XG-53x[V][K]/XW-53x[K]** Series Only

* XC701 OPTION

XC701	HC733	HC734
3 PIN	X	X
2 PIN	O	O

* KEY OPTION

SW725	HR336	HR335	HR334
ECHO	0 OHM	X	X
MUTE	X	0 OHM	X
FCS	X	X	0 OHM

* MODEL OPTION

	VCD,MP3	CD-DA
HR792, HR794	X	O
HR793, HR795	O	X

	KOMI	Pigeon		AUX2	AUX
HR343	X	O	HR342	X	O
HR348	O	X	HR347	O	X

	A/S	A/R		W LED	W/O LED
HR340	X	O	HR341	X	O
HR345	O	X	HR346	O	X

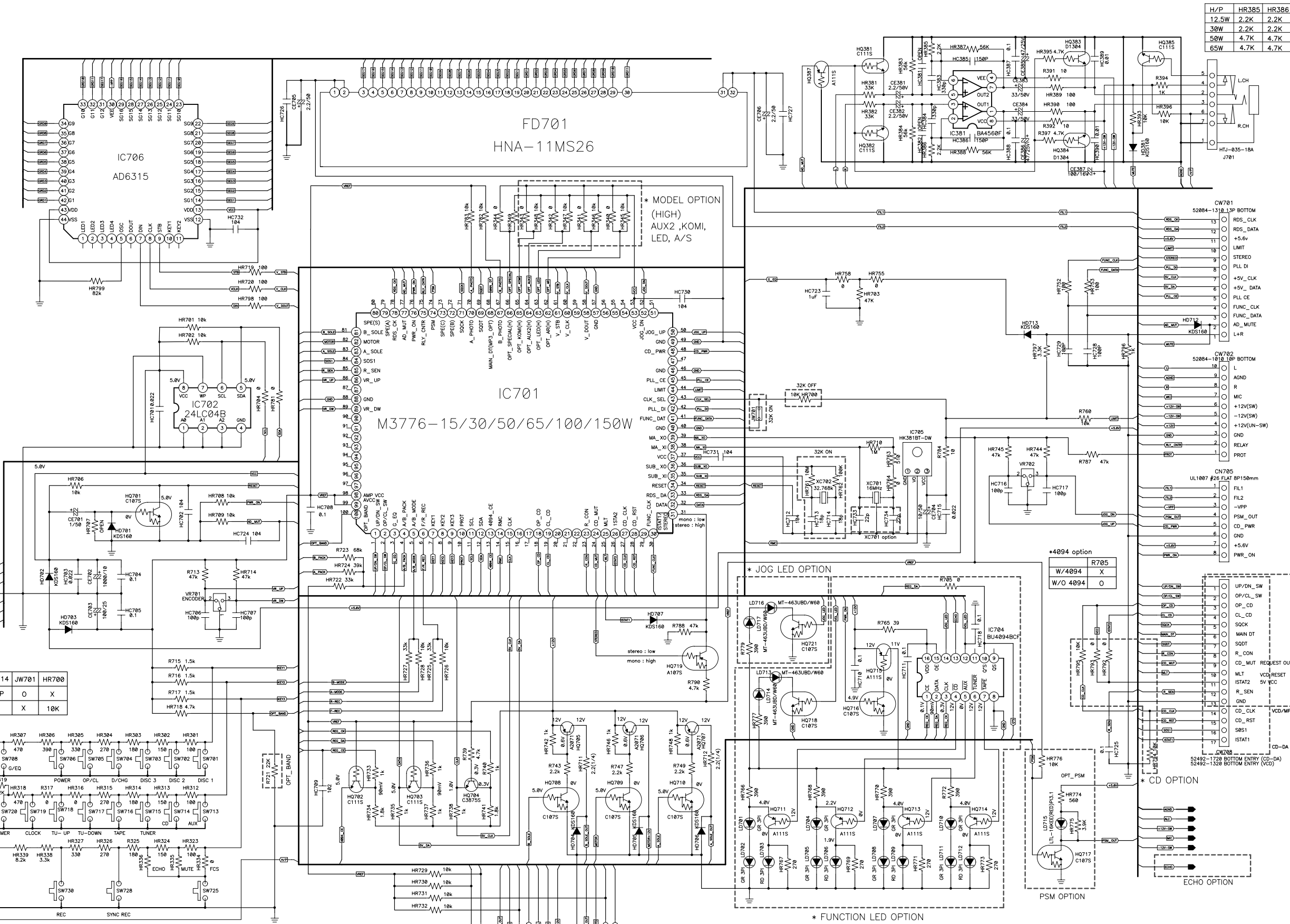
	W/O JOG	W JOG
SW717	Tune_DN	X
SW718	Tune_UP	X
SW719	CLOCK	Tune_DN
SW720	TIMER	Tune_UP
HR316	330	0 ohm
R317	390	0 ohm
HR318	470	330
HR319	560	1.2K
R337	0 ohm	220
HC716	X	O
HC717	X	O
VR702	X	O
HR744	X	O
HR745	X	O
LD716	X	O
LD717	X	O
HQ721	X	O
R779	X	O

* 32KHz OPTION

	XC702	HR761	HR762	HC713	HC714	JW701	HR700
32KHz ON	32.768	10M	100K	18P	18P	O	X
32KHz OFF	X	X	X	0 OHM	X	X	10K

* TUNER BAND OPTION

Version	Band	FM (MHz)/Step	FM (MHz)/Step	CIS /24Hz (AM input gain +8dB)	Eur 2Band /24Hz	Japan /12Hz	Asia 1/12Hz	Asia 2/24Hz	CIS /24Hz	Latin Am /12Hz	Eur Rds 2b/24Hz	SEMP/24Hz (AM input gain +3.5dB)
R721	Jump	AM 520-1710/10	AM 330-1710/10	FM 87.5-108/100	FM 87.5-108/100	FM 76-108/100	FM 76-108/100	FM 76-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100	FM 87.5-108/100



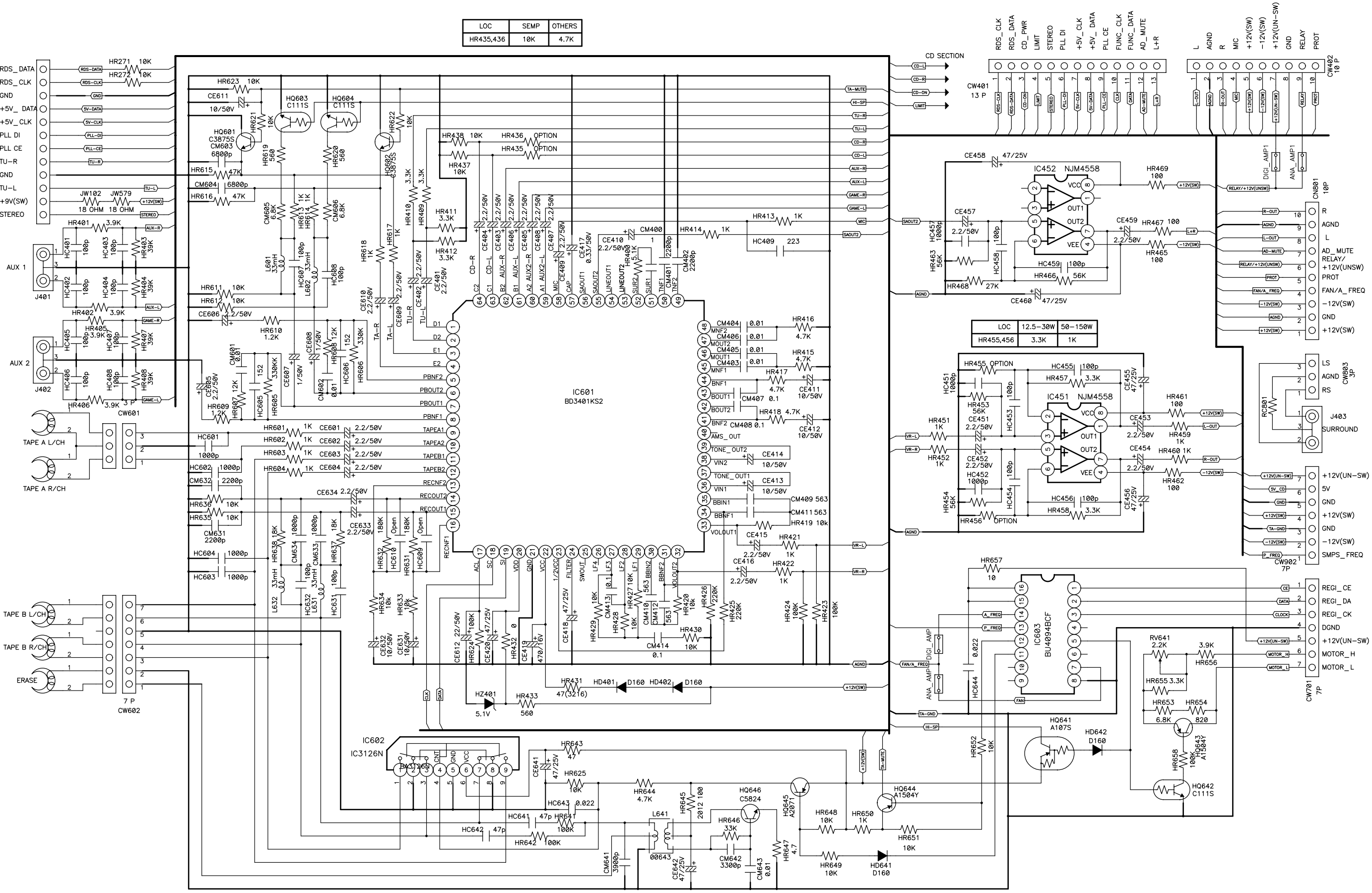
* PSM OPTION TABLE

	HR774	HR775	LD715	HQ717	HR776
W/PSM	O	O	O	O	X
W/O PSM	X	X	X	X	O

H/P	HR385	HR386
12.5W	2.2K	2.2K
30W	2.2K	2.2K
50W	4.7K	4.7K
65W	4.7K	4.7K

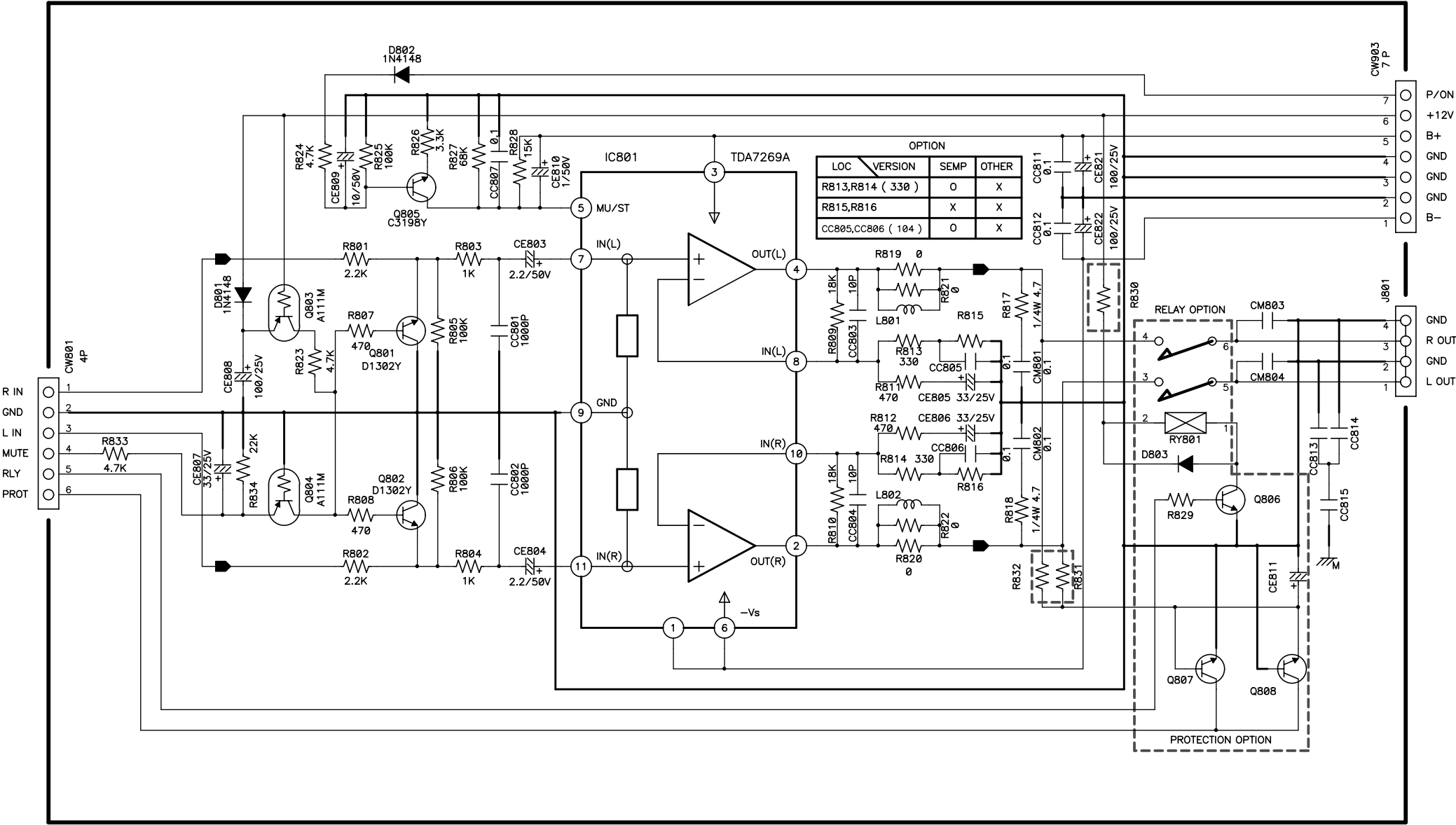
Schematic Diagram

● TAPE and Function Section



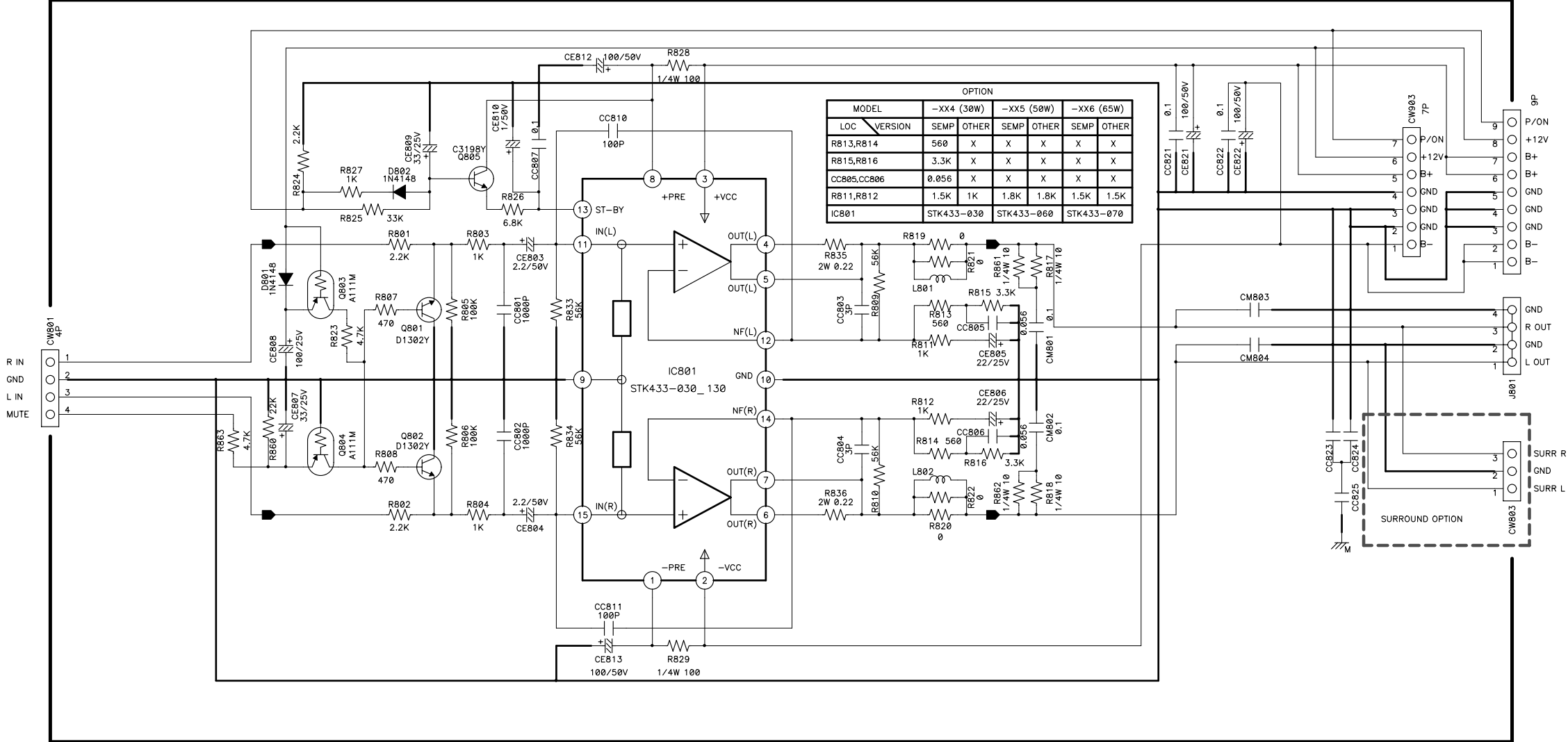
Schematic Diagram

● AMP Section : **XG-522[V]/532[V]**, XW-522/532 Models only

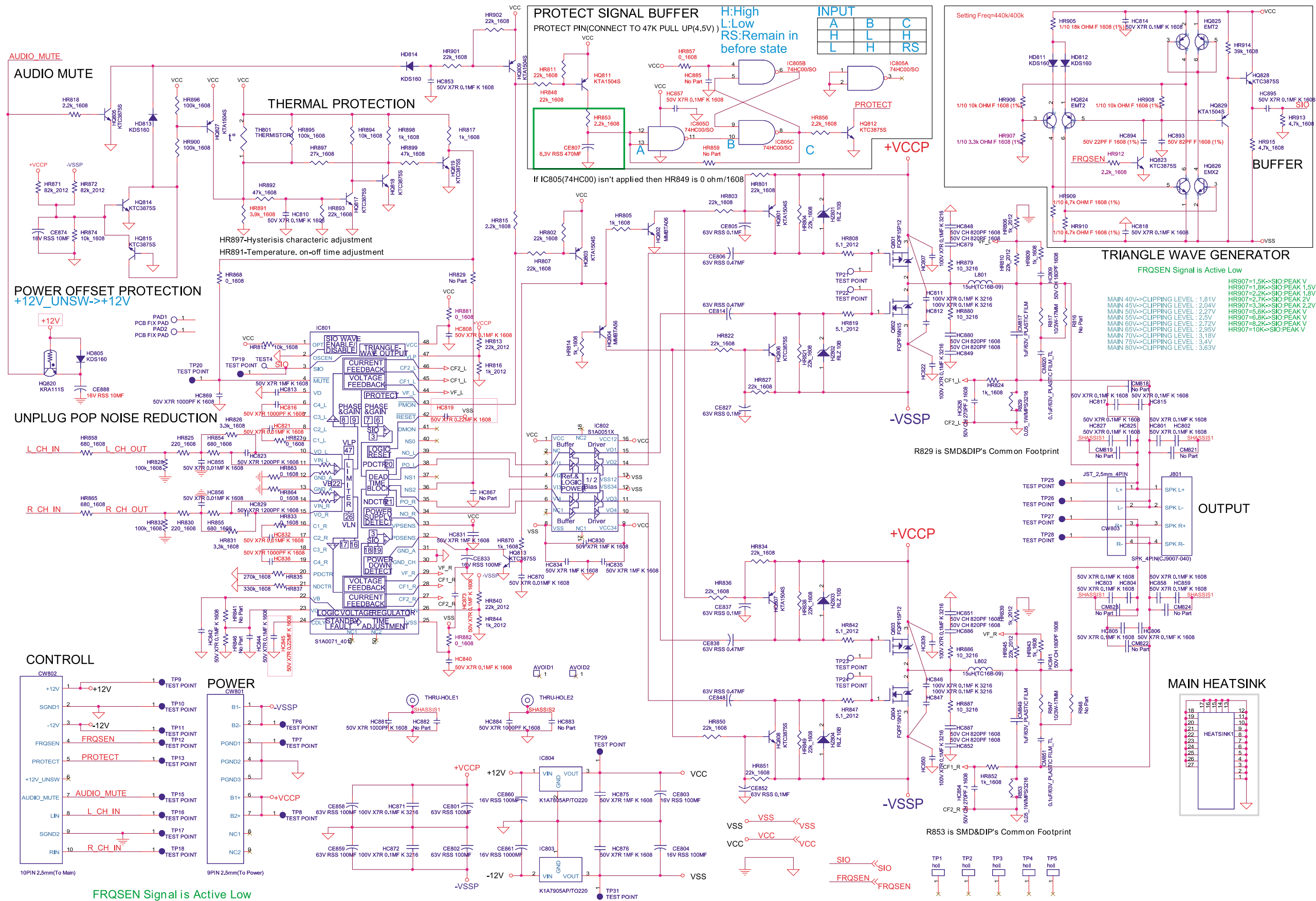


Schematic Diagram

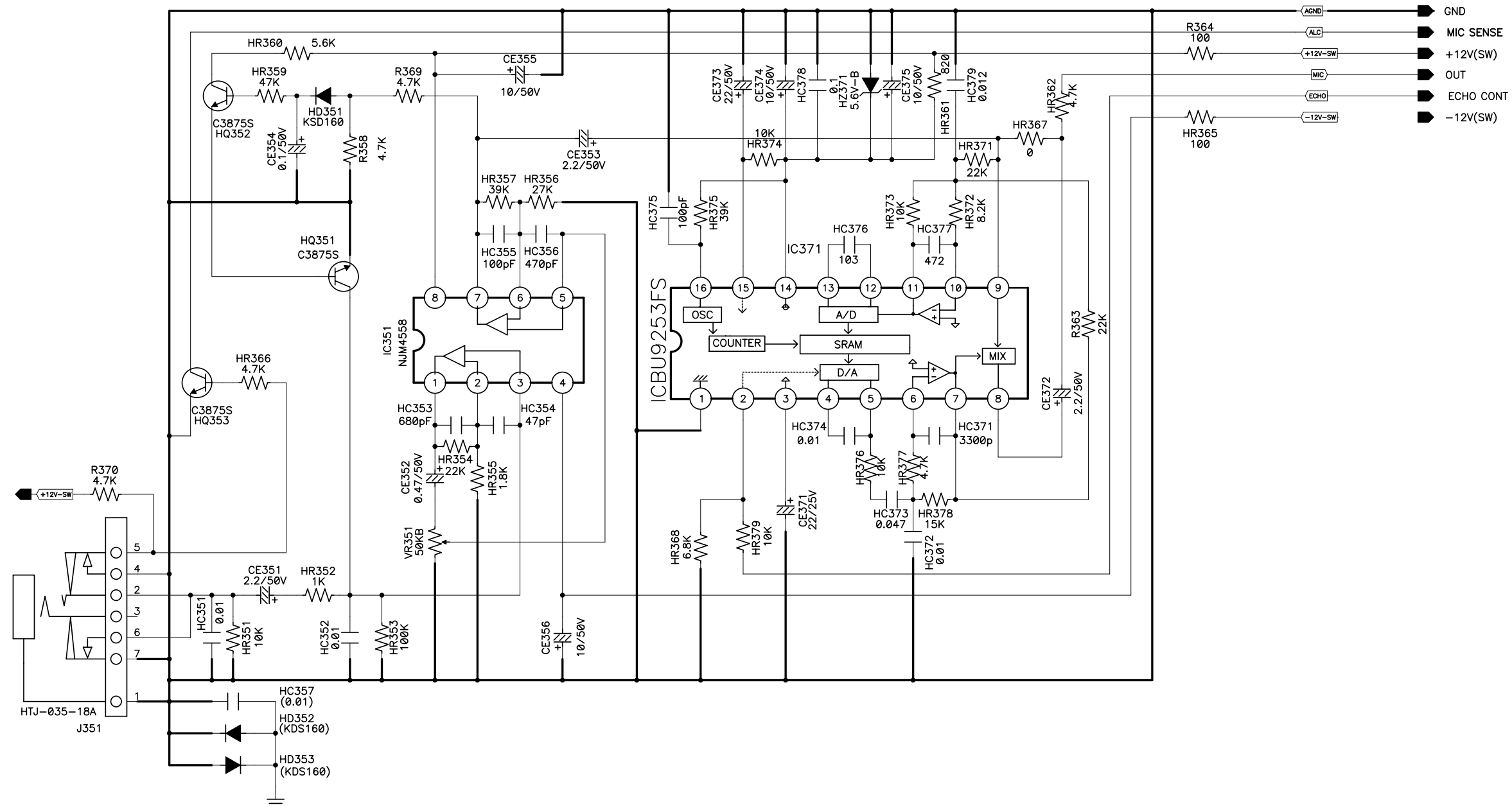
● AMP Section : **XG-524[V][K]/525[V][K]/526[V][K]/534[V][K]/535[V][K]/536[V][K]**, **XW-524[K]/525[K]/526[K]/534[K]/535[K]/536[K]** Models only



● Digital AMP Section : **XG-527[V][K]/528[V][K]/537[V][K]/538[V][K]**, XW-527[K]/528[K]/537[K]/538[K] Models only



● **MIC Section : Karaoke Models only**



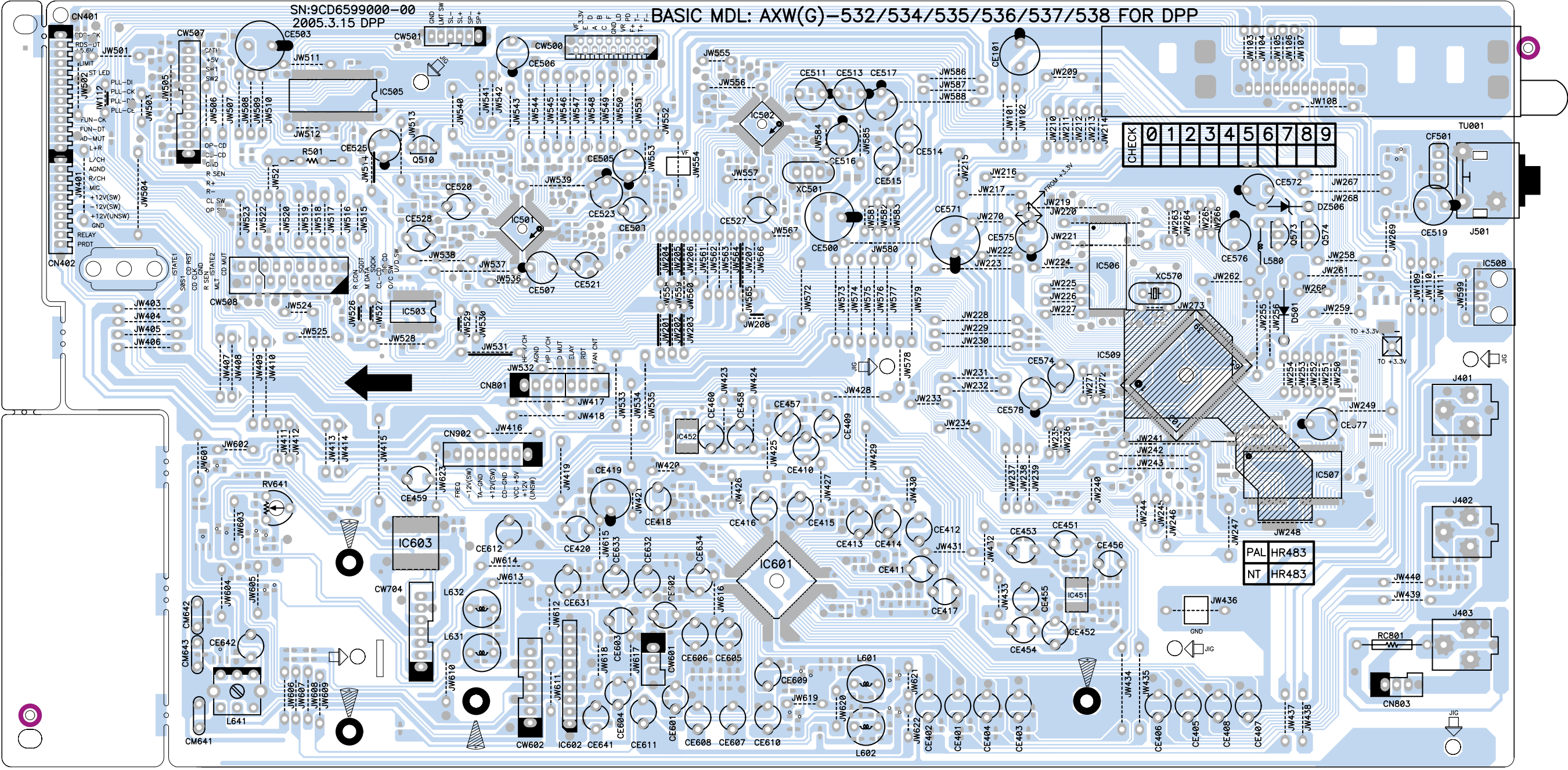
● POWER Section

The schematic diagram illustrates a complex power supply system with multiple voltage rails: +12V(SW), +5.6V, GND(S2), CD_ON, P-SAVE, -Vcut, +Fil, -Fil, and Freq Control. The system is powered by a transformer (PT991) and a rectifier bridge (D909, D911, D917, D910). The output is regulated by a series of regulators (IC901, IC902, IC903, IC904, IC905, IC906, IC907, IC908, IC909, IC910, IC911, IC912, IC913, IC914, IC915, IC916, IC917, IC918, IC919, IC920, IC921, IC922, IC923, IC924, IC925, IC926, IC927, IC928, IC929, IC930, IC931, IC932, IC933, IC934, IC935, IC936, IC937, IC938, IC939, IC940, IC941, IC942, IC943, IC944, IC945, IC946, IC947, IC948, IC949, IC950, IC951, IC952, IC953, IC954, IC955, IC956, IC957, IC958, IC959, IC960, IC961, IC962, IC963, IC964, IC965, IC966, IC967, IC968, IC969, IC970, IC971, IC972, IC973, IC974, IC975, IC97

P.C.B Pattern Layout

● MAIN

<Top View>



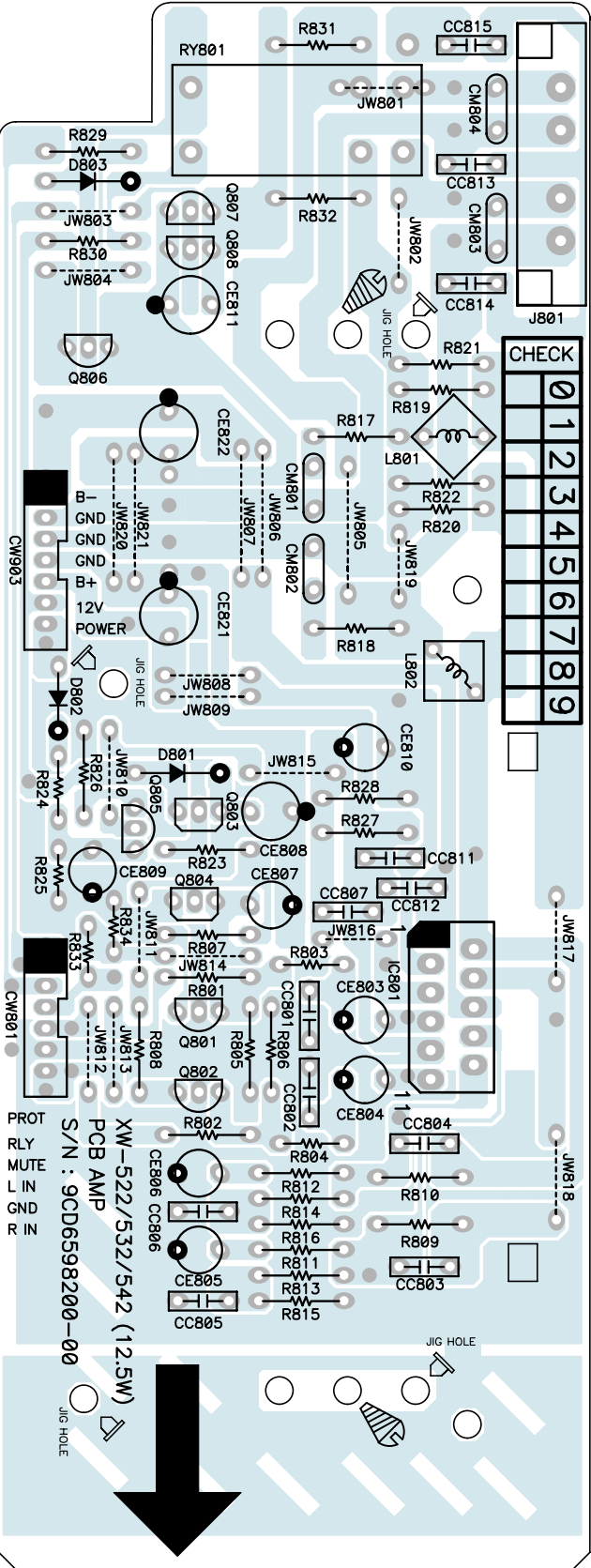
<Bottom View>



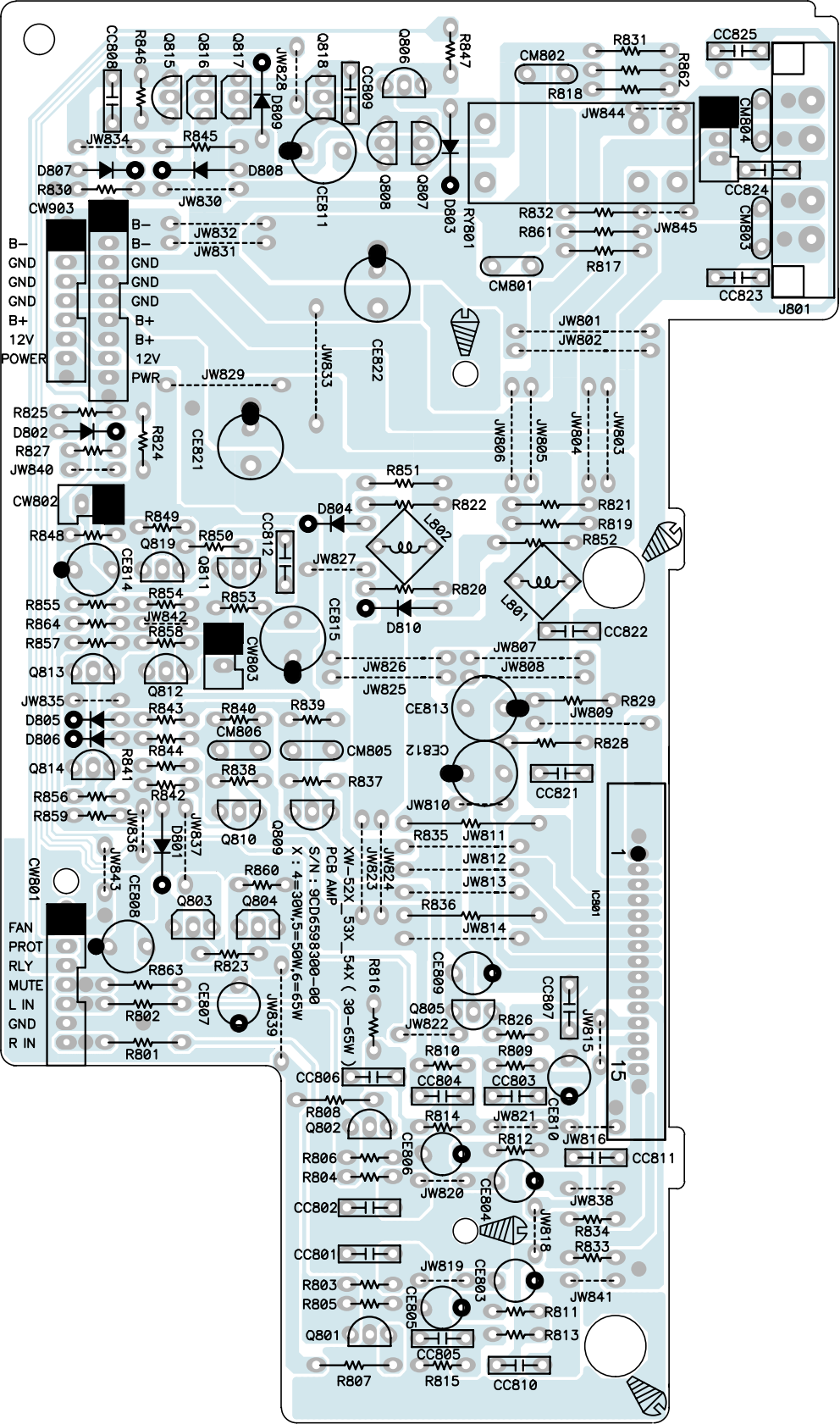
P.C.B Pattern Layout

● AMP Section <Top View>

<XG-522[V]/532[V], XW-522/532 Models Only>



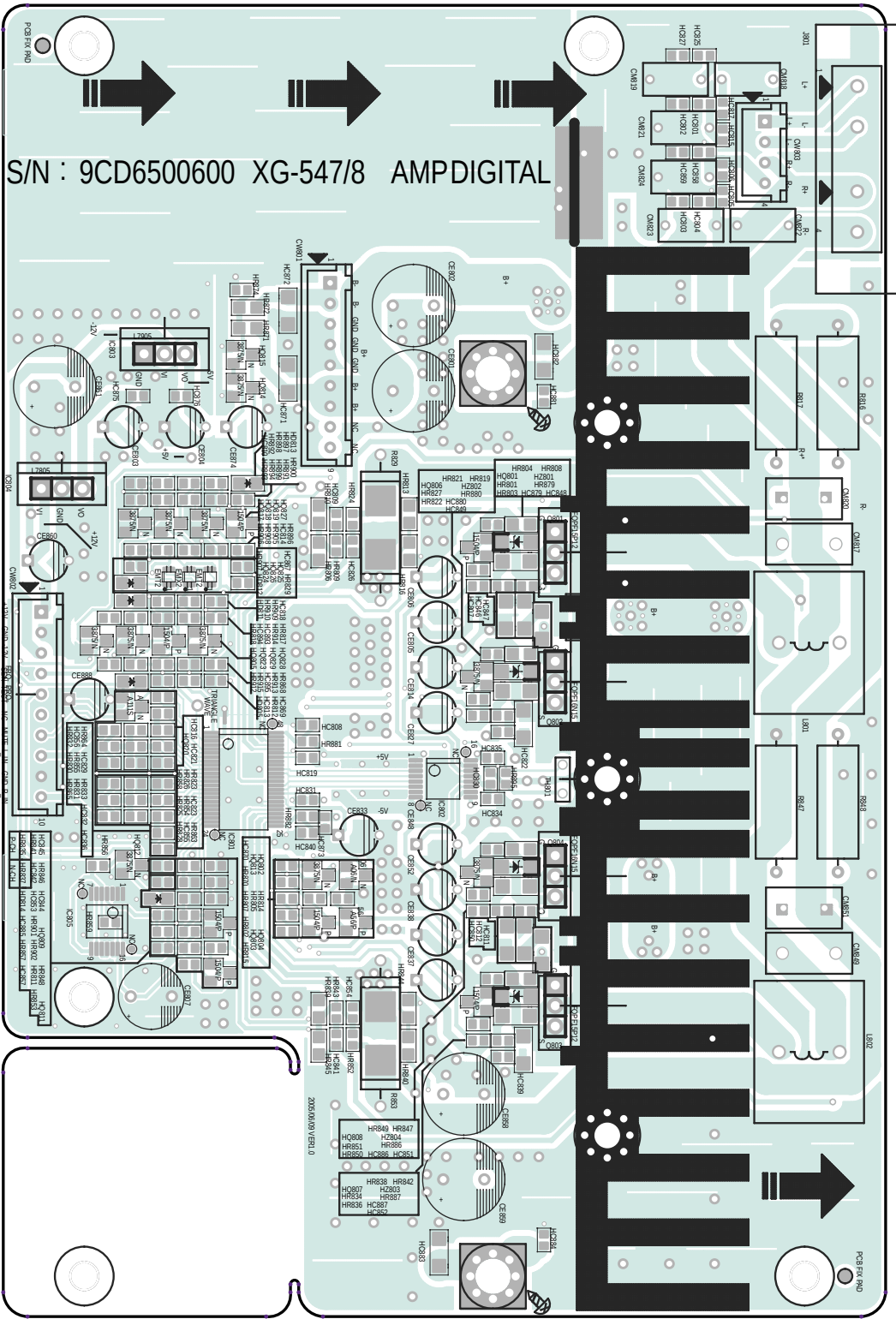
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XW-524[K]/525[K]/526[K]/534[K]/535[K]/536[K] Models Only>



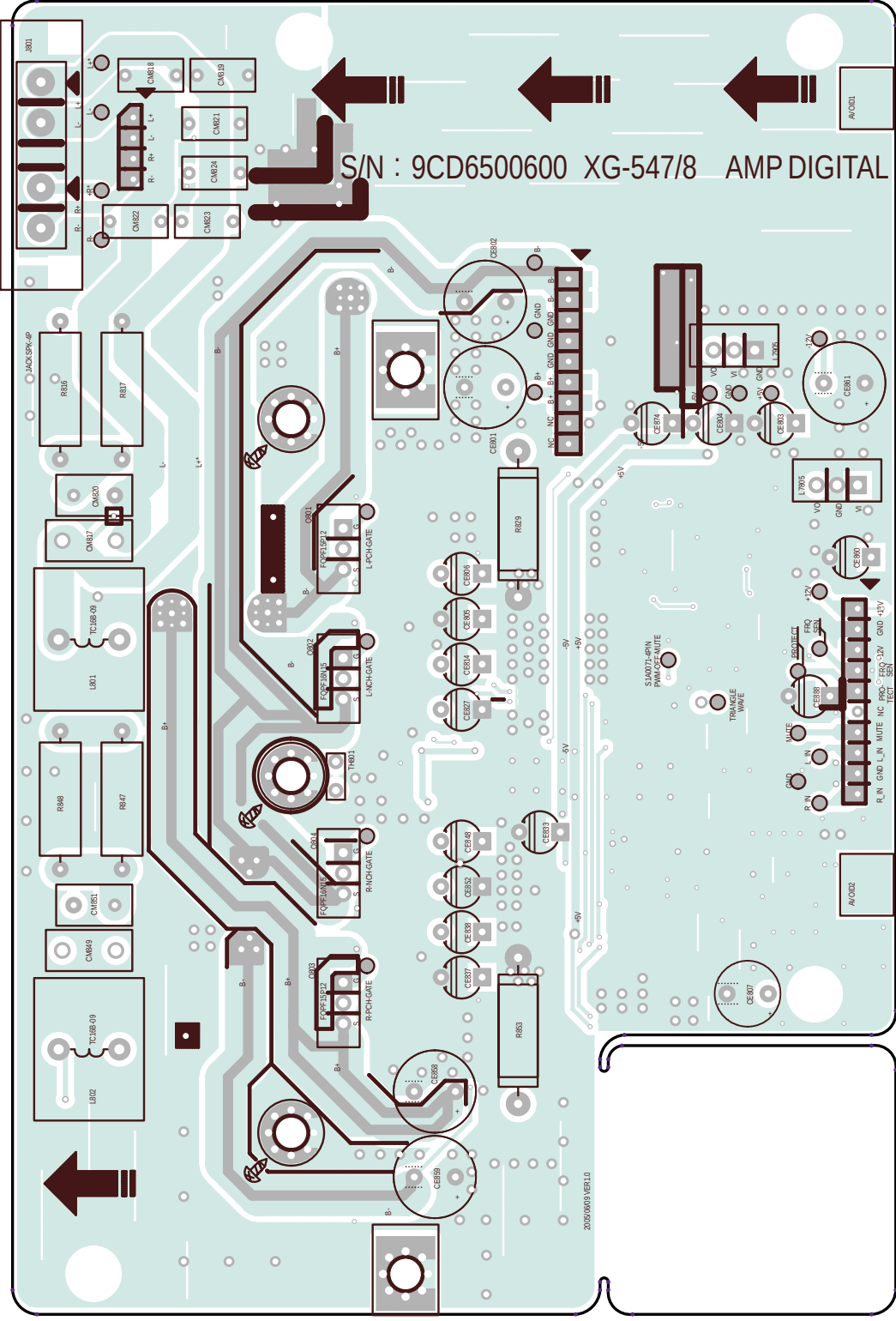
P.C.B Pattern Layout

● DIGITAL AMP : **XG-527[V][K]/528[V][K]/537[V][K]/538[V][K]**, XW-527[K]/528[K]/537[K]/538[K] Models only

<Top View>



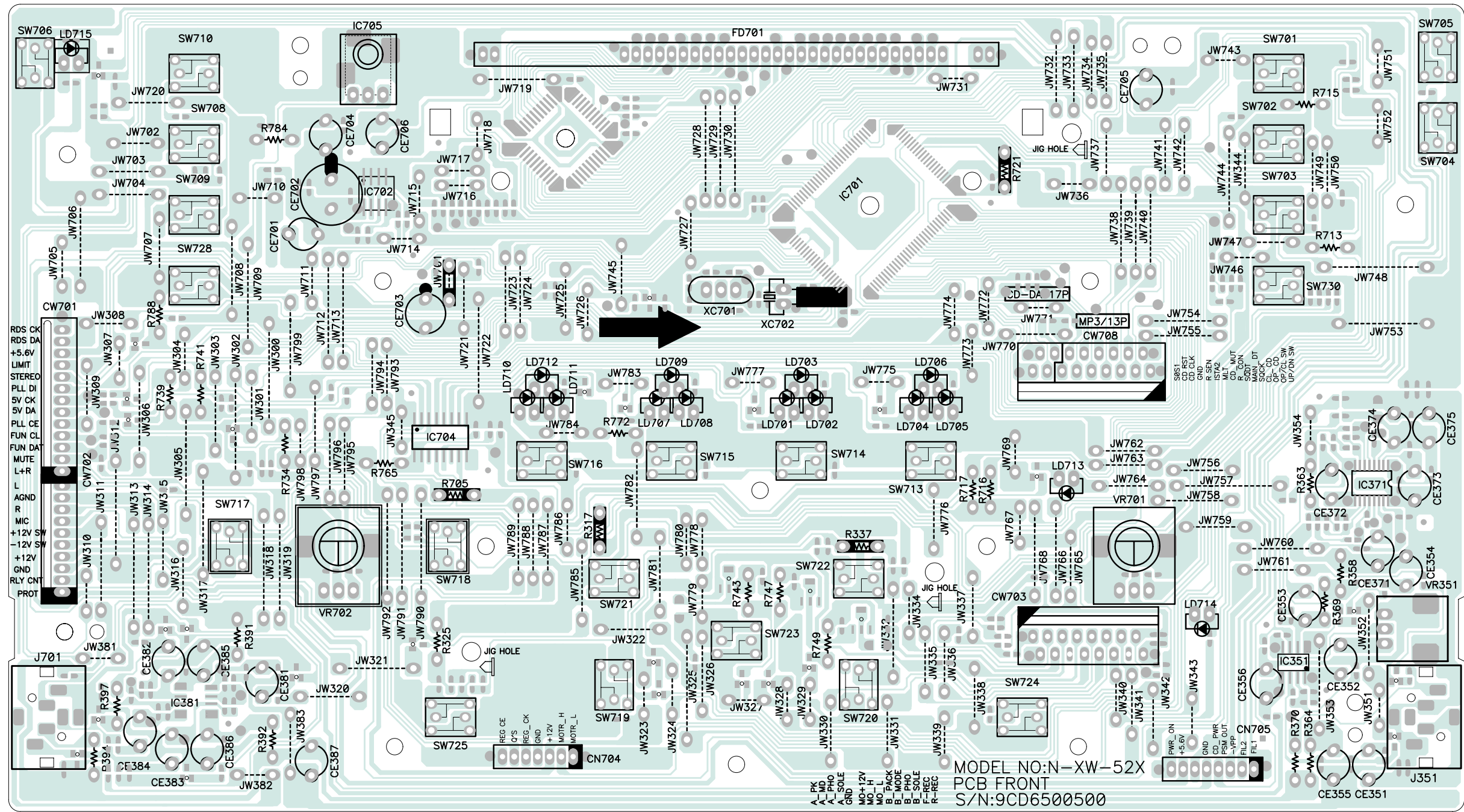
<Bottom View>



P.C.B Pattern Layout

● FRONT : XG-52x[V][K], XW-52x[K] Series Models Only

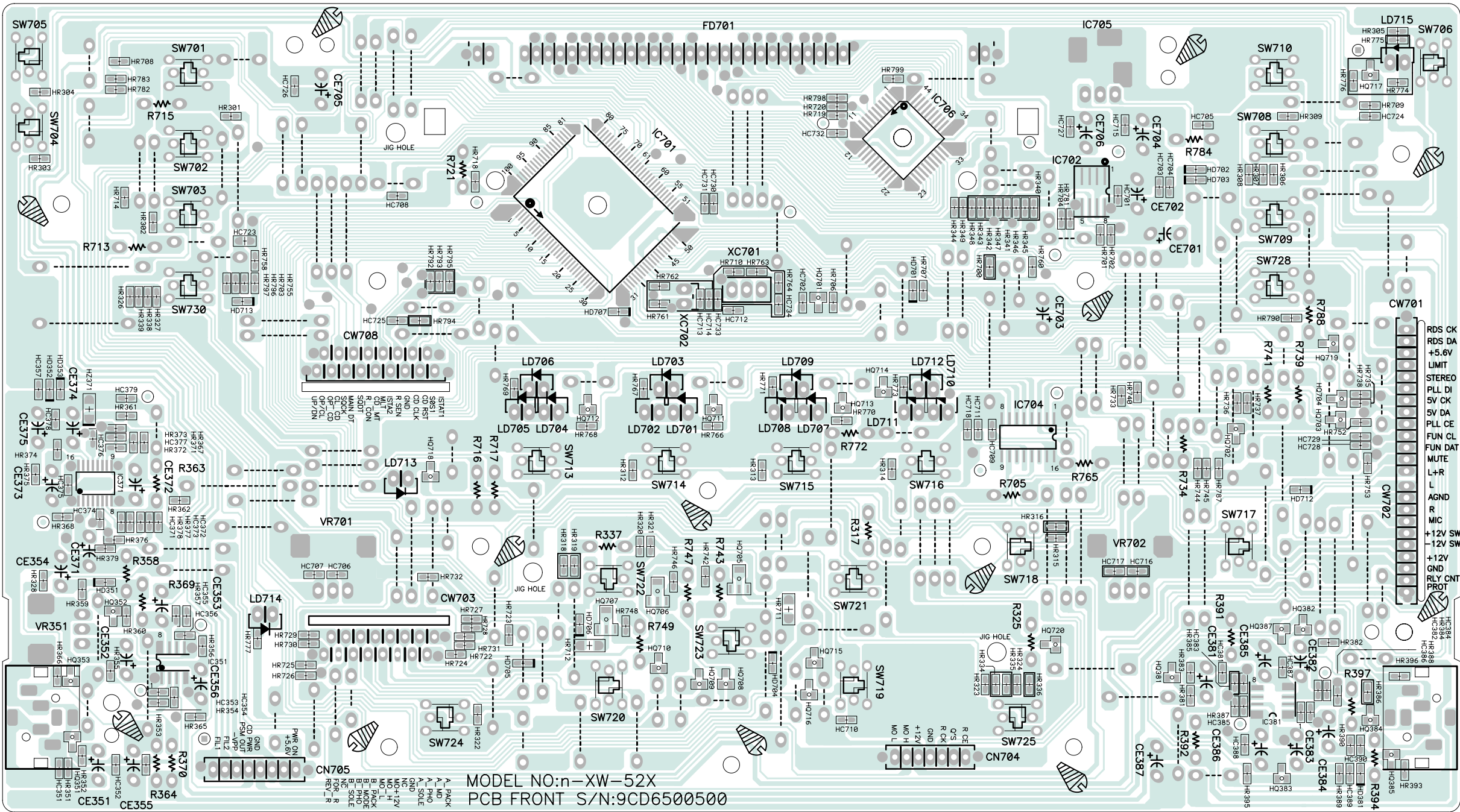
<Top View>



P.C.B Pattern Layout

● FRONT : **XG-52x[V][K]**, XW-52x[K] Series Models Only

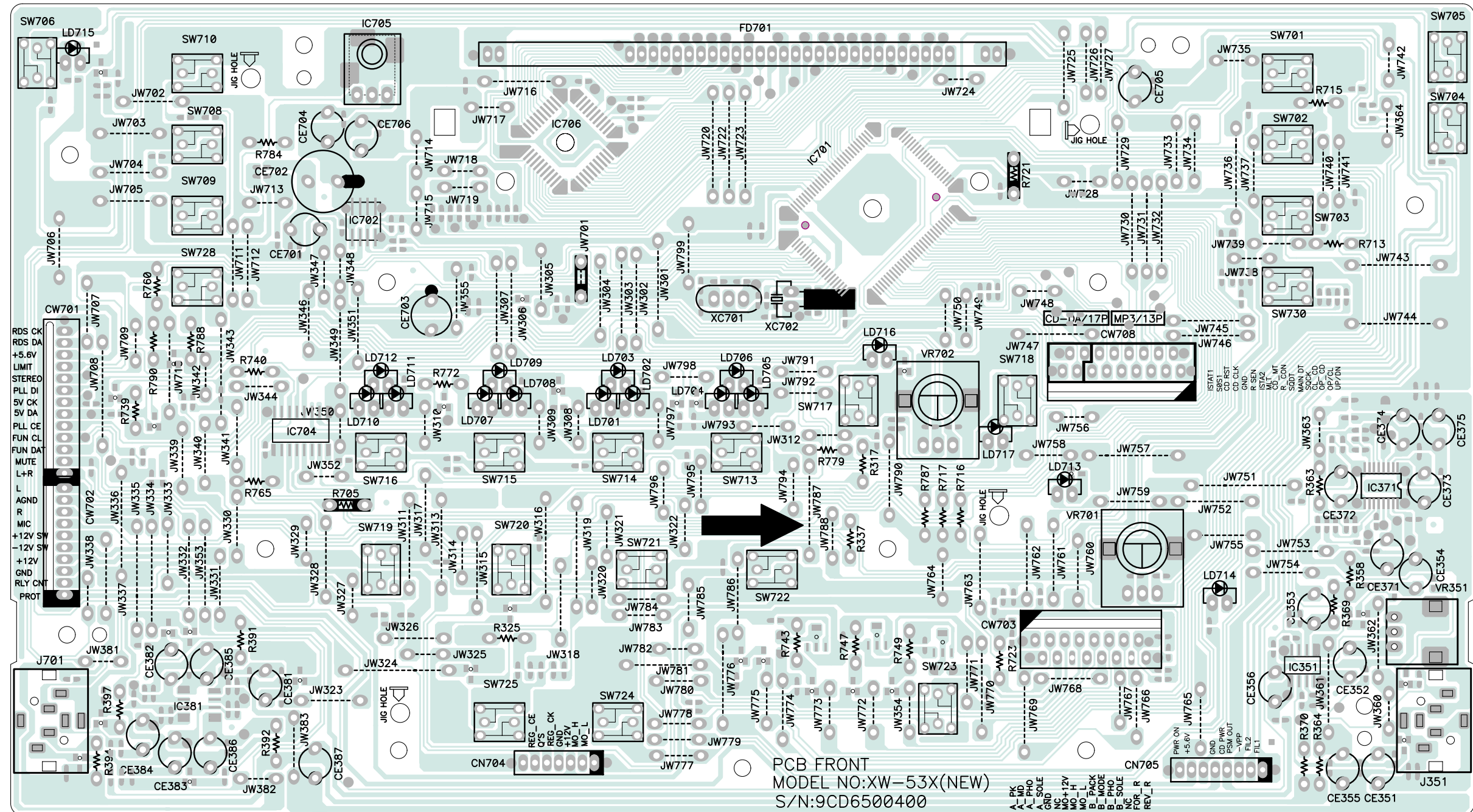
<Bottom View>



P.C.B Pattern Layout

● FRONT : **XG-53x[V][K]**, XW-53x[K] Series Models Only

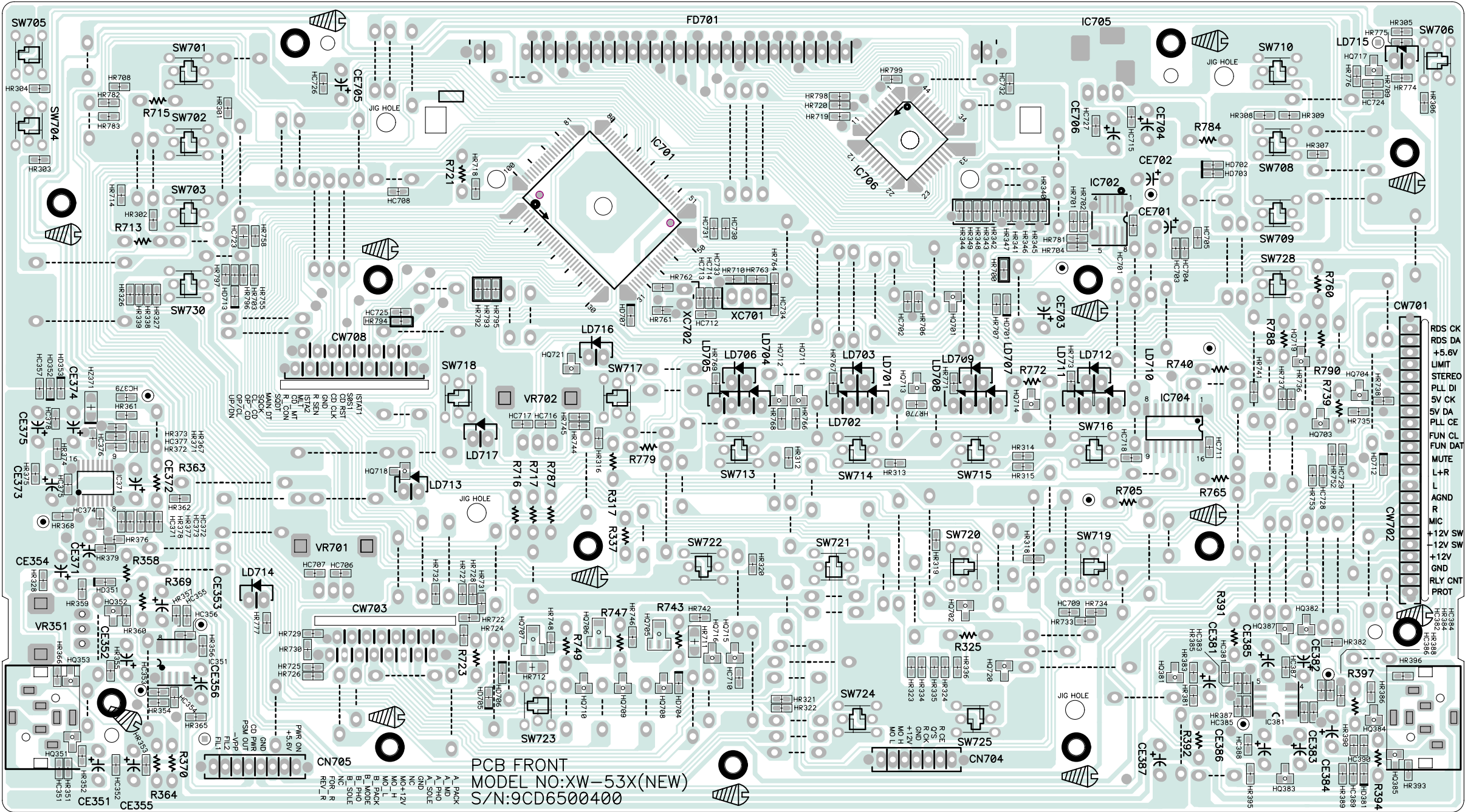
<Bottom View>



P.C.B Pattern Layout

● FRONT : **XG-53x[V][K]**, **XW-53x[K]** Series Models Only

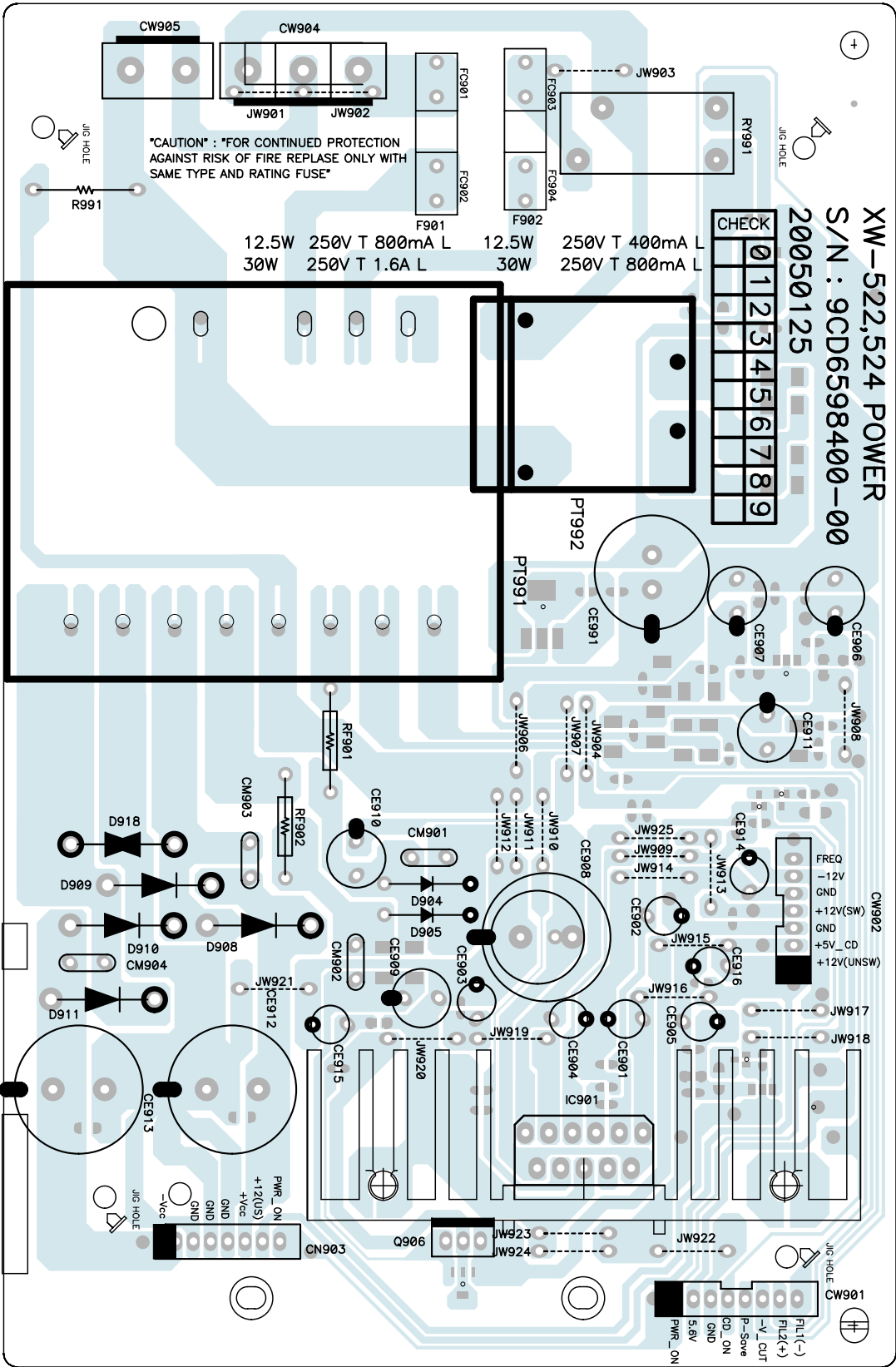
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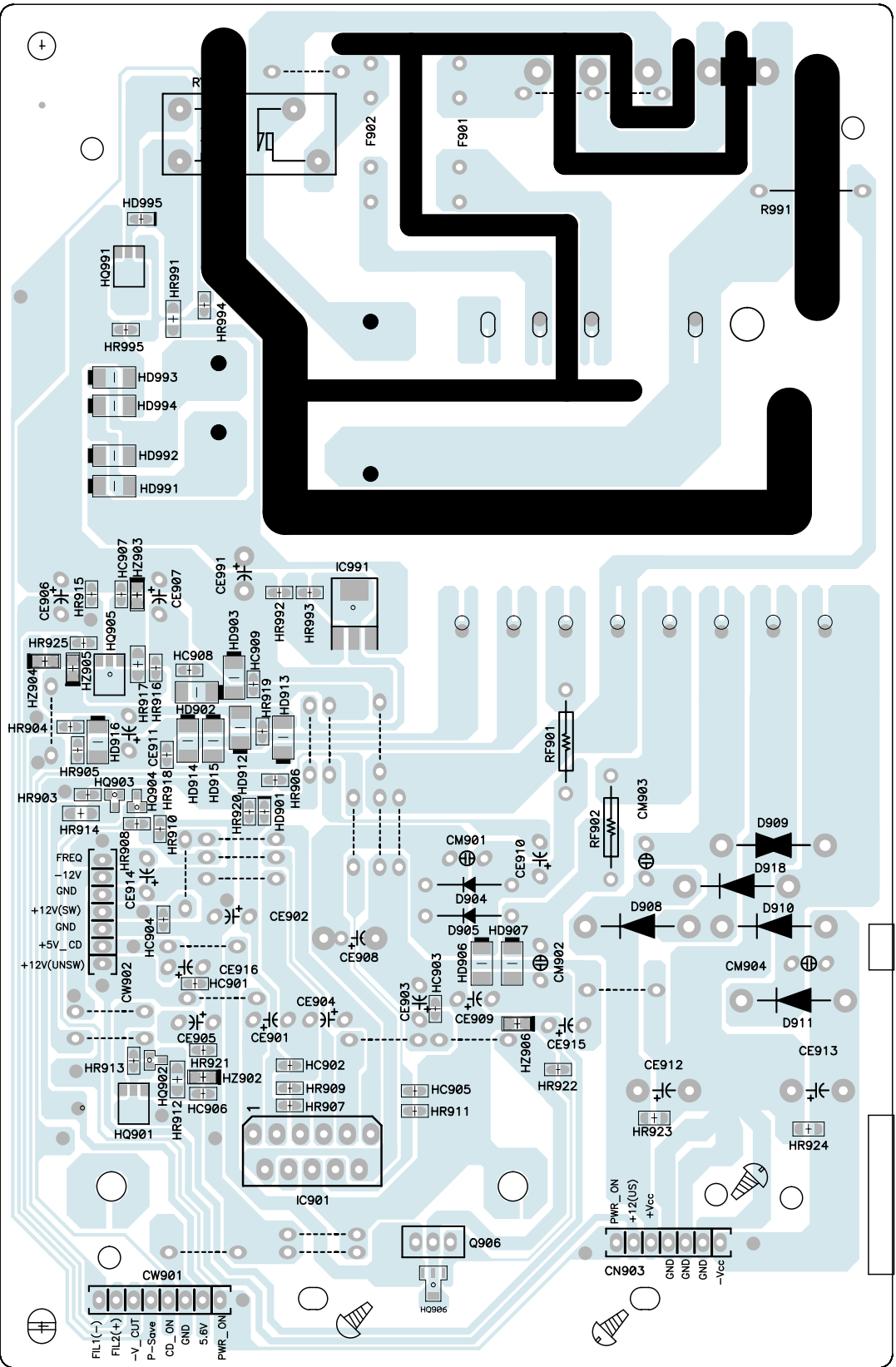
P.C.B Pattern Layout

POWER

<Top View>



<Bottom View>



Electrical Part List

Front PCB ASS'Y [9CDC078100] : PCB FRONT AS

Location	Part Code	Part Name	Description	Remark
FD701	DHNA11MS26	VFD	HNA-11MS26	
HD351 HD352 HD353 HD381 HD701 HD702 HD703 HD704 HD705 HD706 HD707 HD712 HD713	DZDS160---	DIODE SW CHIP	KDS160(KDS511)	
HQ351 HQ352 HQ353 HQ704	TZTC3875S-	TR CHIP	KTC3875Y	
HQ381 HQ382 HQ385 HQ702 HQ703	TZRC111S--	TR CHIP	KRC111S	
HQ383 HQ384	TZTD1304--	TR CHIP	KTD1304	
HQ387 HQ711 HQ712 HQ713 HQ714 HQ715	TZRA111S--	TR CHIP	KRA111S	
HQ701 HQ708 HQ709 HQ710 HQ716 HQ717 HQ718 HQ720 HQ721	TZRC107S--	TR CHIP	KRC107S	
HQ705 HQ706 HQ707	T2SA2071--	TR CHIP	2SA2071	
HQ719	TZRA107S--	TR CHIP	KRA107S	
IC351	1NJM4558M-	IC	NJM4558M	Karaoke model only
IC381	1BA4560F--	IC H/P AMP	BA4560F	
IC701	13776522V-	IC U-COM	M3776AMCH-1B9GP	
IC702	1M24C04MN-	IC EEPROM	M24C04MN SOP	
IC704	1F4094BM1T	IC	HCF4094M013TR	
IC705	1HK381B-DW	IC PRE AMP	HK381BT-DW	
IC706	1PT6315---	IC	PT6315	
J351 J701	9736325300	JACK H/P	HTJ-035-18A	
LD701 LD702 LD704 LD705 LD707 LD708 LD710 LD711	DSL332MC3F	LED	SLR332MC3F(GREEN)PI3	
LD703 LD706 LD709 LD712 LD715	DSL332VC3F	LED	SLR332VC3F(RED)PI3	
LD713 LD714 LD716 LD717	DMT-463UBD	LED	MT-463UBD/W60	
SW701 SW702 SW703 SW704 SW705 SW706 SW708 SW709 SW710 SW713 SW714 SW715 SW716 SW719 SW720 SW721 SW722 SW723 SW724 SW725 SW730	5S50101Z67	SW TACT	SKHV 10920A, 5MM	
SW728	5S50101001	SW TACT	KPT-1105A 1C-1P	
VR351	5V1503730B	VOL MIC	XV09211NPV20F1-B50K	
VR701	5SH1224375	SW ENCODER	RE0123PVB25FINB 1-2-24 PCE	
VR702	5SH1224379	SW ENCODER	RE012308PVB25FINB1-2-24 PCE	XG-53 series
VR702	5SH1224375	SW ENCODER	RE0123PVB25FINB 1-2-24 PCE	XG-52 series
VR351	5V1503730B	VOL MIC	XV09211NPV20F1-B50K	
XC701	5XJ16R000C	X-TAL	JWT-16.000-US	

Main PCB ASS'Y [9CDC077200] : PCB MAIN AS

Location	Part Code	Part Name	Description	Remark
D501	DIN4001---	DIODE	IN4001	
DZ506	DZTZ3R3B--	DIODE ZENER	MTZ-3.3B 52MM TAPPING	
HD401 HD402 HD500 HD501 HD502 HD641 HD642	DZDS160---	DIODE SW CHIP	KDS160(KDS511)	
HQ573 HQ574 HQ643 HQ644	TZTA1504S-	TR CHIP	KTA1504S	
HQ601 HQ602	TZTC3875S-	TR CHIP	KTC3875Y	
HQ603 HQ604 HQ642	TZRC111S--	TR CHIP	KRC111S	
HQ641	TZRA107S--	TR CHIP	KRA107S	
HQ645	T2SA2071--	TR CHIP	2SA2071	
HQ646	T2SC5824--	TR CHIP	2SC5824	
HZ401	DRLZ5R1B--	DIODE ZENER CHIP	RLZ5.1B	
IC451 IC452	1NJM4558M-	IC	NJM4558M	
IC501	1S1L9226--	IC SSP	S1L9226	
IC502	1S5L9290--	IC DSP	S5L9290	
IC505	1BA5927FM-	IC MOTOR DRIVE	BA5927FM	
IC506	1EN29F040-	IC FLASH ROM	EN29F040AF	
IC507	1GL4160L16	IC EDO RAM	GLT4160L16_44	XG-52 series XG-53 series
IC509	1ES3890F--	DECORDER	ES3890F DECODER	
IC510	1LD1117S33	IC REGULATOR	LD117AS33TR 3.3V (TO-223)	
IC601	1BD3401KS2	IC PROCESSOR	BD3401KS2	
IC602	1BA3126N--	IC SWITCHING	BA3126N	
IC603	1F4094BM1T	IC	HCF4094M013TR	
L580	5CPZ100K02	COIL PEAKING	10UH K(AXIAL3.5MM)	XG-52 series XG-53 series
L601 L602 L631 L632	5LC333K804	COIL CHOKE	33MH K	
L641	5L0503K643	COIL BIAS OSC	SM-10F 5.04MH	
Q510	TZTSB564AY	TR	KSB564AC-Y	

Electrical Part List

Location	Part Code	Part Name	Description	Remark
Q573 Q574	TZTC8050-D	TR	KTC8050-D	XG-52 series XG-53 series
R501	RN02B180JS	R METAL FILM	2W 18 OHM J SMALL	
RV641	RV1417222-	R SEMI FIXED	1/10 2.2K OHM B V6EK-PV1S	
TU001	9737652901	TUNER MODULE	KST-ML104MV1-E66	
W500	W1-BK12162	WIRE LEAD	1P #26 120MM BK UL 1007	
XC501	5XJ16R934C	X-TAL	HC-49/U 16.9344MHz 20PPM	
XC570	5XJ27M000E	CRYSTAL	HC-49/US 27MHZ 30PPM	XG-52 series XG-53 series

AMP PCB ASS'Y [9CDC07634] : PCB AMP AS

Location	Part Code	Part Name	Description	Remark
D801 D802	DZN4148---	DIODE	IN4148 AUTO 52MM	
IC801	1TDA7269A-	IC	TDA7269A	XW-522,532 XG-522,532
	1STK433030	R CHIP	STK433-030	XW-524,534 XG-524,534
	1STK433060	IC	STK433-060	XW-525,535 XG-525,535
	1STK433070	IC	STK433-070	XW-526,536 XG-526,536
Q801 Q802	TZTD1302Y-	TR	KTD1302Y AUTO	
Q803 Q804	TZRA111M--	TR	KRA111M(KSR2010) AUTO	
Q805	TZTC3198Y-	TR	KTC3198Y (2SC5343) AUTO	
R817 R818	RS-4Z100J-	R METAL OXIDE FILM	1/4 10 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	
R861 R862	RS-4Z100J-	R METAL OXIDE FILM	1/4 10 OHM J	
D801 D802	DZN4148---	DIODE	IN4148 AUTO 26MM	
Q801 Q802	TZTD1302Y-	TR	KTD1302Y AUTO	
Q803 Q804	TZRA111M--	TR	KRA111M	
Q805	TZTC3198Y-	TR	KTC3198Y-(2SC5345Y) AUTO	

Digital Amp. PCB ASS'Y [9CDC07700] : PCB CLASS-D(XG-527/528/537/538, XW-527/528/537/538 only)

Location	Part Code	Part Name	Description	Remark
HD805 HD811 HD812 HD813 HD814	DZDS160---	DIODE SW CHIP	KDS160	
HQ801 HQ803 HQ807 HQ809 HQ811 HQ827 HQ829	TZTA1504S-	TR CHIP	KTA1504Y	
HQ802	TMMBTA06--	TR CHIP	MMBTA06	
HQ804	TMMBTA56--	TR CHIP	MMBTA56	
HQ820	TZRA111S--	TR CHIP	KRA111S	
HQ805 HQ806 HQ808 HQ812 HQ813 HQ814 HQ815 HQ817 HQ818 HQ819 HQ823 HQ828	TZTC3875S-	TR CHIP	KTC3875Y	
HQ824 HQ825	TEMT2-----	TR CHIP	EMT2 2SA1037AK X 2	
HQ826	TEMX2-----	TR CHIP	EMX2 2SC2412AK X 2	
R829 R853	HRF0507FEA	R CHIP METAL PLATE	1W 0.05 OHM F MPS-1 3216 1%	
R817 R837	RS03Y101J-	R METAL OXIDE FILM	3W 10 OHM J	
HZ801 HZ802 HZ803 HZ804	DRLZ10B---	CHIP DIODE ZENNER	RLZ 10B	
IC801	1S1A0071--	IC AUDIO PROCESSOR	S1A0071 401	
IC802	1S1A0051X-	IC FET DRIVER	S1A0051X	
IC803	1K1A7905AP	IC REGULATOR	K1A7905AP	
IC804	1K1A7805AP	IC REGULATOR	K1A7805AP	
IC805	174HC00PWR	IC	SN74HC00PWR TSSOP	
J801	9736320500	JACK SPEAKER	CJ9007-040	
L801 L802	5LF150K855	COIL FILTER	15uH(TC16B-09)	
Q801 Q803	DFQF15P12-	FET	FQPF15P12	

Power PCB ASS'Y [9CDC076900] : PCB POWER AS

Power PCB ASS'Y [9CDC077900] : PCB POWER AS XG-547(XG-5x7 only)

Power PCB ASS'Y [9CDC078000] : PCB POWER AS XG-548(XG-5x8 only)

Location	Part Code	Part Name	Description	Remark
D904 D905	DRL202----	DIODE	RL202	
D917	DKBJ604G--	DIODE	KBJ604G	
F901 902	5FSGB4012L	FUSE GLASS TUBE	TL 400mA 250V	
	5FSGB8012L	FUSE GLASS TUBE	TL 800mA 250V	
	5F1GB1622L	FUSE GLASS TUBE	TL 1.6A 250V	
	5FSGB1222R	FUSE GLASS TUBE	N/T 1.25A 250V	
	5FSGB1622L	FUSE GLASS TUBE	TL 1.6A 250V	
	5F1GB2522L	FUSE GLASS TUBE	TL 2.5A 250V	
	5F1GB3122L	FUSE GLASS TUBE	TL 3.15A 250V	
HD901	DZDS160---	DIODE SW CHIP	KDS160(KDS511)	

Electrical Part List

Location	Part Code	Part Name	Description	Remark
HD902 HD903 HD906 HD907 HD991 HD991 HD992 HD993 HD994 HD995	D1SR154---	DIODE RECTIFIER	1SR154-400 4526	
HQ901	T2SA2071--	TR CHIP	2SA2071	
HQ902	TZTC3875S-	TR CHIP	KTC3875Y	
HQ903	TZRA111S--	TR CHIP	KRA111S	
HQ904	TZRC107S--	TR CHIP	KRC107S	
HQ905	T2SA2071--	TR CHIP	2SA2071	
Q906	TZTD2058Y-	TR	KTD2058Y AUTO	XG-52 series XG-53 series
Q906	T2SC5824--	TR CHIP	2SC5824	XW-52 series XW-53 series
HQ991	T2SC5824--	TR CHIP	2SC5824	
HZ902	DRLZ12B---	DIODE ZENER CHIP	RLZ12B	
HZ903	DRLZ30D---	DIODE ZENER CHIP	RLZ30D	
HZ904 HZ905 HZ906	DRLZ5R6B--	DIODE ZENER CHIP	RLZ5.6B	
IC901	1L4959----	IC	L4959	
IC991	1AIC1117CY-	IC REGULATOR	AIC117-CY	
PT991	5TP0066949	TRANS POWER	EI=66X30 127/220V, 60Hz/50Hz	XW-522,532 XG-522,532
	5TP0066950	TRANS POWER	EI=66X45 127/220V,60/50Hz	XW-524,534 XG-524,534
	5TP0066951	TRANS POWER	EI=74 x 42 127/220V,60/50Hz	XW-525,535 XG-525,535
	5TP0066952	TRANS POWER	EI=74 x 65 127/220V, 60/50Hz	XW-526,536 XG-526,536
	5TP0074955	TRANS POWER	EI=74X42 127/230V, 60Hz	XG-5x7
	5TP8074956	TRANS POWER	EI=74X42 230V, 50Hz	XG-5x7 Europe
	5TP0074957	TRANS POWER	EI=74X62 127/230V, 60Hz	XG-5x8
	5TP8074958	TRANS POWER	EI=74X62 230V, 50Hz	XG-5x8 Europe
PT992	5TP8028829	TRANS POWER	EI=28X12 230V 50HZ	
R991	RN-2Y475J-	R METAL FILM	1/2 4.7M OHM J	
RF901 RF902	RF01F4780J-32	R FUSEABLE	1W 0.47 OHM (32 times)	
RY991	5SC2001A01	SW RELAY	SDT-S-105LMR	
Q802 Q804	DFQF16N15-	FET	FQPF16N15	

Remocon ASS'Y [9CDM055100/9CDM055200] : AM-51M(R) - XW-52x[K]/53x[K] models only
 [9CDM058800/9CDM058900] : AM-53M(R) - XG-52x[K]/53x[K] models only
 [9CDM054500] : AM-44V - XG-52xV[K]/53xV[K] models only
 [9CDM054510] : AM-44VM - XG-52x[K]/53x[K] models only



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